Federal Home Loan Bank of Des Moines Monthly Price Report

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

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

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

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

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
050812A00050	8/12/2005	4.97	8/12/2025	100.5406159	100.4210551	100.3017942	100.1828319	100.064167	99.94579852	99.82772516	99.7099458	99.59245931
050823A00085	8/23/2005	4.78	8/25/2025	100.6865079	100.5306277	100.3752401	100.2203428	100.0659333	99.91200931	99.75856856	99.60560874	99.45312756
050823A00088	8/23/2005	4.78	8/25/2025	100.6865079	100.5306277	100.3752401	100.2203428	100.0659333	99.91200931	99.75856856	99.60560874	99.45312756
050902A00032	9/2/2005	4.69	8/22/2025	100.6362328	100.4887415	100.3416962	100.1950947	100.0489352	99.90321542	99.75793348	99.61308733	99.46867498
050923A00096	9/23/2005	4.86	9/22/2025	101.0527056	100.8186924	100.5857743	100.3539436	100.1231926	99.89351382	99.66489964	99.43734264	99.21083544
051003A00009	10/3/2005	5.15	10/15/2025	101.4084402	101.1103044	100.8139365	100.5193205	100.2264409	99.93528222	99.64582921	99.3580668	99.0719801
051107A00075	11/7/2005	5.29	11/17/2025	101.9304565	101.53946	101.15148	100.7664814	100.3844298	100.0052913	99.62903251	99.25562057	98.8850231
060308A00014	3/8/2006	5.44	3/16/2026	103.6870549	102.9606882	102.2445464	101.5384142	100.8420823	100.1553471	99.47801065	98.80988051	98.15076936
060808A00022	8/8/2006	5.57	6/15/2026	105.2008805	104.2137685	103.2452967	102.2949393	101.3621903	100.4465622	99.5475856	98.66480801	97.79779328
070518A00023	5/18/2007	5.46	5/18/2027	107.6931094	106.2415016	104.8209668	103.4306208	102.0696106	100.7371137	99.43233619	98.15451205	96.90290162
100809A00029	8/9/2010	4.23	8/15/2025	100.4865565	100.3587108	100.2312068	100.1040431	99.97721842	99.85073122	99.72458015	99.59876382	99.47328084
100824A00009	8/24/2010	3.91	9/2/2025	100.6221164	100.4442137	100.2669416	100.0902969	99.91427616	99.73887611	99.56409347	99.38992497	99.21636739
100930A00008	9/30/2010	3.82	9/30/2025	100.8745072	100.6187354	100.3642568	100.1110618	99.85914062	99.60848375	99.35908171	99.11092512	98.8640047
110505A00022	5/5/2011	4.59	5/15/2026	103.8432021	102.9493623	102.0709641	101.2076091	100.3589125	99.52450255	98.70402002	97.89711761	97.10345951
110701A00011	7/1/2011	3.87	7/1/2026	102.1148558	101.5214636	100.9367514	100.3605089	99.7925331	99.23262768	98.68060291	98.13627525	97.59946718
110719A00017	7/19/2011	3.68	7/20/2026	102.017359	101.4206759	100.832822	100.25358	99.68274035	99.1201005	98.5654648	98.01864412	97.47945564
110805A00014	8/5/2011	4.06	8/17/2026	104.4922762	103.3330791	102.1996715	101.0911986	100.0068428	98.9458221	97.90738805	96.89082385	95.89544279
110824A00006	8/24/2011	2.69	8/24/2026	101.758902	101.0799804	100.4148341	99.76300561	99.1240576	98.4975721	97.88314929	97.28040657	96.68897762
110909A00006	9/9/2011	2.26	9/9/2026	101.3651306	100.6891776	100.0246614	99.37126103	98.72866784	98.09658535	97.47472844	96.86282282	96.26060452
111007A00007	10/7/2011	3.92	10/7/2031	119.5096114	113.9091365	108.6413325	103.6840202	99.01662708	94.62006308	90.47660562	86.56979462	82.88433593
111216A00001	12/16/2011	3.95	12/30/2031	124.5223911	117.4751653	110.8857595	104.7218545	98.95357852	93.55330937	88.49549389	83.75648274	79.31437927
120113A00012	1/13/2012	3.62	1/15/2027	105.6412797	104.0740466	102.5381564	101.0327415	99.55696566	98.11002317	96.69113694	95.29955741	93.93456134
120113A00013	1/13/2012	3.87	1/15/2032	124.1088257	117.0305959	110.4150263	104.2292697	98.44298045	93.02811123	87.95872754	83.21083793	78.76223876
120127A00018	1/27/2012	3.64	2/1/2027	105.8611167	104.2454463	102.6626276	101.111727	99.59184608	98.10211987	96.64171527	95.20982959	93.80568914
120127A00019	1/27/2012	3.87	1/30/2032	124.2153377	117.0920979	110.4368237	104.2161268	98.39917494	92.95748267	87.86472119	83.09654395	78.63042753
120410A00005	4/10/2012	2.35	4/12/2027	103.1371626	101.8005839	100.4911669	99.20813393	97.95073707	96.71825628	95.5099983	94.32529532	93.16350383
120411A00013	4/11/2012	3.59	4/15/2027	106.6043388	104.7740723	102.9843309	101.2339167	99.52167736	97.84650457	96.20733136	94.60313042	93.0329122
120621A00009	6/21/2012	3.18	6/21/2032	115.8789172	110.3133104	105.0945662	100.1981347	95.60136587	91.28335139	87.22478035	83.40780806	79.81593609
120709A00016	7/9/2012	3.2	7/15/2027	106.7783955	104.6947589	102.6627015	100.6806085	98.74692762	96.86016625	95.01888869	93.22171344	91.46731079
120806A00015	8/6/2012	2.38	8/6/2027	102.6663082	101.5209463	100.3990454	99.29991977	98.22290997	97.16738159	96.13272407	95.1183496	94.12369202
120807A00026	8/7/2012	2.42	8/9/2027	102.7129335	101.566947	100.4444367	99.34471634	98.26712587	97.21103045	96.17581906	95.16090345	94.16571705
120808A00006	8/8/2012	2.06	8/9/2027	102.3770415	101.2336363	100.1136775	99.01647901	97.94138117	96.88774932	95.85497275	94.84246348	93.84965526
120827A00048	8/27/2012	2.01	8/27/2027	102.447868	101.2680965	100.1163833	98.9917986	97.89345228	96.82049151	95.77209904	94.74749136	93.74591691

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
120827A00052	8/27/2012	2.01	8/27/2027	102.447868	101.2680965	100.1163833	98.9917986	97.89345228	96.82049151	95.77209904	94.74749136	93.74591691
121116A00006	11/16/2012	2.64	11/13/2025	100.8467601	100.4696519	100.0953725	99.72388996	99.35517291	98.98919044	98.62591207	98.26530781	97.90734809
121116A00021	11/16/2012	2.35	11/17/2025	100.7880378	100.399712	100.0143876	99.63202978	99.25260431	98.87607737	98.50241571	98.13158658	97.76355772
121116A00022	11/16/2012	2.78	11/16/2029	112.932377	108.3630388	104.0061865	99.85084545	95.88666383	92.10387375	88.49325554	85.04610413	81.75419776
121120A00010	11/20/2012	1.93	11/22/2027	102.8756352	101.4426338	100.0425066	98.67424749	97.33688848	96.02949769	94.75117798	93.50106532	92.27832738
121120A00011	11/20/2012	2.22	11/22/2027	105.0196348	102.8861953	100.8113448	98.79309858	96.82955224	94.91887764	93.05931953	91.24919207	89.48687566
121217A00009	12/17/2012	2.02	12/17/2027	103.1860408	101.6644973	100.1789654	98.72831112	97.31144464	95.92731827	94.57492456	93.25329441	91.96149536
130107A00002	1/7/2013	3.22	1/18/2028	108.6086944	105.9876553	103.4440066	100.9749967	98.57799011	96.25046194	93.98999225	91.79426105	89.66104344
130206A00004	2/6/2013	2.14	2/7/2028	103.172079	101.7422682	100.3473098	98.98604707	97.6573719	96.36022228	95.09358	93.85646836	92.6479502
130206A00009	2/6/2013	2.83	2/7/2028	106.7222252	104.4011554	102.1480024	99.96030011	97.8356908	95.77191971	93.7668296	91.81835576	89.92452123
130207A00012	2/7/2013	2.9	2/7/2033	111.6619328	107.2694399	103.1215762	99.2020619	95.49583642	91.98895804	88.66851289	85.5225318	82.5399144
130211A00017	2/11/2013	3.27	2/15/2028	109.0151285	106.3090941	103.6846825	101.1389182	98.66895495	96.27207004	93.94565728	91.68722141	89.49437244
130405A00007	4/5/2013	2.91	4/17/2028	108.7939012	105.9124662	103.1225865	100.4208179	97.80386821	95.26858955	92.81197066	90.43113026	88.12331047
130424A00005	4/24/2013	3.07	4/24/2030	115.4710938	110.3937825	105.5723123	100.9924508	96.64083038	92.50489144	88.57282932	84.83354501	81.27659936
130531A00021	5/31/2013	3.22	5/30/2028	110.0758318	107.0566338	104.1367967	101.3125124	98.58014078	95.9362006	93.37736211	90.90043936	88.50238317
130913A00018	9/13/2013	3.72	9/13/2028	106.6926146	104.8583325	103.0783855	101.3506785	99.67321519	98.04409251	96.46149536	94.92369181	93.42902863
130926A00009	9/26/2013	4	10/2/2028	113.8185731	110.3885046	107.0816154	103.8927211	100.8168914	97.84943628	94.9858917	92.22200756	89.55373559
131018A00006	10/18/2013	3.28	10/20/2025	101.1554395	100.7642903	100.3762035	99.991143	99.60907334	99.22995949	98.85376702	98.48046203	98.11001113
131217A00024	12/17/2013	4.34	1/2/2029	115.7997165	112.0823307	108.5072309	105.0681809	101.7592532	98.57481227	95.509498	92.55821103	89.71609835
140219A00005	2/19/2014	3.13	2/20/2029	106.3032357	104.3352644	102.4251509	100.5707187	98.76989	97.02068015	95.32119296	93.66961598	92.06421624
140423A00036	4/23/2014	4.03	4/23/2029	115.9497555	111.9082123	108.0323783	104.314566	100.747487	97.32422844	94.03823176	90.88327255	87.85344167
140521A00019	5/21/2014	3.43	5/22/2028	110.6197135	107.6145101	104.7074719	101.8948636	99.17311276	96.53880225	93.98866237	91.51956363	89.12851001
140626A00036	6/26/2014	3.55	6/26/2029	115.0015391	110.7893171	106.7575983	102.897672	99.20129497	95.66066447	92.26839167	89.0174776	85.90129049
140717A00027	7/17/2014	3.14	7/17/2026	103.2571685	102.1624624	101.0916908	100.0440675	99.01884046	98.01528992	97.03272693	96.07049157	95.12795144
140815A00032	8/15/2014	3.59	10/15/2029	115.9135136	111.3786137	107.0497416	102.9164077	98.96871516	95.1973232	91.59341256	88.1486533	84.85517487
140911A00033	9/11/2014	3.02	9/13/2027	105.2232777	103.4962059	101.8138142	100.1745798	98.57704569	97.01981648	95.50155566	94.02098241	92.57686876
140917A00030	9/17/2014	3.23	9/17/2029	112.5281638	108.6783758	104.9954309	101.4710374	98.09736493	94.86701656	91.77300195	88.80871264	85.96789891
140924A00057	9/24/2014	3.25	9/25/2028	110.7543906	107.53295	104.4270779	101.4319683	98.5430425	95.75593753	93.06649436	90.47074732	87.96491392
141117A00011	11/17/2014	3.81	11/17/2034	130.4801493	120.282543	110.9965923	102.5351695	94.8199174	87.78032456	81.35290312	75.48045615	70.11142484
150203A00027	2/3/2015	2.26	2/4/2030	105.8505411	103.3779404	100.9933831	98.69298368	96.47305683	94.33010606	92.26081253	90.26202475	88.33074908
150319A00012	3/19/2015	3.13	3/19/2029	112.1641955	108.2935523	104.5788927	101.0130202	97.58911643	94.30071854	91.14169831	88.10624244	85.18883425
150319A00013	3/19/2015	3.25	3/19/2030	115.7055233	110.7353312	106.0106677	101.5180298	97.24473527	93.1788679	89.30922639	85.62527718	82.11711076
150427A00014	4/27/2015	2.98	4/27/2035	114.2044835	108.7562048	103.6752711	98.93265585	94.50187879	90.35876394	86.4812223	82.84905628	79.44378389

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
150601A00261	6/1/2015	3.19	2/11/2033	112.594372	108.3831284	104.4005494	100.6318837	97.0634501	93.68255195	90.47739981	87.43704014	84.55129025
150601A00270	6/1/2015	3.12	3/21/2031	109.5467828	106.4498376	103.4842439	100.6432372	97.92045288	95.30989954	92.80593449	90.40324107	88.09680765
150601A00396	6/1/2015	3.61	1/3/2029	106.5579298	104.7071555	102.9093613	101.1625938	99.46498679	97.81475643	96.21019699	94.64967685	93.1316348
150601A00405	6/1/2015	4.63	1/17/2034	135.1122988	125.5582795	116.7861708	108.7270645	101.3184884	94.50377309	88.23148447	82.4549145	77.13162378
150601A00411	6/1/2015	3.38	1/24/2029	106.149564	104.3025021	102.5083924	100.7652795	99.07129554	97.42465506	95.82365102	94.26665069	92.75209187
150601A00426	6/1/2015	3.37	2/21/2029	106.2780052	104.3871068	102.5513652	100.7687146	99.03718255	97.35488459	95.72002013	94.13086787	92.58578175
150601A00440	6/1/2015	3.27	3/16/2029	106.2349585	104.3027921	102.4279488	100.6082513	98.84162166	97.12607624	95.45972047	93.84074426	92.26741764
150601A00450	6/1/2015	3.28	4/27/2029	106.3980709	104.4207961	102.50321	100.6430135	98.83801368	97.08611813	95.38532941	93.73374014	92.12952824
150601A00460	6/1/2015	3.05	5/16/2029	106.08631	104.0716834	102.1188916	100.2255221	98.38927502	96.60795664	94.87947383	93.20182872	91.57311365
150601A00475	6/1/2015	3.04	6/1/2029	106.0693099	104.0539806	102.1005558	100.2066183	98.3698632	96.58809247	94.85920891	93.18121084	91.55218707
150601A00477	6/1/2015	3.21	6/1/2029	106.6948875	104.625235	102.6196919	100.6757424	98.79098827	96.96314264	95.190024	93.46955052	91.79973481
150601A00506	6/1/2015	3.14	7/6/2029	106.5317021	104.4271255	102.3892547	100.4154169	98.50306671	96.64977859	94.85324084	93.11124922	91.42170124
150601A00512	6/1/2015	3.79	7/16/2029	115.6506325	111.3777374	107.289622	103.3772803	99.63219529	96.04630999	92.61199971	89.32204651	86.16961512
150601A00523	6/1/2015	4.55	7/25/2031	126.6339319	119.9690226	113.7102459	107.8305361	102.3047741	97.10963753	92.22346254	87.6261176	83.2988872
150601A00528	6/1/2015	3.08	7/27/2029	106.4123372	104.3082555	102.2709279	100.2976767	98.38595175	96.53332347	94.73747632	92.99620253	91.3073964
150601A00559	6/1/2015	3.06	8/31/2029	106.5032847	104.355496	102.2769495	100.2648291	98.31645493	96.42927499	94.60085863	92.82888967	91.11116027
150601A00664	6/1/2015	3.78	1/16/2032	123.1642478	116.1137755	109.5248641	103.364713	97.60302125	92.21178474	87.16511029	82.43904615	78.01142676
150601A00665	6/1/2015	3.82	1/14/2033	125.8915793	117.7331	110.1784421	103.1794283	96.69197211	90.67570985	85.09366824	79.911963	75.09952581
150601A00666	6/1/2015	3.88	1/16/2035	130.9625985	120.5824481	111.1442038	102.5564818	94.73723799	87.61276867	81.11682243	75.189811	69.77810713
150601A00667	6/1/2015	3.88	1/16/2036	132.9716178	121.51192	111.1853776	101.8724927	93.4669967	85.87432206	79.01025793	72.79976632	67.17593906
150601A00668	6/1/2015	3.89	1/16/2037	134.6631496	122.1515261	110.9773048	100.9883078	92.05048413	84.04566421	76.86960189	70.43026732	64.64635665
150601A00736	6/1/2015	2.87	5/1/2030	107.0744352	104.5805229	102.1771973	99.8603788	97.6262023	95.4710043	93.39131099	91.38382709	89.44542545
150601A00832	6/1/2015	7.17	8/28/2025	100.5646605	100.479147	100.3938673	100.3088203	100.224005	100.1394205	100.0550656	99.97093946	99.88704102
150601A00851	6/1/2015	7.12	4/30/2027	106.6719711	105.688537	104.7236754	103.7768611	102.8475892	101.9353738	101.0397472	100.160259	99.2964753
150601A00864	6/1/2015	7.37	3/31/2028	110.6438783	109.1245183	107.6414111	106.1933884	104.7793295	103.3981587	102.0488433	100.7303915	99.4418504
150601A00868	6/1/2015	7.08	6/5/2028	111.1891375	109.5280897	107.9090739	106.3306835	104.7915701	103.2904406	101.8260547	100.3972221	99.00280018
150601A00871	6/1/2015	6.74	7/31/2028	110.9663551	109.261595	107.6009192	105.9828268	104.4058798	102.8687	101.3699663	99.90841145	98.48281974
150601A00872	6/1/2015	7.42	7/31/2028	112.099767	110.3768521	108.698491	107.0631666	105.4694259	103.9158759	102.4011815	100.9240618	99.48328823
150601A00875	6/1/2015	7.14	9/29/2028	112.2975668	110.4801868	108.7116297	106.990182	105.3142041	103.6821262	102.0924452	100.5437208	99.03457282
150601A00883	6/1/2015	6.21	11/30/2028	111.2420831	109.3519578	107.514537	105.72792	103.9902894	102.2999067	100.6551082	99.05430154	97.49596158
150601A00888	6/1/2015	5.92	3/1/2029	111.5333467	109.5021676	107.5307665	105.6168922	103.7583958	101.9532248	100.199418	98.49510132	96.83848275
150601A00889	6/1/2015	6.55	3/2/2029	113.0798039	110.9755041	108.9341248	106.9532663	105.0306389	103.1640569	101.3514328	99.59077262	97.88017087
150601A00893	6/1/2015	6.49	4/6/2029	113.261913	111.107875	109.0193661	106.9938503	105.0289092	103.1222359	101.2716284	99.47498466	97.73029696

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
150601A00897	6/1/2015	6.15	5/28/2029	112.8464964	110.6535265	108.5284727	106.4686706	104.4715802	102.5347792	100.6559572	98.83290908	97.06352987
150601A00899	6/1/2015	7.07	6/14/2029	114.2731642	112.1039968	110.0018848	107.9641903	105.9883988	104.0721132	102.2130469	100.4090183	98.6579451
150601A00905	6/1/2015	6.14	10/29/2029	114.2541452	111.8016873	109.4315498	107.1402771	104.9245845	102.7813488	100.7075986	98.70050643	96.75738051
150601A00906	6/1/2015	6.2	11/1/2029	114.3977225	111.9419245	109.5685687	107.2741939	105.0555103	102.9093896	100.832856	98.82307748	96.87735799
150601A00912	6/1/2015	5.96	11/30/2029	114.1040581	111.6087042	109.1984161	106.8695764	104.6187487	102.4426671	100.3382263	98.30247293	96.33259686
150601A00916	6/1/2015	7.27	4/5/2030	134.7900094	129.318425	124.1132612	119.1599393	114.4447644	109.9548669	105.6781475	101.6032264	97.71939636
150601A00927	6/1/2015	6.08	8/7/2030	116.0501994	113.2268391	110.5107282	107.8968292	105.3803797	102.9568752	100.6220534	98.37187967	96.20253293
150601A00928	6/1/2015	5.94	8/21/2030	115.690634	112.8728955	110.162277	107.5537434	105.0425349	102.6241494	100.2943275	98.04903682	95.88445916
150601A00929	6/1/2015	5.91	8/30/2030	116.4372976	113.467361	110.6125946	107.8675211	105.2269649	102.6860333	100.2400987	97.88478284	95.61594151
150601A00935	6/1/2015	6.46	11/21/2030	118.9126453	115.7352863	112.6860725	109.7586961	106.947207	104.2459902	101.6497445	99.15346287	96.75241404
150601A00939	6/1/2015	5.79	1/17/2031	117.4069335	114.1768121	111.0803236	108.110739	105.2617189	102.527288	99.90181166	97.37997454	94.95675984
150601A00943	6/1/2015	6.44	5/9/2031	120.6128798	117.1000627	113.739846	110.5242029	107.4455897	104.4969133	101.6715012	98.96307372	96.36571803
150601A00948	6/1/2015	6.04	10/22/2031	119.1256795	115.6234667	112.2783883	109.0818666	106.0258598	103.1028248	100.3056823	97.62778569	95.06289108
150601A01024	6/1/2015	5.33	2/27/2026	103.31123	102.6334975	101.9646791	101.3045995	100.6530882	100.0099789	99.3751097	98.74832281	98.12946443
150601A01041	6/1/2015	5.99	10/2/2036	135.4341762	128.06059	121.2510965	114.9554581	109.128374	103.728958	98.72027447	94.06892637	89.74468908
150603A00012	6/3/2015	2.77	6/3/2030	107.630029	104.9423998	102.3560682	99.86633819	97.46876631	95.15914652	92.9334957	90.7880403	88.71920393
150604A00039	6/4/2015	2.82	6/4/2030	107.7654814	105.0744227	102.484794	99.99189285	97.59127002	95.27871374	93.05023552	90.9020568	88.83059638
150610A00008	6/10/2015	3.58	6/10/2030	118.3759612	113.0960902	108.0877957	103.3356572	98.82520948	94.5428782	90.47592063	86.61237039	82.94098625
150701A00056	7/1/2015	2.34	7/1/2025	100.0054132	100.0026345	99.99985824	99.9970844	99.99431299	99.991544	99.98877745	99.98601331	99.98325159
150714A00003	7/14/2015	3.76	7/12/2030	110.5007873	107.6965318	104.9994735	102.4045797	99.90709168	97.50250742	95.18656638	92.95523476	90.80469185
150720A00012	7/20/2015	2.99	7/21/2025	100.1526088	100.094253	100.0359807	99.97779185	99.91968619	99.86166355	99.80372374	99.74586658	99.68809189
150721A00027	7/21/2015	3.74	7/22/2030	119.1680635	113.7618009	108.6386666	103.7822809	99.1772991	94.80934082	90.664924	86.73140406	82.99691742
150722A00033	7/22/2015	2.47	7/22/2025	100.1229042	100.0618423	100.0008692	99.93998446	99.87918807	99.81847977	99.75785938	99.6973267	99.63688154
150722A00035	7/22/2015	2.92	7/22/2025	100.3642416	100.2177312	100.0716622	99.92603251	99.78084014	99.63608309	99.49175939	99.34786704	99.2044041
150727A00013	7/27/2015	3.04	7/28/2025	100.2021108	100.1243587	100.0467326	99.96923209	99.89185698	99.81460691	99.73748161	99.66048076	99.58360408
150729A00028	7/29/2015	2.25	7/29/2025	100.1497411	100.0692199	99.98883197	99.90857682	99.82845416	99.74846367	99.66860503	99.58887791	99.509282
150729A00041	7/29/2015	2.44	7/29/2025	100.159596	100.0791223	99.99878114	99.91857209	99.83849486	99.75854912	99.67873458	99.59905091	99.5194978
150731A00016	7/31/2015	3.04	7/31/2025	100.2235068	100.1374237	100.0514871	99.9656968	99.88005234	99.7945534	99.7091996	99.62399059	99.53892602
150803A00033	8/3/2015	3.41	8/2/2030	115.4326703	110.7011935	106.2108121	101.9476637	97.89876621	94.05195632	90.39583321	86.9197062	83.6135464
150803A00036	8/3/2015	3.41	8/2/2030	115.4326703	110.7011935	106.2108121	101.9476637	97.89876621	94.05195632	90.39583321	86.9197062	83.6135464
150803A00037	8/3/2015	3.41	8/2/2030	115.4326703	110.7011935	106.2108121	101.9476637	97.89876621	94.05195632	90.39583321	86.9197062	83.6135464
150803A00038	8/3/2015	3.41	8/2/2030	115.4326703	110.7011935	106.2108121	101.9476637	97.89876621	94.05195632	90.39583321	86.9197062	83.6135464
150803A00039	8/3/2015	3.01	8/2/2030	108.3483066	105.5591697	102.8779629	100.2995648	97.81913513	95.43209766	93.13412362	90.9211168	88.78919943

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
150803A00041	8/3/2015	3.01	8/2/2030	108.3483066	105.5591697	102.8779629	100.2995648	97.81913513	95.43209766	93.13412362	90.9211168	88.78919943
150803A00042	8/3/2015	3.01	8/2/2030	108.3483066	105.5591697	102.8779629	100.2995648	97.81913513	95.43209766	93.13412362	90.9211168	88.78919943
150812A00052	8/14/2015	2.13	8/14/2025	100.1847144	100.0792149	99.97395316	99.86892822	99.76413926	99.65958542	99.55526587	99.45117975	99.34732623
150814A00029	8/14/2015	2.39	8/14/2025	100.2050238	100.0995764	99.99436566	99.88939087	99.78465113	99.68014561	99.57587348	99.47183391	99.36802607
150817A00099	8/17/2015	3.19	8/17/2027	107.0721185	104.8952091	102.7737312	100.7058853	98.68994466	96.72425213	94.8072166	92.93730977	91.11306316
150819A00012	8/19/2015	3.04	8/19/2025	100.3640812	100.2252786	100.0868753	99.94886946	99.81125933	99.67404316	99.53721924	99.40078583	99.26474122
150819A00013	8/19/2015	3.51	8/19/2030	118.2066995	112.7466084	107.5763664	102.6789895	98.03858192	93.64026015	89.4700826	85.51498495	81.76272017
150824A00033	8/24/2015	2.22	8/25/2025	100.2123474	100.0930455	99.97405397	99.85537161	99.73699709	99.61892912	99.50116644	99.38370777	99.26655187
150824A00050	8/24/2015	2.03	8/25/2025	100.1977284	100.0783604	99.95930398	99.84055776	99.72212048	99.60399082	99.48616751	99.36864926	99.25143481
150826A00038	8/26/2015	2.94	8/26/2026	103.3737421	102.1951079	101.0433186	99.91746476	98.81667733	97.74012583	96.6870161	95.65658836	94.64811534
150826A00039	8/26/2015	3.22	8/27/2029	114.2003268	109.8313317	105.6561072	101.664975	97.84879691	94.19894164	90.70725334	87.36602256	84.16795912
150925A00034	9/25/2015	2.36	9/25/2025	100.3223485	100.1558299	99.98994407	99.82468708	99.66005504	99.49604411	99.33265047	99.16987034	99.00769995
150929A00076	9/29/2015	2.28	9/29/2025	100.3160701	100.1458753	99.97634701	99.80748083	99.63927258	99.47171807	99.30481314	99.13855368	98.9729356
150929A00083	9/29/2015	2.09	9/29/2025	100.2952772	100.1249965	99.95538398	99.78643541	99.61814647	99.45051296	99.28353069	99.1171955	98.9515033
150929A00087	9/29/2015	2.09	9/29/2025	100.2952772	100.1249965	99.95538398	99.78643541	99.61814647	99.45051296	99.28353069	99.1171955	98.9515033
151001A00023	10/1/2015	2.02	10/1/2025	100.3221883	100.1292319	99.93711443	99.74583009	99.5553731	99.36573773	99.17691831	98.98890922	98.80170489
151013A00033	10/13/2015	2.23	10/14/2025	100.3652232	100.1640342	99.96377646	99.76444287	99.56602655	99.36852062	99.17191831	98.97621289	98.78139772
151029A00008	10/29/2015	2.28	10/29/2025	100.3966583	100.1843601	99.97312723	99.76295096	99.55382252	99.34573327	99.13867469	98.93263834	98.72761589
151030A00026	10/30/2015	3.29	10/30/2030	115.3431978	110.4305549	105.7780708	101.3702931	97.19277343	93.23199711	89.47531763	85.9108964	82.52764689
151106A00011	11/6/2015	3.1	1/15/2026	101.515247	100.9626697	100.4161152	99.87548522	99.34068366	98.8116164	98.28819137	97.77031847	97.25790951
151116A00025	11/16/2015	3.04	11/14/2025	101.0070068	100.6267543	100.2493744	99.87483455	99.50310267	99.13414712	98.76793677	98.40444092	98.04362937
151118A00037	11/18/2015	2.75	11/18/2025	101.0894205	100.630749	100.1763272	99.72609564	99.27999597	98.83797103	98.39996464	97.9659217	97.5357881
151120A00019	11/20/2015	2.72	11/20/2030	108.090813	105.17383	102.3744416	99.68686152	97.1056315	94.62560054	92.24190548	89.9499529	87.74540235
151125A00037	11/25/2015	2.41	11/25/2025	100.5081954	100.2549927	100.0033258	99.75317931	99.50453804	99.25738697	99.01171134	98.76749657	98.52472828
151204A00011	12/4/2015	2.28	12/4/2025	100.5581663	100.2719803	99.98774184	99.70542924	99.42502116	99.14649657	98.86983479	98.59501544	98.32201846
151209A00024	12/9/2015	2.22	12/9/2025	100.5456241	100.2571749	99.97071427	99.68621981	99.40366931	99.12304098	98.84431335	98.56746528	98.29247597
151223A00072	12/23/2015	2.81	12/23/2025	101.2242692	100.7355315	100.251518	99.77216017	99.29739099	98.82714468	98.36135669	97.89996371	97.44290363
151223A00074	12/23/2015	3.01	12/23/2027	108.0178185	105.4716333	102.9991434	100.5977891	98.26511565	95.99876839	93.796488	91.65610596	89.57554033
151223A00077	12/23/2015	3.57	12/24/2035	131.0134022	119.6692384	109.4458499	100.2253257	91.90276852	84.38479643	77.5882247	71.43890398	65.87069626
151223A00078	12/23/2015	2.28	12/23/2025	100.5764027	100.2814285	99.98856258	99.69778	99.40905616	99.12236691	98.83768847	98.55499748	98.27427092
151228A00013	12/28/2015	2.27	12/29/2025	100.578216	100.2809384	99.98581284	99.69281342	99.40191464	99.11309144	98.82631919	98.54157369	98.2588311
151229A00026	12/29/2015	2.28	12/29/2025	100.5821531	100.2844043	99.98881645	99.69536342	99.40401955	99.1147596	98.82755877	98.54239267	98.25923731
151229A00079	12/29/2015	3	12/30/2025	101.3363105	100.8283452	100.3254644	99.82759202	99.33465366	98.84657623	98.36328811	97.8847191	97.41080035

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
151229A00080	12/29/2015	3.49	12/30/2030	119.0888939	113.2323946	107.7061978	102.4898847	97.56440383	92.91197292	88.51598749	84.360937	80.43232727
151229A00081	12/29/2015	3.76	12/31/2035	132.2164379	120.8369998	110.579875	101.3270489	92.97353248	85.42586239	78.60078097	72.4240732	66.82954158
160106A00042	1/6/2016	2.43	1/6/2026	100.6777875	100.3464462	100.0177554	99.69168025	99.36818654	99.04724062	98.72880951	98.41286078	98.09936261
160115A00011	1/15/2016	2.18	1/15/2026	100.6017783	100.2671476	99.93524159	99.6060237	99.27945789	98.95550883	98.63414186	98.31532295	97.99901871
160119A00019	1/19/2016	2.95	1/19/2027	104.6295371	103.059677	101.5213538	100.0136888	98.53583563	97.08697885	95.66633222	94.27313759	92.90666357
160119A00025	1/19/2016	3.05	1/19/2028	108.1776105	105.559461	103.0187126	100.5526102	98.15851538	95.8339003	93.57634246	91.3835195	89.25320433
160119A00026	1/19/2016	3.14	1/19/2029	111.6691076	107.9781402	104.4305997	101.0201178	97.74064589	94.58643727	91.55203002	88.63223132	85.82210252
160119A00027	1/19/2016	3.25	1/18/2030	115.2035935	110.419057	105.8639126	101.5259214	97.39356381	93.45599327	89.70299304	86.12493633	82.71274899
160119A00028	1/19/2016	3.34	1/21/2031	118.3956129	112.4974856	106.9352976	101.6880899	96.73632043	92.06176134	87.6474033	83.47736798	79.53682692
160119A00029	1/19/2016	3.39	1/20/2032	120.9537703	113.9638792	107.4335174	101.3299366	95.62289005	90.28442889	85.28871593	80.61185564	76.23173859
160119A00030	1/19/2016	3.44	1/18/2033	123.4364299	115.3578667	107.8798138	100.9542233	94.53713556	88.58831169	83.07090002	77.95113469	73.1980623
160119A00072	1/19/2016	2.77	1/21/2031	108.9179131	105.6066158	102.4400268	99.41047189	96.51074217	93.73406226	91.07406143	88.52474668	86.0804778
160126A00004	1/26/2016	2.52	1/26/2026	101.4982538	100.8361605	100.1827417	99.53782757	98.90125245	98.27285514	97.65247851	97.03996944	96.43517869
160129A00066	1/29/2016	3.04	1/29/2031	117.1712307	111.2704005	105.7077356	100.4620317	95.51352535	90.84378811	86.43562961	82.27300779	78.34094624
160129A00067	1/29/2016	2.53	1/29/2026	101.3313478	100.7402806	100.1560974	99.57867843	99.0079068	98.44366817	97.88585084	97.33434565	96.78904592
160201A00016	2/1/2016	2.1	2/2/2026	100.6455801	100.2723348	99.90248142	99.53596914	99.17274831	98.81277024	98.4559873	98.1023528	97.75182101
160209A00006	2/9/2016	1.91	2/9/2026	100.5792599	100.2035115	99.83122002	99.46233302	99.09679902	98.73456766	98.37558963	98.01981668	97.66720153
160209A00008	2/9/2016	2.45	2/10/2031	107.3904453	104.3677952	101.4715667	98.69533181	96.03303791	93.47898297	91.02779304	88.67440105	86.41402722
160210A00042	2/10/2016	2.57	2/10/2026	101.3941498	100.7703774	100.1542745	99.54569993	98.94451634	98.35058951	97.76378849	97.18398548	96.61105573
160210A00049	2/10/2016	1.78	2/10/2026	100.556619	100.1803277	99.80750769	99.43810601	99.07207082	98.70935139	98.34989808	97.99366225	97.64059632
160210A00051	2/10/2016	2.28	2/10/2031	107.0876078	104.0694344	101.1776292	98.40576076	95.74777324	93.19796218	90.75095157	88.40167274	86.14534463
160210A00054	2/10/2016	1.78	2/10/2026	100.556619	100.1803277	99.80750769	99.43810601	99.07207082	98.7093514	98.34989808	97.99366225	97.64059632
160211A00036	2/11/2016	2.41	2/11/2026	101.3005083	100.6743162	100.0558587	99.44499288	98.84157956	98.24548281	97.65657002	97.07471177	96.49978173
160211A00038	2/11/2016	1.83	2/11/2026	100.5502346	100.1739077	99.8010537	99.43161976	99.06555394	98.70280546	98.34332459	97.98706268	97.63397206
160212A00037	2/12/2016	3.03	2/12/2031	116.7823317	110.8651557	105.2889072	100.0320965	95.07470188	90.39806212	85.9847762	81.8186118	77.88442061
160212A00047	2/12/2016	1.94	2/12/2026	100.5924293	100.2156008	99.84225535	99.47233962	99.10580149	98.74258994	98.38265501	98.02594782	97.67242048
160222A00005	2/22/2016	2.79	2/22/2028	107.7972301	105.0871194	102.4593354	99.91085539	97.43878986	95.04037513	92.71296702	90.45403473	88.26115509
160222A00018	2/22/2016	2.59	2/23/2026	101.4940379	100.8341388	100.182809	99.53988214	98.90519642	98.27859406	97.65992131	97.04902832	96.44576896
160222A00019	2/22/2016	3.09	2/21/2031	117.1862175	111.2304962	105.6191251	100.3303188	95.34378658	90.64062155	86.20319882	82.01508171	78.06093531
160303A00020	3/3/2016	2.97	3/3/2031	116.9900694	110.9954188	105.3494455	100.0299685	95.01633729	90.28931745	85.83098606	81.62463511	77.65468256
160303A00035	3/3/2016	2.14	3/3/2026	100.8641113	100.3805955	99.90229146	99.4291088	98.96095919	98.49775647	98.0394165	97.58585715	97.13699819
160307A00024	3/7/2016	2.17	3/6/2026	100.7572778	100.3398993	99.92679821	99.51790227	99.11314071	98.7124445	98.31574623	97.92298004	97.53408157
160307A00027	3/7/2016	2.71	3/6/2026	101.6525212	100.9617581	100.2803736	99.60817773	98.94498532	98.29061626	97.64489522	97.00765147	96.37871878

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
160307A00028	3/7/2016	2.91	3/7/2028	108.2423402	105.486658	102.8155983	100.2260155	97.71490437	95.27939271	92.91673442	90.62430282	88.39958458
160307A00029	3/7/2016	3.21	3/7/2031	117.9657427	111.9477126	106.2793843	100.9385133	95.90439031	91.15772715	86.68055094	82.4561075	78.46877204
160328A00038	3/28/2016	2.54	3/30/2026	101.8591884	101.0413822	100.236921	99.44547861	98.66673919	97.90039716	97.14615668	96.40373126	95.67284342
160328A00045	3/28/2016	2.49	3/27/2026	101.693769	100.9443519	100.205961	99.47835438	98.76129694	98.05456045	97.35792321	96.67116985	95.99409107
160329A00017	3/29/2016	2.48	3/30/2026	101.8099359	100.9924375	100.1882797	99.39713621	98.61869148	97.85263996	97.09868592	96.35654296	95.62593368
160330A00054	3/30/2016	2.9	3/31/2031	116.7340651	110.6700676	104.9630154	99.58993352	94.52945181	89.76168402	85.26811628	81.0315047	77.03578126
160404A00019	4/4/2016	2.48	4/4/2031	107.679042	104.5625406	101.5796008	98.72328032	95.9870508	93.36476967	90.85065499	88.43926167	86.12545956
160412A00029	4/12/2016	2.48	4/14/2031	107.6794909	104.5626599	101.5794281	98.72285021	95.98639494	93.36391711	90.84963226	88.43809301	86.12416706
160413A00014	4/13/2016	2.55	4/14/2031	107.9000872	104.7768313	101.7874529	98.92499223	96.18290414	93.55503057	91.0355749	88.6190783	86.3003977
160413A00016	4/13/2016	2.55	4/14/2031	107.9000872	104.7768313	101.7874529	98.92499223	96.18290414	93.55503057	91.0355749	88.6190783	86.3003977
160413A00021	4/13/2016	2.48	4/13/2026	101.9206828	101.0591721	100.2123846	99.37994342	98.56148487	97.75665726	96.96512072	96.18654657	95.42061696
160413A00033	4/13/2016	2.32	4/13/2026	101.7012158	100.8779317	100.0684776	99.27250297	98.48966889	97.71964793	96.96212348	96.21678934	95.48334931
160414A00042	4/13/2016	2.48	4/13/2026	101.9206828	101.0591721	100.2123846	99.37994342	98.56148487	97.75665726	96.96512072	96.18654657	95.42061696
160421A00016	4/21/2016	2.26	4/21/2026	101.8188786	100.9467266	100.0897875	99.24766347	98.41997023	97.60633688	96.80640511	96.01982878	95.24627333
160422A00026	4/22/2016	2.62	4/22/2026	101.9284402	101.1071278	100.2990334	99.50383967	98.72123945	97.95093514	97.19263849	96.44607021	95.7109596
160427A00004	4/27/2016	2.09	4/27/2026	100.8177815	100.3519475	99.89152059	99.43639629	98.98647288	98.54165142	98.10183558	97.66693163	97.23684828
160428A00028	4/28/2016	2	4/28/2026	100.8084484	100.3420195	99.88101556	99.42533152	98.9748651	98.52951678	98.08918973	97.65378969	97.22322489
160504A00004	5/4/2016	2.3	5/4/2026	101.8033958	100.9487953	100.1085075	99.28217512	98.46945265	97.67000591	96.88351157	96.10965673	95.34813851
160511A00015	5/11/2016	2.42	5/11/2026	102.0650356	101.1264696	100.2053675	99.30124296	98.41362785	97.54207104	96.68613774	95.8454088	95.01947995
160511A00016	5/11/2016	2.48	5/12/2031	107.7764739	104.6139315	101.5885846	98.69322575	95.92108045	93.26577854	90.72132712	88.28208562	85.94274277
160523A00086	5/23/2016	2.2	5/26/2026	101.9914972	101.0262605	100.0796549	99.15114143	98.24020178	97.3463373	96.46906811	95.60793222	94.76248469
160524A00015	11/25/2016	2.71	11/25/2026	103.7908079	102.3762427	100.9878799	99.62505387	98.28712133	96.97346007	95.68346814	94.4165631	93.17218114
160524A00027	5/24/2016	3.06	5/27/2031	117.5442437	111.3148883	105.4603357	99.956056	94.77924648	89.90870148	85.32469281	81.00885968	76.94410731
160603A00014	6/3/2016	1.74	6/3/2026	100.8202798	100.2757274	99.73855821	99.20860645	98.68571162	98.1697182	97.66047546	97.15783728	96.66166197
160603A00029	6/3/2016	2.18	6/3/2031	107.1307681	103.9404535	100.8903231	97.97292738	95.18126913	92.50877292	89.94925683	87.49690615	85.1462491
160606A00004	6/6/2016	2.43	6/8/2026	102.1025311	101.1508977	100.2169654	99.30024359	98.40025975	97.51655842	96.64870059	95.79626288	94.95883691
160606A00005	6/6/2016	2.92	6/6/2031	116.7545715	110.5208536	104.6642305	99.15990111	93.98481901	89.11755955	84.53819793	80.22819681	76.17030308
160606A00018	6/6/2016	1.74	6/5/2026	100.8216619	100.2764132	99.73857361	99.20797619	98.68445944	98.16786686	97.65804679	97.15485224	96.65814066
160608A00019	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00020	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00023	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00024	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00025	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
160608A00026	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00027	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00028	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00029	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00030	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00031	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00032	6/8/2016	2.36	6/8/2026	102.1915401	101.1814507	100.1915783	99.22131764	98.27008769	97.33733009	96.4225082	95.52510604	94.64462729
160608A00033	6/8/2016	2.44	6/9/2031	107.7427229	104.5383677	101.4746811	98.54419382	95.73988985	93.05517574	90.48385227	88.02008825	85.65839611
160608A00034	6/8/2016	2.44	6/9/2031	107.7427229	104.5383677	101.4746811	98.54419382	95.73988985	93.05517574	90.48385227	88.02008825	85.65839611
160609A00075	6/9/2016	1.94	6/9/2026	100.8949631	100.3490624	99.81058927	99.27937622	98.75526095	98.23808626	97.72769984	97.22395406	96.72670578
160615A00031	6/15/2016	2.51	6/17/2030	113.0319802	107.8644997	102.9656845	98.32016768	93.91353982	89.73228447	85.76371818	81.99593488	78.41775437
160616A00027	6/16/2016	2.27	6/16/2026	102.0045853	101.0314211	100.0767802	99.14013736	98.22098702	97.31884244	96.43323478	95.56371228	94.70983956
160616A00029	6/16/2016	1.58	6/16/2026	100.738256	100.1911646	99.65156261	99.11927964	98.59415086	98.07601661	97.56472223	97.06011787	96.56205829
160628A00039	6/28/2016	2.01	6/29/2026	101.9006781	100.8912412	99.90172304	98.93153891	97.98012665	97.04694571	96.13147613	95.23321754	94.35168827
160629A00066	6/29/2016	2.61	6/30/2036	118.0308072	108.9018111	100.6539554	93.19399766	86.43917976	80.31599069	74.75908148	69.71031301	65.11791972
160701A00020	7/1/2016	2.13	7/1/2026	101.9645005	100.9502255	99.95605489	98.98139575	98.02567817	97.08835429	96.16889717	95.26679984	94.38157434
160701A00039	7/1/2016	1.92	7/1/2026	101.8220938	100.8075704	99.81317718	98.83831982	97.8824273	96.9449506	96.02536172	95.12315265	94.23783449
160705A00104	7/5/2016	2.1	7/6/2026	101.9670264	100.9389652	99.93156435	98.94420582	97.97629603	97.02726464	96.09656343	95.18366523	94.2880629
160706A00010	7/6/2016	1.99	7/7/2025	100.0317985	100.0123668	99.99295526	99.9735639	99.95419265	99.93484148	99.91551035	99.89619924	99.8769081
160706A00026	7/6/2016	2.19	7/6/2027	104.6292376	102.5925506	100.6060043	98.66804405	96.77717483	94.93195823	93.13100998	91.37299743	89.65663727
160706A00027	7/6/2016	2.29	7/6/2028	107.3504474	104.2740208	101.302354	98.43129509	95.65688162	92.97533056	90.38302922	87.87652645	85.45252441
160706A00028	7/6/2016	2.39	7/6/2029	110.0625616	105.9302265	101.9769467	98.19401117	94.57318018	91.10665706	87.78706195	84.60740718	81.56107428
160706A00029	7/6/2016	2.49	7/8/2030	112.6719233	107.4674085	102.5361071	97.86224021	93.43102222	89.22859302	85.2419552	81.45891588	77.86803274
160706A00030	7/6/2016	2.59	7/7/2031	114.8933607	108.6295412	102.750633	97.23095084	92.04665314	87.1756004	82.59722507	78.29241216	74.2433895
160711A00004	7/11/2016	1.51	7/13/2026	100.7637859	100.1756552	99.59619017	99.02517886	98.46241671	97.90770608	97.36085595	96.82168166	96.29000462
160712A00019	7/12/2017	2.32	7/12/2027	104.9374595	102.881344	100.8760909	98.92011216	97.01188133	95.14993019	93.33284627	91.55927025	89.82789357
160713A00015	7/13/2016	1.57	7/13/2026	100.8000939	100.2113273	99.63124672	99.05963955	98.49630034	97.94103066	97.39363875	96.85393924	96.32175289
160714A00018	9/6/2016	2.28	9/4/2026	102.5847627	101.3873988	100.2178903	99.07527381	97.95863014	96.8670814	95.7997889	94.75595097	93.73480092
160714A00020	9/6/2016	2.28	9/4/2026	102.5847627	101.3873988	100.2178903	99.07527381	97.95863014	96.8670814	95.7997889	94.75595097	93.73480092
160714A00023	8/10/2016	2.49	8/10/2028	108.205348	105.0205503	101.9466114	98.97902701	96.11350486	93.34595311	90.67246963	88.08933188	85.59298745
160714A00024	9/20/2016	2.5	9/20/2028	108.5269814	105.2236697	102.038612	98.9668558	96.00369003	93.14463181	90.38541349	87.72197072	85.15043124
160714A00029	8/10/2016	2.27	8/10/2026	102.3912809	101.2642149	100.1618872	99.08348984	98.02824993	96.99542745	95.98431365	94.99422938	94.02452358
160719A00026	7/19/2016	1.87	7/20/2026	100.9396515	100.3492718	99.76762789	99.19450502	98.6296957	98.07299956	97.524223	96.98317892	96.4496864

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
160726A00005	7/26/2016	2.28	7/27/2026	102.301225	101.2133507	100.1485405	99.10606692	98.08523272	97.0853695	96.10583612	95.14601734	94.2053225
160729A00017	7/31/2017	2.47	7/31/2029	110.5482856	106.3381045	102.3126476	98.46280963	94.77998539	91.25603932	87.88327716	84.65441945	81.56257676
160801A00002	8/1/2016	1.58	8/3/2026	100.8732642	100.2440788	99.62480537	99.01518533	98.41496946	97.82391754	97.24179793	96.66838721	96.10346975
160802A00003	8/2/2016	2.53	8/1/2031	115.076555	108.7233588	102.7646709	97.17390103	91.9263875	86.99924732	82.3712388	78.02263546	73.93511031
160810A00025	8/10/2016	2.17	8/10/2026	102.4173503	101.2390504	100.0882538	98.96400129	97.86537787	96.79151021	95.74156437	94.71474359	93.7102862
160810A00027	8/10/2016	2.13	8/10/2026	102.3292701	101.170119	100.0378639	98.93156941	97.85034351	96.7933346	95.75972945	94.74875097	93.7596563
160810A00028	8/10/2016	2.19	8/10/2026	102.4629587	101.2746299	100.1141226	98.98046498	97.87273006	96.79003312	95.73152937	94.69641174	93.68390872
160810A00029	8/10/2016	2.17	8/10/2026	102.4173503	101.2390504	100.0882538	98.96400129	97.86537787	96.79151021	95.74156437	94.71474359	93.7102862
160810A00030	8/10/2016	2.24	8/11/2031	107.2634379	103.9879486	100.8596575	97.87058062	95.01322767	92.2805685	89.66600152	87.16332467	84.76670849
160811A00011	8/11/2016	2.25	8/11/2026	102.375973	101.2462367	100.1413585	99.06052493	98.00295725	96.96791027	95.95467027	94.96255342	93.99090424
160812A00006	8/12/2016	2.16	8/12/2026	102.4580438	101.2917303	100.1526155	99.03974871	97.95222354	96.8891749	95.84977684	94.83324032	93.8388112
160815A00005	8/15/2016	2.23	8/17/2026	102.396331	101.2498954	100.1290515	99.03294964	97.9607772	96.91175692	95.88514485	94.88022864	93.89632585
160815A00006	8/15/2016	2.23	8/17/2026	102.396331	101.2498954	100.1290515	99.03294964	97.9607772	96.91175692	95.88514485	94.88022864	93.89632585
160815A00007	8/15/2016	2.23	8/17/2026	102.396331	101.2498954	100.1290515	99.03294964	97.9607772	96.91175692	95.88514485	94.88022864	93.89632585
160819A00015	10/12/2016	2.3	10/13/2026	102.8910556	101.5915261	100.3201059	99.07588413	97.85798925	96.66558719	95.49787923	94.35410016	93.23351648
160824A00019	8/24/2016	1.98	8/25/2031	106.6367585	103.3753946	100.2607876	97.28496676	94.44045534	91.72023632	89.11772105	86.62672014	84.24141658
160830A00037	8/30/2016	2.16	8/29/2025	100.2912672	100.1248544	99.95899554	99.79368799	99.62892896	99.46471574	99.30104563	99.13791594	98.97532401
160830A00038	8/30/2016	2.24	8/28/2026	102.4868097	101.309407	100.1589607	99.03455331	97.93530859	96.86038924	95.80899472	94.78035928	93.77375009
160906A00027	9/6/2016	2.03	9/8/2031	106.8774299	103.5667799	100.4067696	97.38913541	94.50613028	91.75048795	89.11538977	86.59443406	84.18160775
160908A00022	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00023	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00024	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00025	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00026	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00027	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00028	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00030	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00031	9/8/2016	2.21	9/8/2026	102.6491719	101.4008207	100.1806445	98.98768527	97.82102848	96.67980054	95.56316657	94.47032821	93.40052168
160908A00032	9/8/2016	2.17	9/8/2026	102.551583	101.3246139	100.1252012	98.95241043	97.80534917	96.68316507	95.58504343	94.51020516	93.45790484
160908A00033	9/8/2016	2.17	9/8/2026	102.551583	101.3246139	100.1252012	98.95241043	97.80534917	96.68316507	95.58504343	94.51020516	93.45790484
160908A00034	9/8/2016	2.17	9/8/2026	102.551583	101.3246139	100.1252012	98.95241043	97.80534917	96.68316507	95.58504343	94.51020516	93.45790484
160908A00035	9/8/2016	2.3	9/8/2031	107.5473649	104.2205246	101.0449058	98.01222033	95.11469797	92.34505019	89.69643707	87.16243658	84.7370162
160908A00036	9/8/2016	2.3	9/8/2031	107.5473649	104.2205246	101.0449058	98.01222033	95.11469797	92.34505019	89.69643707	87.16243658	84.7370162

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
160922A00014	9/22/2016	2.06	9/22/2026	102.5285304	101.28044	100.0626074	98.8739428	97.71340812	96.58001402	95.47281706	94.3909171	93.3334548
160923A00009	9/23/2016	2.24	9/23/2031	107.3460601	104.0249007	100.8547476	97.82732145	94.93486011	92.17008308	89.52615817	86.99667078	84.57559557
160928A00029	9/28/2016	2.52	9/29/2036	112.2970567	106.320854	100.804436	95.70633617	90.98922958	86.61948647	82.5667769	78.80372041	75.30557541
160928A00030	9/28/2016	2.52	9/29/2036	112.2970567	106.320854	100.804436	95.70633617	90.98922958	86.61948647	82.5667769	78.80372041	75.30557541
160928A00032	9/28/2016	2.52	9/29/2036	112.2970567	106.320854	100.804436	95.70633617	90.98922958	86.61948647	82.5667769	78.80372041	75.30557541
160928A00033	9/28/2016	2.46	9/29/2036	111.9497571	105.9883347	100.4857688	95.40066469	90.6957632	86.33749443	82.29558305	78.54269858	75.0541451
160928A00041	9/28/2016	3.26	9/29/2036	116.580418	110.4219246	104.7346652	99.4762845	94.60864825	90.09738842	85.91150102	82.02298966	78.40654934
160928A00042	9/28/2016	3.05	9/29/2036	115.3648695	109.2581073	103.6193299	98.4064343	93.58151593	89.11041624	84.96232255	81.10941325	77.52654322
160928A00044	9/28/2016	2.89	9/29/2036	114.4387373	108.3713893	102.7695506	97.59131033	92.79893892	88.35843745	84.23913896	80.41335503	76.85606238
160930A00032	9/30/2016	2.15	9/30/2031	106.8936723	103.6548528	100.5619224	97.60692552	94.78240194	92.08135263	89.49720802	87.02379864	84.65532802
160930A00033	9/30/2016	1.8	9/30/2026	101.0572134	100.3818358	99.7179821	99.06532455	98.42354839	97.79235134	97.17144293	96.56054388	95.95938557
161005A00016	10/5/2016	2.32	10/6/2031	107.6994753	104.3252809	101.1061961	98.03363211	95.0995417	92.29638136	89.61707627	87.05498798	84.60388443
161014A00019	10/14/2016	2.39	10/15/2031	107.9389566	104.5569456	101.330429	98.25079517	95.30997576	92.50040741	89.81499675	87.24708795	84.7904327
161014A00026	10/14/2016	2.16	10/14/2031	107.3953814	104.0256817	100.8110757	97.74296564	94.81329673	92.01451877	89.33955116	86.78175047	84.33488041
161014A00029	10/14/2016	2.51	10/15/2031	108.5933937	105.1861044	101.9356389	98.83330366	95.87095385	93.04095508	90.33614779	87.74981443	85.27564915
161109A00018	11/9/2016	2.63	11/9/2026	103.5415337	102.1732588	100.8296174	99.5100012	98.21382156	96.94050852	95.68951016	94.46029194	93.25233592
161116A00006	11/16/2016	2.39	11/16/2026	101.6718382	100.9097804	100.1608939	99.42481484	98.70119328	97.98969259	97.28998881	96.60177	95.92473568
161118A00026	12/20/2016	3.03	12/21/2026	104.4865708	102.99628	101.5348849	100.1016179	98.69573818	97.31653019	95.96330298	94.63538894	93.33214286
161207A00014	12/7/2016	2.75	12/8/2031	109.6327407	106.1059584	102.7451374	99.54089248	96.48444124	93.56756154	90.7825517	88.12219402	85.57972113
161214A00023	12/14/2016	3.3	12/15/2031	120.6535437	113.7524133	107.2998348	101.2642139	95.61634054	90.32919674	85.37778176	80.73895152	76.39127183
161214A00034	12/14/2016	2.65	12/14/2026	101.9909274	101.1853057	100.3938029	99.61603036	98.85161426	98.10019486	97.36142577	96.63497338	95.92051617
161222A00013	12/22/2016	2.93	12/22/2026	104.4627357	102.9680295	101.5032317	100.067505	98.66004339	97.28007016	95.92683691	94.59962213	93.29772999
161222A00030	12/22/2016	3.09	12/22/2026	104.6915191	103.1951912	101.7279498	100.2890201	98.87765449	97.49313122	96.13475319	94.80184697	93.49376181
161222A00036	12/22/2016	2.69	12/22/2026	102.0130214	101.2110995	100.4232241	99.64900855	98.88808072	98.14008261	97.40466947	96.68150929	95.97028211
161222A00037	12/22/2016	3.08	12/22/2031	110.22067	106.7856202	103.5098433	100.3844119	97.40096868	94.55168635	91.82922991	89.22672252	86.73771368
161227A00073	12/27/2016	2.83	12/28/2026	104.111271	102.6835488	101.2843217	99.91278607	98.56816849	97.24972417	95.95673565	94.68851156	93.44438539
161229A00018	12/29/2016	2.46	12/29/2026	101.899561	101.0917297	100.2981146	99.51832305	98.75197742	97.99871436	97.25818408	96.53004965	95.81398646
161229A00019	12/29/2016	2.46	12/29/2026	101.899561	101.0917297	100.2981146	99.51832305	98.75197742	97.99871436	97.25818408	96.53004965	95.81398646
170105A00010	1/5/2017	2.61	1/5/2027	102.0743313	101.2277102	100.3961653	99.57928105	98.77665764	97.9879102	97.21266815	96.45057446	95.70128505
170106A00030	1/6/2017	2.39	1/6/2027	101.9462059	101.0997762	100.2684341	99.45176307	98.64936282	97.86084781	97.08584688	96.32400245	95.57496994
170111A00009	1/11/2017	3.16	1/11/2028	108.388665	105.7896586	103.2670138	100.818032	98.44012762	96.13082286	93.8877421	91.70860708	89.59123228
170111A00011	1/11/2017	3.24	1/11/2029	111.9593014	108.2851764	104.7531054	101.356813	98.09033726	94.94801181	91.92444972	89.01452789	86.21337261
170111A00012	1/11/2017	3.31	1/11/2030	115.4239495	110.6537582	106.1114411	101.7848827	97.66267676	93.73408095	89.98897446	86.4178188	83.01162105

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
170111A00013	1/11/2017	3.4	1/10/2031	118.6602944	112.7851926	107.2431239	102.0134036	97.07673936	92.4151297	88.01177139	83.85097339	79.91807756
170111A00014	1/11/2017	3.47	1/12/2032	121.4374387	114.4537581	107.9276399	101.8265735	96.12052476	90.78173419	85.78453378	81.10517888	76.72169465
170111A00016	1/11/2017	3.51	1/11/2033	123.9302141	115.8522742	108.3731431	101.4450224	95.02417199	89.0705453	83.54745934	78.42129596	73.66123099
170112A00015	1/12/2017	2.32	1/12/2027	101.8888791	101.0420709	100.2103683	99.39335407	98.59062682	97.80180024	97.02650237	96.2643749	95.51507252
170120A00008	1/20/2017	3.63	1/20/2034	127.0897897	117.8625755	109.3985872	101.6301565	94.49596049	87.94039605	81.91301871	76.36803912	71.26387118
170120A00009	1/20/2017	3.67	1/22/2035	129.5145273	119.185597	109.796967	101.2571939	93.48419907	86.40426437	79.95114026	74.06525354	68.69300263
170120A00010	1/20/2017	3.71	1/22/2036	131.7905424	120.3754238	110.0921658	100.8211626	92.45607278	84.90228429	78.07556503	71.90087423	66.31131571
170120A00011	1/20/2017	3.75	1/20/2037	133.7158626	121.2462508	110.1121574	100.1614057	91.2599667	83.28970872	76.14643547	69.73817563	63.98368997
170123A00039	1/23/2017	2.79	1/23/2026	101.4409053	100.8660248	100.2976614	99.73570464	99.18004653	98.63058142	98.08720607	97.54981949	97.01832293
170124A00017	1/24/2017	2.82	1/23/2032	109.9904898	106.4079741	102.9959512	99.74467848	96.64504522	93.6885274	90.86714586	88.17342773	85.60037087
170130A00031	1/30/2017	2.96	7/30/2025	100.2096356	100.1263397	100.0431834	99.96016622	99.87728792	99.79454815	99.71194657	99.62948283	99.54715661
170130A00036	1/30/2017	3.11	1/31/2033	111.6668364	107.6233205	103.7984382	100.1780592	96.74908278	93.49935524	90.41759492	87.49332332	84.71680224
170130A00039	1/30/2017	2.74	1/31/2028	103.7296388	102.3644788	101.0320518	99.73129715	98.46119732	97.22077584	96.00909531	94.8252555	93.66839156
170130A00043	1/30/2017	2.64	1/29/2027	102.1429423	101.2928402	100.4586213	99.6398347	98.83604681	98.04684049	97.27181427	96.51058166	95.76277035
170130A00046	1/30/2017	2.52	1/30/2026	100.7479428	100.4061011	100.0678234	99.73304837	99.40171647	99.07376931	98.74914988	98.42780245	98.10967258
170203A00012	2/3/2017	3.63	2/2/2035	129.1908147	118.8472744	109.4483015	100.9017781	93.12504576	86.04388821	79.59162875	73.70832796	68.34007077
170203A00013	2/3/2017	3.67	2/1/2036	131.4131541	119.9911009	109.7046206	100.4334301	92.07061589	84.52108335	77.70019407	71.53256592	65.95101652
170207A00055	2/7/2017	2.36	2/8/2027	102.0344868	101.1453404	100.272312	99.41495314	98.57283259	97.74553522	96.93266143	96.13382632	95.34865905
170216A00043	2/16/2017	3.17	2/16/2027	105.2656096	103.6098494	101.9883526	100.4001218	98.84419796	97.31965916	95.82561831	94.3612217	92.92564732
170216A00044	2/16/2017	3.52	2/17/2032	122.001681	114.8978048	108.2650766	102.0696129	96.28014398	90.86779826	85.80590639	81.06982188	76.63675746
170216A00045	2/16/2017	3.73	2/17/2037	133.6050333	121.0655811	109.8773251	99.88540008	90.9535155	82.96163878	75.80397755	69.38722172	63.62901059
170224A00020	2/24/2017	3.08	2/24/2027	105.2012322	103.5219724	101.8777831	100.2676307	98.69052235	97.14550375	95.63165751	94.14810116	92.69398549
170224A00021	2/24/2017	3.4	2/24/2032	121.2403845	114.1409644	107.5140864	101.3256638	95.54424655	90.14080404	85.08852617	80.36264221	75.94025524
170224A00039	5/24/2017	3.17	5/24/2027	106.2176492	104.2836862	102.3947294	100.5494619	98.74661437	96.98496244	95.26332514	93.58056294	91.93557605
170224A00044	5/24/2017	3.29	5/24/2029	113.355139	109.2772967	105.3705684	101.6268784	98.03857417	94.59840246	91.29948595	88.13530196	85.09966227
170228A00014	2/28/2017	2.89	3/1/2027	105.0519461	103.3571632	101.6980165	100.0734469	98.48243767	96.92401207	95.3972313	93.90119272	92.43502803
170309A00014	3/9/2017	2.58	3/9/2027	102.3565002	101.4224988	100.5057357	99.60572574	98.72200231	97.85411657	97.00163661	96.1641466	95.34124602
170313A00032	3/13/2017	3.69	6/14/2032	123.9311638	116.4339815	109.4545483	102.9542058	96.89737743	91.25130692	85.98582161	81.073116	76.48755468
170313A00033	3/13/2017	3.31	3/15/2027	105.781711	104.0446346	102.3446388	100.680601	99.05144423	97.45613486	95.89368042	94.3631274	92.8635594
170313A00034	3/13/2017	3.31	3/15/2027	105.781711	104.0446346	102.3446388	100.680601	99.05144423	97.45613486	95.89368042	94.3631274	92.8635594
170313A00035	3/13/2017	3.31	3/15/2027	105.781711	104.0446346	102.3446388	100.680601	99.05144423	97.45613486	95.89368042	94.3631274	92.8635594
170313A00041	3/13/2017	3.21	3/15/2032	111.1138606	107.4904021	104.0420726	100.758672	97.63067492	94.6491817	91.80587282	89.092967	86.50318262
170313A00045	3/13/2017	3.22	3/15/2032	111.4210295	107.7093316	104.1778818	100.8161876	97.61444907	94.56350789	91.6548013	88.88031907	86.2325641

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
170317A00044	3/17/2017	3.11	3/17/2027	105.3795088	103.6638276	101.9858122	100.3443581	98.73840226	97.16692179	95.62893156	94.1234827	92.64966084
170322A00022	3/22/2017	3.89	9/23/2041	145.4651682	127.9246207	112.8717964	99.93135664	88.78687925	79.17131437	70.85902976	63.65917422	57.41013479
170322A00023	3/22/2017	3.82	9/22/2039	138.8481032	123.5950323	110.2885976	98.66494608	88.49748493	79.59143757	71.7792201	64.91651054	58.87890425
170322A00024	3/22/2017	3.72	9/22/2036	132.9288181	120.8108998	109.9594934	100.2336976	91.50903762	83.67547033	76.63564064	70.303357	64.60225701
170322A00025	3/22/2017	3.58	3/22/2033	124.9087822	116.5965109	108.9135325	101.8085502	95.23471801	89.14923105	83.51295672	78.29010086	73.44790611
170322A00026	3/22/2017	3.22	3/22/2028	109.2253549	106.4150937	103.6920846	101.0530424	98.49483087	96.01445477	93.60905237	91.2758883	89.01234692
170322A00033	3/22/2017	3.61	3/24/2042	127.1092145	116.764608	107.5712954	99.38223562	92.07082466	85.52787609	79.65907024	74.38279567	69.6283202
170327A00070	3/29/2017	3.05	3/29/2027	105.6964993	103.9179971	102.1781544	100.475777	98.80972043	97.17888738	95.58222525	94.01872373	92.48741267
170327A00072	3/29/2017	3.09	3/29/2027	105.7672763	103.9881291	102.2476533	100.5446544	98.87798758	97.24655525	95.6493045	94.08522473	92.55334552
170327A00078	3/27/2019	3.04	3/27/2026	102.053585	101.3033694	100.5641755	99.83576165	99.11789317	98.4103422	97.71288739	97.02531369	96.3474121
170327A00079	3/27/2019	3.19	3/29/2027	105.7099555	103.935479	102.1995064	100.5008499	98.83837123	97.21097896	95.61762595	94.05730714	92.52905732
170327A00080	3/27/2019	3.43	3/27/2029	113.3708804	109.4554838	105.6984082	102.0923173	98.63026269	95.30566003	92.11226767	89.04416635	86.09574034
170406A00029	4/6/2017	3.01	4/6/2027	105.4991405	103.6954647	101.9324862	100.2090427	98.52401233	96.87631261	95.26489837	93.68876033	92.14692367
170406A00031	4/6/2017	3.01	4/6/2027	105.4991405	103.6954647	101.9324862	100.2090427	98.52401233	96.87631261	95.26489837	93.68876033	92.14692367
170406A00032	4/6/2017	3.01	4/6/2027	105.4991405	103.6954647	101.9324862	100.2090427	98.52401233	96.87631261	95.26489837	93.68876033	92.14692367
170406A00033	4/6/2017	3.01	4/6/2027	105.4991405	103.6954647	101.9324862	100.2090427	98.52401233	96.87631261	95.26489837	93.68876033	92.14692367
170406A00034	4/6/2017	3.01	4/6/2027	105.4991405	103.6954647	101.9324862	100.2090427	98.52401233	96.87631261	95.26489837	93.68876033	92.14692367
170406A00036	4/6/2017	3.07	4/6/2032	110.9791413	107.2385404	103.6814997	100.2972312	97.07566515	94.00739707	91.08363937	88.29617654	85.63732399
170407A00001	4/6/2017	2.97	4/6/2027	105.2927941	103.5319157	101.810585	100.1276725	98.48208863	96.87278177	95.2987368	93.75897351	92.25254516
170427A00044	4/27/2017	3.02	4/27/2027	105.6837108	103.8283889	102.0147842	100.2417043	98.50799925	96.81255931	95.15431349	93.53222782	91.94530382
170427A00046	4/27/2017	3.1	4/27/2028	109.2188982	106.307764	103.4897596	100.7614041	98.11936665	95.56045879	93.08162774	90.67994973	88.35262381
170427A00047	4/27/2017	3.18	4/27/2029	112.6926432	108.7022508	104.8765599	101.2079142	97.68905348	94.31309114	91.0734928	87.96405651	84.97889408
170502A00028	5/2/2017	2.84	5/3/2027	105.5365117	103.6636523	101.8332715	100.0441593	98.29514764	96.58510905	94.91295475	93.27763313	91.67812822
170511A00011	5/11/2017	2.41	5/11/2027	102.4311232	101.4124088	100.4132651	99.43313769	98.47149326	97.52781861	96.6016196	95.69242024	94.79976191
170524A00027	5/24/2017	2.32	5/24/2027	102.3427193	101.3233569	100.3236162	99.34294051	98.38079422	97.43666186	96.51004716	95.60047216	94.70747629
170609A00043	6/9/2017	3.07	6/9/2032	120.067473	112.695238	105.8344681	99.44690385	93.49733708	87.95335333	82.7850966	77.96505518	73.46786644
170609A00052	6/11/2018	2.9	6/9/2027	105.8397277	103.8653805	101.937986	100.0561402	98.21849091	96.42373497	94.67061651	92.95792472	91.28449194
170619A00089	6/16/2017	2.79	6/16/2027	105.6516316	103.669362	101.7357303	99.84921683	98.00836114	96.2117588	94.45805892	92.7459617	91.07421607
170619A00092	6/16/2017	2.79	6/16/2027	105.6516316	103.669362	101.7357303	99.84921683	98.00836114	96.2117588	94.45805892	92.7459617	91.07421607
170619A00095	6/16/2017	2.79	6/16/2027	105.6516316	103.669362	101.7357303	99.84921683	98.00836114	96.2117588	94.45805892	92.7459617	91.07421607
170619A00096	6/16/2017	2.79	6/16/2027	105.6516316	103.669362	101.7357303	99.84921683	98.00836114	96.2117588	94.45805892	92.7459617	91.07421607
170619A00101	6/16/2017	2.74	6/16/2027	105.4023031	103.4717413	101.5882665	99.7504105	97.95676232	96.20596499	94.49671329	92.82775133	91.19787025
170622A00036	6/22/2017	3.23	6/22/2032	120.7339409	113.3242359	106.4298939	100.0122354	94.03567768	88.46747144	83.27746182	78.43787017	73.92309546

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
170622A00037	6/22/2017	3.27	6/22/2033	122.9546992	114.4670646	106.6427465	99.42614169	92.76658576	86.61789099	80.93792943	75.68825678	70.83377285
170622A00038	6/22/2017	3.32	6/22/2034	125.1761333	115.6129382	106.8776907	98.89382587	91.59224399	84.9105472	78.79235796	73.18670988	68.04750289
170622A00039	6/22/2017	3.36	6/22/2035	127.2486952	116.6204782	107.0003144	98.28638312	90.38766494	83.22274538	76.71875612	70.81043787	65.43931017
170622A00040	6/22/2017	3.41	6/23/2036	129.1755844	117.4941468	107.0157736	97.60879293	89.156622	81.5559671	74.7152465	68.55320747	62.99771286
170623A00028	6/23/2017	2.79	6/23/2027	105.7439802	103.7315032	101.7678069	99.85140399	97.98086332	96.15480682	94.37190731	92.63088624	90.93051156
170711A00010	7/11/2017	2.38	7/12/2027	102.6322287	101.5276152	100.4451832	99.38429175	98.34432463	97.32468867	96.32481287	95.34414736	94.38216239
170713A00021	7/13/2017	3.25	7/13/2037	124.8823134	114.5900076	105.3632691	97.08107391	89.63698591	82.93731457	76.89951522	71.45079815	66.52691861
170803A00020	8/3/2017	2.84	8/3/2027	106.1966193	104.0674185	101.9918181	99.96810342	97.99462842	96.06981186	94.19213437	92.36013546	90.57241081
170809A00005	8/9/2017	2.61	8/11/2025	100.2544219	100.1378825	100.021629	99.90566034	99.78997543	99.67457319	99.55945253	99.44461237	99.33005166
170822A00020	8/22/2017	2.59	8/22/2025	100.319997	100.1729337	100.0263143	99.88013692	99.7343995	99.5891	99.44423643	99.2998068	99.15580913
170822A00023	8/23/2017	3.95	8/23/2028	112.9614699	109.6653278	106.4842397	103.4135006	100.4486287	97.58535371	94.8196051	92.14750134	89.56533986
170918A00007	9/18/2017	2.8	9/20/2027	106.5216646	104.2565303	102.0509918	99.90303936	97.81074923	95.77227854	93.78586127	91.8498043	89.96248371
170921A00055	9/21/2017	2.82	9/21/2027	106.4633777	104.2300343	102.0564664	99.94070008	97.8808405	95.87506781	93.92163381	92.01885851	90.16512703
170921A00056	9/21/2017	2.82	9/21/2027	106.4633777	104.2300343	102.0564664	99.94070008	97.8808405	95.87506781	93.92163381	92.01885851	90.16512703
170921A00057	9/21/2017	2.79	9/21/2027	106.207281	104.0376919	101.9257549	99.86957109	97.86731756	95.9172436	94.01766732	92.16697244	90.36360525
170929A00046	9/29/2017	2.49	9/30/2027	102.8899823	101.7081649	100.5510683	99.41795751	98.30812617	97.22089525	96.15561162	95.11164689	94.08839615
171011A00013	10/11/2017	2.77	10/13/2026	103.5036882	102.1999518	100.9243978	99.67611299	98.45422393	97.2578946	96.08632443	94.93874641	93.81442533
171018A00011	10/18/2017	2.68	10/18/2027	106.6446299	104.297764	102.0144091	99.7924488	97.62985211	95.52466979	93.47503023	91.47913574	89.53525905
171026A00009	10/26/2017	2.75	10/27/2025	100.7751643	100.4450727	100.117145	99.79136012	99.467697	99.14613496	98.82665357	98.50923267	98.19385235
171026A00010	10/26/2017	2.84	10/26/2026	103.7066222	102.3730814	101.0645671	99.78040666	98.51995135	97.28257558	96.06767578	94.87466945	93.70299417
171026A00011	10/26/2017	2.94	10/26/2027	107.1534475	104.782172	102.4754629	100.2311915	98.04731285	95.92186175	93.85294901	91.8387581	89.87754185
171030A00023	10/30/2017	2.9	11/1/2027	107.1108895	104.7237038	102.4019026	100.1433404	97.94595463	95.80776167	93.72685352	91.70139442	89.72961769
171109A00016	11/9/2017	2.94	11/9/2032	117.7914057	110.8235513	104.3482017	98.32719948	92.72555471	87.51116554	82.65456521	78.12869244	73.90868284
171129A00020	11/29/2017	2.89	11/30/2026	104.0928644	102.6621194	101.2581048	99.8801358	98.52755088	97.19971022	95.8959951	94.61580698	93.35856669
171206A00020	12/6/2017	2.62	12/6/2027	103.4012026	102.0923757	100.812663	99.56117242	98.3370467	97.13946195	95.9676259	94.82077644	93.69818023
171206A00038	12/6/2017	2.69	12/6/2027	107.0756591	104.587624	102.1704032	99.82158055	97.53883756	95.31994821	93.16277494	91.06526449	89.02544403
171206A00048	12/6/2017	3.04	12/6/2032	120.7566007	112.8678279	105.5602634	98.78790154	92.50860546	86.68376302	81.2779753	76.25877407	71.59636531
171207A00024	12/7/2017	2.93	12/7/2027	107.4474105	104.9686275	102.5617615	100.22429	97.95379567	95.74796112	93.60456403	91.52147263	89.49664139
171207A00025	12/7/2017	2.91	12/7/2027	107.273375	104.8354581	102.4679672	100.1684366	97.93450333	95.76390188	93.65445972	91.60409273	89.61080104
171207A00026	12/7/2017	2.93	12/7/2027	107.4474105	104.9686275	102.5617615	100.22429	97.95379567	95.74796112	93.60456403	91.52147263	89.49664139
171219A00063	12/19/2017	2.8	12/20/2027	107.4640119	104.9330342	102.4751299	100.0877684	97.76852242	95.5150635	93.325157	91.19665786	89.12750637
171219A00067	12/19/2017	2.72	12/20/2027	106.8507595	104.4576122	102.1337243	99.87665027	97.68404806	95.55367346	93.48337553	91.47109197	89.51484488
180102A00021	1/2/2018	2.82	1/2/2026	101.2664638	100.7504442	100.239676	99.73407955	99.2335765	98.7380902	98.24754549	97.76186872	97.28098768

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
180104A00018	1/4/2018	2.97	1/4/2027	104.5235753	102.9951944	101.4970745	100.0283928	98.58835594	97.1761986	95.79118215	94.4325936	93.09974443
180104A00023	1/4/2018	2.91	1/4/2028	106.8601339	104.5536232	102.3134799	100.1373499	98.02297961	95.96821067	93.97097545	92.02929235	90.14126164
180104A00024	1/4/2018	2.98	1/4/2028	107.667719	105.1544816	102.7153284	100.3476026	98.04876121	95.81636965	93.64809604	91.54170619	89.49505875
180104A00041	1/4/2018	3.08	1/4/2033	119.0642089	111.8754671	105.2034589	99.0074511	93.25015305	87.89740762	82.91791126	78.28296071	73.96622336
180110A00029	1/10/2018	3.13	1/10/2028	108.3024358	105.7072821	103.1883277	100.7428821	98.36836725	96.06231252	93.82234898	91.64620475	89.5317003
180116A00014	1/16/2018	3.01	1/19/2027	104.7240709	103.1534384	101.6143564	100.1059461	98.62736054	97.17778398	95.75642987	94.36253971	92.99538181
180116A00015	1/16/2018	3.06	1/18/2028	108.1945537	105.5789184	103.0405509	100.5767036	98.18474451	95.86215231	93.60651043	91.41550212	89.28690558
180118A00039	1/18/2018	3.09	1/19/2027	104.8501159	103.2784535	101.73836	100.2289558	98.74939374	97.29885749	95.87656006	94.48174253	93.11367279
180126A00011	1/26/2018	2.72	1/26/2028	103.8048601	102.4318537	101.0902507	99.77907067	98.49737184	97.24424952	96.01883426	94.82029012	93.64781312
180130A00070	1/30/2018	3.14	1/29/2027	105.0252853	103.4250269	101.857223	100.3209555	98.81534076	97.33952767	95.89269645	94.47405702	93.08284773
180207A00002	2/7/2018	3.13	2/6/2026	101.710799	101.0969291	100.4904673	99.89128005	99.29923684	98.71421038	98.13607635	97.56471339	97.00000294
180207A00003	2/7/2018	3.28	2/7/2028	108.9600626	106.2782206	103.6767538	101.1527535	98.70343649	96.32613905	94.01831053	91.77750787	89.60139024
180222A00025	2/22/2018	3.48	2/22/2033	124.5565349	116.3097543	108.6830721	101.6263052	95.09359121	89.0429942	83.43614918	78.23794009	73.41620861
180222A00027	2/22/2018	3.24	2/22/2028	109.2005988	106.4672734	103.8169294	101.2465197	98.75313119	96.3339779	93.98639433	91.70782933	89.4958403
180313A00026	3/13/2018	3.34	3/13/2028	109.4713724	106.6823893	103.9793459	101.3590323	98.81838321	96.35446951	93.96449155	91.64577216	89.3957503
180322A00040	3/22/2018	3.16	3/21/2031	112.3169274	108.3191525	104.5202808	100.9087162	97.47361841	94.20484916	91.09292226	88.12895764	85.30463891
180322A00044	3/22/2018	3.18	3/22/2033	112.9741225	108.6706219	104.60296	100.7557909	97.1148907	93.66706785	90.40008088	87.30256331	84.36395503
180323A00013	3/23/2018	3.18	3/23/2028	109.3246725	106.5058322	103.7746618	101.1278545	98.56225372	96.07484532	93.66274958	91.32321424	89.0536077
180329A00003	3/29/2018	3.08	3/29/2028	109.1016712	106.2694528	103.525769	100.8672625	98.29072949	95.7931115	93.37148737	91.02306598	88.74517934
180402A00013	4/2/2018	2.99	4/3/2028	107.6405794	105.1838385	102.8022074	100.4929323	98.25337694	96.08101656	93.9734328	91.92830844	89.94342254
180403A00006	4/3/2018	3.07	4/3/2028	109.1194726	106.2730209	103.5159168	100.8447726	98.25635459	95.74757539	93.31548547	90.95726614	88.67022257
180410A00002	4/10/2018	3.14	4/11/2033	112.9153999	108.5702013	104.4653191	100.5849829	96.91458497	93.44058588	90.15042898	87.03246221	84.07586655
180412A00034	4/12/2018	3.23	4/15/2030	116.1827659	111.1140622	106.2993561	101.7245473	97.37639508	93.24246037	89.31105326	85.57118356	82.0125151
180412A00036	4/12/2018	3.54	4/15/2038	133.7820866	120.0961602	108.0158592	97.34143692	87.89906347	79.53734005	72.12429801	65.54481262	59.69837267
180508A00038	5/8/2018	3.57	5/9/2033	114.6041968	110.1562093	105.9562113	101.9878076	98.23581959	94.68618612	91.32587366	88.14279388	85.12572857
180517A00018	5/17/2018	3.46	5/17/2033	114.4377982	109.9889982	105.7885431	101.8199954	98.06813844	94.51887739	91.15914846	87.9768364	84.96069894
180517A00024	5/17/2018	3.46	5/17/2033	114.4377982	109.9889982	105.7885431	101.8199954	98.06813844	94.51887739	91.15914846	87.9768364	84.96069894
180529A00042	5/29/2018	3.42	5/30/2028	110.4523117	107.4324816	104.511883	101.6867174	98.95335322	96.30831761	93.74828843	91.2700869	88.87067061
180529A00057	5/29/2018	3.09	5/30/2028	106.9237067	104.7492807	102.6401214	100.5938002	98.60799554	96.68048747	94.80915244	92.99195848	91.22696059
180530A00024	5/30/2018	3.44	5/30/2029	114.0035694	109.8964122	105.9621168	102.192497	98.57979737	95.11666853	91.79614339	88.61161545	85.55681817
180530A00025	5/30/2018	3.49	5/30/2030	117.4549126	112.2409828	107.2936457	102.5978606	98.139512	93.90534783	89.88292256	86.06054388	82.42722341
180530A00026	5/30/2018	3.55	5/30/2031	120.5010522	114.1768491	108.2321753	102.6422094	97.38387765	92.43572247	87.7777814	83.39147557	79.25950708
180530A00027	5/30/2018	3.61	6/1/2032	123.2833949	115.8448061	108.9178385	102.4644628	96.44966655	90.84120014	85.60934558	80.72670565	76.16801159

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
180530A00028	5/30/2018	3.67	5/31/2033	126.0405085	117.4931713	109.6064305	102.3254236	95.60011943	89.38486954	83.63800368	78.32146417	73.40047574
180530A00030	5/30/2018	3.68	5/30/2034	128.2936832	118.6568355	109.8455582	101.7841708	94.40431236	87.64419964	81.44796272	75.7650515	70.54970407
180605A00031	6/5/2018	3.37	6/5/2030	109.0668666	106.3466709	103.7289035	101.20882	98.78193099	96.44398676	94.19096253	92.01904517	89.92462059
180615A00039	6/15/2018	3.49	6/15/2028	110.8179412	107.7474434	104.7792646	101.9094304	99.13414362	96.44977561	93.8528578	91.34007358	88.90825079
180618A00036	6/18/2018	3.89	6/18/2048	162.2068512	137.0720048	116.6282181	99.93943771	86.26362154	75.01142098	65.7138582	57.99700276	51.56210152
180619A00021	6/19/2018	3.24	6/19/2028	110.3236056	107.2441256	104.2678048	101.3906162	98.60871338	95.91842177	93.31622953	90.79877948	88.36286133
180620A00014	6/20/2018	3.4	6/20/2028	110.5959551	107.5146373	104.5364887	101.6574825	98.87377284	96.18168542	93.57770868	91.05848569	88.62080639
180620A00038	6/20/2018	3.4	6/20/2028	110.5959551	107.5146373	104.5364887	101.6574825	98.87377284	96.18168542	93.57770868	91.05848569	88.62080639
180621A00017	6/21/2018	3.42	6/21/2028	110.6660292	107.5808197	104.598993	101.7165108	98.92951593	96.23432353	93.62741216	91.10541557	88.66511492
180622A00004	6/22/2018	3.47	12/22/2028	112.5958324	108.9655572	105.4737037	102.1142422	98.88143905	95.76984096	92.77425932	89.88975595	87.11162962
180622A00005	6/22/2018	3.5	7/2/2029	114.5537428	110.3418641	106.3110383	102.4525011	98.75796077	95.21956949	91.82989728	88.58190743	85.46893348
180622A00006	6/22/2018	3.53	12/21/2029	116.2535632	111.522783	107.0152827	102.7193284	98.62386441	94.7184711	90.99332441	87.43915891	84.04723302
180628A00068	6/28/2018	3.12	6/28/2028	108.5115964	105.8710903	103.3165086	100.8444881	98.45181942	96.13543943	93.89242312	91.71997665	89.6154305
180713A00031	7/13/2018	3.06	7/14/2025	100.0939217	100.0578133	100.0217484	99.9857269	99.94974865	99.9138136	99.87792167	99.84207278	99.80626683
180716A00054	7/16/2018	3.59	7/16/2040	138.5833364	122.5378546	108.647001	96.60402518	86.14758919	77.05482608	69.13548977	62.2270207	56.1903798
180716A00062	7/16/2018	2.91	7/16/2025	100.1119383	100.0674742	100.0230676	99.97871842	99.93442652	99.89019178	99.84601409	99.80189333	99.75782938
180717A00021	7/17/2018	3.34	7/17/2028	109.8797534	106.9471394	104.1137866	101.3757051	98.72909225	96.1703225	93.69593773	91.30263838	88.98727513
180717A00026	7/17/2018	3.24	7/16/2025	100.3643371	100.2342517	100.1045204	99.9751416	99.84611387	99.71743574	99.58910574	99.46112242	99.33348433
180717A00047	7/17/2018	3.3	9/17/2025	100.6323173	100.4129655	100.1945831	99.97716337	99.76070005	99.54518672	99.33061708	99.11698486	98.90428387
180718A00008	7/18/2018	3.37	7/18/2028	110.4838769	107.3686168	104.3610291	101.4567389	98.65157789	95.94157325	93.32293677	90.79205522	88.34548099
180719A00064	7/19/2018	3.3	7/21/2025	100.1676996	100.1093623	100.0511082	99.99293703	99.93484876	99.87684314	99.81892001	99.76107919	99.70332048
180719A00065	7/19/2018	3.36	7/20/2026	103.4046355	102.3297951	101.2773098	100.2464871	99.23666247	98.2471986	97.27748363	96.32693006	95.39497348
180727A00028	7/27/2018	3.25	7/27/2026	103.4320436	102.3364734	101.2641064	100.2142109	99.1860857	98.17905844	97.19248428	96.22574441	95.27824478
180727A00038	7/27/2018	3.36	7/25/2025	100.2031022	100.1336568	100.0643181	99.9950859	99.92595995	99.85694	99.7880258	99.71921712	99.65051372
180727A00039	7/27/2018	3.48	7/27/2028	111.1977998	108.0044428	104.9208073	101.9424878	99.06528324	96.28518625	93.59837281	91.00119274	88.49016062
180730A00081	7/30/2018	3.5	7/28/2028	111.2699552	108.0727084	104.9853787	102.0035499	99.12301075	96.3397443	93.64991765	91.04987222	88.53611471
180813A00045	8/13/2018	2.89	8/13/2025	100.2613994	100.1572058	100.0532432	99.94951057	99.84600726	99.74273241	99.6396852	99.53686485	99.43427054
180814A00010	8/14/2018	3.1	8/14/2025	100.3407975	100.2158015	100.0911337	99.96679289	99.84277766	99.71908669	99.59571867	99.47267227	99.34994617
180814A00032	8/14/2018	3.1	8/14/2025	100.3407975	100.2158015	100.0911337	99.96679289	99.84277766	99.71908669	99.59571867	99.47267227	99.34994617
180814A00033	8/14/2018	3.25	8/13/2027	107.3172512	105.1455976	103.0290883	100.9659392	98.95443827	96.99294214	95.0798726	93.21371351	91.39300782
180816A00038	8/16/2018	3.38	8/16/2028	111.0739268	107.8272618	104.6936581	101.6685099	98.74742907	95.92623319	93.20093459	90.56772988	88.02299011
180820A00055	8/20/2018	3.37	8/21/2028	111.0890741	107.828348	104.6815482	101.6440173	98.71131865	95.87922478	93.14370571	90.50091845	87.94719702
180823A00035	8/23/2018	3.05	8/22/2025	100.3948899	100.247667	100.1008894	99.95455499	99.80866185	99.66320788	99.51819108	99.37360943	99.22946094

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
180823A00053	8/23/2018	3.2	8/23/2028	110.7977281	107.530523	104.3777863	101.3348266	98.39717532	95.56057528	92.82096859	90.17448622	87.61743779
180823A00055	8/23/2018	3.44	8/23/2033	125.2909081	116.5155865	108.4376081	100.9975079	94.14119756	87.81945247	81.98745025	76.60435549	71.63294554
180827A00020	8/27/2018	3.21	8/27/2025	100.4504777	100.2894104	100.1288654	99.96884017	99.80933218	99.65033892	99.4918579	99.33388664	99.17642268
180828A00032	8/28/2018	3.49	8/29/2033	125.7378581	116.9282289	108.8194792	101.3517613	94.4706466	88.1266081	82.27455446	76.87341093	71.88574178
180829A00008	8/29/2018	3.23	8/30/2027	107.44149	105.221811	103.0593342	100.9521753	98.89852819	96.89666063	94.94491066	93.04168309	91.18544622
180831A00019	8/31/2018	3.21	9/2/2025	100.4977402	100.3199995	100.1428889	99.96640529	99.79054517	99.61530528	99.44068233	99.26667308	99.09327429
180904A00012	9/4/2018	3.35	9/4/2030	117.8859174	112.3762321	107.1616287	102.2246722	97.54905394	93.11951309	88.92176289	84.94242318	81.16895772
180904A00014	9/4/2018	3.37	9/1/2028	111.1925177	107.8996365	104.7226387	101.6567497	98.69742385	95.84033131	93.08134662	90.41653737	87.84215386
180905A00017	9/5/2018	3.43	9/6/2033	122.6151475	114.8490305	107.6799876	101.0577569	94.93660286	89.27488343	84.03466219	79.18135849	74.68343273
180906A00032	9/6/2018	3.24	9/5/2025	100.7606536	100.492008	100.224802	99.95902387	99.69466228	99.43170582	99.17014327	98.90996349	98.65115552
180907A00013	9/7/2018	3.27	9/8/2025	100.7919171	100.5152928	100.2401989	99.96662263	99.69455143	99.42397279	99.15487437	98.88724395	98.62106947
180910A00028	9/10/2018	3.56	9/9/2033	126.3828219	117.5167524	109.3577906	101.8453888	94.92449844	88.54504301	82.66144408	77.23219486	72.21947633
180910A00033	9/10/2018	3.43	9/8/2028	111.4542968	108.1373051	104.9376033	101.850333	98.87087026	95.99481222	93.21796502	90.53633229	87.94610444
180912A00011	9/12/2018	3.41	9/11/2026	104.0081598	102.7823024	101.5853595	100.4163163	99.27420454	98.15810078	97.06712319	96.00042945	94.95721456
180913A00012	9/13/2018	3.31	9/13/2033	114.2542938	109.6341082	105.2812792	101.1775077	97.30589674	93.65083486	90.19788872	86.93370606	83.84592704
180913A00030	9/13/2018	3.33	9/12/2025	100.6017254	100.3962036	100.1915347	99.98771336	99.78473425	99.58259208	99.38128161	99.18079763	98.98113501
180913A00033	9/13/2018	3.31	9/13/2033	114.2542938	109.6341082	105.2812792	101.1775077	97.30589674	93.65083486	90.19788872	86.93370606	83.84592704
180914A00013	9/14/2018	3.48	9/14/2028	111.6758909	108.3382325	105.1190763	102.0134917	99.0167868	96.12449571	93.33236541	90.63634422	88.03257081
180914A00028	9/14/2018	3.37	9/12/2025	100.6099428	100.4044094	100.1997289	99.99589608	99.79290549	99.59075187	99.38942999	99.18893464	98.98926068
180914A00029	9/14/2018	3.48	9/14/2028	111.6758909	108.3382325	105.1190763	102.0134917	99.0167868	96.12449571	93.33236541	90.63634422	88.03257081
180914A00049	9/14/2018	3.37	9/14/2033	114.530453	109.8990721	105.5356986	101.4219885	97.54100369	93.87709429	90.41579176	87.14371121	84.04846262
180920A00014	9/20/2018	3.59	9/20/2028	112.0955965	108.7339929	105.4921977	102.3652041	99.34824917	96.43680035	93.62654241	90.91336539	88.29335331
180925A00013	9/25/2018	3.41	9/25/2028	105.9338311	104.1893772	102.4917061	100.8391788	99.23022647	97.66334733	96.13710295	94.65011521	93.20106321
180925A00116	9/25/2018	3.28	9/25/2028	105.8295532	104.0849764	102.3872293	100.7346699	99.12572646	97.55889448	96.03273302	94.54586156	93.09695701
181003A00019	10/3/2018	3.44	10/3/2025	101.060775	100.711974	100.3655859	100.0215857	99.67994862	99.34065039	99.00366701	98.66897481	98.33655044
181003A00032	10/3/2018	3.23	10/3/2025	100.5469306	100.3522954	100.1585142	99.96558088	99.77348955	99.58223432	99.39180935	99.20220887	99.01342717
181004A00029	10/4/2018	3.7	10/4/2028	112.6017589	109.192203	105.9053106	102.7359223	99.67913094	96.73026744	93.88488735	91.13875847	88.48784909
181010A00025	10/10/2018	3.48	10/10/2030	110.182974	107.2541841	104.4419079	101.7404781	99.14454537	96.64905881	94.24924703	91.94060077	89.71885668
181029A00051	2/5/2019	3.69	2/5/2029	113.8324729	110.0539419	106.4233525	102.9340736	99.5798112	96.35458886	93.25272995	90.26884054	87.39779361
181029A00097	10/29/2018	3.53	10/27/2028	110.9719227	107.8615382	104.863037	101.9717249	99.18313198	96.49300015	93.89727217	91.3920809	88.97373929
181031A00070	3/1/2019	3.77	3/1/2029	114.3970738	110.5346563	106.8257369	103.2633258	99.84079473	96.55185654	93.39054494	90.35119613	87.42843146
181105A00015	11/5/2018	3.57	11/5/2025	101.3907919	100.95367	100.5203306	100.0907248	99.66480432	99.24252173	98.82383046	98.40868473	97.99703952
181109A00028	11/9/2018	3.72	11/9/2026	105.0440007	103.6648707	102.3105609	100.980458	99.67396807	98.39051653	97.1295468	95.89051986	94.67291353

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
181109A00029	11/9/2018	3.72	11/9/2026	105.0440007	103.6648707	102.3105609	100.980458	99.67396807	98.39051653	97.1295468	95.89051986	94.67291353
181116A00006	11/16/2018	3.18	11/17/2025	100.6895088	100.4408236	100.1936002	99.94782442	99.70348237	99.4605603	99.21904466	98.97892207	98.74017934
181211A00042	12/11/2018	3.7	12/11/2028	111.9256909	108.6315999	105.4595828	102.404353	99.46088457	96.62439819	93.89034734	91.25440562	88.71245473
181214A00030	12/14/2018	3.47	12/14/2033	123.3851286	115.2338711	107.7278571	100.8112381	94.43332249	88.54807274	83.11365377	78.09202746	73.44858831
181218A00040	12/18/2018	3.23	6/18/2030	108.6871412	105.9758004	103.366596	100.8547944	98.43591683	96.10572363	93.86019972	91.69554131	89.60814328
181220A00041	12/20/2018	3.36	12/18/2026	104.9496661	103.4638779	102.0067421	100.5775013	99.17542415	97.79980464	96.44996056	95.12523273	93.82498395
181226A00030	12/26/2018	2.91	12/26/2028	105.5948668	103.7254203	101.9090249	100.1437414	98.42771619	96.75917705	95.13642886	93.55784964	92.02188692
181227A00019	12/28/2020	3.1	12/29/2025	101.3792548	100.8739233	100.3736242	99.87828275	99.38782546	98.90218036	98.42127689	97.94504586	97.47341942
181227A00027	12/27/2018	3.24	12/26/2025	101.4252962	100.9281123	100.4358039	99.94829942	99.46552879	98.98742321	98.51391523	98.0449387	97.58042874
181227A00028	12/27/2018	3.46	12/27/2028	112.6072174	108.9629593	105.4581683	102.0867462	98.84289551	95.72110323	92.71612508	89.82297084	87.03689065
190102A00015	1/2/2019	2.97	1/3/2034	112.612897	108.0604601	103.775806	99.74021352	95.93642898	92.34854084	88.96186544	85.7628434	82.73894538
190102A00020	1/2/2019	2.97	1/3/2034	112.612897	108.0604601	103.775806	99.74021352	95.93642898	92.34854084	88.96186544	85.7628434	82.73894538
190102A00022	1/2/2019	2.97	1/3/2034	112.612897	108.0604601	103.775806	99.74021352	95.93642898	92.34854084	88.96186544	85.7628434	82.73894538
190102A00024	1/2/2019	2.97	1/3/2034	112.612897	108.0604601	103.775806	99.74021352	95.93642898	92.34854084	88.96186544	85.7628434	82.73894538
190102A00050	1/2/2019	3.38	1/3/2034	125.5071516	116.3609058	107.9704951	100.2690474	93.19594443	86.69620749	80.71994535	75.22185945	70.16079933
190103A00020	1/3/2019	3.12	1/5/2026	101.6838235	101.0772322	100.4779069	99.88571721	99.30053613	98.72223946	98.150706	97.58581735	97.02745788
190104A00006	1/4/2019	2.83	1/5/2026	100.8086723	100.4776886	100.1493421	99.82359836	99.50042339	99.17978395	98.86164736	98.54598151	98.2327549
190104A00033	1/4/2019	3.37	1/31/2029	112.610419	108.8693612	105.2745222	101.8193656	98.49768635	95.30359116	92.2314814	89.27603632	86.4321976
190104A00034	1/4/2019	3.18	1/4/2029	109.7143295	106.6724908	103.7423223	100.9189821	98.19786924	95.57461061	93.0450478	90.60522528	88.25137919
190104A00035	1/4/2019	3.1	1/5/2026	101.6667797	101.0619855	100.4644278	99.87397689	99.2905062	98.7138922	98.14401421	97.58075439	97.02399766
190104A00038	1/4/2019	3.25	1/4/2029	111.3290149	107.8534017	104.5111107	101.2962281	98.20313904	95.22650994	92.36127306	89.60261135	86.94594455
190110A00005	1/10/2019	3.2	1/9/2026	101.5206627	100.9846021	100.4542078	99.92939014	99.41006133	98.89613543	98.38752827	97.88415745	97.38594224
190111A00026	1/11/2019	3.48	1/11/2034	126.4109524	117.2055423	108.7616271	101.0117353	93.89471598	87.35511681	81.34262516	75.81156736	70.72045876
190118A00006	1/18/2019	3.14	1/18/2034	113.9109385	109.1270574	104.6297808	100.3988459	96.41559044	92.66281532	89.12465902	85.78648434	82.63477508
190122A00045	1/22/2019	3.17	1/22/2027	105.1174903	103.5336041	101.9816495	100.4607323	98.96999094	97.5085956	96.07574653	94.67067264	93.2926303
190122A00046	1/22/2019	3.29	1/22/2029	112.5037943	108.7826922	105.2064506	101.7686224	98.46308533	95.28402357	92.2259103	89.28349168	86.45177175
190129A00073	1/29/2019	3.11	1/29/2029	105.9825301	104.0651029	102.2030331	100.3942692	98.63685115	96.928906	95.26864306	93.65434982	92.08438788
190131A00013	1/31/2019	3.48	1/31/2034	123.3006381	114.9966539	107.3592504	100.3299907	93.85590194	87.88893468	82.38547967	77.30593392	72.61431151
190131A00019	1/31/2019	3.44	1/30/2034	126.1681631	116.9218279	108.4445383	100.667807	93.52959496	86.97367299	80.94904956	75.40945766	70.31289435
190131A00023	1/31/2019	3.02	1/30/2034	113.33975	108.5795256	104.104524	99.89457661	95.93110844	92.19700083	88.67646692	85.3549386	82.21896368
190205A00017	2/5/2019	3.36	2/5/2029	111.9653761	108.399851	104.9735345	101.6801351	98.51368598	95.46852621	92.53928286	89.7208544	87.00839524
190205A00020	2/5/2019	3.32	2/5/2029	111.8232181	108.2612308	104.8383273	101.5482213	98.38495107	95.34286057	92.4165814	89.60101643	86.8913242
190205A00021	2/5/2019	3.32	2/5/2029	111.8232181	108.2612308	104.8383273	101.5482213	98.38495107	95.34286057	92.4165814	89.60101643	86.8913242

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
190205A00022	2/5/2019	3.32	2/5/2029	111.8232181	108.2612308	104.8383273	101.5482213	98.38495107	95.34286057	92.4165814	89.60101643	86.8913242
190205A00023	2/5/2019	3.32	2/5/2029	111.8232181	108.2612308	104.8383273	101.5482213	98.38495107	95.34286057	92.4165814	89.60101643	86.8913242
190211A00017	2/11/2019	3.12	2/11/2026	101.7456334	101.1178715	100.4978579	99.88544963	99.28050715	98.68289438	98.09247854	97.50913001	96.9327223
190225A00026	2/25/2019	3.43	2/27/2034	126.2584566	116.9252928	108.3748176	100.5367689	93.34755385	86.74958245	80.69067179	75.12351172	70.00518622
190227A00033	2/27/2019	2.65	2/27/2026	100.9005806	100.5171381	100.1373268	99.76108937	99.38836973	99.01911308	98.65326584	98.29077554	97.9315909
190301A00012	3/1/2019	3.41	3/1/2029	113.0558988	109.2182826	105.5334359	101.994396	98.59456098	95.3276686	92.18777644	89.16924355	86.26671308
190305A00015	3/5/2019	3.32	3/5/2029	112.0654125	108.4241832	104.9277609	101.5694939	98.34307911	95.2425411	92.26221296	89.39671819	86.64095386
190305A00017	3/5/2019	3.12	3/5/2026	102.1464216	101.3861468	100.6373204	99.89968407	99.17298736	98.45698717	97.75144761	97.05613969	96.37084106
190308A00016	3/8/2019	3.18	3/8/2034	120.6072928	112.78709	105.5863426	98.95090759	92.8317132	87.18425575	81.96814888	77.14671972	72.68664686
190308A00026	3/8/2019	3.18	3/8/2034	120.6072928	112.78709	105.5863426	98.95090759	92.8317132	87.18425575	81.96814888	77.14671972	72.68664686
190315A00017	3/15/2019	2.88	3/15/2034	112.8647615	108.0371916	103.5037439	99.24329428	95.23641208	91.46521259	87.91322282	84.56526003	81.40732139
190315A00019	3/15/2019	2.88	3/15/2034	112.8647615	108.0371916	103.5037439	99.24329428	95.23641208	91.46521259	87.91322282	84.56526003	81.40732139
190315A00023	3/15/2019	2.88	3/15/2034	112.8647615	108.0371916	103.5037439	99.24329428	95.23641208	91.46521259	87.91322282	84.56526003	81.40732139
190315A00029	3/15/2019	2.88	3/15/2034	112.8647615	108.0371916	103.5037439	99.24329428	95.23641208	91.46521259	87.91322282	84.56526003	81.40732139
190322A00008	3/22/2019	2.64	3/20/2026	100.9662618	100.5434228	100.1249993	99.7109147	99.30109416	98.89546477	98.49395535	98.09649642	97.70302012
190327A00030	3/27/2019	2.9	3/27/2036	114.057441	108.4034539	103.1526157	98.27108186	93.7281643	89.49601256	85.5493297	81.86511844	78.42245422
190402A00004	4/2/2019	2.9	4/2/2029	111.6845878	107.7768367	104.0282103	100.4313014	96.97909511	93.66494551	90.48255338	87.42594588	84.48945736
190402A00005	4/2/2019	2.77	4/2/2032	112.7114746	107.7843918	103.1426492	98.76719153	94.6403665	90.74581338	87.06836081	83.59393326	80.30946539
190403A00010	4/3/2019	3.08	4/3/2029	111.6631788	107.8865531	104.2638652	100.7880001	97.45220891	94.25008876	91.17556274	88.22286175	85.38650735
190403A00013	4/3/2019	3.05	4/3/2029	111.2897683	107.6012089	104.0619592	100.6651409	97.40422953	94.27303422	91.26567873	88.37658396	85.60045129
190403A00014	4/3/2019	3.05	4/3/2029	111.2897683	107.6012089	104.0619592	100.6651409	97.40422953	94.27303422	91.26567873	88.37658396	85.60045129
190404A00015	4/4/2019	2.88	4/3/2026	102.2056726	101.3620303	100.5323909	99.71640721	98.91374339	98.12407452	97.3470862	96.58247413	95.82994366
190409A00019	4/9/2019	2.91	4/9/2029	111.780495	107.8510638	104.0823407	100.4668457	96.99749206	93.66756381	90.47069342	87.40084169	84.45227862
190422A00030	4/22/2019	2.93	12/22/2025	101.2418979	100.7562735	100.2753126	99.79894794	99.32711386	98.8597458	98.39678045	97.9381557	97.48381059
190426A00023	4/26/2019	2.91	6/24/2026	102.6960112	101.6971063	100.7176132	99.75697005	98.81463627	97.89009193	96.98283656	96.09238834	95.21828322
190501A00015	5/1/2019	2.78	5/1/2029	105.8520019	103.7671222	101.7466357	99.78802335	97.88888365	96.04692608	94.2599653	92.52591553	90.84278529
190502A00016	5/2/2019	2.87	5/1/2026	102.4308933	101.5080631	100.601958	99.71212555	98.83812933	97.97954846	97.13597688	96.30702268	95.49230749
190506A00026	5/6/2019	3.03	5/4/2029	111.7035516	107.8483934	104.1535531	100.6114692	97.21497789	93.95729016	90.83196996	87.832914	84.95433279
190510A00049	5/10/2019	2.58	5/8/2026	101.1522916	100.6425794	100.1393469	99.64245698	99.1517764	98.66717589	98.18852999	97.71571686	97.24861818
190514A00021	5/14/2019	2.72	11/14/2025	100.8850004	100.5050317	100.1279341	99.75367491	99.38222211	99.01354407	98.64760967	98.28438824	97.92384958
190515A00035	5/15/2019	2.82	2/15/2029	110.35459	106.7295069	103.247985	99.90346746	96.68973933	93.6009073	90.63138087	87.77585464	85.0292919
190520A00020	5/20/2019	2.39	5/20/2026	101.0806977	100.5749119	100.0754994	99.58232658	99.09526391	98.61418547	98.13896905	97.66949593	97.20565078
190529A00061	5/29/2019	2.46	5/29/2026	101.0909235	100.5815205	100.0785933	99.58200485	99.09162196	98.60731546	98.12895994	97.65643366	97.18961837

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
190531A00037	5/31/2019	2.61	5/31/2029	111.0005045	106.9417576	103.0548056	99.33148458	95.76406111	92.34520775	89.06797935	85.92579113	82.91239806
190531A00038	5/31/2019	2.82	5/31/2034	121.2614384	111.8949235	103.3397297	95.52101138	88.37119307	81.82922987	75.83994601	70.35344356	65.32457328
190605A00007	6/5/2019	2.47	6/5/2026	102.3050402	101.2922613	100.2996621	99.32664255	98.37262601	97.43705842	96.51940705	95.61915956	94.73582299
190605A00023	6/5/2019	2.64	6/5/2029	110.3994369	106.5031282	102.7721862	99.19864975	95.77498559	92.49406309	89.34913031	86.33379179	83.44198772
190605A00024	6/5/2019	2.64	6/5/2029	110.3994369	106.5031282	102.7721862	99.19864975	95.77498559	92.49406309	89.34913031	86.33379179	83.44198772
190605A00025	6/5/2019	2.64	6/5/2029	110.3994369	106.5031282	102.7721862	99.19864975	95.77498559	92.49406309	89.34913031	86.33379179	83.44198772
190605A00027	6/5/2019	2.64	6/5/2029	110.3994369	106.5031282	102.7721862	99.19864975	95.77498559	92.49406309	89.34913031	86.33379179	83.44198772
190606A00027	6/6/2019	2.51	6/5/2026	102.1562904	101.2126476	100.2864011	99.37707298	98.4842029	97.60734696	96.74607715	95.89998057	95.0686588
190606A00028	6/6/2019	2.74	6/6/2029	111.2713393	107.1984061	103.2983103	99.56281339	95.9841134	92.554819	89.26792576	86.1167939	83.09512727
190606A00029	6/6/2019	2.96	6/6/2034	121.8663704	112.4903369	103.9258194	96.09794852	88.9391307	82.38830727	76.39029234	70.89518069	65.85781812
190620A00033	6/20/2019	2.1	6/20/2029	104.6752078	102.5676429	100.5263937	98.54882471	96.63242477	94.77480048	92.97366978	91.22685595	89.53228201
190625A00023	6/25/2019	2.47	6/25/2027	105.117358	103.1057343	101.1430313	99.22775335	97.35846104	95.53376872	93.75234203	92.01289562	90.314191
190628A00007	6/28/2019	2.28	6/28/2034	109.8907145	105.2107782	100.8188054	96.6938165	92.8165409	89.16926508	85.73569562	82.50083491	79.45086867
190702A00068	7/2/2019	2.69	7/1/2039	120.4099645	109.2403971	99.37945507	90.65906328	82.93399134	76.07861258	69.98413989	64.55626572	59.71314527
190702A00071	7/2/2019	2.69	7/1/2039	120.4099645	109.2403971	99.37945507	90.65906328	82.93399134	76.07861258	69.98413989	64.55626572	59.71314527
190703A00017	7/3/2019	2.33	5/4/2026	101.7695137	100.9158873	100.0765461	99.25113354	98.43930519	97.64072771	96.85507864	96.0820459	95.32132739
190708A00028	7/8/2019	2.57	7/2/2029	110.2915618	106.3314695	102.5418903	98.91449302	95.44140227	92.11517032	88.92875153	85.87547819	82.94903806
190708A00029	7/8/2019	2.57	7/2/2029	110.2915618	106.3314695	102.5418903	98.91449302	95.44140227	92.11517032	88.92875153	85.87547819	82.94903806
190708A00030	7/8/2019	2.57	7/2/2029	110.2915618	106.3314695	102.5418903	98.91449302	95.44140227	92.11517032	88.92875153	85.87547819	82.94903806
190708A00032	7/8/2019	2.58	7/2/2029	110.3313666	106.370172	102.5795331	98.9511169	95.47704596	92.14987087	88.9625443	85.90839697	82.98111513
190712A00016	7/12/2019	2.39	7/12/2029	105.252387	103.0935556	101.0036894	98.98001313	97.01988389	95.12078397	93.28031397	91.49618635	89.76621947
190718A00012	7/18/2019	2.55	7/18/2029	109.631233	105.8952223	102.3178535	98.89139926	95.60855554	92.46241618	89.4464486	86.55447127	83.78063273
190724A00021	7/24/2019	2.33	7/23/2027	105.185189	103.0938398	101.0547482	99.06626081	97.12678915	95.23480664	93.38884555	91.58749429	89.82939479
190724A00023	7/24/2019	2.13	7/24/2025	100.1164118	100.0497721	99.98323331	99.91679526	99.85045773	99.78422046	99.71808324	99.65204583	99.586108
190724A00024	7/24/2019	2.49	7/24/2029	110.8875121	106.6809701	102.6584497	98.81090663	95.12979207	91.60702203	88.23494967	85.00633907	81.91434081
190726A00017	7/26/2019	2.44	7/24/2026	102.4525378	101.3720763	100.3143478	99.27864043	98.26427183	97.27058751	96.29695951	95.34278509	94.40748544
190802A00011	8/2/2019	2.01	8/2/2029	104.6702151	102.479032	100.3590226	98.30728233	96.3210467	94.39768375	92.53468669	90.72966704	88.98034826
190807A00021	8/7/2019	2	8/7/2026	102.0677352	100.9508819	99.85837419	98.78942293	97.74327256	96.71919956	95.71651075	94.7345417	93.77265526
190809A00020	8/9/2019	2.44	8/9/2034	118.0240153	108.6175577	100.0450075	92.22781865	85.09522919	78.58345313	72.63495971	67.19783068	62.22518645
190809A00021	8/9/2019	2.12	8/9/2029	109.4466133	105.2259953	101.1919428	97.33519876	93.64701783	90.1191355	86.7437386	83.51343795	80.42124293
190813A00051	8/13/2019	2.19	8/13/2029	108.9893529	104.9662318	101.1203692	97.44290109	93.9254611	90.56014924	87.33950287	84.25646972	81.3043827
190813A00052	8/13/2019	2.24	8/13/2029	109.1926578	105.1637109	101.3122537	97.62941127	94.10680702	90.73653117	87.51111183	84.42348797	81.4669842
190814A00003	8/14/2019	2.01	8/14/2029	109.0130437	104.7877883	100.7499099	96.89008342	93.19950082	89.66983993	86.29323447	83.06224639	79.96984005

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
190819A00030	8/19/2019	2.01	8/20/2029	109.0445579	104.8023332	100.7488309	96.87462865	93.17082858	89.6290254	86.24127585	83.00007065	79.8983081
190820A00021	8/20/2019	2.13	8/20/2029	109.2452628	105.007566	100.9581177	97.08752979	93.38693648	89.84796203	86.46269072	83.2236388	80.12372836
190823A00009	8/23/2019	1.8	8/23/2029	104.1516625	101.9960252	99.91011961	97.89110455	95.93627601	94.04305956	92.20900313	90.43177035	88.70913425
190826A00018	8/26/2019	1.9	8/27/2029	108.6159586	104.3636513	100.3013273	96.41946287	92.70906687	89.161648	85.76918377	82.52409179	79.41920298
190826A00030	8/26/2019	1.72	8/26/2026	101.9453696	100.7756207	99.63257599	98.51532952	97.42301596	96.35480826	95.30991558	94.28758134	93.28708138
190826A00032	8/26/2019	1.72	8/24/2029	104.0293	101.8502355	99.74201542	97.70174505	95.72666967	93.81416678	91.96173879	90.16700616	88.42770099
190826A00057	8/26/2019	1.87	8/26/2025	100.2305691	100.0725347	99.91500596	99.75798058	99.60145608	99.44543006	99.28990012	99.13486389	98.98031901
190826A00058	8/26/2019	1.91	8/26/2026	102.0862439	100.9168622	99.77414947	98.65720177	97.56515552	96.49718533	95.45250197	94.43035035	93.4300077
190826A00060	8/26/2019	2.02	8/26/2027	104.601824	102.4277495	100.309615	98.24558492	96.23389926	94.27286961	92.36087572	90.49636208	88.67783478
190826A00063	8/26/2019	2.05	8/28/2028	106.9177456	103.7045274	100.6046866	97.61355325	94.72668112	91.93983471	89.24897796	86.65026341	84.14002205
190826A00065	8/26/2019	2.09	8/28/2029	109.1192382	104.8624678	100.7956281	96.90920563	93.19421885	89.64218502	86.24508952	82.99535716	79.88582537
190828A00015	8/28/2019	2.04	8/28/2029	108.9078844	104.655528	100.5929591	96.71067018	92.99968509	89.45152644	86.05818466	82.81208933	79.70608249
190828A00019	8/28/2019	2	3/28/2028	105.8848956	103.1049012	100.4119828	97.80283831	95.27431631	92.82340831	90.44724079	88.14306805	85.90826541
190828A00020	8/28/2019	1.95	5/28/2027	103.8957927	101.973958	100.0971714	98.26410752	96.47348912	94.72408454	93.01470588	91.34420719	89.71148263
190829A00032	8/29/2019	1.69	8/28/2026	100.9546061	100.3193888	99.69433662	99.07917866	98.47365408	97.87751171	97.29050958	96.7124145	96.14300165
190829A00039	8/29/2019	1.85	8/29/2034	108.1818748	103.3448187	98.81477375	94.56882582	90.58596551	86.84691613	83.33397831	80.03088954	76.92269715
190829A00045	8/29/2019	1.9	8/28/2026	102.0870238	100.9121175	99.76412792	98.64213853	97.54527417	96.4726985	95.42361191	94.39724957	93.39287951
190830A00002	8/30/2019	1.93	8/28/2026	102.122299	100.9471725	99.7989661	98.67676337	97.57968897	96.5069065	95.45761628	94.43105337	93.42648574
190905A00019	9/5/2019	2.08	9/5/2029	108.6457141	104.5796324	100.6949154	96.9823999	93.43344098	90.03987986	86.79401331	83.68856529	80.71666064
190905A00021	9/5/2019	2.08	9/5/2029	108.6457141	104.5796324	100.6949154	96.9823999	93.43344098	90.03987986	86.79401331	83.68856529	80.71666064
190905A00023	9/5/2019	2.08	9/5/2029	108.6457141	104.5796324	100.6949154	96.9823999	93.43344098	90.03987986	86.79401331	83.68856529	80.71666064
190905A00024	9/5/2019	2.08	9/5/2029	108.6457141	104.5796324	100.6949154	96.9823999	93.43344098	90.03987986	86.79401331	83.68856529	80.71666064
190905A00025	9/5/2019	2.08	9/5/2029	108.6457141	104.5796324	100.6949154	96.9823999	93.43344098	90.03987986	86.79401331	83.68856529	80.71666064
190910A00044	9/10/2019	2.02	9/10/2026	102.4549646	101.1891988	99.95154054	98.74105104	97.5568334	96.39803025	95.2638216	94.15342277	93.06608253
190911A00016	9/11/2019	1.9	9/11/2029	104.5159391	102.2851819	100.1280631	98.04153492	96.02269835	94.06879528	92.17720039	90.34541388	88.5710545
190913A00018	9/13/2019	2.11	9/11/2026	101.2651216	100.5890981	99.92453507	99.27110994	98.62851274	97.99644562	97.37462222	96.76276709	96.16061515
190923A00012	9/23/2019	2.43	9/25/2034	118.0559587	108.5256389	99.85065316	91.94946485	84.74871656	78.1823698	72.19093952	66.72081229	61.7236388
190923A00020	9/23/2019	2.05	9/24/2029	109.4045596	105.0577923	100.9081103	96.94547751	93.16042951	89.54403736	86.08787375	82.78398161	79.62484491
190925A00009	9/25/2019	2	9/25/2026	102.4696628	101.1956235	99.94568133	98.71917589	97.51547116	96.33395422	95.17403421	94.03514138	92.91672604
190926A00002	9/30/2019	2.01	9/29/2034	109.0231178	104.106293	99.50403487	95.19268853	91.15057949	87.35783356	83.79621426	80.44897604	77.30073155
190926A00015	9/26/2019	2.32	11/26/2030	112.4258464	106.842591	101.571987	96.59493055	91.89357942	87.45126361	83.25240245	79.28242818	75.52771516
190926A00016	9/26/2019	2.28	5/24/2030	111.3860893	106.3371343	101.547618	97.00288915	92.68919732	88.59363264	84.70407028	81.00911889	77.49807256
190926A00017	9/26/2019	2.23	9/26/2029	109.8791576	105.5257684	101.3696283	97.40069465	93.60949679	89.98710001	86.52507159	83.21544939	80.05071264

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
190930A00071	9/30/2019	2.05	9/29/2025	100.4177906	100.1655577	99.9145893	99.66487605	99.41640855	99.16917752	98.92317376	98.67838817	98.43481175
190930A00075	9/30/2019	2.19	9/29/2027	105.2094825	102.9342624	100.7195195	98.56319283	96.46331054	94.4179847	92.42540709	90.48384499	88.59163734
190930A00077	9/30/2019	2.23	9/28/2029	109.8907829	105.5315607	101.3700721	97.39623813	93.60055479	89.97405649	86.50828203	83.19524294	80.0273941
191004A00001	10/4/2019	2.47	10/4/2034	117.7635693	108.2577598	99.60596502	91.72668499	84.54660251	77.99972191	72.02660293	66.57367827	61.5926455
191004A00002	10/4/2019	2.08	10/4/2029	109.2743471	104.911921	100.7482018	96.77304105	92.97686879	89.35065694	85.88588517	82.5745092	79.40893119
191004A00003	10/4/2019	1.89	10/5/2026	102.3089977	101.0307944	99.78259722	98.56335241	97.37205509	96.20774668	95.06951221	93.95647784	92.86780857
191004A00017	10/4/2019	2.02	10/4/2029	108.5254742	104.3930527	100.447973	96.68071745	93.08230128	89.64424025	86.35852005	83.21756791	80.21422604
191004A00019	10/4/2019	2.02	10/4/2029	108.5254742	104.3930527	100.447973	96.68071745	93.08230128	89.64424025	86.35852005	83.21756791	80.21422604
191004A00022	10/4/2019	2.02	10/4/2029	108.5254742	104.3930527	100.447973	96.68071745	93.08230128	89.64424025	86.35852005	83.21756791	80.21422604
191004A00023	10/4/2019	2.02	10/4/2029	108.5254742	104.3930527	100.447973	96.68071745	93.08230128	89.64424025	86.35852005	83.21756791	80.21422604
191004A00032	10/4/2019	2.01	1/3/2028	105.3861087	102.8475738	100.3834421	97.99109961	95.66804059	93.41186286	91.22026257	89.09102953	87.0220428
191007A00029	10/7/2019	1.88	10/9/2029	108.743677	104.3700021	100.1964807	96.21287089	92.40951406	88.77729769	85.30762128	81.99236445	78.82385728
191008A00007	10/8/2019	1.67	10/9/2029	104.0741217	101.8108809	99.62351469	97.50884052	95.4638334	93.48561689	91.57145473	89.71874298	87.92500268
191008A00014	10/8/2019	1.85	10/8/2026	102.4040258	101.07423	99.76831166	98.48568096	97.22576696	95.988017	94.77189596	93.57688556	92.40248367
191009A00009	10/9/2019	1.8	10/9/2026	101.134475	100.4181801	99.71457509	99.02328891	98.34396543	97.67626298	97.0198535	96.37442188	95.73966526
191011A00027	10/11/2019	1.84	10/11/2029	104.4660283	102.1941096	99.99836475	97.87559865	95.82277411	93.83700318	91.91553858	90.05576591	88.25519625
191015A00025	10/15/2019	2.01	10/15/2029	104.6966448	102.4221827	100.2239166	98.09865309	96.04335649	94.05514012	92.13125777	90.26909593	88.46616639
191017A00022	10/17/2019	2.25	7/17/2028	107.2968025	104.1914046	101.1925263	98.29591181	95.49750128	92.7934207	90.17997208	87.65362434	85.2110047
191017A00026	10/17/2019	2.3	7/17/2029	109.7603308	105.6042771	101.6294268	97.82691032	94.18834092	90.70578614	87.37174035	84.17909943	81.12113702
191021A00021	10/21/2019	2.22	12/21/2027	105.8359343	103.3266678	100.8899871	98.52337623	96.22442225	93.99081021	91.8203186	89.71081496	87.66025172
191025A00009	10/25/2019	2.26	5/25/2029	109.2825375	105.2818522	101.4500431	97.77911483	94.26149212	90.88999547	87.65781841	84.55850613	81.58593551
191025A00010	10/25/2019	2.24	7/25/2028	107.3157172	104.1883502	101.1688164	98.25278256	95.43611658	92.71487668	90.08530141	87.5438002	85.08694453
191031A00033	10/31/2019	2.2	5/31/2028	106.848456	103.8793669	101.0083562	98.2316594	95.54567758	92.94696946	90.43224334	87.99834984	85.6422749
191101A00004	11/1/2019	1.91	11/1/2029	107.9049954	103.9893833	100.2499865	96.6778141	93.2643838	90.00169033	86.88217602	83.89870339	81.04452951
191101A00005	11/1/2019	1.83	11/2/2026	102.6184546	101.2221853	99.85208529	98.50748036	97.18771917	95.89217214	94.62023055	93.37130567	92.14482797
191104A00022	11/4/2019	2.17	8/4/2027	104.7824998	102.6658732	100.6026544	98.59113229	96.62966395	94.71667148	92.85063874	91.03010848	89.25367954
191104A00023	11/4/2019	2.24	8/4/2028	107.3780304	104.2225749	101.1766318	98.23576874	95.39576086	92.65257964	90.00238238	87.44150246	84.96644
191104A00024	11/4/2019	2.26	8/3/2029	109.694217	105.4934034	101.4774082	97.63710133	93.96385545	90.44951504	87.08636795	83.86711865	80.78486333
191104A00025	11/4/2019	2.33	8/2/2030	111.9728387	106.7183506	101.742997	97.03047472	92.56551914	88.33383253	84.32201742	80.51751522	76.90854914
191105A00007	11/5/2019	1.98	11/5/2026	102.7145793	101.3618202	100.0332639	98.72831671	97.44640422	96.1869701	94.94947551	93.73339841	92.5382329
191105A00012	11/5/2019	2.07	11/3/2034	109.4290125	104.4100349	99.717163	95.32551832	91.21233313	87.35675629	83.73967804	80.34357191	77.15235203
191106A00022	11/6/2019	2.34	1/2/2030	110.9071946	106.2638205	101.8426273	97.63181836	93.62028547	89.79756503	86.15379715	82.67968763	79.36647255
191108A00013	11/8/2019	2.25	11/8/2029	110.5237132	106.029669	101.7442868	97.65682349	93.75714331	90.03567996	86.48340196	83.09177999	79.85275654

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
191108A00014	11/8/2019	2.25	11/8/2029	110.5237132	106.029669	101.7442868	97.65682349	93.75714331	90.03567996	86.48340196	83.09177999	79.85275654
191112A00022	11/12/2019	2.36	11/13/2029	110.1489048	105.8759601	101.8008202	97.91321429	94.20346028	90.66242768	87.28150329	84.05255911	80.96792245
191112A00023	11/12/2019	2.36	11/13/2029	110.1489048	105.8759601	101.8008202	97.91321429	94.20346028	90.66242768	87.28150329	84.05255911	80.96792245
191113A00013	11/13/2019	2.17	11/13/2026	103.0737858	101.646257	100.2459792	98.87223752	97.52434174	96.20162505	94.90344316	93.62917334	92.37821351
191115A00028	11/15/2019	2.34	9/28/2029	110.3652594	105.9959327	101.8246728	97.8413869	94.03655788	90.40120768	86.92686323	83.60552478	80.42963644
191115A00029	11/15/2019	2.07	11/15/2029	104.8508375	102.5639687	100.3544308	98.21895316	96.15442824	94.15790178	92.22656441	90.35774347	88.54889538
191115A00030	11/15/2019	2.35	11/9/2029	110.6502693	106.1601813	101.8784095	97.79423442	93.89754177	90.17878558	86.62895324	83.23953307	80.00248399
191120A00005	11/20/2019	2.63	11/20/2034	119.3796265	109.6806164	100.8619214	92.83869872	85.53469259	78.88132619	72.81689326	67.28583851	62.23811657
191120A00006	11/20/2019	2.67	11/20/2035	120.7203536	110.0258775	100.3915271	91.70603213	83.87034319	76.79623416	70.40507036	64.62672239	59.39860772
191120A00024	11/20/2019	2.23	11/16/2029	110.1574702	105.6586755	101.3696046	97.27941729	93.37788854	89.65537012	86.10275531	82.71144576	79.47332053
191121A00009	11/21/2019	2.55	11/21/2036	120.7604383	109.1045966	98.70474344	89.41806801	81.11869302	73.69559066	67.05076413	61.09765957	55.75977852
191121A00010	11/21/2019	2.59	11/20/2037	121.5955946	109.0061374	97.87566438	88.02606252	79.30183923	71.56714812	64.70321858	58.60613272	53.18490113
191121A00034	11/21/2019	2.28	11/2/2029	110.3003191	105.8373623	101.5807008	97.51976034	93.64456168	89.94568376	86.41422982	83.04179559	79.82043958
191122A00003	11/22/2019	2.32	11/22/2039	115.3099378	105.4282827	96.65861892	88.8608367	81.91372081	75.71227345	70.16543188	65.19412057	60.72958721
191122A00018	11/26/2019	3.11	11/22/2039	129.2676596	114.5167436	101.6901117	90.52266074	80.78722024	72.28894952	64.86058654	58.35841556	52.65884159
191122A00020	11/26/2019	3.2	11/23/2037	128.1528376	115.2242741	103.778897	93.63662747	84.64017813	76.65206292	69.55201309	63.23474142	57.60800652
191122A00021	11/26/2019	3.4	11/22/2038	131.7672909	117.7254911	105.3992251	94.56656879	85.03548706	76.63966928	69.23496285	62.69631694	56.91516103
191125A00036	11/25/2019	2.29	11/23/2029	110.4644732	105.9394345	101.6261267	97.51356315	93.59138299	89.84981244	86.27962847	82.87212494	79.61908105
191126A00026	11/26/2019	1.91	11/25/2026	102.7521835	101.3437368	99.9614123	98.60454629	97.27249716	95.9646444	94.68038772	93.41914628	92.18035786
191203A00009	12/3/2019	2.21	12/3/2029	109.5977845	105.2924299	101.188749	97.27614491	93.54463578	89.9848154	86.58781705	83.34527955	80.2493157
191203A00010	12/3/2019	2.21	12/3/2029	109.5977845	105.2924299	101.188749	97.27614491	93.54463578	89.9848154	86.58781705	83.34527955	80.2493157
191203A00011	12/3/2019	2.21	12/3/2029	109.5977845	105.2924299	101.188749	97.27614491	93.54463578	89.9848154	86.58781705	83.34527955	80.2493157
191206A00005	12/6/2019	2.18	12/7/2026	103.2522923	101.7591438	100.2955792	98.86079003	97.45399678	96.07444772	94.72141757	93.39420638	92.0921384
191206A00008	12/6/2019	2.44	12/6/2030	113.1271808	107.4979185	102.185081	97.16925069	92.43229858	87.95729195	83.72840966	79.7308637	75.95082666
191206A00009	12/6/2019	2.87	12/4/2037	124.1342742	111.4176324	100.1707016	90.21414447	81.39141057	73.56573746	66.61755918	60.44226549	54.94826275
191206A00013	12/6/2019	3.05	12/6/2044	140.9388697	120.9248046	104.2358436	90.28655523	78.59828715	68.77915629	60.50787688	53.5206743	47.60068345
191209A00005	12/9/2019	2.22	12/10/2029	109.0130863	104.9887753	101.149039	97.4842698	93.98541522	90.64394284	87.45180747	84.40142054	81.48562164
191220A00001	12/20/2019	2.62	12/19/2031	115.719276	108.9839177	102.689266	96.80416052	91.29979794	86.14954274	81.32875331	76.81462314	72.58603531
191220A00002	12/20/2019	3.02	12/20/2038	126.8541036	113.0599448	100.9701778	90.36244167	81.0445408	72.8502143	65.6355165	59.2757184	53.6626528
191223A00055	12/23/2019	2.46	12/7/2029	111.3077175	106.7255943	102.3593887	98.1978104	94.23021761	90.44657641	86.83742286	83.39382765	80.10736323
191223A00056	12/23/2019	2.46	12/14/2029	111.3478458	106.7459116	102.3616974	98.18377175	94.20136287	90.40431679	86.78305882	83.32855743	80.03229065
191224A00002	12/24/2019	2.17	12/24/2029	105.2605753	102.8885178	100.598425	98.38677185	96.250211	94.1855627	92.18980521	90.26006585	88.39361257
191226A00019	12/26/2019	2.4	12/22/2028	108.8153387	105.2514986	101.8242056	98.52749804	95.35570769	92.30344347	89.36557644	86.53722554	83.81374416

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
191226A00020	12/26/2019	2.44	12/21/2029	111.2970216	106.6773035	102.277045	98.08467579	94.08929573	90.28063274	86.64900318	83.18527509	79.88083384
200103A00002	1/3/2020	2.07	1/3/2030	108.7875277	104.7135108	100.8286497	97.12297776	93.58711187	90.2122152	86.98996203	83.91250525	80.97244606
200109A00006	1/9/2020	1.95	1/9/2030	104.9887199	102.5783314	100.2525335	98.00763952	95.84015104	93.74674663	91.72427184	89.76972959	87.88027122
200109A00008	1/9/2020	1.95	1/9/2030	104.9887199	102.5783314	100.2525335	98.00763952	95.84015104	93.74674663	91.72427184	89.76972959	87.88027122
200110A00037	1/10/2020	2.32	1/10/2030	110.2643127	105.8480418	101.6423217	97.63588757	93.81814171	90.17910988	86.70940115	83.40017039	80.24308343
200110A00038	1/10/2020	2.32	1/10/2030	110.2643127	105.8480418	101.6423217	97.63588757	93.81814171	90.17910988	86.70940115	83.40017039	80.24308343
200110A00039	1/10/2020	2.32	1/10/2030	110.2643127	105.8480418	101.6423217	97.63588757	93.81814171	90.17910988	86.70940115	83.40017039	80.24308343
200110A00043	1/10/2020	2.32	1/10/2030	110.2643127	105.8480418	101.6423217	97.63588757	93.81814171	90.17910988	86.70940115	83.40017039	80.24308343
200115A00013	1/15/2020	2.18	1/15/2030	108.1376566	104.4386671	100.9055698	97.52976894	94.30316855	91.21813979	88.26749131	85.44444145	82.74259242
200116A00012	1/16/2020	2.16	1/19/2027	103.524865	101.9139066	100.3363141	98.79111232	97.2773642	95.79416882	94.34065966	92.9160029	91.51939587
200124A00008	1/24/2020	1.92	1/22/2027	103.1364815	101.5688765	100.0329134	98.52770569	97.05239977	95.60617316	94.18823326	92.79781588	91.434184
200130A00046	1/30/2020	1.81	1/29/2027	101.4006495	100.5560789	99.72659646	98.91178456	98.1112413	97.32457993	96.5514281	95.79142716	95.04423152
200131A00032	1/31/2020	2.1	1/31/2030	109.9469857	105.2471513	100.775635	96.52013717	92.46908746	88.61159734	84.93741619	81.43689043	78.10092543
200203A00046	2/3/2020	1.98	2/3/2040	110.7040042	103.3457787	96.67854304	90.62682997	85.12422571	80.11220716	75.53913671	71.35939237	67.53261418
200204A00012	2/4/2020	1.98	2/4/2027	103.2082041	101.6057533	100.0360529	98.49816749	96.99119669	95.51427405	94.0665652	92.64726643	91.25560321
200206A00027	2/6/2020	2.15	2/6/2030	109.6262155	105.1698074	100.9285633	96.89082626	93.04563921	89.38269857	85.89231141	82.56535557	79.3932427
200206A00031	2/6/2020	2.15	2/6/2030	109.6262155	105.1698074	100.9285633	96.89082626	93.04563921	89.38269857	85.89231141	82.56535557	79.3932427
200206A00032	2/6/2020	2.15	2/6/2030	109.6262155	105.1698074	100.9285633	96.89082626	93.04563921	89.38269857	85.89231141	82.56535557	79.3932427
200206A00033	2/6/2020	2.15	2/6/2030	109.6262155	105.1698074	100.9285633	96.89082626	93.04563921	89.38269857	85.89231141	82.56535557	79.3932427
200207A00017	2/7/2020	1.96	2/8/2027	103.2055483	101.5912127	100.0100231	98.46102617	96.94330526	95.45597817	93.99819572	92.56914015	91.16802367
200207A00018	2/7/2020	2.14	2/7/2030	110.1745981	105.4486247	100.9530301	96.67535894	92.60389726	88.72762425	85.03616734	81.51976041	78.16920496
200210A00005	2/10/2020	1.77	2/10/2027	103.0242845	101.4035594	99.81622336	98.26131219	96.73789884	95.24509141	93.78203155	92.34789281	90.94187916
200212A00013	2/12/2020	1.98	2/12/2027	103.3672029	101.7023299	100.0727831	98.47749871	96.91545568	95.385674	93.88721236	92.41916627	90.98066624
200220A00013	2/20/2020	2.09	12/14/2029	109.6725579	105.1080067	100.759894	96.61684325	92.6681346	88.90366347	85.31390213	81.8898637	78.62306871
200220A00014	2/20/2020	2.09	12/21/2029	109.7054715	105.1214156	100.7555926	96.5964846	92.63324157	88.85563877	85.25403765	81.81934909	78.54299924
200220A00026	2/20/2020	2.22	2/21/2040	112.5843256	104.4472489	97.10998741	90.48187632	84.48348198	79.04511745	74.1055644	69.61097193	65.51390634
200221A00012	2/21/2020	2.14	2/21/2040	111.9304336	103.842084	96.54878959	89.96042035	83.99801213	78.59229035	73.68239953	69.21480828	65.14236471
200221A00023	2/21/2020	2.05	12/7/2029	109.4593057	104.9182584	100.5917255	96.46847665	92.5379267	88.79009569	85.21557097	81.80547203	78.5514177
200221A00024	2/21/2020	2.05	12/28/2029	109.5557089	104.9562502	100.5766842	96.40535677	92.43129227	88.64415061	85.03418689	81.59221405	78.30956804
200225A00017	2/25/2020	1.94	2/25/2030	109.3342491	104.5740365	100.0483747	95.74445338	91.65023335	87.75439555	84.04629376	80.51591075	77.15381747
200225A00018	2/25/2020	1.94	2/25/2030	109.3342491	104.5740365	100.0483747	95.74445338	91.65023335	87.75439555	84.04629376	80.51591075	77.15381747
200225A00028	2/25/2020	1.89	12/21/2029	108.7960143	104.2323368	99.88619115	95.74608964	91.80121062	88.0413565	84.45691449	81.03881995	77.77852233
200225A00029	2/25/2020	1.89	12/28/2029	108.8250267	104.242009	99.87831631	95.72231901	91.76306467	87.99023515	84.39410648	80.96551148	77.69580499

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200225A00049	2/25/2020	1.79	2/24/2040	109.287434	102.032533	95.45695301	89.48675664	84.05684401	79.10982198	74.59502597	70.46767305	66.68812777
200226A00009	2/26/2020	1.75	2/26/2030	108.7816864	104.0207686	99.4950277	95.19159436	91.09837524	87.20400168	83.49778199	79.96965726	76.61016027
200227A00004	2/27/2020	1.65	2/27/2030	108.3122699	103.5593234	99.0414361	94.74573416	90.66012063	86.77322401	83.07435046	79.55343952	76.20102295
200227A00030	2/27/2020	1.59	2/27/2026	100.8496472	100.1811555	99.52149133	98.87048088	98.22795484	97.59374829	96.96770058	96.34965513	95.73945939
200227A00046	2/27/2020	1.52	3/1/2027	101.2270086	100.3426921	99.47443976	98.6218032	97.7843513	96.96166925	96.15335771	95.35903215	94.57832208
200228A00025	2/28/2020	1.57	3/2/2027	102.7068814	101.0319692	99.39234268	97.78695197	96.21478902	94.67488547	93.16631069	91.68816991	90.23960244
200228A00026	2/28/2020	2.14	2/28/2035	114.9233573	105.1731177	96.33660443	88.32320266	81.0517236	74.4493798	68.45087651	62.99760557	58.03692971
200228A00059	2/28/2020	1.79	2/28/2030	108.63933	103.8863875	99.36823353	95.0720185	90.9856677	87.09783019	83.39783111	79.87562749	76.52176722
200228A00071	2/28/2020	1.74	12/14/2029	108.0878261	103.5586371	99.24467454	95.13461359	91.21778353	87.48412655	83.92415932	80.52893721	77.29002093
200228A00091	2/28/2020	1.72	12/7/2029	107.9715596	103.4635733	99.16897223	95.07657387	91.17583888	87.45683072	83.91017799	80.52703945	77.2990713
200302A00036	3/2/2020	1.45	3/2/2026	100.7669073	100.0905053	99.42314816	98.76465541	98.11485144	97.47356526	96.84063029	96.21588431	95.59916925
200303A00012	3/3/2020	1.71	3/1/2030	108.2636375	103.5167935	99.00467534	94.71442687	90.63396797	86.75194304	83.05767333	79.54111267	76.19280635
200303A00028	3/3/2020	1.54	3/4/2030	106.4877247	102.3659592	98.44126471	94.7029606	91.14101043	87.74597895	84.50899235	81.42170139	78.47624722
200304A00010	3/4/2020	1.2	3/4/2027	102.2080042	100.5300323	98.88754138	97.27947162	95.70480573	94.16256663	92.6518155	91.17164984	89.72120167
200304A00030	3/4/2020	1.6	12/22/2028	105.9888013	102.4746323	99.09560882	95.84582019	92.71964686	89.71174441	86.8170285	84.03066075	81.34803541
200304A00032	3/4/2020	1.6	12/15/2028	105.9596821	102.4646919	99.10341513	95.87003476	92.75901877	89.76510444	86.88328374	84.10878955	81.43708276
200304A00052	3/6/2020	2.11	3/8/2027	103.6608207	101.9614509	100.2981142	98.66972943	97.07525905	95.51370679	93.98411555	92.48556549	91.01717213
200304A00054	3/6/2020	2.35	3/8/2027	104.0709687	102.3679838	100.7010979	99.06922798	97.47133477	95.90642027	94.37352575	92.87172977	91.40014634
200305A00030	3/5/2020	1.58	3/5/2030	107.659517	102.9161489	98.40800008	94.12215575	90.04648259	86.16957681	82.48071605	78.96981462	75.62738202
200305A00032	3/5/2020	1.58	3/5/2030	107.659517	102.9161489	98.40800008	94.12215575	90.04648259	86.16957681	82.48071605	78.96981462	75.62738202
200305A00035	3/5/2020	1.25	3/5/2026	100.6408392	99.95670164	99.28183004	98.61603712	97.95914064	97.31096321	96.67133214	96.04007925	95.41704079
200305A00036	3/5/2020	1.36	3/5/2027	102.3653058	100.6853665	99.04095476	97.43100874	95.85450922	94.3104773	92.79797242	91.31609045	89.86396186
200305A00037	3/5/2020	1.43	3/6/2028	104.2052479	101.5075637	98.89305454	96.35862445	93.90131566	91.51830139	89.20687893	86.9644632	84.78858069
200305A00038	3/5/2020	1.51	3/5/2029	105.9930652	102.2753803	98.70742776	95.2823346	91.99358595	88.83500404	85.80072844	82.88519771	80.08313212
200305A00039	3/5/2020	1.58	3/5/2030	107.659517	102.9161489	98.40800008	94.12215575	90.04648259	86.16957681	82.48071605	78.96981462	75.62738202
200306A00001	3/6/2020	1.11	3/6/2026	100.5474272	99.86091066	99.18373214	98.5157021	97.85663611	97.20635466	96.56468302	95.93145107	95.30649314
200306A00014	3/6/2020	1.38	3/6/2030	106.7114133	101.987575	97.49841359	93.231029	89.17330249	85.31384474	81.64194759	78.14753932	74.82114317
200306A00022	3/6/2020	1.2	3/8/2027	102.1056763	100.4200138	98.77013445	97.15496411	95.57347196	94.02466817	92.5076019	91.02135927	89.56506159
200306A00048	3/6/2020	1.04	3/6/2035	104.2866554	99.34305283	94.73063908	90.42340704	86.39761748	82.63158477	79.10548421	75.80117868	72.70206263
200306A00050	3/6/2020	0.87	3/6/2030	102.4499964	100.0153773	97.66872014	95.40609268	93.22376796	91.11821202	89.08607259	87.12416842	85.2294794
200306A00057	3/6/2020	0.92	3/8/2027	101.7417071	100.0670943	98.42905209	96.82647846	95.25831526	93.72354612	92.22119434	90.75032093	89.31002271
200306A00058	3/6/2020	1.06	3/6/2030	102.7500879	100.3113244	97.96058493	95.69393812	93.50765766	91.39821005	89.36224323	87.39657601	85.49818821
200306A00064	3/6/2020	1.2	3/8/2027	102.1056763	100.4200138	98.77013445	97.15496411	95.57347196	94.02466817	92.5076019	91.02135927	89.56506159

Classification | Public

	Parallel-Shift Sensitivity Analysis												
6/30/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200306A00065	3/6/2020	1.38	3/6/2030	106.7114133	101.987575	97.49841359	93.231029	89.17330249	85.31384474	81.64194759	78.14753932	74.82114317
200306A00066	3/6/2020	1.2	3/8/2027	102.1056763	100.4200138	98.77013445	97.15496411	95.57347196	94.02466817	92.5076019	91.02135927	89.56506159
200309A00007	3/9/2020	1.11	3/9/2027	101.9557769	100.2687704	98.61762216	97.00125429	95.41863234	93.8687631	92.35069252	90.86350373	89.40631522
200309A00021	3/9/2020	1.05	3/9/2026	100.5141743	99.81957649	99.1345428	98.45887667	97.79238689	97.13488745	96.48619733	95.84614035	95.214545
200309A00030	3/9/2020	1.11	3/9/2027	101.9557769	100.2687704	98.61762216	97.00125429	95.41863234	93.8687631	92.35069252	90.86350373	89.40631522
200309A00033	3/9/2020	1.06	3/9/2026	100.5211643	99.82653935	99.14147879	98.46578604	97.79926991	97.14174436	96.49302839	95.85294579	95.22132507
200309A00034	3/9/2020	0.96	3/9/2035	103.8782978	98.95399329	94.3595922	90.06918756	86.05913161	82.30782238	78.79551169	75.50413251	72.41714348
200309A00038	3/9/2020	1.26	3/11/2030	106.1516771	101.4277592	96.93929226	92.67329556	88.61757718	84.76068119	81.09183884	77.6009233	74.27840769
200309A00081	3/9/2020	1.18	3/8/2030	105.3556679	100.9626336	96.78575937	92.81315459	89.0336513	85.4367558	82.01260394	78.75191967	75.64597656
200309A00082	3/9/2020	1.18	3/8/2030	105.3556679	100.9626336	96.78575937	92.81315459	89.0336513	85.4367558	82.01260394	78.75191967	75.64597656
200309A00084	3/9/2020	1.06	3/9/2027	101.919608	100.2017067	98.52149792	96.87784834	95.26966951	93.69591571	92.15558179	90.64770115	89.17134391
200310A00005	3/10/2020	1.41	3/8/2030	106.8593174	102.1267289	97.62943804	93.35449888	89.28975036	85.42376414	81.74579607	78.24574124	74.91409226
200310A00015	3/10/2020	1.37	3/11/2030	106.6763612	101.9401316	97.43979325	93.16234597	89.09557933	85.22801984	81.54888209	78.04802345	74.71590201
200310A00034	3/10/2020	1.41	3/11/2030	106.8671554	102.1264488	97.62179361	93.34018249	89.2693983	85.39796117	81.71507964	78.21060532	74.87499085
200310A00038	3/10/2020	1.41	3/11/2030	106.8671554	102.1264488	97.62179361	93.34018249	89.2693983	85.39796117	81.71507964	78.21060532	74.87499085
200310A00040	3/10/2020	1.36	3/10/2028	104.0308449	101.3248647	98.70260597	96.16094063	93.69688104	91.3075724	88.99028577	86.74241148	84.56145295
200310A00041	3/10/2020	1.39	3/12/2029	105.5696092	101.8411309	98.26355834	94.82993105	91.53365326	88.36847232	85.32845848	82.40798606	79.60171583
200310A00042	3/10/2020	1.41	3/11/2030	106.8671554	102.1264488	97.62179361	93.34018249	89.2693983	85.39796117	81.71507964	78.21060532	74.87499085
200310A00051	3/10/2020	1.41	3/8/2030	106.8593174	102.1267289	97.62943804	93.35449888	89.28975036	85.42376414	81.74579607	78.24574124	74.91409226
200310A00073	3/12/2020	2.12	3/11/2027	103.6980507	101.990288	100.3188643	98.68268459	97.08069846	95.51189733	93.97531251	92.4700132	90.99510456
200311A00015	3/11/2020	1.26	3/11/2027	102.2790191	100.5513478	98.86166996	97.20884994	95.59179655	94.00946094	92.46083447	90.94494684	89.46086414
200311A00026	3/11/2020	1.34	3/11/2030	105.925977	101.6197957	97.52377887	93.62641765	89.9168995	86.38506221	83.02135088	79.81677813	76.76288715
200311A00031	3/11/2020	1.41	12/24/2027	103.8152738	101.3236183	98.90443786	96.55521001	94.27351583	92.05703508	89.90354153	87.81089849	85.77705466
200311A00050	3/2/2021	1.46	3/2/2026	100.7737033	100.0972755	99.42989283	98.77137478	98.12154576	97.48023475	96.84727519	96.22250484	95.60576564
200311A00055	3/11/2020	1.66	12/17/2027	104.4103256	101.9298252	99.5208985	97.1810737	94.90797971	92.69934138	90.55297501	88.46678402	86.43875496
200312A00009	3/12/2020	1.46	3/12/2027	102.5695194	100.8690749	99.20488667	97.57586055	95.98094656	94.41913685	92.88946348	91.3909964	89.9228416
200316A00008	3/16/2020	1.31	3/15/2030	103.2840795	100.8971517	98.59481812	96.37335528	94.22923158	92.15909586	90.15976697	88.22822391	86.36159669
200316A00050	3/16/2020	1.54	3/16/2027	102.7275317	101.014983	99.33911748	97.69882181	96.09302817	94.5207118	92.98088878	91.47261395	89.99497901
200317A00009	3/17/2020	1.61	3/16/2035	106.8612108	101.804366	97.08590663	92.67928508	88.56026702	84.70671276	81.09838094	77.71675185	74.54486834
200317A00043	3/17/2020	1.29	3/15/2030	103.5011154	101.0410055	98.66980888	96.38354882	94.17845647	92.05095828	89.99766446	88.01535831	86.10098612
200318A00012	3/18/2020	1.68	3/18/2033	107.8300455	102.6485282	97.79936963	93.25794885	89.00165326	85.00970178	81.26298467	77.74391829	74.43631338
200319A00035	3/19/2020	1.72	3/18/2033	108.0396999	102.8480125	97.98932172	93.43896018	89.17427245	85.17443813	81.42031123	77.89427476	74.5801087
200323A00090	3/23/2020	1.55	3/23/2027	101.693874	100.5663566	99.46130701	98.37808451	97.31607269	96.2746781	95.25332923	94.25147544	93.26858602

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200326A00029	3/26/2020	1.82	3/26/2027	103.2710708	101.5268375	99.82039091	98.15056899	96.51625783	94.91638917	93.34993798	91.81592024	90.31339082
200326A00032	3/26/2020	1.49	3/26/2030	103.8281579	101.3628766	98.98663153	96.69544299	94.48553883	92.3533423	90.29546056	88.30867387	86.3899256
200326A00037	3/26/2020	1.78	3/26/2035	107.5724714	102.6165305	97.98800121	93.66139387	89.61342834	85.82282627	82.27012406	78.93750464	75.80864587
200327A00037	3/27/2020	1.18	3/27/2026	100.7124481	99.96709077	99.2327176	98.50908725	97.7959654	97.09312451	96.40034355	95.71740782	95.04410867
200327A00043	3/27/2020	1.48	3/27/2028	104.6301705	101.865988	99.18853915	96.59453211	94.08082555	91.64442052	89.28245271	86.99218526	84.771002
200327A00045	3/27/2020	2.24	3/27/2034	115.909365	106.9428826	98.74459824	91.24452458	84.37939872	78.09200303	72.33055806	67.0481794	62.20239146
200327A00094	3/27/2020	1.6	3/27/2030	106.7934461	102.6179228	98.64416791	94.86120189	91.25870287	87.82696382	84.55685261	81.43977496	78.46763991
200330A00038	3/30/2020	1.79	3/29/2030	108.7457316	103.9128896	99.32221296	94.96025374	90.81438832	86.87276187	83.12423677	79.55834487	76.16524329
200330A00045	3/30/2020	1.47	3/30/2027	102.6750576	100.925519	99.21407669	97.5395526	95.90081788	94.2967902	92.72643131	91.18874471	89.68277357
200330A00047	3/30/2020	1.5	3/30/2035	106.2917972	101.2616357	96.56810699	92.18479757	88.08759559	84.25447368	80.6652935	77.30162985	74.1466124
200330A00054	3/30/2021	1.19	3/30/2026	100.6774968	99.92475363	99.18320996	98.45261745	97.73273513	97.02332903	96.32417195	95.63504322	94.95572846
200330A00058	3/30/2020	1.49	3/29/2030	106.3300754	102.1659087	98.20320563	94.43099743	90.83897219	87.41743198	84.15725304	81.04984888	78.08713582
200330A00079	3/30/2020	1.51	3/30/2035	106.3434793	101.3108719	96.61506113	92.22962043	88.13042627	84.29544059	80.70451524	77.33921609	74.18266458
200331A00016	3/31/2020	1.11	3/31/2026	100.6723512	99.91619261	99.17133292	98.43752058	97.71451149	97.0020687	96.2999621	95.60796827	94.92587013
200331A00056	3/31/2020	0.96	3/29/2030	102.6103231	100.2293467	97.93296502	95.71744696	93.57925378	91.51502802	89.52158284	87.59589222	85.73508164
200402A00044	4/2/2020	1.65	4/2/2030	108.0843718	103.2564021	98.67106434	94.31486058	90.17512076	86.23994703	82.49816195	78.93926057	75.55336601
200406A00014	4/6/2020	1.33	4/6/2035	105.7930216	100.7373991	96.02301431	91.62288061	87.51238068	83.66904106	80.07232972	76.70347409	73.54529731
200406A00027	4/6/2020	1.31	4/5/2030	105.8800454	101.7091804	97.74101416	93.96446782	90.36912815	86.94520404	83.68348607	80.57530896	77.61251663
200406A00029	4/6/2020	1.61	4/5/2030	107.3746644	102.8527732	98.55606697	94.47208663	90.58912675	86.896186	83.38292134	80.03960526	76.85708611
200406A00030	4/6/2020	1.61	4/5/2030	107.3746644	102.8527732	98.55606697	94.47208663	90.58912675	86.896186	83.38292134	80.03960526	76.85708611
200413A00009	4/13/2020	0.77	4/13/2027	100.7070243	99.74634272	98.80374901	97.87872921	96.97078929	96.0794541	95.2042665	94.34478644	93.50059019
200413A00013	4/13/2020	1.19	4/12/2030	103.1257067	100.6362018	98.23786559	95.92657386	93.69842005	91.54970199	89.47690982	87.47671463	85.54595788
200414A00024	4/14/2020	1.37	4/14/2027	102.6188289	100.8027578	99.02828668	97.29421448	95.59938266	93.94267344	92.32300803	90.73934507	89.19067902
200415A00021	4/15/2020	1.37	4/15/2027	102.5759395	100.7832312	99.0303471	97.31610917	95.63938431	93.99908238	92.39415411	90.82358918	89.28641442
200415A00023	4/15/2020	1.71	4/15/2030	108.4210549	103.5493894	98.92408482	94.53140831	90.35846553	86.39314487	82.62406556	79.04052964	75.63247727
200415A00024	4/15/2020	2.2	4/16/2035	115.5749944	105.6772974	96.71716161	88.60064234	81.24365994	74.57091821	68.51494657	63.01525094	58.01756061
200415A00038	4/15/2020	1.37	4/15/2027	102.5759395	100.7832312	99.0303471	97.31610917	95.63938431	93.99908238	92.39415411	90.82358918	89.28641442
200417A00009	4/17/2020	1.35	4/16/2027	102.5444769	100.749302	98.99405645	97.27756262	95.59868746	93.95634061	92.34947235	90.77707171	89.23816466
200421A00026	4/21/2020	1.34	4/19/2030	105.7290507	101.5438852	97.56325901	93.77592743	90.17132535	86.73952267	83.47118276	80.3575239	77.39028336
200421A00032	4/21/2020	1.31	4/21/2027	102.4953737	100.6868598	98.91882229	97.19008452	95.49951301	93.84601567	92.2285399	90.64607082	89.09762961
200423A00017	4/23/2020	1.82	4/23/2035	112.5583584	102.7488385	93.87583672	85.84504622	78.57209653	71.98146213	66.0054956	60.58357078	55.6613228
200424A00022	4/24/2020	1.39	4/24/2030	105.950984	101.7493624	97.75353575	93.95216398	90.33459424	86.89081542	83.61141615	80.48754573	77.51087776
200427A00018	4/27/2020	1.51	4/27/2028	104.660313	101.8147645	99.06075446	96.39485393	93.81378164	91.31439688	88.89369259	86.54878894	84.27692718

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200428A00002	4/28/2020	1.47	4/26/2030	107.6364016	102.7422342	98.09754745	93.68838543	89.50164217	85.52500589	81.74690678	78.15646858	74.74346362
200428A00009	4/28/2020	1.08	4/29/2030	102.8463753	100.3629135	97.97044215	95.66484383	93.44221823	91.29886914	89.23129232	87.2361642	85.31033128
200428A00018	4/28/2020	1.33	4/27/2035	105.3492887	100.4257773	95.83098132	91.53908017	87.52650919	83.77174611	80.25511881	76.95863259	73.86581464
200429A00030	4/29/2020	1.41	4/29/2030	106.3310274	101.9096105	97.70902992	93.71697704	89.92189491	86.31292838	82.87987784	79.61315623	76.5037491
200429A00049	4/29/2020	1.25	4/29/2026	100.8284117	99.99285827	99.17107941	98.36273692	97.56750366	96.78506301	96.01510849	95.2573433	94.51148
200429A00057	4/29/2020	1.4	4/29/2027	102.6999428	100.8674038	99.07627459	97.3253781	95.6135783	93.93977844	92.30291946	90.70197845	89.13596713
200429A00061	4/29/2020	1.66	10/29/2029	107.550095	103.1578145	98.96885238	94.97278352	91.1597697	87.52052348	84.04627455	80.72873838	77.56008685
200430A00009	4/30/2020	1.16	4/30/2026	100.756055	99.9180952	99.09399408	98.28341043	97.48601414	96.70148576	95.92951609	95.16980575	94.42206481
200430A00027	4/30/2020	1.31	4/30/2035	105.3266501	100.3018392	95.61582925	91.24184845	87.15547347	83.33440637	79.7582741	76.40844818	73.26788246
200501A00002	5/1/2020	1.3	5/1/2035	105.2879761	100.2253462	95.50653238	91.10418412	86.99336534	83.15132341	79.55728201	76.19225496	73.03887874
200504A00007	5/4/2020	1.47	5/4/2028	104.5756855	101.7123891	98.94176601	96.26033769	93.66477483	91.15189035	88.7186325	86.36207833	84.07942755
200506A00010	5/6/2020	0.94	5/6/2026	100.6474792	99.79278402	98.952525	98.12633897	97.31387484	96.5147931	95.72876538	94.95547396	94.19461137
200511A00006	5/11/2020	1.65	5/13/2030	108.2189715	103.2765628	98.58778763	94.13837239	89.91491687	85.90483645	82.09630846	78.47822232	75.04013321
200511A00018	5/11/2020	0.98	2/2/2026	100.3836369	99.78530853	99.19408138	98.6098297	98.03243069	97.46176443	96.89771377	96.34016427	95.78900412
200511A00019	5/11/2020	1.18	2/1/2027	101.8963896	100.3138194	98.76350876	97.24454058	95.75603219	94.29713379	92.8670269	91.46492293	90.09006176
200511A00020	5/11/2020	1.4	2/1/2028	103.9592994	101.3612377	98.84111978	96.39613354	94.02358762	91.72090531	89.48561881	87.31536386	85.20787457
200511A00021	5/11/2020	1.53	2/1/2029	105.9094021	102.286712	98.80694545	95.46368228	92.25082852	89.16259768	86.19349337	83.33829293	80.59203214
200511A00022	5/11/2020	1.6	2/1/2030	107.6206844	102.9712858	98.54859669	94.34037824	90.33511833	86.52198436	82.89077936	79.43190115	76.13630441
200511A00023	5/11/2020	1.7	2/3/2031	109.1649445	103.4867487	98.13777898	93.09725637	88.34582007	83.86542328	79.63923716	75.65156233	71.88774725
200512A00001	5/12/2020	1.17	5/12/2027	102.3576218	100.4720972	98.63142876	96.83427084	95.07932733	93.36534967	91.69113468	90.05552259	88.45739516
200512A00010	5/12/2020	1.48	5/10/2030	106.8549075	102.2697	97.91706436	93.78389374	89.85788914	86.12750547	82.58190141	79.21089284	76.00490964
200512A00011	5/12/2020	1.48	5/10/2030	106.8549075	102.2697	97.91706436	93.78389374	89.85788914	86.12750547	82.58190141	79.21089284	76.00490964
200512A00013	5/12/2020	1.17	5/12/2027	102.3576218	100.4720972	98.63142876	96.83427084	95.07932733	93.36534967	91.69113468	90.05552259	88.45739516
200512A00014	5/12/2020	1.17	5/12/2027	102.3576218	100.4720972	98.63142876	96.83427084	95.07932733	93.36534967	91.69113468	90.05552259	88.45739516
200514A00008	5/14/2020	1.23	5/14/2030	105.2977657	101.0748722	97.06107757	93.24473335	89.61490493	86.16132384	82.87434354	79.7448985	76.76446604
200520A00009	5/20/2020	1.63	5/20/2038	108.888984	99.18960682	90.5657751	82.88733393	76.04077662	69.92702161	64.45949749	59.56249183	55.16972622
200521A00005	5/21/2020	0.75	5/21/2030	102.2048496	99.70798073	97.30372671	94.98784918	92.75633541	90.60538472	88.53139576	86.53095469	84.60082409
200521A00013	5/21/2020	2.09	5/21/2035	114.53598	104.6014302	95.61759002	87.48834894	80.12776519	73.45894417	67.4130457	61.92840448	56.9497504
200521A00015	5/21/2020	2.14	5/21/2036	115.2972057	104.4295963	94.69359043	85.96505658	78.13406643	71.10320663	64.78609856	59.10609949	53.99516223
200521A00016	5/21/2020	2.18	5/21/2037	115.715443	103.9555692	93.51813871	84.24682897	76.00453826	68.67093768	62.14034525	56.31987851	51.12784797
200521A00017	5/21/2020	2.22	5/21/2038	116.1987464	103.5660352	92.45710761	82.67905535	74.064316	66.46723173	59.76108957	53.83557405	48.59457315
200522A00009	5/22/2020	0.96	5/22/2030	102.7357692	100.0541717	97.47513234	94.99386328	92.60583391	90.30675551	88.09256677	85.95942029	83.90366991
200527A00012	5/27/2020	1.2	5/27/2027	102.4411702	100.5364059	98.67629333	96.85952033	95.08482204	93.35097878	91.65681416	90.00119321	88.38302068

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Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200527A00013	5/27/2020	1.13	11/25/2026	101.542736	100.1448963	98.7729695	97.4262982	96.10424675	94.80620035	93.53156422	92.27976276	91.0502388
200527A00014	5/27/2020	1.06	5/27/2026	100.7590111	99.84712172	98.95164122	98.07213018	97.20816467	96.35933568	95.5252484	94.70552166	93.89978733
200527A00015	5/27/2020	0.99	11/26/2025	100.2491379	99.83765155	99.42953652	99.0247515	98.62325585	98.2250096	97.82997341	97.43810858	97.04937705
200529A00022	6/1/2020	0.98	6/1/2026	100.7008218	99.77553728	98.86714623	97.97518982	97.0992257	96.23882722	95.3935828	94.56309525	93.74698113
200604A00012	6/4/2020	1.59	6/4/2030	107.9841886	102.988985	98.2531412	93.76189222	89.50138737	85.45862883	81.6214149	77.97828726	74.51848202
200604A00013	6/4/2020	2.21	6/4/2035	115.7429187	105.7160618	96.65048433	88.44875307	81.02377384	74.29764791	68.20065969	62.67038033	57.65087348
200604A00014	6/4/2020	2.42	6/4/2040	120.2334692	105.662099	93.07593983	82.19104696	72.76552138	64.59309661	57.49773057	51.3290409	45.95844884
200608A00001	6/8/2020	1.34	6/7/2030	105.8144554	101.5273162	97.45473005	93.58461245	89.90562798	86.40713982	83.07916282	79.91231999	76.89780216
200610A00006	6/10/2020	1.11	6/10/2027	102.3436883	100.3875548	98.47947854	96.6179653	94.80157817	93.0289351	91.29870629	89.60961185	87.96041949
200611A00010	6/11/2020	1.08	6/11/2027	102.2664848	100.3226021	98.42523503	96.57298765	94.76451556	92.99852347	91.27376307	89.58903101	87.94316693
200611A00011	6/11/2020	1.2	6/9/2028	103.9184819	100.968205	98.11655506	95.35970801	92.69400985	90.11596809	87.62224359	85.20964295	82.87511129
200611A00019	6/11/2020	0.88	12/11/2025	100.2280556	99.77546161	99.32695306	98.88247471	98.44197229	98.00539253	97.57268307	97.14379253	96.71867039
200612A00004	6/12/2020	1.42	6/12/2040	106.2412861	98.28594572	91.12905127	84.67845012	78.85360108	73.58401472	68.80791412	64.47108356	60.52587764
200616A00005	6/16/2020	0.74	6/17/2030	102.2258235	99.67256123	97.21557131	94.85038822	92.57278687	90.37876796	88.26454427	86.22652802	84.26131899
200623A00028	6/23/2020	1.23	6/23/2038	105.373153	98.8295082	92.85073622	87.38036913	82.36813686	77.76923802	73.54370137	69.65582635	66.07369216
200629A00020	6/29/2020	1.4	6/28/2030	107.0906522	102.0523705	97.27940097	92.75643212	88.46911367	84.40399133	80.54844623	76.89063882	73.41945676
200629A00021	6/29/2020	1.21	6/29/2028	104.0196232	101.0129633	98.10862907	95.30257913	92.59095533	89.97007343	87.43641413	84.98661474	82.61746118
200629A00023	6/29/2020	0.95	6/29/2026	100.7602846	99.75805132	98.77561559	97.81239609	96.86783398	95.94139189	95.03255293	94.14081964	93.26571319
200708A00011	7/10/2020	2.87	7/10/2031	116.6173217	110.2939906	104.3587655	98.78575061	93.55090945	88.6319223	84.00805476	79.66003727	75.56995433
200709A00002	7/10/2020	1.66	7/10/2025	100.0350386	100.0072889	99.97957021	99.95188264	99.92422609	99.8966005	99.8690058	99.84144196	99.8139089
200709A00003	7/10/2020	1.63	7/10/2026	101.5046361	100.4681298	99.45269475	98.45769348	97.4825141	96.5265689	95.58929321	94.67014428	93.76860021
200709A00004	7/10/2020	1.4	7/10/2025	100.0276212	99.99987743	99.97216479	99.94448321	99.91683264	99.88921303	99.86162431	99.83406642	99.80653932
200709A00005	7/10/2020	2.23	7/10/2030	111.3546101	106.1776987	101.2732756	96.62557605	92.21982925	88.04219023	84.07967706	80.32011255	76.75207022
200709A00006	7/10/2020	2.58	7/10/2030	113.1417436	107.9200396	102.9725187	98.28333752	93.83765042	89.62154187	85.62196311	81.82667362	78.22418691
200709A00007	7/10/2020	1.67	7/9/2027	103.5829526	101.54912	99.56553935	97.63064671	95.74293812	93.90096695	92.10334121	90.34872109	88.63581657
200709A00008	7/10/2020	1.88	7/10/2026	101.7646215	100.7266674	99.70980506	98.71339648	97.73682931	96.77951538	95.84088958	94.92040874	94.01755055
200709A00019	7/9/2020	0.77	7/9/2025	100.0359978	99.9254573	99.8151748	99.70514932	99.59537994	99.48586572	99.37660572	99.26759904	99.15884474
200709A00021	7/9/2020	0.83	7/9/2025	100.0426465	99.93209711	99.82180572	99.71177137	99.60199314	99.49247009	99.38320128	99.27418581	99.16542274
200709A00025	7/9/2020	1.37	7/9/2030	106.4497414	101.7439881	97.28358209	93.05430949	89.04285874	85.23675832	81.62431911	78.1945809	74.937263
200716A00004	7/16/2020	0.97	7/16/2027	102.1797189	100.1346266	98.14138334	96.19830985	94.30379496	92.4562922	90.65431659	88.89644168	87.18129673
200720A00012	7/20/2020	0.77	7/15/2025	100.0140334	99.97244501	99.93090904	99.88942537	99.8479939	99.80661452	99.76528715	99.72401166	99.68278795
200720A00034	7/20/2020	0.77	7/21/2025	100.0193044	99.9610897	99.90295804	99.84490923	99.78694309	99.72905943	99.67125809	99.61353887	99.55590161
200720A00035	7/20/2020	1.81	7/20/2035	111.7866217	101.8385302	92.86040447	84.752537	77.42593907	70.80114002	64.80712619	59.3804029	54.46416467

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200720A00037	7/22/2020	2.1	7/21/2025	100.0973145	100.0390354	99.98083932	99.92272622	99.86469587	99.8067481	99.74888274	99.69109959	99.63339849
200720A00039	7/22/2020	2.48	7/21/2025	100.1196032	100.0613056	100.0030911	99.94495964	99.88691095	99.82894487	99.77106121	99.7132598	99.65554045
200720A00042	7/22/2020	2.04	7/21/2026	102.0017409	100.9321476	99.88490736	98.85932488	97.85473359	96.87049401	95.90599242	94.96063953	94.03386934
200720A00044	7/22/2020	2.22	7/21/2026	102.1944207	101.1237255	100.0753992	99.04874633	98.04309991	97.05782009	96.09229279	95.14592839	94.21816056
200724A00011	7/24/2020	1.41	7/26/2038	106.6377017	96.86700155	88.20170173	80.50579741	73.66093963	67.56404483	62.12524004	57.26609497	52.9180996
200730A00011	7/30/2020	1.15	7/28/2028	103.9298477	100.8472245	97.87156371	94.99854917	92.22406588	89.54418907	86.95517416	84.45344732	82.03559656
200803A00011	8/3/2020	0.72	8/4/2025	100.0275176	99.93054346	99.83376413	99.73717899	99.64078744	99.54458887	99.4485827	99.35276833	99.25714516
200811A00003	8/11/2020	0.57	8/11/2025	100.0226916	99.90630501	99.79020485	99.67438998	99.5588593	99.4436117	99.3286461	99.21396141	99.09955655
200812A00004	8/12/2020	0.59	8/12/2025	100.0257379	99.90658249	99.78772705	99.66917042	99.55091141	99.43294887	99.31528162	99.1979085	99.08082836
200813A00019	8/13/2020	1.44	8/13/2030	106.8503712	102.0522454	97.50804507	93.20283446	89.12264217	85.25439296	81.58584508	78.10553233	74.80271046
200813A00020	8/13/2020	1.44	8/13/2030	106.8503712	102.0522454	97.50804507	93.20283446	89.12264217	85.25439296	81.58584508	78.10553233	74.80271046
200813A00023	8/13/2020	0.86	10/14/2025	100.1772009	99.80080489	99.42724997	99.05650396	98.68853511	98.32331217	97.96080436	97.60098133	97.24381322
200814A00003	8/14/2020	0.96	8/14/2035	103.8819324	98.75839159	93.9909921	89.55077448	85.41138937	81.54884306	77.94126949	74.56872579	71.41300892
200814A00009	8/18/2020	1.36	8/16/2028	104.6575867	101.5127343	98.47828709	95.54973035	92.7227631	89.99328651	87.35739297	84.81135583	82.35161982
200814A00011	8/18/2020	1.58	8/16/2030	108.1302333	102.9359895	98.02086277	93.36840745	88.96323427	84.79093663	80.8380225	77.09185134	73.54057584
200818A00004	8/18/2020	0.92	8/18/2026	100.8994769	99.75941255	98.64492056	97.55514876	96.48928246	95.44654241	94.42618287	93.42748989	92.44977957
200818A00005	8/18/2020	1.05	8/18/2027	102.4542268	100.3253829	98.25105492	96.22946748	94.25891755	92.33777071	90.46445786	88.63747199	86.85536519
200818A00006	8/18/2020	1.18	8/18/2028	104.0923905	100.9511657	97.92044662	94.99570642	92.17263294	89.44711708	86.81524182	84.27327188	81.81764403
200818A00007	8/18/2020	1.31	8/20/2029	105.7973315	101.6312738	97.65115046	93.84766728	90.21204801	86.73600213	83.41169514	80.23172065	77.18907452
200818A00008	8/18/2020	1.5	8/18/2031	108.2750952	102.0994041	96.3127735	90.88871884	85.8026929	81.03193376	76.5553259	72.35327264	68.40757923
200818A00009	8/18/2020	1.7	8/18/2033	110.356193	102.2174422	94.7366379	87.85722718	81.52779106	75.70155375	70.33594134	65.39218441	60.83496017
200818A00010	8/18/2020	1.88	8/20/2035	112.5056388	102.4473151	93.37573012	85.18880408	77.79550308	71.11459316	65.07354049	59.60754001	54.65865681
200818A00012	8/18/2020	0.97	8/18/2027	102.2861709	100.1568177	98.08311904	96.06320663	94.09529126	92.17765884	90.30866646	88.48673877	86.71036455
200824A00020	8/26/2020	1.57	8/26/2025	100.183093	100.0251149	99.86764244	99.71067311	99.55420452	99.39823425	99.24275993	99.08777917	98.93328962
200825A00007	8/27/2020	4.79	8/27/2026	105.4709444	104.2777165	103.111616	101.9717239	100.8571623	99.76709219	98.70071114	97.65725161	96.63597887
200826A00019	8/26/2020	0.98	8/26/2026	100.9978722	99.8352553	98.69920026	97.58880594	96.50321147	95.44159413	94.40316718	93.38717798	92.39290611
200826A00021	8/26/2020	0.83	8/26/2025	100.0630208	99.90521669	99.74791738	99.5911204	99.43482334	99.27902381	99.12371941	98.96890779	98.81458659
200827A00007	8/27/2020	0.77	8/27/2025	100.0575676	99.89697434	99.73690209	99.57734836	99.41831062	99.25978637	99.10177312	98.9442684	98.78726975
200828A00002	8/28/2020	0.73	8/28/2026	100.7926541	99.62458557	98.48335434	97.36804515	96.27778392	95.21173543	94.1691012	93.1491175	92.15105347
200909A00001	9/9/2020	0.98	9/8/2028	103.7433827	100.5455092	97.46194818	94.48793774	91.61894645	88.85066051	86.1789716	83.59996563	81.10991217
200910A00006	9/10/2020	0.96	9/10/2027	102.3333277	100.1482709	98.02154555	95.9511936	93.93533845	91.97218086	90.05999505	88.19712507	86.38198132
200911A00011	9/11/2020	1.18	9/11/2030	105.6091938	100.7930762	96.23525561	91.9203798	87.83409454	83.96297294	80.29445035	76.81676421	73.5188984
200911A00012	9/11/2020	1.18	9/11/2030	105.6091938	100.7930762	96.23525561	91.9203798	87.83409454	83.96297294	80.29445035	76.81676421	73.5188984

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Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200911A00013	9/11/2020	0.69	9/11/2025	100.0812733	99.79764407	99.51563484	99.23523162	98.95642062	98.6791882	98.40352088	98.12940534	97.85682839
200916A00015	9/16/2020	0.72	9/16/2025	100.0687016	99.85290767	99.63805718	99.42414385	99.2111615	98.99910397	98.7879652	98.57773914	98.36841982
200922A00015	9/24/2020	1.09	9/24/2025	100.165111	99.92709917	99.69022452	99.45447892	99.21985427	98.98634256	98.75393587	98.52262633	98.29240615
200922A00027	9/24/2020	1.65	9/23/2025	100.2952104	100.0597531	99.82540909	99.5921704	99.36002919	99.1289777	98.89900823	98.67011314	98.4422849
200922A00034	9/24/2020	2.24	9/23/2026	102.6727701	101.4223219	100.2022236	99.01138063	97.84875044	96.71333951	95.60420045	94.52042943	93.46116363
200922A00036	9/24/2020	1.55	9/23/2025	100.2716147	100.0361946	99.80188762	99.56868583	99.33658138	99.10556652	98.87563355	98.64677484	98.41898284
200922A00037	9/24/2020	2.76	9/23/2025	100.5571223	100.3212525	100.0864974	99.85284917	99.62029988	99.38884177	99.15846714	98.92916834	98.70093781
200922A00039	9/24/2020	3	9/23/2025	100.6137518	100.3777929	100.1429489	99.90921214	99.67657463	99.4450286	99.21456636	98.98518027	98.75686276
200925A00002	9/25/2020	0.74	9/25/2025	100.0826204	99.84198174	99.6025047	99.36418081	99.12700173	98.89095921	98.65604508	98.42225123	98.18956966
200925A00008	9/25/2020	0.74	9/25/2025	100.0826204	99.84198174	99.6025047	99.36418081	99.12700173	98.89095921	98.65604508	98.42225123	98.18956966
200928A00003	9/28/2020	0.55	9/26/2025	100.050369	99.80688168	99.56458306	99.32346447	99.08351728	98.84473294	98.607103	98.37061907	98.13527286
200928A00009	9/28/2020	1.51	9/28/2032	108.649287	101.4030255	94.68621956	88.45749204	82.67890694	77.31566563	72.33583136	67.71007958	63.41147122
201001A00012	10/1/2020	0.74	9/16/2025	100.0730322	99.85723199	99.64237517	99.42845554	99.2154669	99.00340311	98.79225809	98.58202581	98.37270029
201007A00008	10/7/2020	1.22	10/7/2030	105.679935	100.9356079	96.44615378	92.19639281	88.17212864	84.36007997	80.74781686	77.32370195	74.07683592
201007A00010	10/7/2020	1.22	10/7/2030	105.679935	100.9356079	96.44615378	92.19639281	88.17212864	84.36007997	80.74781686	77.32370195	74.07683592
201007A00014	10/7/2020	0.8	10/7/2025	100.1455301	99.78867809	99.4343789	99.08260512	98.73332972	98.38652606	98.04216787	97.70022925	97.36068469
201015A00003	10/15/2020	0.75	10/15/2025	100.1017068	99.80601867	99.51208768	99.21989804	98.92943421	98.64068083	98.35362272	98.06824489	97.78453252
201015A00020	10/15/2020	0.94	10/15/2027	102.3952515	100.1201831	97.9080542	95.75677135	93.66432303	91.62877613	89.64827241	87.72102511	85.84531577
201015A00024	10/19/2020	1.53	10/18/2027	103.7957327	101.4859188	99.23874598	97.0521262	94.92405594	92.85261206	90.835948	88.87229011	86.95993418
201015A00025	10/19/2020	1.54	10/18/2027	103.8190543	101.5089648	99.26152219	97.07463835	94.94630952	92.87461243	90.85770036	88.89379948	86.98120547
201015A00030	10/19/2020	2.39	10/18/2027	105.8013875	103.4678718	101.1975006	98.98817077	96.83786428	94.74464409	92.70665023	90.72209615	88.78926524
201015A00032	10/19/2020	2.33	10/19/2026	102.9732149	101.6600691	100.3735722	99.11292341	97.87735418	96.66612667	95.47853225	94.31388996	93.17154522
201019A00005	10/19/2020	0.79	10/20/2025	100.1195248	99.81004357	99.50248372	99.19682729	98.89305656	98.59115404	98.29110245	97.99288472	97.696484
201021A00011	10/21/2020	1.11	10/21/2027	102.8269551	100.5205981	98.27703767	96.09418777	93.97004566	91.90268818	89.89026796	87.93100984	86.02320755
201021A00012	10/21/2020	1.85	10/19/2035	112.2153135	102.0253805	92.84979613	84.58219989	77.12788219	70.40245578	64.33068446	58.84544985	53.88683937
201022A00012	10/26/2020	2.25	10/24/2030	111.9102096	106.4312297	101.2545071	96.361821	91.73614087	87.36154206	83.22312864	79.30696179	75.59999351
201028A00003	10/30/2020	1.42	2/27/2026	100.7355292	100.0674659	99.40822601	98.75763594	98.11552639	97.48173251	96.85609368	96.23845342	95.6286592
201028A00005	10/30/2020	1.85	10/31/2025	100.4944301	100.1538851	99.81563967	99.4796707	99.1459553	98.81447091	98.48519527	98.15810641	97.83318265
201028A00011	10/28/2020	0.91	4/28/2026	100.5401113	99.70861628	98.89079272	98.08630588	97.29483192	96.51605739	95.74967883	94.99540238	94.25294341
201029A00002	10/29/2020	0.59	10/29/2025	100.0875236	99.75306639	99.42084027	99.090823	98.76299263	98.43732747	98.11380613	97.79240749	97.47311073
201029A00004	10/29/2020	1.49	10/29/2038	107.4085643	97.44177141	88.61950409	80.79878373	73.85546924	67.68167088	62.18353178	57.27932333	52.89780857
201030A00001	11/2/2020	2.54	10/29/2040	122.6185884	107.5495985	94.57394262	83.38600353	73.72635623	65.37457912	58.14321421	51.87268781	46.42703526
201030A00002	11/2/2020	2.8	10/29/2040	126.4675012	111.1210222	97.89552066	86.48220628	76.61887898	68.08268676	60.68404012	54.26149351	48.6774361

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Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
201030A00003	11/2/2020	2.58	10/29/2040	123.2107289	108.0990483	95.08495463	83.86234242	74.17135973	65.79121106	58.53411051	52.24019638	46.77325077
201030A00004	11/2/2020	2.56	10/29/2040	122.9146586	107.8243234	94.82944862	83.62417298	73.94885798	65.58289509	58.33866236	52.0564421	46.60014301
201030A00005	11/2/2020	2.49	10/29/2040	121.8784129	106.8627863	93.93517761	82.79057993	73.17010185	64.85378919	57.65459385	51.4133021	45.99426587
201030A00012	10/30/2020	0.63	10/30/2025	100.1019027	99.76466171	99.42968673	99.09695495	98.76644391	98.43813146	98.11199574	97.78801517	97.46616847
201030A00016	10/30/2020	1.14	10/8/2027	102.8495974	100.577605	98.36669597	96.2148067	94.11996028	92.08026198	90.0938951	88.15911703	86.2742556
201030A00017	10/30/2020	1.14	10/15/2027	102.875213	100.5842707	98.35534098	96.1863479	94.07530066	92.02028921	90.01948032	88.07111386	86.1734993
201030A00018	10/30/2020	1.15	10/22/2027	102.9242631	100.6140869	98.36686513	96.18050912	94.05301335	91.9824517	89.96697367	88.00480089	86.09422377
201030A00019	10/30/2020	1.15	10/29/2027	102.9500768	100.6209342	98.35568933	96.15223998	94.00856563	91.92272366	89.89284589	87.91713529	85.9938628
201103A00005	11/3/2020	0.89	11/4/2030	102.6031815	99.83858214	97.1852705	94.63777896	92.19094951	89.83991397	87.58007571	85.4070927	83.31686163
201105A00003	11/6/2020	2.24	11/4/2030	111.8990768	106.3906097	101.1875814	96.27151685	91.62514864	87.23233186	83.07796587	79.14792175	75.42897513
201105A00016	11/9/2020	2.18	11/8/2027	105.4513436	103.0646166	100.7438798	98.48694974	96.29172807	94.15619747	92.07841814	90.05652434	88.08872111
201109A00012	11/9/2020	1.39	11/8/2030	106.7258266	101.740214	97.02888403	92.57518143	88.36354954	84.37945228	80.60930192	77.04039247	73.66083792
201110A00003	11/10/2020	1.12	11/10/2027	102.8998865	100.5539808	98.27466517	96.05966511	93.9067978	91.81396799	89.77916387	87.8004532	85.87597966
201116A00024	11/18/2020	2.36	11/15/2034	116.8249892	107.2554335	98.55629826	90.643654	83.4420639	76.88368619	70.90747512	65.45846956	60.48715923
201116A00025	11/18/2020	1.96	11/15/2032	112.0323846	104.5411455	97.6035236	91.1757966	85.21790185	79.69311304	74.56774709	69.810898	65.39419523
201118A00009	11/18/2020	0.61	11/18/2025	100.1128472	99.72335135	99.33689017	98.95342812	98.57293029	98.19536229	97.82069025	97.44888084	97.07990124
201119A00021	11/23/2020	2.22	11/21/2030	111.8571124	106.3029288	101.0592657	96.10718708	91.42900482	87.00819026	82.8292926	78.87786334	75.14038644
201119A00023	11/23/2020	2.23	11/21/2030	111.9118885	106.3562353	101.1111616	96.15772848	91.47824506	87.05618012	82.87608042	78.92349517	75.18490617
201123A00010	11/25/2020	1.48	11/24/2025	100.445065	100.0386	99.63542283	99.23549371	98.83877345	98.44522351	98.05480596	97.66748346	97.28321929
201123A00011	11/25/2020	1.41	11/24/2025	100.4165102	100.0101149	99.60700699	99.20714673	98.81049493	98.41701305	98.02666316	97.63940794	97.25521065
201203A00005	12/3/2020	0.78	12/3/2026	101.170538	99.75215123	98.36046476	96.99479115	95.65446613	94.33884757	93.04731455	91.77926653	90.53412246
201204A00015	12/8/2020	1.07	12/8/2025	100.3075047	99.86293472	99.42230233	98.98555526	98.55264219	98.12351271	97.69811729	97.27640728	96.85833484
201207A00009	12/7/2020	1.01	12/7/2027	102.7180266	100.3072829	97.96682234	95.69417478	93.48697318	91.34294843	89.25992459	87.23581446	85.26861536
201207A00021	12/7/2020	1.85	12/7/2050	113.2260154	100.1624028	89.13138994	79.77277044	71.79529499	64.96274418	59.08293137	53.9989985	49.5825101
201208A00029	12/10/2020	1.52	12/9/2025	100.5119887	100.0641345	99.62027099	99.18034475	98.7443035	98.31209583	97.88367124	97.45898012	97.03797373
201210A00021	12/10/2020	0.89	12/10/2027	102.6402278	100.1969492	97.82386873	95.51857622	93.27875922	91.10219817	88.98676213	86.93040462	84.93115977
201211A00001	12/11/2020	0.95	12/11/2030	104.524382	99.91316845	95.55243952	91.42697604	87.52256994	83.82595154	80.32472243	77.0072936	73.86282815
201215A00001	12/15/2020	0.76	12/15/2025	100.1788226	99.71539207	99.25624698	98.801328	98.35057684	97.90393631	97.46135024	97.02276348	96.58812189
201216A00004	12/16/2020	0.74	9/8/2025	100.065338	99.87160742	99.67863678	99.48642158	99.29495731	99.10423954	98.91426385	98.72502586	98.53652123
201216A00013	12/16/2020	0.59	12/16/2025	100.1325345	99.66610397	99.20401725	98.74621367	98.29263374	97.84321905	97.39791231	96.95665722	96.51939855
201218A00014	12/18/2020	0.57	12/18/2025	100.1251635	99.65326565	99.18581322	98.72274346	98.26399479	97.80950682	97.35922026	96.91307693	96.47101971
201221A00014	12/21/2020	0.76	12/19/2025	100.184197	99.70978415	99.23986012	98.77436132	98.31322534	97.85639096	97.40379808	96.95538774	96.51110206
201221A00015	12/21/2020	0.88	12/4/2026	101.2178666	99.79810527	98.40509416	97.03814386	95.69658822	94.37978326	93.08710635	91.81795523	90.57174726

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
201221A00022	12/21/2020	0.51	12/19/2025	100.1249159	99.57342606	99.02805016	98.48868652	97.95523572	97.42760058	96.90568599	96.38939896	95.87864847
201223A00012	12/23/2020	0.91	12/18/2026	101.3072703	99.84968926	98.42026797	97.01826254	95.64295483	94.29365127	92.96968183	91.67039897	90.39517677
201223A00013	12/23/2020	0.9	12/11/2026	101.2696121	99.83089153	98.41962338	97.03509124	95.67660315	94.34349054	93.03510723	91.7508285	90.49005021
201228A00013	12/28/2020	0.84	12/30/2030	102.4896863	99.68617647	96.99705505	94.41663261	91.93954538	89.56073435	87.27542591	85.07911374	82.96754205
210104A00006	11/22/2021	0.88	11/20/2026	101.1689913	99.78765965	98.43171173	97.10050926	95.79343487	94.50989121	93.24930022	92.01110232	90.79475565
210104A00007	11/23/2021	0.88	11/23/2026	101.1798134	99.7901651	98.42619016	97.08723956	95.77268572	94.48192157	93.21435969	91.96943159	90.74658686
210104A00009	12/20/2021	0.89	12/18/2026	101.2775364	99.82018568	98.39099063	96.98920753	95.61411835	94.26502961	92.94127139	91.64219624	90.36717834
210104A00010	11/22/2021	0.88	11/20/2026	101.1689913	99.78765965	98.43171173	97.10050926	95.79343487	94.50989121	93.24930022	92.01110232	90.79475565
210104A00011	11/23/2021	0.88	11/23/2026	101.1798134	99.7901651	98.42619016	97.08723956	95.77268572	94.48192157	93.21435969	91.96943159	90.74658686
210104A00012	12/20/2021	0.89	12/18/2026	101.2775364	99.82018568	98.39099063	96.98920753	95.61411835	94.26502961	92.94127139	91.64219624	90.36717834
210107A00007	1/7/2021	0.84	1/7/2026	100.3056153	99.69942296	99.10057068	98.50892553	97.9243578	97.34674083	96.775951	96.2118676	95.65437276
210114A00009	1/19/2021	2.66	1/17/2030	112.4683717	107.7488634	103.2563345	98.97865895	94.90442375	91.02288294	87.32391504	83.79798331	80.43609887
210125A00006	1/27/2021	2.16	1/26/2027	103.4332575	101.8543108	100.3073243	98.79139796	97.3056651	95.84929095	94.42147121	93.02143061	91.6484216
210125A00007	1/27/2021	2.98	1/27/2031	116.3963645	110.5371017	105.0132474	99.80379826	94.88917585	90.25112251	85.87260524	81.73772721	77.83164613
210127A00008	1/27/2021	0.93	1/27/2027	101.4748964	99.90947056	98.3758016	96.87299358	95.40018397	93.95654203	92.54126736	91.15358851	89.79276165
210127A00009	1/27/2021	1.3	7/27/2029	105.6814051	101.5816906	97.66266039	93.91539864	90.33147898	86.90293474	83.62223118	80.48223963	77.47621327
210127A00010	1/27/2021	1.41	7/26/2030	107.2017921	102.0868066	97.2445036	92.65895221	88.31523528	84.19937924	80.29828949	76.5996904	73.09206985
210201A00001	2/1/2021	0.77	12/16/2025	100.1848556	99.71866657	99.25681378	98.79923674	98.34587615	97.89667382	97.45157261	97.01051641	96.57345017
210201A00002	2/1/2021	1.19	2/1/2036	104.7650932	99.36886308	94.36339531	89.71565509	85.39569702	81.37635314	77.63295457	74.14308289	70.88634786
210201A00003	2/2/2021	0.74	10/15/2025	100.0987369	99.80305439	99.50912894	99.21694481	98.92648647	98.63773855	98.35068588	98.06531348	97.78160651
210201A00012	2/3/2021	0.75	11/17/2025	100.139395	99.75289808	99.36938779	98.9888295	98.61118913	98.23643311	97.8645284	97.49544244	97.12914318
210208A00004	2/11/2021	0.76	10/15/2025	100.1046766	99.80898296	99.51504643	99.22285128	98.93238195	98.6436231	98.35655955	98.0711763	97.78745854
210208A00008	2/11/2021	0.78	11/17/2025	100.1510505	99.7645263	99.38098893	99.00040372	98.62273658	98.24795394	97.87602274	97.50691045	97.140585
210209A00029	2/12/2021	0.8	12/15/2025	100.1974689	99.73398751	99.27479199	98.8198229	98.36902198	97.922332	97.4796968	97.04106123	96.60637115
210212A00004	2/12/2021	1.1	2/12/2036	104.6504131	99.24969989	94.24060414	89.58997983	85.26778422	81.2467641	77.50217594	74.01153591	70.7543965
210212A00006	2/12/2021	0.77	2/12/2026	100.3203062	99.62578988	98.94091388	98.26547812	97.599288	96.94215424	96.29389273	95.65432428	95.02327456
210212A00007	2/12/2021	0.76	2/12/2026	100.3122517	99.61979244	98.93693426	98.26347795	97.59922983	96.9440015	96.29760966	95.659876	95.03062695
210212A00008	2/12/2021	0.95	10/13/2026	101.1313664	99.84392026	98.58437397	97.35182254	96.14540027	94.96427866	93.8076643	92.67479711	91.56494852
210212A00014	2/17/2021	1.38	2/17/2026	100.6749823	100.0345529	99.40224908	98.77791692	98.16140631	97.55257089	96.95126795	96.35735828	95.77070611
210216A00006	2/16/2021	1.44	2/15/2030	107.2660981	102.5731128	98.1110781	93.86741626	89.83030367	85.98862118	82.33190806	78.85031933	75.53458601
210216A00007	2/16/2021	1.3	2/16/2029	105.3999897	101.7351845	98.2166584	94.83776386	91.59219552	88.47397041	85.47740937	82.59711968	79.82797878
210216A00008	2/16/2021	0.71	2/17/2026	100.2880901	99.64849106	99.01702009	98.39352294	97.77784928	97.16985251	96.56938968	95.97632138	95.39051162
210216A00009	2/16/2021	0.92	2/16/2027	101.6608598	100.0339098	98.44074104	96.8803683	95.35184486	93.85426033	92.38673894	90.94843788	89.53854569

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Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
210216A00011	2/17/2021	0.83	12/15/2025	100.2114535	99.74793409	99.28870074	98.83369408	98.38285583	97.93612876	97.49345672	97.05478454	96.6200581
210217A00005	2/17/2021	0.83	2/14/2031	102.7208029	99.82540717	97.05125957	94.39218772	91.84238001	89.39636207	87.04897483	84.79535419	82.63091218
210218A00010	2/18/2021	1.72	2/18/2031	109.3242605	103.5977385	98.20541361	93.12605561	88.3398937	83.82850807	79.57473051	75.56255271	71.77704185
210218A00011	2/22/2021	0.85	10/24/2025	100.143592	99.82305547	99.50457455	99.18812942	98.87370057	98.56126872	98.25081485	97.94232017	97.63576613
210219A00004	2/19/2021	0.91	2/19/2026	100.3766398	99.73181407	99.09524209	98.46676618	97.84623262	97.23349158	96.62839696	96.03080629	95.44058064
210219A00008	2/22/2021	0.86	12/1/2025	100.202357	99.77726128	99.35575863	98.93780366	98.52335177	98.11235912	97.70478257	97.30057973	96.89970889
210224A00002	2/25/2021	0.88	11/3/2025	100.1677392	99.81964738	99.47397042	99.13068322	98.78976108	98.4511796	98.11491473	97.78094277	97.44924031
210224A00003	2/26/2021	0.9	12/3/2025	100.2229098	99.79227614	99.36533301	98.94203315	98.52233006	98.10617805	97.69353221	97.28434836	96.87858308
210224A00004	2/26/2021	0.91	12/18/2025	100.2540244	99.78216032	99.31473534	98.8516869	98.39295363	97.9384753	97.4881928	97.0420481	96.59998426
210224A00006	2/26/2021	0.88	10/21/2025	100.1489389	99.83664819	99.52631239	99.21791308	98.91143211	98.60685155	98.30415367	98.003321	97.70433626
210225A00003	3/1/2021	0.93	9/24/2025	100.126914	99.88896298	99.65214891	99.41646367	99.18189915	98.94844737	98.71610038	98.48485032	98.25468942
210225A00006	2/25/2021	0.98	2/25/2026	100.4356433	99.77417979	99.12138908	98.47710157	97.84115208	97.21337964	96.59362743	95.98174262	95.37757622
210225A00007	2/25/2021	1.79	8/23/2030	109.2455655	104.0041027	99.0447256	94.35077594	89.90666864	85.69781655	81.71056101	77.9321077	74.3504672
210225A00012	3/1/2021	0.91	8/25/2025	100.0771796	99.92209186	99.76749369	99.61338274	99.45975671	99.30661328	99.15395017	99.0017651	98.85005582
210225A00013	3/1/2021	0.93	10/6/2025	100.1462472	99.87519059	99.6056064	99.33748263	99.07080736	98.80556882	98.54175537	98.2793555	98.0183578
210225A00016	3/1/2021	0.88	7/15/2025	100.0186778	99.97708563	99.93554585	99.89405838	99.85262311	99.81123995	99.76990878	99.72862951	99.68740203
210226A00004	3/1/2021	1.04	12/5/2025	100.2877489	99.85146147	99.41896347	98.99020561	98.56513948	98.14371753	97.72589299	97.31161991	96.90085312
210226A00012	2/26/2021	2.31	2/26/2036	117.0862472	106.3316413	96.67292327	87.99217684	80.18474855	73.15769462	66.82841667	61.12346261	55.97747189
210302A00005	3/5/2021	0.92	9/10/2025	100.103473	99.90417222	99.70567652	99.507981	99.31108076	99.11497093	98.9196467	98.72510329	98.53133597
210303A00006	3/4/2021	0.97	10/10/2025	100.1640911	99.88198893	99.60148502	99.32256572	99.04521753	98.76942712	98.4951813	98.22246703	97.95127142
210304A00002	3/5/2021	0.93	7/10/2025	100.0142128	99.98647987	99.95877807	99.93110732	99.90346757	99.87585876	99.84828083	99.82073373	99.7932174
210304A00006	3/4/2021	1.02	3/4/2026	100.4799731	99.79918764	99.12758686	98.46498597	97.81120504	97.16606894	96.52940712	95.90105352	95.28084637
210305A00006	3/8/2021	1.02	8/11/2025	100.0689984	99.95263305	99.83655325	99.72075796	99.60524607	99.49001651	99.3750682	99.26040006	99.14601103
210305A00013	3/5/2021	2.41	3/5/2036	118.1583844	107.328586	97.60270348	88.86183879	81.00048439	73.92495287	67.55199779	61.80760173	56.62591056
210311A00007	3/11/2021	1.06	3/11/2026	100.5266784	99.82655903	99.13615652	98.45526957	97.78370242	97.12126464	96.46777096	95.82304112	95.18689965
210312A00008	3/12/2021	1.13	3/12/2026	100.5789474	99.87588655	99.18262092	98.49894681	97.82466612	97.15958619	96.50351959	95.85628396	95.21770183
210315A00003	3/15/2021	1.13	3/13/2026	100.5818985	99.87608876	99.18015092	98.49387885	97.81707214	97.1495359	96.49108057	95.84152172	95.20067988
210319A00009	3/19/2021	1.1	3/19/2026	100.6598651	99.8647934	99.0823445	98.31221881	97.55412616	96.80778545	96.07292427	95.34927861	94.6365925
210324A00002	3/24/2021	2.06	3/24/2031	111.3764123	105.499246	99.96906194	94.76353207	89.86188536	85.24479056	80.89424834	76.79349223	72.92689742
210324A00003	3/24/2021	1.18	3/24/2026	100.6513879	99.91518382	99.18970595	98.47472124	97.77000333	97.0753323	96.39049449	95.71528227	95.0494938
210330A00021	3/30/2021	2.16	3/28/2031	111.9703055	106.0656069	100.5098071	95.28042698	90.35655747	85.71874097	81.34886241	77.23004928	73.34657953
210330A00022	3/30/2021	1.27	3/30/2026	100.7380728	99.98507654	99.24328237	98.51244198	97.79231434	97.08266544	96.38326803	95.69390141	95.01435115
210331A00007	3/31/2021	1.25	3/31/2031	103.8083919	100.8443234	98.00581992	95.2864217	92.68005009	90.18098265	87.78382972	85.48351282	83.27524452

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
210407A00013	4/7/2021	1.23	4/7/2026	100.7352933	99.96040461	99.19738648	98.44596775	97.70588549	96.97688466	96.25871784	95.55114492	94.85393283
210408A00007	4/8/2021	1.05	4/8/2031	103.4509586	100.4526442	97.58297176	94.83524793	92.20317854	89.68084193	87.26266439	84.94339724	82.71809571
210409A00010	4/9/2021	1.05	4/9/2031	103.4166247	100.4485971	97.60735922	94.88633094	92.27932367	89.78051455	87.38442225	85.08588457	82.88003764
210420A00009	4/20/2021	1.08	12/5/2025	100.3052859	99.86895305	99.43640985	99.00760707	98.58249632	98.16103001	97.74316139	97.32884451	96.91803418
210420A00010	4/20/2021	1.08	12/12/2025	100.3208865	99.86530572	99.41386193	98.96649882	98.52316112	98.08379455	97.64834581	97.21676255	96.78899336
210420A00035	4/20/2021	1.92	4/20/2034	109.2709374	103.4193382	97.98389282	92.93066796	88.22875655	83.84998883	79.76867247	75.96135881	72.40663252
210423A00001	4/23/2021	1.72	4/23/2036	108.210746	102.543922	97.29368852	92.42432257	87.90348741	83.70188639	79.79295422	76.15258169	72.75887001
210423A00003	4/23/2021	1.31	4/23/2031	104.2516931	101.229594	98.3372004	95.56776146	92.91492915	90.37273114	87.93554606	85.5980804	83.3553472
210428A00006	4/28/2021	1.23	4/28/2026	100.8081359	99.97541487	99.15637936	98.35069444	97.55803599	96.77809031	96.0105537	95.25513205	94.51154048
210428A00007	4/28/2021	1.74	10/27/2028	106.216147	102.8503923	99.60869191	96.48583027	93.47683935	90.57698555	87.78175729	85.08685339	82.48817204
210428A00008	4/28/2021	1.93	4/26/2030	109.5381655	104.6093986	99.93090543	95.48871812	91.2697181	87.26158034	83.45272128	79.83225056	76.38992605
210428A00015	4/28/2021	2.02	4/28/2031	111.2408787	105.2726359	99.66211057	94.38606742	89.42289252	84.75247257	80.35608349	76.21628789	72.31684056
210429A00005	4/29/2021	2.08	4/29/2031	111.5986966	105.6173793	99.99453901	94.70689146	89.73277679	85.05203868	80.64591279	76.49692405	72.58879202
210507A00008	5/7/2021	1.94	5/7/2031	110.7879735	104.8089897	99.18997443	93.90745809	88.9396141	84.26613592	79.86812399	75.72798162	71.8293191
210507A00009	5/7/2021	2.02	5/7/2032	112.090505	105.0984382	98.59012427	92.52965135	86.88394393	81.62252553	76.71730248	72.14236661	67.87381523
210512A00011	5/12/2021	1.16	5/12/2026	100.8906065	99.95160566	99.03018819	98.12586233	97.2381545	96.36660853	95.51078483	94.67025964	93.84462432
210512A00012	5/12/2021	1.16	5/12/2026	100.8906065	99.95160566	99.03018819	98.12586233	97.2381545	96.36660853	95.51078483	94.67025964	93.84462432
210514A00007	5/14/2021	0.95	5/15/2028	101.5738648	100.0723885	98.60809092	97.17974596	95.78617782	94.42625857	93.09890581	91.80308041	90.53778447
210514A00010	5/14/2021	1.34	5/14/2031	104.336649	101.3092747	98.41263861	95.63988768	92.98458049	90.44065945	88.00242537	85.66451372	83.42187272
210514A00033	5/18/2021	2.8	5/18/2028	108.524064	105.5654991	102.703388	99.93407254	97.25405382	94.6599842	92.14865991	89.71701404	87.36210988
210518A00023	5/18/2021	1.17	5/18/2026	100.8281516	99.94056745	99.06853444	98.21164666	97.36951224	96.54175272	95.72800251	94.92790829	94.14112857
210525A00004	5/25/2021	1.02	12/19/2025	100.3082808	99.83352307	99.36325651	98.89741748	98.43594356	97.9787735	97.52584718	97.07710561	96.63249088
210526A00014	5/26/2021	1.01	12/19/2025	100.3035083	99.82876388	99.35851049	98.89268455	98.43122363	97.97406648	97.52115298	97.07242415	96.62782208
210526A00017	5/26/2021	2.13	5/26/2033	113.7215539	105.6650172	98.24042612	91.39493019	85.08035001	79.25274292	73.8720109	68.90154667	64.30791384
210526A00018	5/26/2021	1.11	5/26/2026	100.8015381	99.89217579	98.99912866	98.121961	97.26025246	96.4135974	95.58160427	94.76389498	93.96010435
210527A00019	5/27/2021	1	5/27/2026	100.7674597	99.8546357	98.95825078	98.07786435	97.21305138	96.3634018	95.52851982	94.70802331	93.90154321
210527A00026	6/1/2021	2.78	6/1/2028	108.5742357	105.5767291	102.6781197	99.87461106	97.16257435	94.53853951	91.99918754	89.54134295	87.16196678
210603A00015	6/7/2021	2.71	6/7/2028	108.413179	105.4012616	102.4892817	99.67338104	96.94987251	94.31523133	91.7660871	89.29921601	86.91153369
210608A00017	6/10/2021	2.67	6/8/2029	111.0059295	106.9326383	103.0324935	99.29722932	95.71901838	92.29044588	89.00448581	85.85447843	82.83410924
210609A00007	6/11/2021	2.6	6/11/2029	110.7466934	106.6701338	102.76727	99.02979128	95.44982892	92.01992989	88.73303277	85.58244512	82.56182214
210610A00012	6/11/2021	1.9	6/10/2026	101.6098931	100.6552905	99.71856221	98.79920969	97.89675287	97.01072919	96.14069287	95.2862141	94.44687839
210610A00014	6/11/2021	2.03	6/10/2026	101.734273	100.7790288	99.84166733	98.92168982	98.01861602	97.13198321	96.26134544	95.40627273	94.56635044
210611A00006	6/11/2021	1.85	6/11/2031	110.3218439	104.2638634	98.57639281	93.23490067	88.21659977	83.50031453	79.06635922	74.89642593	70.97348155

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
210611A00010	6/11/2021	1.02	6/11/2026	100.8534344	99.8385862	98.8442905	97.86992598	96.91489619	95.97862828	95.06057187	94.16019796	93.27699787
210611A00011	6/11/2021	1.02	6/11/2026	100.8534344	99.8385862	98.8442905	97.86992598	96.91489619	95.97862828	95.06057187	94.16019796	93.27699787
210611A00012	6/11/2021	1.02	6/11/2026	100.8534344	99.8385862	98.8442905	97.86992598	96.91489619	95.97862828	95.06057187	94.16019796	93.27699787
210623A00028	6/23/2021	1.22	6/23/2026	101.0096087	100.0224702	99.05451615	98.10519187	97.17396381	96.26031863	95.36376225	94.48381895	93.62003049
210624A00005	6/24/2021	1.22	6/24/2026	101.0134796	100.0235792	99.05296849	98.10108827	97.16740071	96.25138845	95.35255353	94.47041658	93.60451588
210624A00025	6/24/2021	1.43	6/24/2027	103.019959	101.0326492	99.09370548	97.20165045	95.35506206	93.55257125	91.7928596	90.07465704	88.39673973
210624A00026	6/24/2021	1.6	6/23/2028	105.1783412	102.1705911	99.26450457	96.45609083	93.74153914	91.11720946	88.57962371	86.12545764	83.75153306
210629A00005	6/29/2021	1.25	6/29/2026	101.0631178	100.0592417	99.07518592	98.11036842	97.1642299	96.23623252	95.32585889	94.43261112	93.55600991
210629A00009	6/29/2021	1.14	12/31/2025	100.3943118	99.88637759	99.3835606	98.88578395	98.39297226	97.90505162	97.42194961	96.9435952	96.46991879
210629A00012	6/29/2021	1.14	12/29/2025	100.3895187	99.88708786	99.38966866	98.89718641	98.40956795	97.92674154	97.44863686	96.97518495	96.50631818
210629A00014	6/29/2021	1.78	12/28/2029	108.3226827	103.7509681	99.39818836	95.25273054	91.30365818	87.54066828	83.9540512	80.53465346	77.27384289
210629A00015	6/29/2021	1.89	6/27/2031	110.5981298	104.4888459	98.75571512	93.37365881	88.31939425	83.57129728	79.10927598	74.91465461	70.97006693
210701A00007	7/1/2021	1.22	7/1/2026	101.0408607	100.0316212	99.04241645	98.07265505	97.12176869	96.18921103	95.27445658	94.37699978	93.49635403
210706A00006	7/6/2021	1.15	7/6/2026	100.9896181	99.96694817	98.96486313	97.98274669	97.02000701	96.07607538	95.15040518	94.24247077	93.35176652
210706A00014	7/6/2021	1.15	6/26/2026	100.9511426	99.95609515	98.98054309	98.02391832	97.08567459	96.16528649	95.26224846	94.37607387	93.5062941
210706A00015	7/6/2021	1.06	12/31/2025	100.3534709	99.84565768	99.34296081	98.84530341	98.3526101	97.864807	97.38182168	96.90358315	96.43002178
210707A00002	7/7/2021	1.12	6/26/2026	100.9211088	99.92622297	98.95083031	97.99436278	97.05627418	96.13603916	95.23315219	94.34712669	93.47749408
210707A00008	7/9/2021	2.44	7/7/2031	113.9773265	107.7408222	101.8880266	96.39331868	91.23291691	86.38473829	81.82826837	77.54444212	73.51553437
210709A00002	7/9/2021	1.36	7/9/2029	106.1620799	102.0922243	98.20013676	94.47712385	90.91496461	87.50588205	84.24251671	81.11790189	78.12544055
210709A00005	7/9/2021	1.69	7/9/2031	109.4000165	103.2947868	97.56786289	92.19388453	87.14931743	82.41231261	77.96257736	73.78125673	69.85082458
210709A00006	7/13/2021	2.4	7/11/2031	113.7465851	107.5063038	101.6506587	96.1539254	90.99222948	86.1434044	81.58686061	77.30346553	73.27543329
210714A00012	7/14/2021	1.12	7/14/2026	101.0847009	99.9790107	98.89768063	97.83990992	96.8049326	95.79201564	94.80045722	93.82958503	92.87875475
210714A00013	7/14/2021	1.12	7/14/2026	101.0847009	99.9790107	98.89768063	97.83990992	96.8049326	95.79201564	94.80045722	93.82958503	92.87875475
210714A00014	7/14/2021	1.12	7/14/2026	101.0847009	99.9790107	98.89768063	97.83990992	96.8049326	95.79201564	94.80045722	93.82958503	92.87875475
210714A00015	7/14/2021	1.11	7/14/2026	101.0638001	99.96685177	98.89400062	97.84445576	96.81746057	95.81229097	94.82825365	93.86468444	92.92094679
210719A00004	7/19/2021	1	4/20/2026	100.5928432	99.78299564	98.98612506	98.20192153	97.43008493	96.67032454	95.9223587	95.18591445	94.4607272
210719A00009	7/19/2021	1.04	7/17/2026	100.9166687	99.86424728	98.83363647	97.82416408	96.83518531	95.86608131	94.91625796	93.98514459	93.07219287
210720A00035	7/22/2021	2.27	7/21/2031	112.9814965	106.7375253	100.8802597	95.38372938	90.22383957	85.37822596	80.82612173	76.54823546	72.52663895
210721A00009	7/21/2021	1.7	7/21/2031	109.4786196	103.3397408	97.58291632	92.18242458	87.11440445	82.35671112	77.88878407	73.6915258	69.74719055
210722A00001	7/22/2021	1.1	7/22/2026	100.9993475	99.93274469	98.88852498	97.86599	96.86447014	95.88332312	94.92193261	93.97970688	93.05607764
210722A00008	7/21/2023	1.84	7/22/2030	109.4031938	104.2432235	99.35701164	94.72861651	90.34310783	86.18649722	82.24567374	78.5083442	74.96297796
210722A00009	7/21/2023	1.96	7/22/2032	111.815987	104.634966	97.96461683	91.76598929	86.00329534	80.64363674	75.65675776	71.01482016	66.69219843
210729A00003	7/29/2021	1.11	7/29/2026	101.0370408	99.95101869	98.88818111	97.84779263	96.82914858	95.83157353	94.85441971	93.89706569	92.95891498

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
210729A00004	7/29/2021	1.74	7/29/2031	109.7369517	103.5694297	97.78674767	92.36292667	87.27387208	82.4972274	78.0122401	73.79963841	69.84151836
210729A00006	7/29/2021	1.87	11/30/2032	111.3849743	103.8778399	96.92890159	90.49382667	84.53201358	79.00626044	73.88246472	69.1293507	64.71822226
210802A00002	8/2/2021	0.7	8/1/2025	100.0276585	99.93893039	99.85036108	99.76195017	99.67369722	99.58560182	99.49766353	99.40988195	99.32225664
210803A00005	8/5/2021	2.06	8/4/2026	102.1147424	101.0058834	99.92101266	98.85935848	97.82018182	96.80277475	95.80645878	94.83058337	93.87452449
210804A00008	8/6/2021	2.28	8/4/2028	107.5037488	104.3463184	101.2984515	98.35571401	95.51387947	92.7689177	90.11698449	87.55441173	85.07769816
210809A00010	8/9/2021	1.06	8/7/2026	101.1071282	99.93855223	98.79718282	97.6820755	96.59232909	95.52708327	94.48551633	93.46684295	92.47031226
210809A00012	8/9/2021	1.06	8/7/2026	101.1071282	99.93855223	98.79718282	97.6820755	96.59232909	95.52708327	94.48551633	93.46684295	92.47031226
210809A00013	8/9/2021	1.05	8/7/2026	101.0846872	99.92586076	98.79393145	97.68796697	96.60707776	95.55041455	94.5171661	93.50655712	92.51784626
210809A00014	8/9/2021	1.06	8/7/2026	101.1071282	99.93855223	98.79718282	97.6820755	96.59232909	95.52708327	94.48551633	93.46684295	92.47031226
210809A00015	8/9/2021	1.06	8/7/2026	101.1071282	99.93855223	98.79718282	97.6820755	96.59232909	95.52708327	94.48551633	93.46684295	92.47031226
210817A00013	8/19/2021	2	8/19/2026	102.1459418	100.995511	99.87089328	98.77122726	97.69568963	96.6434929	95.61388354	94.60614014	93.61957174
210818A00007	8/18/2021	0.81	8/18/2025	100.0599533	99.92416727	99.78876607	99.65374803	99.51911147	99.38485473	99.25097615	99.11747409	98.98434691
210826A00009	8/26/2021	1.18	8/26/2026	101.2319306	100.0678589	98.93037213	97.81856848	96.73158654	95.66860299	94.62883058	93.61151612	92.61593871
210826A00013	8/26/2021	1.97	2/28/2033	112.3081902	104.529633	97.34591414	90.70844424	84.57284324	78.89855493	73.6484987	68.78875482	64.2882797
210907A00004	9/7/2021	2.01	9/7/2033	112.9332149	104.6403206	97.01929138	90.01215877	83.56624121	77.63363592	72.17076226	67.1379509	62.49907413
210907A00006	9/7/2021	2.1	9/7/2034	114.2812707	105.0010535	96.55262817	88.85696039	81.84291053	75.44640768	69.6097138	64.28076796	59.41260157
210907A00007	9/7/2021	2.35	9/4/2037	117.7380877	105.6140273	94.8783291	85.36369903	76.92382154	69.4306331	62.77196235	56.84948565	51.57695471
210907A00008	9/7/2021	2.42	9/7/2038	118.8281588	105.7839011	94.33862347	84.28630018	75.44847362	67.67044021	60.81798073	54.77455501	49.43889292
210907A00009	9/7/2021	2.5	9/7/2039	120.5290044	106.5436784	94.38081441	83.79083485	74.55960328	66.50323082	59.46366584	53.30494587	47.91000938
210907A00010	9/7/2021	2.58	9/7/2040	122.9644483	107.9869778	95.07259752	83.9224895	74.2826728	65.93707049	58.70167881	52.41965832	46.95719753
210907A00011	9/7/2021	2.65	9/6/2041	126.0381394	110.0118341	96.30734566	84.57056755	74.50331116	65.85421666	58.41118026	51.99503868	46.45429702
210907A00013	9/9/2021	2.14	9/9/2025	100.3423685	100.1454988	99.94941255	99.75410515	99.55957186	99.36580801	99.172809	98.98057023	98.78908716
210907A00014	9/9/2021	2.45	9/9/2026	102.8266069	101.6138814	100.4296852	99.27302034	98.14293496	97.03852066	95.95891002	94.90327432	93.8708214
210907A00015	9/9/2021	2.21	9/9/2026	102.5364155	101.3255488	100.143181	98.98831495	97.85999969	96.75732755	95.67943184	94.62548454	93.59469419
210913A00014	9/13/2021	1.15	9/13/2028	102.0699336	100.3485411	98.67414749	97.04508342	95.45975202	93.91662518	92.41424004	90.95119562	89.52614982
210913A00015	9/13/2021	1.08	9/14/2026	101.2274556	100.0014354	98.80139315	97.62650042	96.47596416	95.34902492	94.24495504	93.16305698	92.10266175
210914A00012	9/14/2021	1.18	9/14/2027	103.0020542	100.7906048	98.63726886	96.54009492	94.49721421	92.50683617	90.5672445	88.67679332	86.83390364
210914A00014	9/14/2021	0.97	9/14/2026	101.1400546	99.92309663	98.73519443	97.57531807	96.44248581	95.33576126	94.2542508	93.1971012	92.16349729
210914A00015	9/14/2021	0.81	9/15/2025	100.0983549	99.88515236	99.6728719	99.46150743	99.25105296	99.04150253	98.83285024	98.62509025	98.41821676
210914A00017	9/14/2021	1.32	9/14/2028	104.871096	101.6383729	98.52154245	95.51575763	92.61640729	89.81910281	87.1196657	84.51411593	81.99866113
210914A00018	9/14/2021	1.43	9/14/2029	106.6951901	102.4336372	98.36491805	94.47925236	90.76741382	87.22069536	83.83087654	80.59019332	77.49130983
210915A00024	9/15/2021	1.1	9/15/2026	101.2950834	100.0343853	98.8002857	97.59194394	96.40855505	95.24934783	94.11358304	93.0005518	91.90957394
210915A00025	9/15/2021	1.09	9/15/2026	101.2687828	100.0194402	98.79640501	97.59884637	96.42596878	95.27701009	94.15123972	93.04795706	91.96648989

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
210915A00026	9/15/2021	1.1	9/15/2026	101.2950834	100.0343853	98.8002857	97.59194394	96.40855505	95.24934783	94.11358304	93.0005518	91.90957394
210915A00027	9/15/2021	1.1	9/15/2026	101.2950834	100.0343853	98.8002857	97.59194394	96.40855505	95.24934783	94.11358304	93.0005518	91.90957394
210916A00008	9/16/2021	1.48	9/15/2028	105.1657753	101.9311735	98.8124456	95.80474732	92.90346987	90.10422688	87.40284194	84.79533701	82.27792154
210916A00009	9/16/2021	2.25	9/16/2036	116.5233878	105.3068704	95.28654477	86.32796583	78.31245518	71.13517911	64.70346979	58.9353576	53.75828707
210917A00004	9/17/2021	1.03	9/17/2025	100.1376972	99.91904286	99.70135594	99.48462993	99.2688584	99.05403498	98.84015337	98.62720732	98.41519063
210917A00008	9/17/2021	1.55	9/15/2028	105.3939768	102.1556627	99.0333212	96.02210455	93.11740068	90.31482008	87.61018333	84.9995095	82.47900527
210917A00012	9/17/2021	1.2	9/11/2026	101.3237189	100.1151275	98.93516751	97.78283174	96.65715962	95.55723469	94.48218203	93.43116597	92.40338789
210920A00014	9/9/2022	1.28	9/9/2026	101.4119241	100.2082599	99.03297704	97.88508157	96.76362553	95.66770425	94.59645388	93.54904916	92.52470126
210920A00015	9/9/2022	1.28	9/9/2026	101.4119241	100.2082599	99.03297704	97.88508157	96.76362553	95.66770425	94.59645388	93.54904916	92.52470126
210921A00006	9/21/2021	1.43	9/21/2028	104.8702371	101.7096564	98.66349573	95.72697006	92.89552251	90.16481219	87.53070263	84.98925087	82.53669725
210921A00009	9/21/2021	1.28	9/21/2028	104.6126431	101.4539981	98.40983227	95.47535319	92.64599736	89.91741779	87.2854724	84.74621304	82.2958753
210924A00003	9/24/2021	2.37	9/24/2036	117.8655066	106.556906	96.45416283	87.42164675	79.33965076	72.10244753	65.61659202	59.79943779	54.5778394
210924A00004	9/24/2021	2.37	9/24/2036	117.8655066	106.556906	96.45416283	87.42164675	79.33965076	72.10244753	65.61659202	59.79943779	54.5778394
210924A00005	9/24/2021	2.37	9/24/2036	117.8655066	106.556906	96.45416283	87.42164675	79.33965076	72.10244753	65.61659202	59.79943779	54.5778394
210924A00011	9/24/2021	2.19	9/25/2034	115.1447752	105.7797369	97.25711336	89.49653218	82.4256849	75.97947928	70.09928448	64.73225896	59.83075146
210928A00008	9/28/2021	1.35	9/28/2026	101.5854722	100.3284451	99.10230772	97.90593345	96.73824991	95.59823563	94.48491711	93.39736601	92.33469657
210928A00009	9/28/2021	2.18	9/28/2033	114.3830468	105.9769833	98.25486153	91.15736666	84.63062429	78.6256746	73.09799969	68.00709891	63.31610676
210928A00010	9/28/2021	1.12	9/26/2025	100.1765119	99.93296267	99.69060053	99.44941684	99.209403	98.97055051	98.73285095	98.49629597	98.2608773
211007A00006	10/7/2021	1.28	10/7/2026	101.6217359	100.3070678	99.01596102	97.74783444	96.50212546	95.27828954	94.07579933	92.89414408	91.73282895
211014A00012	10/14/2021	1.46	10/14/2031	105.0246187	101.7293054	98.58566209	95.58528087	92.72028467	89.98328998	87.36737252	84.86603551	82.47318033
211015A00031	10/15/2021	1.22	10/15/2025	100.2412896	99.94534011	99.65114881	99.35869999	99.06797811	98.77896779	98.49165387	98.20602132	97.92205533
211019A00009	10/19/2021	1.48	10/9/2026	101.8029408	100.5195216	99.26506511	98.0385914	96.83916456	95.66589041	94.51791417	93.39441825	92.29462028
211019A00011	10/19/2021	1.48	10/16/2026	101.8366579	100.5378882	99.26636604	98.02123902	96.8016906	95.60693808	94.43623095	93.28884912	92.16410144
211026A00012	10/26/2021	1.52	10/26/2026	101.9384127	100.6173229	99.32104458	98.04891111	96.80027964	95.5745302	94.37106464	93.18930562	92.02869575
211026A00013	10/26/2021	1.52	10/26/2026	101.9384127	100.6173229	99.32104458	98.04891111	96.80027964	95.5745302	94.37106464	93.18930562	92.02869575
211028A00012	10/28/2021	1.64	10/15/2027	104.0371149	101.7324887	99.49016497	97.30805927	95.18417242	93.11658635	91.1034601	89.14302614	87.23358678
211028A00013	10/28/2021	1.65	10/22/2027	104.0959102	101.7718247	99.51098994	97.31130828	95.1707657	93.08742788	91.05943643	89.08500539	87.16241785
211028A00020	10/28/2021	2.05	1/28/2031	111.1328556	105.4167782	100.0303753	94.95292014	90.16509566	85.64889124	81.38750765	77.36526924	73.56754308
211028A00021	10/28/2021	2.28	10/28/2033	115.2780571	106.7593197	98.93892106	91.75592536	85.15500389	79.08589317	73.50290814	68.3645043	63.63288363
211110A00012	11/10/2021	1.44	11/10/2026	101.9941063	100.5908861	99.21430972	97.86368159	96.53833009	95.23760632	93.96088314	92.70755432	91.47703362
211110A00013	11/10/2021	1.44	11/10/2026	101.9941063	100.5908861	99.21430972	97.86368159	96.53833009	95.23760632	93.96088314	92.70755432	91.47703362
211110A00014	11/10/2021	1.44	11/10/2026	101.9941063	100.5908861	99.21430972	97.86368159	96.53833009	95.23760632	93.96088314	92.70755432	91.47703362
211115A00032	11/15/2021	1.75	11/12/2027	104.4458275	102.060192	99.74087629	97.48567577	95.29247184	93.15922825	91.08398734	89.06486653	87.10005502

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
211119A00009	11/19/2021	1.68	11/19/2027	104.3156385	101.9122137	99.57611595	97.30508973	95.09696855	92.94967073	90.86119561	88.82961986	86.85309404
211123A00011	11/23/2021	1.69	11/23/2026	102.3278076	100.9296501	99.55731305	98.21014332	96.88750944	95.58880056	94.31342565	93.0608127	91.83040795
211123A00012	11/23/2021	2.27	11/23/2033	115.2522868	106.6669155	98.79093829	91.56197987	84.92344662	78.82396402	73.21687149	68.05976841	63.31410588
211129A00011	11/29/2021	1.53	11/20/2026	102.084807	100.6967247	99.33414265	97.99641939	96.6829344	95.39308737	94.12629734	92.88200197	91.65965673
211129A00012	11/29/2021	1.53	11/25/2026	102.1118681	100.7097941	99.33370631	97.98294521	96.65687323	95.3548737	94.07635003	92.82072487	91.5874394
211206A00009	12/6/2021	1.43	12/5/2025	100.4587351	100.0220043	99.58906567	99.15986993	98.73436865	98.31251425	97.89425994	97.47955973	97.06836844
211206A00010	12/6/2021	1.54	12/4/2026	102.1734277	100.7464418	99.34633162	97.9724042	96.62399007	95.30044206	94.00113443	92.72546196	91.47283913
211206A00017	12/6/2021	1.56	12/4/2026	102.2023841	100.7751793	99.37485397	98.00071512	96.65209316	95.32834081	94.02883225	92.75296216	91.50014494
211207A00011	12/7/2021	1.62	12/1/2026	102.2734905	100.8537437	99.46058903	98.09334451	96.75135119	95.43397193	94.14059057	92.87061107	91.62345664
211207A00012	12/7/2021	1.62	12/4/2026	102.2892533	100.8613917	99.46042101	98.08564788	96.73640242	95.41203707	94.11192571	92.83546277	91.58206238
211208A00012	12/8/2021	1.62	12/8/2026	102.3972383	100.9169121	99.46593584	98.04350592	96.64884788	95.28121478	93.93988609	92.62416645	91.3333846
211208A00013	12/8/2021	1.63	12/8/2026	102.429702	100.9397201	99.47930434	98.04764544	96.64396321	95.26750524	93.91754569	92.59338407	91.29434416
211209A00006	12/9/2021	1.61	12/8/2026	102.2956821	100.857109	99.44582516	98.06112212	96.70231531	95.3687432	94.05976633	92.77476637	91.51314526
211209A00007	12/9/2021	1.61	12/8/2026	102.2956821	100.857109	99.44582516	98.06112212	96.70231531	95.3687432	94.05976633	92.77476637	91.51314526
211210A00014	12/10/2021	1.54	12/10/2025	100.5244832	100.0738495	99.62725631	99.18464945	98.74597554	98.31118222	97.88021804	97.45303247	97.02957587
211210A00015	12/10/2021	1.63	12/10/2026	102.3354256	100.891217	99.47450268	98.08456624	96.72071563	95.38228218	94.06861957	92.77910295	91.51312802
211210A00016	12/10/2021	1.76	12/10/2027	104.623668	102.1592134	99.76532853	97.43959483	95.17969171	92.98339163	90.84855587	88.77313039	86.75514194
211214A00015	12/14/2021	1.49	12/12/2025	100.5085994	100.0525151	99.60057114	99.15271108	98.70887964	98.26902251	97.83308635	97.40101878	96.97276835
211217A00021	12/21/2021	2.44	12/18/2026	103.5819093	102.1067132	100.6599845	99.24097079	97.84894587	96.48320827	95.14308038	93.8279074	92.53705636
211221A00023	12/21/2021	1.53	6/19/2026	101.2984584	100.3207588	99.36184587	98.42118224	97.49825083	96.59255395	95.70361238	94.83096452	93.9741656
211221A00025	12/21/2021	1.59	12/21/2026	102.3337376	100.860206	99.41527699	97.99819099	96.60821484	95.24464063	93.90678456	92.59398599	91.30560639
211222A00035	12/22/2021	2.15	12/22/2033	114.2850885	105.6660646	97.76636884	90.52215645	83.87555523	77.77407911	72.17010203	67.02038553	62.28565449
211227A00005	12/27/2021	1.61	12/18/2026	102.3479548	100.8823146	99.44497486	98.03518788	96.65223178	95.29540938	93.96404718	92.65749433	91.37512168
211227A00009	12/27/2021	1.6	12/23/2026	102.3590881	100.8800239	99.42976907	98.00755603	96.61264394	95.24431754	93.90188604	92.58468209	91.29206078
220104A00006	1/4/2022	1.76	1/4/2029	106.3564582	103.0396171	99.85002719	96.78204134	93.83029766	90.98970337	88.25541957	85.62284692	83.08761228
220106A00007	1/6/2022	2.42	1/6/2034	116.6267734	107.8725972	99.84978622	92.49326161	85.74405239	79.54869346	73.8586858	68.63001204	63.82270153
220106A00008	1/6/2022	2.5	1/5/2035	118.2579931	108.4945359	99.6293467	91.57473338	84.25199227	77.59044516	71.52658384	66.0033097	60.96925741
220106A00009	1/6/2022	2.57	1/4/2036	119.7528446	108.9961394	99.31848915	90.60534944	82.75489702	75.67655842	69.28971549	63.52256561	58.31111743
220106A00010	1/6/2022	2.64	1/6/2037	120.9799188	109.25107	98.79556372	89.46741682	81.13810533	73.69439658	67.03646002	61.07621984	55.73591721
220106A00011	1/6/2022	2.7	1/6/2038	122.0833888	109.4120262	98.21847283	88.32098676	79.56108784	71.80047432	64.91836163	58.80918377	53.38060624
220106A00013	1/6/2022	2.75	1/6/2039	123.3271549	109.7201979	97.80735182	87.36638249	78.2053413	70.15830002	63.08170466	56.85125594	51.35923823
220106A00018	1/10/2022	3.11	1/8/2032	119.0322545	112.1370337	105.6943676	99.67209244	94.04049313	88.77210463	83.84153039	79.22527639	74.90159932
220106A00019	1/10/2022	3.17	1/7/2033	121.3209767	113.3502878	105.9717344	99.13802248	92.80587289	86.93566086	81.49108981	76.4388958	71.74857961

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
220111A00002	1/11/2022	1.75	1/16/2026	100.7741963	100.2212093	99.67428675	99.13332924	98.59823938	98.06892192	97.54528368	97.02723348	96.51468209
220112A00004	1/12/2022	1.55	1/12/2026	100.6855962	100.1434075	99.60705393	99.0764415	98.55147824	98.0320741	97.51814098	97.00959261	96.50634455
220112A00005	1/12/2022	1.55	1/12/2026	100.6855962	100.1434075	99.60705393	99.0764415	98.55147824	98.0320741	97.51814098	97.00959261	96.50634455
220114A00007	1/14/2022	1.7	1/27/2026	100.7919954	100.2087427	99.63222274	99.06231944	98.49891939	97.94191176	97.39118822	96.84664288	96.30817222
220114A00009	1/14/2022	1.74	4/21/2026	101.2011244	100.3858201	99.58361009	98.79418071	98.01722838	97.25245901	96.49958771	95.75833842	95.02844355
220114A00010	1/14/2022	1.86	1/13/2027	102.8756783	101.3362667	99.82763239	98.34892603	96.89932916	95.47805272	94.08433576	92.71744414	91.37666935
220121A00013	1/21/2022	1.78	11/3/2025	100.4824542	100.1336835	99.78733119	99.44337207	99.10178144	98.76253487	98.42560828	98.09097794	97.75862042
220121A00014	1/21/2022	1.78	11/3/2025	100.4824542	100.1336835	99.78733119	99.44337207	99.10178144	98.76253487	98.42560828	98.09097794	97.75862042
220124A00007	1/24/2022	1.88	1/22/2027	102.9620996	101.3978004	99.86505064	98.36296711	96.89069931	95.4474278	94.03236279	92.64474281	91.28383342
220124A00008	1/24/2022	1.88	1/22/2027	102.9620996	101.3978004	99.86505064	98.36296711	96.89069931	95.4474278	94.03236279	92.64474281	91.28383342
220125A00010	1/25/2022	1.89	1/25/2027	102.9964383	101.4237913	99.88295461	98.37303365	96.89316705	95.44252511	94.02030831	92.62574596	91.25809486
220126A00002	1/26/2022	1.9	12/18/2026	102.7790955	101.3101165	99.86949629	98.45648553	97.0703608	95.71042345	94.37599854	93.06643383	91.78109885
220126A00003	1/26/2022	1.9	12/18/2026	102.7790955	101.3101165	99.86949629	98.45648553	97.0703608	95.71042345	94.37599854	93.06643383	91.78109885
220131A00003	1/31/2022	1.98	2/1/2027	103.1857318	101.5923973	100.0315149	98.50216218	97.00345134	95.53452763	94.09456783	92.68277876	91.29839587
220131A00006	1/31/2022	1.83	2/1/2027	103.0569066	101.4627272	99.90104994	98.37095015	96.871538	95.4019568	93.9613815	92.54901718	91.16409765
220201A00011	2/1/2022	1.86	4/20/2026	101.2940906	100.4811166	99.68115463	98.8938941	98.11903426	97.35628377	96.60536037	95.86599051	95.137909
220203A00009	2/3/2022	1.99	2/2/2027	103.2093668	101.6128589	100.0489048	98.51657765	97.01498539	95.54326933	94.10060249	92.68618812	91.2992583
220204A00004	2/4/2022	2.08	1/8/2027	103.1851713	101.6567051	100.158643	98.69015294	97.25043273	95.83870866	94.45423435	93.09628945	91.76417856
220209A00010	2/9/2022	2.14	1/11/2027	103.2984502	101.7610012	100.2542224	98.77727045	97.32933215	95.90962354	94.51738845	93.15189728	91.81244578
220209A00011	2/9/2022	2.14	1/11/2027	103.2984502	101.7610012	100.2542224	98.77727045	97.32933215	95.90962354	94.51738845	93.15189728	91.81244578
220209A00012	2/9/2022	1.98	7/29/2025	100.1238076	100.0433517	99.96302841	99.88283733	99.80277817	99.72285061	99.64305434	99.56338903	99.48385438
220209A00013	2/9/2022	1.98	7/29/2025	100.1238076	100.0433517	99.96302841	99.88283733	99.80277817	99.72285061	99.64305434	99.56338903	99.48385438
220214A00010	2/14/2022	2.46	12/21/2029	111.3879673	106.7662114	102.3639852	98.16971529	94.17249883	90.36206097	86.7287155	83.263328	79.95728153
220214A00012	2/14/2022	2.47	12/28/2029	111.4737495	106.8311336	102.4099001	98.1983309	94.18538975	90.36067869	86.71439796	83.2373083	79.92069604
220216A00003	2/16/2022	2.49	12/14/2029	111.48368	106.8787148	102.4915733	98.31082001	94.32567867	90.52599139	86.90217963	83.44520827	80.14655189
220217A00012	2/17/2022	2.28	2/16/2027	103.7941233	102.1509369	100.5417872	98.96568311	97.42167178	95.90883698	94.42629728	92.97320436	91.54874144
220217A00015	2/17/2022	2.28	2/16/2027	103.7941233	102.1509369	100.5417872	98.96568311	97.42167178	95.90883698	94.42629728	92.97320436	91.54874144
220217A00016	2/17/2022	2.24	9/15/2026	102.6155782	101.3876227	100.1889579	99.01854508	97.87539429	96.75856135	95.66714522	94.6002856	93.55716063
220217A00017	2/17/2022	2.27	1/29/2027	103.6303765	102.0417071	100.4852852	98.96019858	97.46556889	96.00055048	94.56432862	93.15611817	91.77516221
220217A00018	2/17/2022	2.28	2/17/2027	103.8024515	102.1562075	100.5441026	98.96514094	97.41836559	95.90285622	94.4177276	92.96212777	91.53523653
220217A00027	2/16/2024	2.56	2/17/2032	115.5471142	108.6546356	102.2231903	96.21947585	90.61276526	85.374695	80.47907095	75.90169164	71.6201866
220218A00003	2/18/2022	2.16	9/4/2026	102.4413315	101.2448769	100.0762629	98.93452677	97.81874947	96.72805354	95.66160066	94.6185895	93.59825368
220222A00018	2/22/2022	2.5	12/19/2031	114.9321305	108.2219384	101.9512745	96.08904469	90.60650777	85.47708639	80.67619344	76.18107349	71.97065753

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
220224A00018	2/24/2022	2.15	3/16/2026	101.3235194	100.6065494	99.89971097	99.20279036	98.51557971	97.83787694	97.16948558	96.51021453	95.85987788
220224A00023	2/24/2022	2.15	3/16/2026	101.3235194	100.6065494	99.89971097	99.20279036	98.51557971	97.83787694	97.16948558	96.51021453	95.85987788
220225A00014	2/25/2022	2.42	2/23/2029	109.3231495	105.5723424	101.9709853	98.51227816	95.18977213	91.99734897	88.92920207	85.97981845	83.14396208
220225A00015	2/25/2022	2.26	2/25/2027	103.8355203	102.165092	100.5296225	98.92807969	97.35947209	95.82284696	94.3172883	92.84191511	91.39587969
220301A00013	3/1/2022	2.01	2/16/2027	103.3477174	101.7083454	100.1029415	98.53051633	96.99011889	95.48083474	94.00178415	92.55212045	91.13102842
220301A00015	3/1/2022	2	1/4/2027	103.0356896	101.5191728	100.0327078	98.57547768	97.14669459	95.7455985	94.37145596	93.02355892	91.70122365
220302A00010	3/2/2022	2.14	1/13/2027	103.3121696	101.7692265	100.2571232	98.77500859	97.32206262	95.89749464	94.50054212	93.13046947	91.78656673
220302A00011	3/2/2022	2.14	1/13/2027	103.3121696	101.7692265	100.2571232	98.77500859	97.32206262	95.89749464	94.50054212	93.13046947	91.78656673
220304A00004	3/4/2022	2.12	12/29/2028	107.8653128	104.2993187	100.8708344	97.57382082	94.4025378	91.35152766	88.41559961	85.58981514	82.86947432
220308A00012	3/8/2022	2.51	3/8/2032	113.068985	107.2424372	101.7879265	96.67905977	91.89147282	87.40266328	83.19183788	79.23977316	75.5286883
220309A00010	3/9/2022	2.27	3/8/2027	103.9342527	102.2324728	100.56677	98.93606179	97.33930953	95.77551577	94.24372235	92.74300834	91.27248827
220310A00009	3/10/2022	2.31	3/10/2027	104.1057738	102.3656058	100.663595	98.99859801	97.36951662	95.7752954	94.21491964	92.68741336	91.19183742
220310A00010	3/10/2022	2.31	3/10/2027	104.1057738	102.3656058	100.663595	98.99859801	97.36951662	95.7752954	94.21491964	92.68741336	91.19183742
220311A00013	3/15/2022	2.35	3/15/2027	104.1224399	102.4001426	100.7146554	99.06486322	97.44969638	95.86812831	94.31917326	92.80188423	91.31535109
220314A00004	3/14/2022	2.44	3/12/2027	104.2551862	102.539795	100.8609332	99.21749894	97.60843498	96.03272634	94.48939829	92.97751422	91.4961738
220314A00007	3/14/2022	2.44	3/12/2027	104.2551862	102.539795	100.8609332	99.21749894	97.60843498	96.03272634	94.48939829	92.97751422	91.4961738
220314A00008	3/14/2022	2.38	7/28/2025	100.1507462	100.0730367	99.99545321	99.91799525	99.84066259	99.7634549	99.68637191	99.6094133	99.5325788
220314A00009	3/14/2022	2.38	7/28/2025	100.1507462	100.0730367	99.99545321	99.91799525	99.84066259	99.7634549	99.68637191	99.6094133	99.5325788
220315A00014	3/15/2022	2.78	3/15/2032	117.1448211	110.1255204	103.5793364	97.47180252	91.77114263	86.44804728	81.47546914	76.8284367	72.48388434
220315A00015	3/15/2022	3.18	3/13/2037	127.3262454	115.0754177	104.1618488	94.43085178	85.74643532	77.98895503	71.05307095	64.8459695	59.28581454
220315A00018	3/15/2022	2.43	3/15/2027	104.2607124	102.5371836	100.8504874	99.19950803	97.58317537	96.00046219	94.45038219	92.93198783	91.44436845
220315A00036	3/17/2022	2.63	3/16/2027	104.6145258	102.8851443	101.1927543	99.53623383	97.91450676	96.32654032	94.77134291	93.24796195	91.75548198
220315A00037	3/17/2022	2.63	3/16/2027	104.6145258	102.8851443	101.1927543	99.53623383	97.91450676	96.32654032	94.77134291	93.24796195	91.75548198
220317A00026	5/3/2022	2.59	5/3/2027	104.9374645	103.0727531	101.2503167	99.46895209	97.72749796	96.02483305	94.35987459	92.73157673	91.13892902
220317A00027	5/3/2022	2.59	5/3/2027	104.9374645	103.0727531	101.2503167	99.46895209	97.72749796	96.02483305	94.35987459	92.73157673	91.13892902
220317A00028	5/3/2022	2.59	5/3/2027	104.9374645	103.0727531	101.2503167	99.46895209	97.72749796	96.02483305	94.35987459	92.73157673	91.13892902
220324A00015	3/24/2022	2.79	3/3/2026	101.6851196	101.0024842	100.329002	99.66448959	99.00876871	98.36166568	97.72301139	97.09264113	96.47039445
220325A00012	3/28/2022	2.85	3/23/2026	101.8804253	101.1419511	100.4141761	99.69686891	98.98980458	98.29276474	97.60553715	96.92791551	96.2596993
220325A00015	3/28/2022	2.86	3/23/2027	105.074101	103.321664	101.6070068	99.92897289	98.28645357	96.6783852	95.103747	93.56155884	92.05087914
220325A00017	3/28/2022	2.86	3/23/2027	105.074101	103.321664	101.6070068	99.92897289	98.28645357	96.6783852	95.103747	93.56155884	92.05087914
220325A00018	3/28/2022	2.85	9/10/2026	103.3190992	102.1004466	100.9105052	99.74826894	98.61277812	97.50311702	96.41841131	95.35782572	94.32056192
220325A00019	3/28/2022	2.86	3/23/2027	105.074101	103.321664	101.6070068	99.92897289	98.28645357	96.6783852	95.103747	93.56155884	92.05087914
220325A00020	3/28/2022	2.86	3/23/2027	105.074101	103.321664	101.6070068	99.92897289	98.28645357	96.6783852	95.103747	93.56155884	92.05087914

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
220329A00007	3/29/2022	2.94	3/29/2029	111.5256465	107.6395205	103.9110943	100.3330425	96.8984279	93.60067745	90.43356102	87.39117096	84.46790317
220329A00009	3/29/2022	2.94	3/29/2029	111.5256465	107.6395205	103.9110943	100.3330425	96.8984279	93.60067745	90.43356102	87.39117096	84.46790317
220331A00010	3/31/2022	2.83	2/18/2026	101.6155432	100.9689661	100.3306143	99.70033128	99.07796471	98.46336596	97.85639012	97.25689587	96.66474539
220401A00009	4/1/2022	2.98	4/1/2027	105.3663891	103.5868163	101.8460059	100.1427628	98.47594135	96.84444299	95.24721363	93.68324143	92.1515546
220404A00010	4/4/2022	2.93	4/2/2027	105.2868259	103.5051859	101.7624044	100.0572869	98.3886881	96.7555096	95.15669718	93.59123867	92.05816175
220404A00014	4/4/2022	2.94	4/5/2027	105.3323558	103.5419132	101.7906663	100.0774211	98.40103218	96.7604001	95.15446903	93.58222457	92.04269165
220407A00014	4/7/2022	3.14	4/6/2029	110.6780276	107.2811918	104.0181911	100.8829368	97.86965131	94.97285063	92.18732797	89.5081381	86.93058279
220407A00017	4/7/2022	3.16	4/6/2029	111.364668	107.7699056	104.3194728	101.006741	97.82542227	94.76954977	91.83345985	89.01177495	86.29938758
220408A00012	4/8/2022	3.12	6/29/2026	102.9507776	101.936662	100.9425077	99.96772929	99.01176451	98.07407242	97.15413271	96.25144464	95.36552615
220408A00013	4/8/2022	3.15	1/14/2027	104.8963215	103.3378486	101.8105267	100.313495	98.84592373	97.40701316	95.99599202	94.61211632	93.25466809
220408A00014	4/8/2022	3.12	6/29/2026	102.9507776	101.936662	100.9425077	99.96772929	99.01176451	98.07407242	97.15413271	96.25144464	95.36552615
220411A00002	4/11/2022	3.18	4/9/2027	105.8008509	103.9948941	102.2286547	100.5009378	98.81059534	97.15652478	95.53766613	93.95300016	92.40154633
220411A00008	4/11/2022	3.02	4/12/2027	105.7717963	103.9260953	102.1224952	100.3597827	98.6367876	96.95238076	95.30547244	93.69501063	92.11997955
220412A00010	4/12/2022	3.09	3/15/2027	105.4014613	103.6677718	101.971101	100.3103278	98.68437701	97.0922167	95.53285586	94.00534251	92.50876167
220412A00016	4/12/2022	3.09	3/19/2027	105.4391044	103.6942295	101.986786	100.3156343	98.6796815	97.07787908	95.50922036	93.97273854	92.46750459
220412A00017	4/12/2022	3.09	3/19/2027	105.4391044	103.6942295	101.986786	100.3156343	98.6796815	97.07787908	95.50922036	93.97273854	92.46750459
220412A00018	4/12/2022	3.09	3/15/2027	105.4014613	103.6677718	101.971101	100.3103278	98.68437701	97.0922167	95.53285586	94.00534251	92.50876167
220418A00015	4/22/2022	3.03	7/28/2025	100.2013325	100.1235811	100.0459556	99.96845578	99.8910813	99.81383188	99.73670722	99.65970701	99.58283097
220418A00016	4/22/2022	3.11	9/15/2026	103.6820041	102.4471318	101.2416644	100.0645603	98.91482645	97.79151572	96.69372429	95.62058917	94.57128589
220419A00015	4/19/2022	3.14	4/17/2026	102.3115202	101.5022907	100.7058633	99.92193581	99.15021523	98.3904178	97.64226845	96.90550056	96.17985557
220419A00016	4/19/2022	3.21	4/19/2027	105.9548003	104.1193651	102.3247905	100.5698825	98.85349125	97.17450967	95.53187114	93.92454773	92.35154848
220420A00032	4/20/2022	3.26	10/16/2026	104.1716599	102.8567632	101.5693939	100.3086915	99.07383172	97.86402455	96.67851231	95.51656808	94.37749415
220420A00033	4/20/2022	3.29	4/20/2027	106.1110825	104.271373	102.4726642	100.7137612	98.9935135	97.31081272	95.6645909	94.0538186	92.47750318
220420A00034	6/15/2022	3.3	6/15/2027	106.6869848	104.6872866	102.735496	100.8301689	98.96991453	97.1533933	95.3793146	93.64643453	91.95355391
220420A00037	6/15/2022	3.3	6/15/2027	106.6869848	104.6872866	102.735496	100.8301689	98.96991453	97.1533933	95.3793146	93.64643453	91.95355391
220420A00061	6/15/2022	3.3	6/15/2027	106.6869848	104.6872866	102.735496	100.8301689	98.96991453	97.1533933	95.3793146	93.64643453	91.95355391
220421A00012	4/21/2022	3.31	4/21/2026	102.4856601	101.6646106	100.8567199	100.0616734	99.2791661	98.50890288	97.75059772	97.00397344	96.2687614
220421A00013	4/21/2022	3.33	9/15/2026	103.951675	102.7150536	101.5078661	100.3290699	99.17767136	98.05272257	96.953319	95.87859697	94.82773136
220421A00016	4/21/2022	3.31	4/21/2026	102.4856601	101.6646106	100.8567199	100.0616734	99.2791661	98.50890288	97.75059772	97.00397344	96.2687614
220422A00014	4/22/2022	3.36	9/29/2026	104.1320501	102.8552529	101.6097683	100.3944545	99.20822439	98.05004271	96.91892274	95.81392361	94.73414763
220425A00026	4/25/2022	3.13	2/25/2026	101.8669831	101.2001899	100.5421189	99.89259986	99.2514668	98.61855803	97.993716	97.37678718	96.76762189
220425A00027	4/29/2022	3.15	8/20/2026	103.4791539	102.3177901	101.1824895	100.0723814	98.98663367	97.92445025	96.88506958	95.86776257	94.87183097
220425A00028	4/29/2022	3.16	4/23/2027	105.9029687	104.0567946	102.2519232	100.4871608	98.76135737	97.07340411	95.42223192	93.80680959	92.22614215

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
220426A00004	4/26/2022	3.41	4/26/2032	121.6755787	114.3897908	107.5996446	101.2687151	95.36343497	89.85285655	84.70843483	79.90382947	75.41472408
220427A00011	4/29/2022	3.15	4/29/2027	105.9436208	104.0802169	102.2588042	100.4781892	98.73722016	97.03478507	95.36981025	93.74125869	92.14812853
220428A00019	4/28/2022	3.27	4/28/2027	106.1558734	104.293261	102.4725638	100.6925872	98.95217875	97.25022592	95.58565485	93.95742858	92.36454552
220429A00002	4/29/2022	3.63	4/29/2032	123.2159527	115.8698635	109.0230783	102.6389139	96.68356372	91.12585818	85.93704677	81.09059879	76.5620215
220506A00016	5/6/2022	3.35	5/6/2027	106.3844838	104.4977823	102.6539707	100.8518232	99.09015714	97.36783088	95.68374209	94.03682622	92.42605494
220509A00013	7/15/2022	3.37	7/15/2027	107.1299088	105.0425657	103.0068754	101.021221	99.08404825	97.1938626	95.34922641	93.54875639	91.79112106
220509A00014	7/15/2022	3.37	7/15/2027	107.1299088	105.0425657	103.0068754	101.021221	99.08404825	97.1938626	95.34922641	93.54875639	91.79112106
220509A00016	7/15/2022	3.37	7/15/2027	107.1299088	105.0425657	103.0068754	101.021221	99.08404825	97.1938626	95.34922641	93.54875639	91.79112106
220510A00015	5/13/2022	3.13	11/3/2025	100.9545267	100.6047378	100.2573724	99.91240535	99.56981198	99.22956777	98.89164861	98.5560307	98.2269059
220510A00016	5/13/2022	3.23	5/5/2027	106.150097	104.2683594	102.4293512	100.6318529	98.87468781	97.15671982	95.47685206	93.83402515	92.22721566
220511A00015	5/11/2022	3.29	5/11/2027	106.3210756	104.4214089	102.5652122	100.7512348	98.9782705	97.24515498	95.55076448	93.89401396	92.27385556
220512A00013	5/12/2022	3.18	5/12/2027	106.1230052	104.2225416	102.3656302	100.5510166	98.77749048	97.04388396	95.34906981	93.69195968	92.07150261
220518A00009	5/18/2022	3.38	5/18/2028	110.2208905	107.2374398	104.3510549	101.5580577	98.85493005	96.2383058	93.70496344	91.251819	88.87591942
220519A00010	5/19/2022	3.15	11/19/2026	104.3573918	102.9553465	101.5789941	100.2276885	98.90080489	97.59773884	96.31790532	95.06073808	93.82568882
220520A00006	5/20/2022	3.02	5/20/2027	106.0310659	104.1060931	102.2271641	100.3928833	98.60190739	96.85294297	95.14474423	93.47611087	91.84588612
220526A00010	5/26/2022	3	5/26/2026	102.5312432	101.6133094	100.7117981	99.82627147	98.95630691	98.10149668	97.26144717	96.4357783	95.62412295
220526A00011	5/26/2022	3.29	5/24/2029	113.355139	109.2772967	105.3705684	101.6268784	98.03857417	94.59840246	91.29948595	88.13530196	85.09966227
220527A00014	5/27/2022	2.99	5/27/2026	102.5306738	101.609979	100.7058039	99.81770647	98.94526073	98.08805542	97.24569361	96.41779206	95.60398064
220527A00015	5/27/2022	3.03	5/27/2027	105.9756404	104.0359213	102.1415249	100.29112	98.48342343	96.71719794	94.99125016	93.30442879	91.65562284
220601A00038	6/3/2022	3.69	5/28/2032	123.8181839	116.3723671	109.4375754	102.9758921	96.95240361	91.33494662	86.09387852	81.20186772	76.63370249
220602A00039	6/2/2022	3.11	6/2/2027	106.3256437	104.3634129	102.4474215	100.5762994	98.74872647	96.96343013	95.2191835	93.51480334	91.84914821
220615A00010	6/15/2022	3.86	6/15/2027	107.7981682	105.7872002	103.824359	101.9081941	100.037309	98.2103581	96.42604537	94.6831215	92.98038216
220622A00006	6/22/2022	3.58	6/22/2027	107.3183066	105.2925066	103.3156694	101.3863049	99.50297893	97.6643106	95.86896992	94.11567556	92.40319269
220623A00005	6/23/2022	3.45	6/23/2027	107.0682791	105.0422271	103.0652213	101.135767	99.25242563	97.4138121	95.61859251	93.8654818	92.15324163
220624A00003	6/24/2022	3.5	6/24/2027	107.1792017	105.1491994	103.1683992	101.2352996	99.34845584	97.50647661	95.70802226	93.95180221	92.23657288
220624A00016	6/24/2022	3.34	6/24/2026	103.1939891	102.1914143	101.2083229	100.2441504	99.2983544	98.37041271	97.45982293	96.56610133	95.68878204
220624A00033	6/24/2022	3.5	6/24/2027	107.1792017	105.1491994	103.1683992	101.2352996	99.34845584	97.50647661	95.70802226	93.95180221	92.23657288
220627A00055	6/27/2022	3.55	6/26/2026	103.3538449	102.3458693	101.3575656	100.3883616	99.43770713	98.50507306	97.58995018	96.6918483	95.8102954
220628A00034	6/28/2022	3.61	6/28/2027	107.4438379	105.3998493	103.4056528	101.4597209	99.56058393	97.70682718	95.89708859	94.13005636	92.40446667
220628A00044	8/15/2022	3.6	8/13/2027	107.9148885	105.7396972	103.6196527	101.5529727	99.5379471	97.5729341	95.65635697	93.78670094	91.96251016
220628A00052	8/15/2022	3.6	8/13/2027	107.9148885	105.7396972	103.6196527	101.5529727	99.5379471	97.5729341	95.65635697	93.78670094	91.96251016
220628A00053	8/15/2022	3.6	8/13/2027	107.9148885	105.7396972	103.6196527	101.5529727	99.5379471	97.5729341	95.65635697	93.78670094	91.96251016
220629A00003	6/29/2022	3.59	6/29/2027	107.4142775	105.3677764	103.371196	101.4230028	99.52172132	97.66593164	95.85426652	94.08540927	92.35809148

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
220629A00034	6/29/2022	3.51	6/29/2027	103.6206496	102.5582602	101.5167043	100.4953864	99.4937334	98.51119397	97.5472372	96.60135173	95.67304489
220630A00036	6/30/2022	3.42	6/30/2027	107.0807074	105.0348402	103.0389604	101.0915305	99.19107095	97.33615802	95.52542093	93.75753966	92.03124259
220630A00045	6/30/2022	3.39	6/30/2026	103.2332152	102.2147935	101.2164608	100.2376269	99.27772446	98.33620809	97.41255307	96.50625449	95.61682634
220701A00049	7/1/2022	3.19	7/1/2025	100.0111461	100.0083669	100.0055902	100.0028158	100.0000439	99.99727445	99.99450737	99.9917427	99.98898044
220701A00050	7/1/2022	3.26	7/1/2027	106.7662752	104.7209366	102.7256306	100.7788163	98.87901095	97.02478793	95.21477371	93.44764567	91.7221298
220705A00011	7/5/2022	3.14	7/7/2025	100.0551578	100.0357075	100.0162774	99.9968675	99.97747771	99.95810803	99.93875841	99.91942882	99.90011922
220706A00032	7/6/2022	3.15	7/6/2027	106.7366353	104.6752009	102.6644586	100.7028362	98.7888218	96.92096105	95.09785422	93.31815388	91.58056254
220707A00041	7/7/2022	3.41	7/7/2025	100.0603602	100.0409085	100.021477	100.0020656	99.98267429	99.96330308	99.9439519	99.92462072	99.90530951
220711A00021	7/11/2022	3.27	7/11/2025	100.0903179	100.0597358	100.0291892	99.99867775	99.96820153	99.93776044	99.9073544	99.87698336	99.84664723
220712A00016	7/15/2022	3.35	1/15/2026	101.653271	101.1002586	100.5532724	100.012214	99.47698733	98.9474982	98.42365451	97.90536612	97.3925448
220715A00001	7/15/2022	3.44	7/15/2027	107.2746496	105.1857802	103.148594	101.1614732	99.22286263	97.33126698	95.48524783	93.68342113	91.9244547
220715A00027	7/15/2022	3.44	7/15/2027	107.2746496	105.1857802	103.148594	101.1614732	99.22286263	97.33126698	95.48524783	93.68342113	91.9244547
220715A00047	7/15/2022	3.44	7/15/2027	107.2746496	105.1857802	103.148594	101.1614732	99.22286263	97.33126698	95.48524783	93.68342113	91.9244547
220719A00004	7/19/2022	3.46	7/19/2027	107.3571443	105.256461	103.2079256	101.2098984	99.26080366	97.35912638	95.50340967	93.692252	91.92430461
220722A00036	7/22/2022	3.34	7/22/2025	100.1770673	100.1159613	100.054944	99.99401523	99.93317485	99.87242263	99.81175838	99.75118191	99.69069302
220722A00044	9/1/2022	3.23	9/1/2027	107.3032508	105.0826588	102.9193514	100.811439	98.75711067	96.7546294	94.80232897	92.89861014	91.04193743
220722A00049	9/15/2022	3.25	9/15/2025	100.6085008	100.3946817	100.1817851	99.96980497	99.75873529	99.54857015	99.33930368	99.13093005	98.92344347
220722A00050	9/15/2022	3.25	9/15/2025	100.6085008	100.3946817	100.1817851	99.96980497	99.75873529	99.54857015	99.33930368	99.13093005	98.92344347
220722A00051	9/15/2022	3.23	9/15/2027	107.4415646	105.1799955	102.9775781	100.8323301	98.74235272	96.70582673	94.72100822	92.78622479	90.8998719
220727A00004	7/27/2022	3.23	7/27/2027	106.9561737	104.8378866	102.7725634	100.7585238	98.79415321	96.8779006	95.00827478	93.18384188	91.40322261
220727A00009	7/27/2022	3.31	7/28/2025	100.2231235	100.145354	100.0677105	99.99019262	99.91280014	99.83553273	99.75839012	99.68137199	99.60447806
220727A00027	7/27/2022	3.23	7/27/2027	106.9561737	104.8378866	102.7725634	100.7585238	98.79415321	96.8779006	95.00827478	93.18384188	91.40322261
220727A00035	10/24/2022	3.33	10/24/2029	114.8555471	110.3185226	105.988925	101.8561748	97.91028785	94.14183905	90.54192758	87.10214514	83.81454609
220727A00049	7/27/2022	3.31	7/25/2025	100.1996217	100.1301792	100.0608434	99.99161409	99.92249101	99.85347393	99.7845626	99.71575678	99.64705623
220729A00035	8/3/2022	3.14	8/3/2027	106.8327989	104.6967261	102.614392	100.5840781	98.60413456	96.6729763	94.78908041	92.95098297	91.15727632
220729A00043	7/29/2022	3.04	7/29/2027	106.5751964	104.4555342	102.3889805	100.3738463	98.40850921	96.49141056	94.62105213	92.79599341	91.01484888
220729A00045	7/29/2022	3.03	7/29/2027	106.5541296	104.4346935	102.3683615	100.3534444	98.3883203	96.47143041	94.60127671	92.77641878	90.99547121
220729A00047	7/29/2022	3.06	1/29/2027	104.8970178	103.2978251	101.7310678	100.1958285	98.69122381	97.21640333	95.77054768	94.35286725	92.96260079
220801A00066	8/1/2022	2.93	7/30/2027	106.5407037	104.4036174	102.3212091	100.2916833	98.31331881	96.38446476	94.5035371	92.66901531	90.8794393
220802A00009	8/2/2022	3	8/2/2027	106.5269239	104.396879	102.3203904	100.2957472	98.32130641	96.39549002	94.51678145	92.68372291	90.8949125
220804A00023	8/4/2022	3.19	8/4/2027	106.9483487	104.8082983	102.7221279	100.6881127	98.70459679	96.76998945	94.88276239	93.04144661	91.24462964
220804A00037	8/4/2022	3.35	8/4/2025	100.2831132	100.1859163	100.0889146	99.99210744	99.89549429	99.79907451	99.7028475	99.60681268	99.51096944
220808A00025	8/8/2022	3.25	8/6/2027	107.0951257	104.9480246	102.8550685	100.8145203	98.82471249	96.88404357	94.9909749	93.14402777	91.34178047

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
220811A00021	8/11/2022	3.47	8/11/2025	100.3547139	100.2380803	100.1217329	100.0056704	99.88989194	99.7743963	99.65918241	99.54424922	99.42959564
220812A00001	8/12/2022	3.17	8/12/2027	107.1355755	104.9686494	102.8567093	100.797978	98.79074999	96.83338813	94.92432005	93.06203517	91.24508167
220812A00002	8/12/2022	3.17	8/12/2027	107.1355755	104.9686494	102.8567093	100.797978	98.79074999	96.83338813	94.92432005	93.06203517	91.24508167
220816A00009	8/16/2022	3.33	8/16/2027	107.3645458	105.1871607	103.0651544	100.9967309	98.98016715	97.01380943	95.09606971	93.22542263	91.40040243
220817A00036	10/14/2022	3.41	10/15/2027	108.1502477	105.7971802	103.5074419	101.2789175	99.10957847	96.99747822	94.94074853	92.9375956	90.98629647
220817A00037	10/14/2022	3.41	10/15/2027	108.1502477	105.7971802	103.5074419	101.2789175	99.10957847	96.99747822	94.94074853	92.9375956	90.98629647
220817A00038	10/14/2022	3.41	10/15/2027	108.1502477	105.7971802	103.5074419	101.2789175	99.10957847	96.99747822	94.94074853	92.9375956	90.98629647
220817A00047	8/17/2022	3.29	8/17/2027	107.4432701	105.2592619	103.1308999	101.0563759	99.03395542	97.06197389	95.138833	93.26299766	91.43299292
220819A00034	8/19/2022	3.73	8/19/2032	124.656089	116.9512354	109.7899354	103.1307348	96.93555671	91.16940911	85.80011937	80.7980928	76.13609316
220823A00002	8/23/2022	3.38	8/23/2027	107.6993144	105.4960008	103.3491065	101.2567869	99.21727284	97.22886716	95.28994086	93.39892979	91.55433154
220823A00009	8/23/2022	3.52	8/23/2027	107.8474153	105.6455205	103.4999447	101.4088484	99.37046721	97.38310843	95.44514726	93.55502353	91.71123861
220823A00015	8/23/2022	3.78	8/30/2032	125.0926301	117.3419161	110.1396495	103.4438703	97.2160486	91.42078646	86.02554724	81.00040983	76.31784517
220824A00011	8/24/2022	3.7	8/22/2025	100.4833361	100.3360912	100.1892907	100.0429327	99.89701502	99.75153574	99.60649281	99.46188426	99.31770809
220825A00006	8/25/2022	3.56	8/25/2027	107.9555701	105.7469846	103.5949819	101.4977102	99.45339324	97.46032734	95.51687727	93.62147302	91.77260664
220825A00022	8/25/2022	3.68	8/25/2025	100.5078546	100.352264	100.1971643	100.0425532	99.88842815	99.73478703	99.5816275	99.42894727	99.27674409
220826A00033	8/26/2022	3.73	8/26/2025	100.5249207	100.3665369	100.2086598	100.0512869	99.89441579	99.73804404	99.58216928	99.42678913	99.27190121
220829A00057	8/29/2022	3.67	8/31/2026	104.20172	103.005236	101.8362543	100.6938341	99.57707712	98.48512521	97.41715808	96.37239128	95.35007425
220830A00055	8/30/2022	3.7	8/30/2029	115.9443422	111.5394238	107.3295145	103.3048794	99.45632677	95.77517486	92.25322017	88.88270822	85.65630627
220830A00093	11/16/2022	3.69	11/16/2029	116.6542696	112.0129111	107.5860948	103.3627772	99.33253993	95.48555105	91.81252908	88.30470937	84.95381274
220831A00079	8/31/2022	3.79	8/29/2025	100.5627908	100.3960395	100.2298432	100.0641991	99.89910437	99.73455641	99.57055248	99.40708988	99.24416594
220901A00033	9/1/2022	3.72	9/1/2027	108.381893	106.1492294	103.9740987	101.854604	99.78892719	97.77532465	95.81212364	93.89771869	92.03056832
220901A00035	9/1/2022	3.82	9/1/2028	112.6419678	109.3257747	106.1260792	103.0380859	100.0572284	97.17915769	94.39972956	91.71499371	89.12118332
220906A00046	9/6/2022	3.79	9/7/2027	108.6046099	106.3524698	104.1586994	102.0213612	99.93859861	97.90863187	95.92975409	94.0003276	92.11878054
220907A00010	9/7/2022	3.9	9/9/2032	126.5998377	118.7446146	111.4469154	104.6639356	98.3563837	92.48817397	87.02614881	81.93982587	77.20116863
220907A00023	9/7/2022	3.76	9/8/2026	104.3992034	103.179192	101.9877436	100.8238625	99.68659906	98.57504676	97.48833987	96.42565118	95.38618984
220912A00044	11/15/2022	3.85	11/14/2025	101.3146211	100.9336669	100.555589	100.180355	99.80793268	99.43829037	99.07139692	98.70722161	98.34573419
220912A00046	11/15/2022	3.85	11/14/2025	101.3146211	100.9336669	100.555589	100.180355	99.80793268	99.43829037	99.07139692	98.70722161	98.34573419
220912A00050	11/15/2022	3.76	11/15/2027	109.3070193	106.8538084	104.4686467	102.1492686	99.89349752	97.69924149	95.56448966	93.48730854	91.46583853
220912A00051	11/15/2022	3.76	11/15/2027	109.3070193	106.8538084	104.4686467	102.1492686	99.89349752	97.69924149	95.56448966	93.48730854	91.46583853
220913A00017	9/13/2022	3.98	9/14/2026	104.7364539	103.4975352	102.2880027	101.1068184	99.95299291	98.82558237	97.72368591	96.64644328	95.59303254
220913A00018	9/13/2022	3.91	9/13/2027	108.9414077	106.6684523	104.4547374	102.2982835	100.1971942	98.14965259	96.15391646	94.20831497	92.31124488
220915A00040	9/15/2022	4.16	9/15/2025	100.8030212	100.5889197	100.3757417	100.163481	99.95213177	99.74168795	99.5321437	99.32349319	99.11573062
220916A00018	9/16/2022	4.07	9/16/2027	108.9770643	106.7744198	104.6299521	102.541735	100.507921	98.52673657	96.59647937	94.71551429	92.88227044

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
220916A00021	9/16/2022	4.17	9/16/2027	104.872022	103.675677	102.5042755	101.3570778	100.233373	99.13247731	98.05373334	96.99650832	95.96019314
220916A00042	9/16/2022	4.07	9/16/2030	121.7971954	116.151492	110.8083489	105.7498341	100.9591793	96.42069858	92.11971124	88.04247225	84.17610699
220916A00043	9/16/2022	4.07	9/16/2031	124.9865878	118.2026178	111.8419172	105.8756538	100.2771159	95.02154534	90.08598325	85.44913008	81.09121659
220916A00045	9/16/2022	4.1	9/16/2032	128.1162169	120.1870774	112.8209936	105.9746775	99.60839999	93.68567958	88.17299998	83.03955368	78.2570091
220919A00033	9/19/2022	4	9/17/2027	109.1906289	106.9034804	104.6761629	102.5066685	100.393074	98.33353704	96.32629179	94.36964483	92.46197166
220919A00036	9/19/2022	4.11	9/19/2029	117.4178531	113.0292783	108.8372874	104.8319481	101.0038858	97.34424885	93.84467667	90.49726959	87.29456085
220920A00024	9/20/2022	4.25	9/19/2025	100.8654803	100.640208	100.4159546	100.1927131	99.97047659	99.74923824	99.52899127	99.30972897	99.09144468
220920A00025	9/20/2022	4.23	9/18/2026	105.0928848	103.8404667	102.6180021	101.4244241	100.2587161	99.11990849	98.00707654	96.91933731	95.85584758
220920A00026	9/20/2022	4.1	9/20/2027	109.4521239	107.1534568	104.9150838	102.7349748	100.6111859	98.54185521	96.52519836	94.55950451	92.64313271
220921A00014	9/21/2022	4.08	9/21/2027	109.4192881	107.118151	104.8774342	102.695101	100.5692014	98.49786782	96.47931034	94.51181306	92.59373022
220921A00069	9/21/2022	3.98	9/21/2027	109.3573534	107.0536749	104.8105472	102.6259276	100.49786	98.42447125	96.40396626	94.43462412	92.51479435
220921A00074	9/21/2022	3.98	9/21/2027	109.3573534	107.0536749	104.8105472	102.6259276	100.49786	98.42447125	96.40396626	94.43462412	92.51479435
220929A00041	9/29/2022	4.38	9/29/2027	110.2010584	107.8681044	105.596838	103.3851624	101.2310709	99.13264257	97.088037	95.09549073	93.15331305
220929A00043	9/29/2022	4.44	9/28/2029	119.4234458	114.8612164	110.5034136	106.3396816	102.3602532	98.55591214	94.91795897	91.43817816	88.10880831
220929A00063	9/29/2022	4.38	9/29/2027	110.2010584	107.8681044	105.596838	103.3851624	101.2310709	99.13264257	97.088037	95.09549073	93.15331305
221005A00041	10/5/2022	4.3	10/5/2027	110.0938617	107.7455011	105.4596064	103.234066	101.0668577	98.95604419	96.89976853	94.89625011	92.9437808
221006A00012	10/6/2022	4.37	10/6/2027	110.2672305	107.9140902	105.6235925	103.3936228	101.2221556	99.10725038	97.04704659	95.03976005	93.08367895
221011A00036	10/11/2022	4.59	10/6/2026	105.7818841	104.4779857	103.2042536	101.9596399	100.7431456	99.55381694	98.39074319	97.25305426	96.13991835
221014A00026	10/14/2022	4.63	10/14/2027	110.9719119	108.5883856	106.2687569	104.0108913	101.8127421	99.67234551	97.58781717	95.55734782	93.57919991
221014A00027	10/14/2022	4.63	10/14/2027	110.9719119	108.5883856	106.2687569	104.0108913	101.8127421	99.67234551	97.58781717	95.55734782	93.57919991
221014A00032	10/14/2022	4.67	10/14/2027	110.6468387	108.3477646	106.1110841	103.9347366	101.8167421	99.75519774	97.74827412	95.79421216	93.89131983
221014A00043	10/14/2022	4.49	10/14/2027	110.8165658	108.4314594	106.110367	103.8511484	101.6517509	99.51020584	97.42462354	95.39319008	93.41416343
221014A00050	10/14/2022	4.49	10/14/2027	110.8165658	108.4314594	106.110367	103.8511484	101.6517509	99.51020584	97.42462354	95.39319008	93.41416343
221018A00006	10/18/2022	4.55	10/18/2027	110.8388461	108.4458003	106.1171634	103.8507943	101.6446387	99.49672455	97.40515815	95.36812062	93.38386417
221018A00007	10/18/2022	4.68	10/18/2027	105.7903852	104.5225631	103.2818728	102.0674982	100.8786552	99.71459018	98.5745782	97.45792204	96.36395066
221018A00030	10/18/2022	4.71	10/17/2025	101.3018901	100.9984163	100.6967749	100.3969493	100.0989229	99.80267961	99.50820323	99.2154779	98.92448794
221018A00031	10/18/2022	4.71	10/17/2025	101.3018901	100.9984163	100.6967749	100.3969493	100.0989229	99.80267961	99.50820323	99.2154779	98.92448794
221018A00047	10/18/2022	4.78	10/20/2025	101.3598328	101.047938	100.7379756	100.4299275	100.123776	99.81950347	99.51709261	99.21652625	98.91778745
221018A00048	10/18/2022	4.71	10/19/2026	106.1151115	104.7801396	103.4721952	102.1904667	100.934175	99.70257243	98.49494063	97.31058945	96.14885544
221018A00049	10/18/2022	4.59	10/18/2027	110.9321324	108.5379841	106.2082682	103.9408429	101.7336531	99.58472604	97.49216756	95.45415811	93.46894934
221019A00008	10/19/2022	4.8	10/17/2025	101.329118	101.0255924	100.7238995	100.4240226	100.1259452	99.82965096	99.53512394	99.2423482	98.95130804
221019A00009	10/19/2022	4.8	10/17/2025	101.329118	101.0255924	100.7238995	100.4240226	100.1259452	99.82965096	99.53512394	99.2423482	98.95130804
221025A00027	10/25/2022	4.57	10/25/2027	110.9779614	108.5638497	106.2151411	103.9296797	101.7053947	99.54029631	97.43247196	95.38008288	93.3813607

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
221027A00009	10/27/2022	4.68	10/27/2025	101.4125831	101.0811802	100.7519477	100.4248642	100.0999089	99.77706086	99.45629968	99.13760514	98.82095729
221027A00050	10/27/2022	4.52	10/27/2027	110.8865223	108.4679509	106.1150347	103.8256145	101.5976157	99.42904421	97.3179828	95.26258782	93.26108572
221027A00056	4/25/2023	4.48	4/25/2030	122.0161318	116.7898959	111.8246346	107.1059023	102.6201281	98.35455834	94.29720306	90.43678637	86.76270029
221027A00060	12/1/2022	4.46	12/1/2027	111.2042909	108.6822623	106.2312356	103.8488079	101.5326725	99.28061426	97.0905053	94.96030104	92.88803645
221027A00061	12/15/2022	4.45	12/15/2027	111.3577908	108.7951451	106.3057047	103.8869546	101.5364817	99.25197052	97.03119805	94.87202988	92.77241585
221027A00062	12/15/2022	4.45	12/15/2027	111.3577908	108.7951451	106.3057047	103.8869546	101.5364817	99.25197052	97.03119805	94.87202988	92.77241585
221027A00063	12/15/2022	4.45	12/15/2027	111.3577908	108.7951451	106.3057047	103.8869546	101.5364817	99.25197052	97.03119805	94.87202988	92.77241585
221031A00004	10/31/2022	4.79	10/28/2025	101.4611933	101.1269165	100.7948453	100.4649576	100.1372321	99.81164755	99.48818298	99.16681773	98.8475314
221031A00033	10/31/2022	4.74	10/31/2025	101.4809654	101.1383241	100.7979931	100.459949	100.124169	99.79063026	99.4593106	99.13018789	98.8032404
221031A00035	10/31/2022	4.67	10/30/2026	106.2126918	104.8526218	103.5169082	102.2049453	100.916147	99.64994608	98.40579376	97.18315859	95.98152589
221031A00036	10/31/2022	4.59	10/29/2027	111.0780611	108.6516475	106.2912141	103.9945964	101.7597135	99.58456516	97.46722756	95.4058502	93.39865253
221031A00042	10/31/2022	4.73	10/30/2026	106.2937311	104.933086	103.5968072	102.2842887	100.9949441	99.7282061	98.48352548	97.2603706	96.05822658
221031A00045	10/31/2022	4.79	10/31/2025	101.4980335	101.1553559	100.8149888	100.4769088	100.1410931	99.80751883	99.4761638	99.14700591	98.8200234
221102A00026	11/2/2022	4.66	11/2/2027	111.297811	108.8574922	106.4837863	104.1745083	101.9275573	99.7409133	97.61263323	95.54084772	93.5237578
221107A00029	11/7/2022	4.83	11/9/2026	106.5740359	105.1838516	103.8186778	102.4778956	101.1609063	99.86713019	98.59600612	97.34699051	96.11955678
221107A00030	11/7/2022	4.7	11/5/2027	111.4342499	108.9837139	106.6002764	104.2817294	102.0259501	99.83089783	97.69460975	95.61519783	93.59084538
221107A00048	11/7/2022	4.96	9/8/2025	100.8854258	100.6905785	100.4964946	100.3031695	100.1105986	99.91877755	99.72770189	99.53736723	99.34776919
221107A00053	11/7/2022	4.95	10/7/2025	101.2525751	100.9768064	100.7025494	100.4297916	100.1585207	99.88872431	99.62039051	99.35350731	99.0880629
221107A00056	11/7/2022	4.73	11/8/2027	111.5474526	109.0869669	106.6940614	104.3665047	102.1021524	99.89894293	97.754894	95.66809888	93.63672321
221108A00033	11/8/2022	4.7	11/8/2027	111.4757337	109.0161157	106.6240592	104.2973334	102.0337944	99.83138122	97.68811193	95.60208036	93.5714526
221108A00036	11/8/2022	4.95	11/7/2025	101.6420123	101.2796842	100.9199483	100.562777	100.2081426	99.85601817	99.50637703	99.15919287	98.81443978
221110A00024	11/10/2022	4.51	11/10/2025	101.5179026	101.1475571	100.7799249	100.4149761	100.0526813	99.69301151	99.33593812	98.981433	98.62946838
221110A00025	11/10/2022	4.39	11/10/2026	105.980885	104.5921783	103.2285038	101.8892414	100.5737909	99.28157139	98.01202045	96.76459338	95.53876252
221110A00026	11/10/2022	4.29	11/10/2027	110.5209484	108.0671853	105.6810359	103.3602622	101.1027134	98.90632226	96.7691009	94.68913759	92.66459329
221110A00038	11/10/2022	4.34	11/10/2027	110.6407584	108.1855425	105.7979717	103.475807	101.2168967	99.0191727	96.88064626	94.79940487	92.77360868
221110A00039	11/10/2022	4.34	11/10/2027	110.6407584	108.1855425	105.7979717	103.475807	101.2168967	99.0191727	96.88064626	94.79940487	92.77360868
221110A00064	1/17/2023	4.25	1/14/2028	111.2255931	108.5815107	106.0150353	103.5234209	101.1040365	98.75436122	96.47197834	94.2545705	92.09991485
221110A00065	1/17/2023	4.25	1/14/2028	111.2255931	108.5815107	106.0150353	103.5234209	101.1040365	98.75436122	96.47197834	94.2545705	92.09991485
221110A00075	11/10/2022	4.56	11/10/2025	101.5363575	101.1659707	100.7982973	100.4333076	100.0709721	99.71126184	99.35414818	98.999603	98.64759853
221110A00076	11/10/2022	4.45	11/10/2026	106.0637561	104.6744496	103.3101857	101.9703438	100.6543236	99.36154388	98.09144198	96.84347293	95.61710886
221110A00084	11/10/2022	4.56	11/6/2025	101.4896255	101.1303958	100.7737163	100.4195596	100.067899	99.71870812	99.37196091	99.02763172	98.68569523
221110A00086	11/10/2022	4.34	11/8/2027	110.6151065	108.1659016	105.7840336	103.4672786	101.2134992	99.02064068	96.8867271	94.80985807	92.78820524
221110A00108	11/10/2022	4.48	12/10/2025	101.8542181	101.4000528	100.9499508	100.5038576	100.0617197	99.62348437	99.18910001	98.75851585	98.33168201

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
221110A00110	11/10/2022	4.47	1/13/2026	102.24798	101.6986244	101.1551898	100.6175806	100.0857031	99.55946583	99.03877916	98.52355537	98.01370858
221114A00002	11/14/2022	4.37	11/15/2027	110.7771951	108.3060594	105.9033613	103.5668234	101.2942577	99.08356152	96.93271358	94.83977034	92.80286258
221116A00027	11/16/2022	4.46	11/14/2025	101.5465403	101.165054	100.786447	100.4106868	100.037741	99.6675782	99.30016703	98.93547679	98.57347721
221117A00012	11/17/2022	4.54	11/14/2025	101.5769559	101.1953998	100.8167235	100.4408942	100.0678798	99.69764874	99.33016967	98.9654119	98.60334515
221117A00013	11/17/2022	4.54	11/14/2025	101.5769559	101.1953998	100.8167235	100.4408942	100.0678798	99.69764874	99.33016967	98.9654119	98.60334515
221117A00014	11/17/2022	4.54	11/14/2025	101.5769559	101.1953998	100.8167235	100.4408942	100.0678798	99.69764874	99.33016967	98.9654119	98.60334515
221117A00025	11/17/2022	4.28	11/17/2027	110.5856042	108.1111015	105.7052894	103.3658771	101.0906639	98.877535	96.72445774	94.62947781	92.59071577
221118A00018	11/18/2022	4.55	11/18/2025	101.6274159	101.2346754	100.8449833	100.4583039	100.0746024	99.69384425	99.31599556	98.94102297	98.56889359
221118A00019	11/18/2022	4.55	11/18/2025	101.6274159	101.2346754	100.8449833	100.4583039	100.0746024	99.69384425	99.31599556	98.94102297	98.56889359
221118A00023	11/18/2022	4.12	11/18/2027	110.3876442	107.9090882	105.4994924	103.1565522	100.8780539	98.66187028	96.50595708	94.40834888	92.36715581
221118A00045	11/18/2022	4.57	11/18/2025	101.6352416	101.2424828	100.8527724	100.4660748	100.0823552	99.70157907	99.3237125	98.94872212	98.57657506
221118A00046	11/18/2022	4.4	11/18/2026	106.1017254	104.6896581	103.3034081	101.9423268	100.605787	99.29318165	98.0039234	96.73744371	95.49319207
221118A00080	11/18/2022	4.61	11/18/2025	101.6508931	101.2580975	100.8683505	100.4816166	100.0978608	99.71704871	99.33914638	98.96412043	98.59193799
221121A00047	11/21/2022	4.89	11/21/2033	137.4103221	127.9209321	119.1934283	111.161849	103.7662869	96.95230437	90.67040769	84.87557406	79.52682641
221121A00052	11/21/2022	4.35	11/22/2027	110.8189814	108.3273491	105.905232	103.5502996	101.2603135	99.03312331	96.86666266	94.75894518	92.70806105
221121A00064	11/21/2022	4.34	11/22/2027	110.7946852	108.3033515	105.8815264	103.5268796	101.2371731	99.01025666	96.84406392	94.73660877	92.68598153
221122A00029	11/22/2022	4.31	11/22/2027	110.7217966	108.2313584	105.8104094	103.4566198	101.1677521	98.94165668	96.77626769	94.66959952	92.619743
221122A00040	11/22/2022	4.31	11/22/2027	110.7217966	108.2313584	105.8104094	103.4566198	101.1677521	98.94165668	96.77626769	94.66959952	92.619743
221123A00016	11/23/2022	4.58	11/23/2029	120.1579915	115.5252488	111.1072793	106.8928907	102.8715354	99.03326926	95.36871437	91.86902338	88.52584678
221123A00034	11/23/2022	4.43	11/23/2026	106.2111463	104.7842045	103.3835806	102.0086079	100.6586415	99.3330579	98.0312537	96.7526451	95.49666697
221123A00039	11/23/2022	4.29	11/23/2027	110.6858934	108.1930418	105.7698226	103.413899	101.1230264	98.89504863	96.72789371	94.61957013	92.56816316
221128A00034	11/28/2022	4.27	11/26/2027	110.6751467	108.1738624	105.7426676	103.3792024	101.0812009	98.8464863	96.67296741	94.55863432	92.50155493
221129A00034	11/29/2022	4.38	12/1/2025	101.7365124	101.3071576	100.8814274	100.459276	100.0406584	99.62553038	99.2138484	98.80556967	98.4006521
221129A00035	11/29/2022	4.09	11/29/2027	110.4508686	107.9400989	105.4999945	103.1281661	100.82232	98.58025327	96.39984975	94.27907605	92.21597777
221129A00037	11/29/2022	4.56	11/26/2025	101.7248554	101.3097264	100.8979904	100.4896059	100.0845321	99.68272871	99.28415627	98.88877585	98.49654918
221129A00038	11/29/2022	4.56	11/26/2025	101.7248554	101.3097264	100.8979904	100.4896059	100.0845321	99.68272871	99.28415627	98.88877585	98.49654918
221129A00039	11/29/2022	4.56	11/26/2025	101.7248554	101.3097264	100.8979904	100.4896059	100.0845321	99.68272871	99.28415627	98.88877585	98.49654918
221129A00040	11/29/2022	4.56	11/26/2025	101.7248554	101.3097264	100.8979904	100.4896059	100.0845321	99.68272871	99.28415627	98.88877585	98.49654918
221129A00041	11/29/2022	4.56	11/28/2025	101.7482347	101.3275052	100.9102565	100.4964455	100.0860298	99.67896769	99.27521828	98.8747412	98.47749678
221129A00042	11/29/2022	4.56	11/28/2025	101.7482347	101.3275052	100.9102565	100.4964455	100.0860298	99.67896769	99.27521828	98.8747412	98.47749678
221129A00043	11/29/2022	4.59	12/1/2025	101.7963128	101.3671576	100.9416205	100.5196559	100.1012189	99.68626552	99.2747523	98.86663662	98.46187653
221129A00044	11/29/2022	4.56	11/28/2025	101.7482347	101.3275052	100.9102565	100.4964455	100.0860298	99.67896769	99.27521828	98.8747412	98.47749678
221129A00045	11/29/2022	4.56	11/28/2025	101.7482347	101.3275052	100.9102565	100.4964455	100.0860298	99.67896769	99.27521828	98.8747412	98.47749678

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
221129A00046	11/29/2022	4.56	12/1/2025	101.7834928	101.3543702	100.9288656	100.5069332	100.0885283	99.67360675	99.2621252	98.85404099	98.44931218
221129A00047	11/29/2022	4.56	12/1/2025	101.7834928	101.3543702	100.9288656	100.5069332	100.0885283	99.67360675	99.2621252	98.85404099	98.44931218
221129A00048	11/29/2022	4.56	12/1/2025	101.7834928	101.3543702	100.9288656	100.5069332	100.0885283	99.67360675	99.2621252	98.85404099	98.44931218
221129A00049	11/29/2022	4.56	12/1/2025	101.7834928	101.3543702	100.9288656	100.5069332	100.0885283	99.67360675	99.2621252	98.85404099	98.44931218
221129A00050	11/29/2022	4.56	12/2/2025	101.7953723	101.3634588	100.9352122	100.5105858	100.0895339	99.67201142	99.25797413	98.8473785	98.44018172
221129A00051	11/29/2022	4.56	12/2/2025	101.7953723	101.3634588	100.9352122	100.5105858	100.0895339	99.67201142	99.25797413	98.8473785	98.44018172
221129A00052	11/29/2022	4.56	12/2/2025	101.7953723	101.3634588	100.9352122	100.5105858	100.0895339	99.67201142	99.25797413	98.8473785	98.44018172
221129A00053	11/29/2022	4.56	12/2/2025	101.7953723	101.3634588	100.9352122	100.5105858	100.0895339	99.67201142	99.25797413	98.8473785	98.44018172
221129A00054	11/29/2022	4.56	12/3/2025	101.8072516	101.3725466	100.9415576	100.5142369	100.0905379	99.67041454	99.25382169	98.84071492	98.43105058
221129A00055	11/29/2022	4.56	12/3/2025	101.8072516	101.3725466	100.9415576	100.5142369	100.0905379	99.67041454	99.25382169	98.84071492	98.43105058
221129A00056	11/29/2022	4.31	11/29/2027	110.8110145	108.2994805	105.8585342	103.4857916	101.1789638	98.93585243	96.75434574	94.63241436	92.56810774
221129A00059	11/29/2022	4.39	11/27/2026	106.2078716	104.7696923	103.3582229	101.972782	100.6127112	99.27737349	97.96615306	96.67845394	95.41369943
221129A00060	11/29/2022	4.39	11/27/2026	106.2078716	104.7696923	103.3582229	101.972782	100.6127112	99.27737349	97.96615306	96.67845394	95.41369943
221129A00061	11/29/2022	4.39	11/27/2026	106.2078716	104.7696923	103.3582229	101.972782	100.6127112	99.27737349	97.96615306	96.67845394	95.41369943
221129A00062	11/29/2022	4.39	11/27/2026	106.2078716	104.7696923	103.3582229	101.972782	100.6127112	99.27737349	97.96615306	96.67845394	95.41369943
221129A00064	11/29/2022	4.28	11/30/2027	110.7502036	108.2365653	105.7936524	103.4190736	101.1105332	98.86582659	96.68283574	94.55952556	92.49394004
221129A00065	11/29/2022	4.28	11/30/2027	110.7502036	108.2365653	105.7936524	103.4190736	101.1105332	98.86582659	96.68283574	94.55952556	92.49394004
221129A00066	11/29/2022	4.28	11/29/2027	110.737541	108.2269168	105.7868604	103.4149884	101.1090124	98.86673472	96.68604408	94.56491165	92.50138735
221129A00067	11/29/2022	4.28	11/29/2027	110.737541	108.2269168	105.7868604	103.4149884	101.1090124	98.86673472	96.68604408	94.56491165	92.50138735
221129A00068	11/29/2022	4.28	11/29/2027	110.737541	108.2269168	105.7868604	103.4149884	101.1090124	98.86673472	96.68604408	94.56491165	92.50138735
221129A00069	11/29/2022	4.28	11/26/2027	110.6995544	108.1979688	105.7664793	103.4027259	101.1044423	98.86945161	96.69566247	94.58106478	92.52372628
221129A00070	11/29/2022	4.28	11/26/2027	110.6995544	108.1979688	105.7664793	103.4027259	101.1044423	98.86945161	96.69566247	94.58106478	92.52372628
221129A00071	11/29/2022	4.28	11/26/2027	110.6995544	108.1979688	105.7664793	103.4027259	101.1044423	98.86945161	96.69566247	94.58106478	92.52372628
221129A00072	11/29/2022	4.39	12/2/2026	106.2738252	104.8212704	103.3959294	101.9971022	100.6241122	99.27630544	97.95304965	96.65373317	95.37776426
221129A00073	11/29/2022	4.39	12/2/2026	106.2738252	104.8212704	103.3959294	101.9971022	100.6241122	99.27630544	97.95304965	96.65373317	95.37776426
221129A00075	11/29/2022	4.38	12/1/2026	106.2464861	104.7968525	103.3743295	101.9782207	100.6078534	99.26257726	97.94176323	96.644803	95.37110793
221129A00076	11/29/2022	4.38	12/1/2026	106.2464861	104.7968525	103.3743295	101.9782207	100.6078534	99.26257726	97.94176323	96.644803	95.37110793
221129A00077	11/29/2022	4.38	12/1/2026	106.2464861	104.7968525	103.3743295	101.9782207	100.6078534	99.26257726	97.94176323	96.644803	95.37110793
221129A00078	11/29/2022	4.38	12/1/2026	106.2464861	104.7968525	103.3743295	101.9782207	100.6078534	99.26257726	97.94176323	96.644803	95.37110793
221129A00083	11/29/2022	4.38	11/30/2026	106.2335698	104.7867483	103.3669359	101.9734403	100.6055924	99.26274533	97.94427341	96.64957152	95.3780541
221129A00084	11/29/2022	4.38	11/30/2026	106.2335698	104.7867483	103.3669359	101.9734403	100.6055924	99.26274533	97.94427341	96.64957152	95.3780541
221129A00085	11/29/2022	4.38	11/30/2026	106.2335698	104.7867483	103.3669359	101.9734403	100.6055924	99.26274533	97.94427341	96.64957152	95.3780541
221129A00086	11/29/2022	4.38	11/30/2026	106.2335698	104.7867483	103.3669359	101.9734403	100.6055924	99.26274533	97.94427341	96.64957152	95.3780541

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
221130A00019	11/30/2022	4.63	11/26/2025	101.7537983	101.3385978	100.9267907	100.5183356	100.1131915	99.71131826	99.31267638	98.91722694	98.52493164
221130A00032	11/30/2022	4.37	11/30/2027	110.9708748	108.454501	106.0089124	103.6317161	101.3206145	99.07340138	96.88795705	94.76224488	92.69430736
221130A00033	11/30/2022	4.37	11/30/2027	110.9708748	108.454501	106.0089124	103.6317161	101.3206145	99.07340138	96.88795705	94.76224488	92.69430736
221130A00069	11/30/2022	4.15	11/30/2027	110.6104622	108.0948525	105.650106	103.2738243	100.9637052	98.71753757	96.53319751	94.4086443	92.34191657
221130A00075	11/30/2022	4.15	11/30/2027	110.6104622	108.0948525	105.650106	103.2738243	100.9637052	98.71753757	96.53319751	94.4086443	92.34191657
221130A00076	11/30/2022	4.15	11/30/2027	110.6104622	108.0948525	105.650106	103.2738243	100.9637052	98.71753757	96.53319751	94.4086443	92.34191657
221130A00081	11/30/2022	4.15	11/30/2027	110.6104622	108.0948525	105.650106	103.2738243	100.9637052	98.71753757	96.53319751	94.4086443	92.34191657
221130A00085	11/30/2022	4.19	11/30/2027	110.5295324	108.0186297	105.5783923	103.2064311	100.9004519	98.65825181	96.47771443	94.35680624	92.29357271
221130A00110	11/30/2022	4.15	11/30/2027	110.4314563	107.9217694	105.4827212	103.1119233	100.8070824	98.56599635	96.3865494	94.26670876	92.20452056
221201A00011	12/1/2022	3.95	12/1/2027	110.1311853	107.618769	105.1772386	102.804192	100.4973233	98.25441794	96.07334903	93.95207294	91.88862562
221201A00043	12/1/2022	4.37	12/3/2029	110.828406	108.2874655	105.8355884	103.4688978	101.1837145	98.9765452	96.84407196	94.78314219	92.79075925
221201A00068	12/1/2022	4.21	12/1/2027	110.1061022	107.7013539	105.3650814	103.0949097	100.8885617	98.74385386	96.65869129	94.63106373	92.65904151
221202A00018	12/2/2022	4.16	12/2/2027	110.4797942	107.9640042	105.5191719	103.1428927	100.8328584	98.58685217	96.40274494	94.27849096	92.21212419
221202A00025	12/2/2022	4.06	12/2/2026	105.9005485	104.449146	103.0249645	101.6273031	100.2554847	98.90885471	97.58678035	96.28864946	95.01386985
221205A00024	12/5/2022	4.13	12/3/2027	110.4178961	107.9001234	105.4534448	103.0754483	100.7638185	98.51633239	96.33085453	94.20533339	92.1377974
221205A00048	12/5/2022	4.4	12/5/2025	101.7608614	101.3207537	100.8844594	100.451929	100.0231139	99.59796622	99.17643902	98.75848608	98.34406201
221205A00088	12/5/2022	4.13	12/3/2027	110.4178961	107.9001234	105.4534448	103.0754483	100.7638185	98.51633239	96.33085453	94.20533339	92.1377974
221206A00025	12/6/2022	4.27	12/4/2026	106.1259759	104.6691067	103.2396321	101.8368447	100.4600614	99.10862163	97.78188694	96.47923977	95.20008276
221206A00036	12/6/2022	4.13	12/6/2027	110.4533745	107.9269034	105.4719962	103.0862173	100.7672287	98.51278577	96.32073306	94.18899983	92.11559644
221206A00039	12/6/2022	4.29	12/7/2026	106.1929344	104.7274118	103.2895936	101.878761	100.4942193	99.13529745	97.80134657	96.49173934	95.205869
221207A00009	12/7/2022	4.38	12/8/2025	101.7862311	101.3377717	100.8932746	100.4526873	100.0159584	99.58303714	99.1538737	98.72841922	98.3066256
221207A00010	12/7/2022	4.08	12/7/2027	110.341631	107.8138023	105.3576607	102.9707634	100.6507659	98.39541749	96.2025567	94.07010737	91.99607462
221207A00012	12/7/2022	4.21	12/7/2026	106.0764425	104.6118051	103.1748568	101.764879	100.3811777	99.02308197	97.68994347	96.38113521	95.09605078
221207A00017	12/7/2022	3.86	12/7/2027	109.9777648	107.4507394	104.9954798	102.6095378	100.2905639	98.0363026	95.8445881	93.71334001	91.64055955
221207A00032	12/7/2022	4.52	12/7/2032	131.3272542	123.0733442	115.4187903	108.3165205	101.7234012	95.59988882	89.9097133	84.61959138	79.69896628
221207A00035	12/7/2022	4.31	1/7/2026	102.0922734	101.5599811	101.0332506	100.5119946	99.99612814	99.48556767	98.98023148	98.48003953	97.9849134
221208A00001	12/8/2022	4.6	12/8/2033	135.0983883	125.6559021	116.9774736	108.9965189	101.6526026	94.89084048	88.66136273	82.91883159	77.62200773
221208A00005	12/8/2022	4.88	12/8/2037	148.7924653	134.5999094	122.0008972	110.8039796	100.8418027	91.96795662	84.05425058	76.98835497	70.67175953
221208A00006	12/8/2022	4.88	12/8/2037	148.7924653	134.5999094	122.0008972	110.8039796	100.8418027	91.96795662	84.05425058	76.98835497	70.67175953
221208A00020	12/8/2022	4.11	12/8/2027	110.4275436	107.8958893	105.4360995	103.0457229	100.7224068	98.46389274	96.26801197	94.13268135	92.05589944
221208A00050	12/8/2022	4.11	12/8/2027	110.4275436	107.8958893	105.4360995	103.0457229	100.7224068	98.46389274	96.26801197	94.13268135	92.05589944
221208A00051	2/15/2023	4.27	2/13/2026	102.4893713	101.853457	101.225451	100.6052062	99.99257903	99.38742963	98.7896214	98.19902108	97.61549864
221208A00052	2/15/2023	4.01	2/15/2028	110.9882531	108.2557348	105.6054515	103.034408	100.5397401	98.11870707	95.76868568	93.48716428	91.27173716

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
221208A00054	2/1/2023	4.02	2/1/2028	110.8430354	108.1538473	105.5446894	103.0126844	100.5550782	98.1692342	95.85262664	93.60283571	91.41754209
221208A00061	12/8/2022	4.11	12/8/2027	110.4275436	107.8958893	105.4360995	103.0457229	100.7224068	98.46389274	96.26801197	94.13268135	92.05589944
221208A00062	12/8/2022	4.24	12/8/2028	115.1551261	111.5189201	108.0194902	104.65095	101.4076993	98.28440785	95.27600136	92.37764753	89.58474324
221208A00110	12/8/2022	4.07	12/8/2027	110.3285763	107.7981591	105.3395793	102.9503862	100.628228	98.37084702	96.17607519	94.04183012	91.96611103
221209A00035	12/9/2022	3.91	12/9/2027	110.1242886	107.5899212	105.1276684	102.7350651	100.4097454	98.14943864	95.95196441	93.81522862	91.73721944
221209A00037	12/9/2022	3.91	12/9/2027	110.1242886	107.5899212	105.1276684	102.7350651	100.4097454	98.14943864	95.95196441	93.81522862	91.73721944
221209A00070	12/9/2022	4.42	12/9/2037	127.6156325	119.9746899	112.9708965	106.542641	100.6348621	95.19830118	90.188845	85.56694777	81.29712175
221212A00011	12/12/2022	3.89	12/10/2027	110.0860723	107.5494284	105.0850432	102.6904437	100.3632569	98.10120532	95.9021021	93.76384704	91.68442258
221212A00040	12/12/2022	4.45	12/12/2025	101.8637948	101.4040757	100.9485206	100.4970728	100.0496768	99.60627804	99.16682293	98.73125885	98.29953412
221212A00041	12/12/2022	4.15	12/10/2027	110.5502752	108.0115771	105.5450857	103.1483327	100.8189494	98.55466231	96.35328831	94.21273071	92.1309752
221212A00063	12/12/2022	4.45	12/12/2025	101.8637948	101.4040757	100.9485206	100.4970728	100.0496768	99.60627804	99.16682293	98.73125885	98.29953412
221212A00071	12/12/2022	4.15	12/13/2027	110.5859224	108.0385101	105.5637782	103.1592341	100.8224862	98.55123936	96.34328999	94.19652203	92.10890287
221212A00117	6/12/2023	4.11	6/12/2026	103.748115	102.7769285	101.8239684	100.8887243	99.97070483	99.06943659	98.18446343	97.31534562	96.46165918
221212A00131	12/12/2023	3.77	12/11/2026	105.4806339	104.0096944	102.5667682	101.1511235	99.76205337	98.39887493	97.06092819	95.74757515	94.45819886
221213A00004	12/13/2022	3.99	12/13/2027	110.1878252	107.6454158	105.1755762	102.7758173	100.4437506	98.17708416	95.97361738	93.83123709	91.74791342
221213A00017	12/13/2022	4.1	12/14/2026	106.0012514	104.5181834	103.0635022	101.6364624	100.2363441	98.86245176	97.51411362	96.1906802	94.89152363
221213A00047	12/13/2022	3.8	12/13/2027	109.8960449	107.3535247	104.8836747	102.4839996	100.1521053	97.88569444	95.68256125	93.54058781	91.45773973
221213A00051	12/13/2022	4.02	12/13/2027	110.2624684	107.719121	105.2483641	102.8477079	100.5147635	98.24723826	96.042931	93.89972801	91.81559894
221213A00056	12/13/2022	4.02	5/13/2026	103.3777903	102.4908772	101.6192154	100.7624133	99.92009272	99.09188813	98.27744629	97.47642567	96.68849594
221213A00061	12/13/2022	4.15	12/11/2026	106.0381908	104.5629854	103.1158675	101.6961034	100.3029841	98.93582478	97.59396372	96.27676112	94.98359833
221214A00003	12/14/2022	4.26	12/12/2025	101.7768059	101.3173201	100.8619968	100.4107793	99.96361212	99.52044069	99.08121146	98.64587182	98.2143701
221214A00020	12/14/2022	4.2	12/12/2025	101.7493357	101.2899236	100.8346735	100.3835287	99.9364338	99.49333416	99.05417626	98.6189075	98.1874762
221214A00022	12/14/2022	4.17	2/13/2026	102.4261233	101.7904337	101.1626504	100.5426264	99.93021819	99.32528578	98.72769266	98.13730561	97.55399462
221214A00031	12/14/2022	3.97	12/14/2027	110.1494443	107.6047667	105.132803	102.7310562	100.3971309	98.12872802	95.92364064	93.77974947	91.69501886
221214A00077	12/14/2022	3.84	12/14/2027	110.0068854	107.460216	104.9864026	102.5829412	100.2474291	97.97756072	95.7711229	93.62599045	91.54012215
221214A00079	12/14/2022	3.84	12/14/2027	110.0068854	107.460216	104.9864026	102.5829412	100.2474291	97.97756072	95.7711229	93.62599045	91.54012215
221214A00102	12/14/2022	4.33	12/15/2025	101.8429973	101.3750354	100.911389	100.4519984	99.99680499	99.54575125	99.0987807	98.65583788	98.21686834
221215A00082	12/15/2022	4.27	12/15/2025	101.8150279	101.3471422	100.8835715	100.424256	99.96913729	99.51815773	99.07126086	98.62839125	98.18949445
221215A00115	12/15/2022	4	12/15/2027	110.2356359	107.6871221	105.2115011	102.806267	100.4690163	98.19744211	95.98932996	93.84255359	91.75507071
221216A00007	12/16/2022	4.27	12/16/2025	101.8261033	101.3554226	100.8891081	100.4270989	99.96933537	99.51575908	99.06631254	98.62093934	98.1795841
221216A00008	12/16/2022	4.27	12/16/2025	101.8261033	101.3554226	100.8891081	100.4270989	99.96933537	99.51575908	99.06631254	98.62093934	98.1795841
221216A00009	12/16/2022	4.27	12/16/2025	101.8261033	101.3554226	100.8891081	100.4270989	99.96933537	99.51575908	99.06631254	98.62093934	98.1795841
221216A00010	12/16/2022	4.27	12/16/2025	101.8261033	101.3554226	100.8891081	100.4270989	99.96933537	99.51575908	99.06631254	98.62093934	98.1795841

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
221216A00013	12/16/2022	4.04	12/16/2027	110.3469593	107.79429	105.3146995	102.9056732	100.5647988	98.28976148	96.07833924	93.92839854	91.83789026
221216A00023	12/16/2022	4.04	12/13/2027	110.3122306	107.7682578	105.2968894	102.895635	100.5621055	98.29400766	96.08914007	93.94538863	91.86072263
221216A00048	12/16/2022	4.32	7/16/2025	100.1745274	100.1300364	100.0856027	100.0412262	99.99690678	99.95264429	99.90843863	99.86428969	99.82019737
221216A00049	12/16/2022	4.29	8/15/2025	100.4942198	100.3663665	100.2388549	100.1116837	99.98485141	99.85835666	99.73219805	99.60637419	99.48088371
221219A00043	12/19/2022	4.07	12/17/2027	110.4335131	107.8769977	105.3937404	102.9812181	100.63701	98.35879351	96.14433912	93.99150628	91.89823918
221220A00025	12/20/2022	4.38	12/22/2025	101.9459634	101.4583513	100.9754162	100.497091	100.0233098	99.55400788	99.08912176	98.62858918	98.17234904
221221A00043	12/21/2022	4.26	12/19/2025	101.8545558	101.3755004	100.9009653	100.4308866	99.96520141	99.50384828	99.04676673	98.59389746	98.14518228
221221A00048	12/21/2022	4.22	12/21/2026	106.2656482	104.7615077	103.2865053	101.8398666	100.4208443	99.02871671	97.66278695	96.32238166	95.00685009
221221A00049	12/21/2022	4.15	12/21/2027	110.6809848	108.1103106	105.6135871	103.1882564	100.8318653	98.5420603	96.31658281	94.15326462	92.05002379
221221A00053	12/21/2022	4.15	12/21/2027	110.6809848	108.1103106	105.6135871	103.1882564	100.8318653	98.5420603	96.31658281	94.15326462	92.05002379
221222A00012	12/22/2022	4.35	12/16/2025	101.8636175	101.3928342	100.9264176	100.4643071	100.006443	99.55276675	99.10322088	98.65774901	98.21629574
221222A00013	12/22/2022	4.34	12/23/2025	101.9378091	101.447452	100.961824	100.4808565	100.0044828	99.53263689	99.06525447	98.60227223	98.14362812
221222A00024	12/22/2022	4.35	12/15/2025	101.8523204	101.3843331	100.9206615	100.4612459	100.0060276	99.5549491	99.10795398	98.66498675	98.22599297
221222A00026	12/22/2022	4.22	12/15/2026	106.1907963	104.7035524	103.2448226	101.8138567	100.4099303	99.0323439	97.68042143	96.35350963	95.05097691
221222A00027	12/22/2022	4.16	12/15/2027	110.6346243	108.0810858	105.6005512	103.1905115	100.8485596	98.57238554	96.35977195	94.2085896	92.11679343
221222A00035	12/30/2022	4.34	12/30/2025	102.0166813	101.5067111	101.00184	100.5019917	100.0070915	99.51706626	99.03184418	98.55135488	98.07552935
221222A00053	12/22/2022	4.18	12/22/2027	110.5736438	108.0418656	105.5838634	103.197023	100.878841	98.62691862	96.43895736	94.31275346	92.24619361
221223A00025	12/23/2022	4.25	12/23/2027	110.9563471	108.3766563	105.8713065	103.4377213	101.0734297	98.77606162	96.54334254	94.3730893	92.26320574
221228A00044	12/28/2022	4.31	12/28/2027	111.1689501	108.5727239	106.0516841	103.6032113	101.2247943	98.91402474	96.66859191	94.48627845	92.36495584
221228A00075	12/28/2022	4.09	12/28/2027	110.797129	108.2017669	105.681674	103.2342252	100.856904	98.54729666	96.30308785	94.12205569	92.00206746
221228A00129	12/28/2022	4.11	12/28/2027	110.8221044	108.2292496	105.7126723	103.2696486	100.8975705	98.59394048	96.35636593	94.18255374	92.07030558
221229A00075	12/29/2022	5.2	12/29/2037	152.8665873	138.3751647	125.5102792	114.0762034	103.901906	94.83781209	86.75300316	79.53279561	73.07664484
221230A00087	12/30/2022	4.56	1/2/2026	102.1644019	101.645701	101.1322714	100.6240329	100.120907	99.62281678	99.12968692	98.64144352	98.15801416
221230A00088	12/30/2022	4.42	12/30/2026	106.681942	105.1500125	103.6482101	102.1757223	100.7317655	99.31558329	97.92644573	96.56364782	95.22650857
221230A00109	12/30/2022	4.56	12/30/2025	102.1283839	101.6180846	101.1128867	100.612714	100.1174917	99.62714672	99.14160712	98.66080255	98.18466397
221230A00111	12/30/2022	4.42	12/30/2026	106.681942	105.1500125	103.6482101	102.1757223	100.7317655	99.31558329	97.92644573	96.56364782	95.22650857
230103A00066	1/3/2023	4.19	7/15/2026	104.3032211	103.2361064	102.1908899	101.1669016	100.1634986	99.18006348	98.21600369	97.27074976	96.34375438
230103A00070	1/3/2023	4.53	10/15/2025	101.2243095	100.9265187	100.6304942	100.3362201	100.0436809	99.75286111	99.46374557	99.17631917	98.89056704
230104A00004	1/4/2023	4.19	1/4/2028	110.9498071	108.3370105	105.8003586	103.3371806	100.9449166	98.6211123	96.36341397	94.16956353	92.03739409
230104A00044	1/4/2023	4.2	1/4/2028	110.9753009	108.3621764	105.825204	103.3617125	100.969142	98.64503791	96.38704629	94.19290887	92.06045858
230105A00020	1/5/2023	4.32	1/5/2028	111.2937037	108.67371	106.130098	103.6601864	101.2614058	98.93129245	96.667484	94.46771404	92.32980779
230106A00017	1/6/2023	4.23	1/6/2028	111.0762347	108.4562702	105.912762	103.4430237	101.0444809	98.7146652	96.45120996	94.25184474	92.11439097
230106A00019	1/6/2023	4.23	1/6/2028	111.0762347	108.4562702	105.912762	103.4430237	101.0444809	98.7146652	96.45120996	94.25184474	92.11439097

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230106A00032	1/6/2023	4.28	1/6/2026	102.1015199	101.5715149	101.0470237	100.5279602	100.0142404	99.50578198	99.00250414	98.50432786	98.0111757
230109A00042	1/9/2023	4.07	12/20/2027	110.4684934	107.9032688	105.411779	102.9914762	100.6399166	98.35475563	96.1337431	93.97471885	91.87560859
230109A00083	1/9/2023	4.79	1/11/2038	147.8982745	133.6692499	121.0497861	109.8451536	99.88529848	91.02159265	83.12402797	76.07879033	69.78616112
230110A00006	1/10/2023	4.06	1/10/2028	110.6889045	108.0628661	105.5137232	103.0387638	100.6353894	98.3011092	96.03353532	93.83037747	91.68943845
230110A00023	1/10/2023	4.3	1/12/2026	102.1437178	101.5974522	101.0570454	100.5224032	99.99343352	99.47004622	98.95215302	98.43966751	97.93250509
230110A00035	1/10/2023	4.08	1/10/2028	110.7108508	108.0879918	105.5430123	103.0731009	100.6755676	98.34783791	96.0874467	93.89203291	91.75933428
230110A00040	1/13/2023	4.07	12/13/2027	110.3868738	107.841963	105.3696772	102.9675257	100.6331184	98.36416176	96.15845369	94.01387956	91.92840815
230110A00043	1/10/2023	3.84	1/10/2028	110.3112667	107.6861533	105.1380197	102.6641479	100.2619337	97.92888124	95.66259749	93.46078761	91.32125004
230110A00047	1/10/2023	3.84	1/10/2028	110.3112667	107.6861533	105.1380197	102.6641479	100.2619337	97.92888124	95.66259749	93.46078761	91.32125004
230110A00055	1/10/2023	4.06	1/10/2028	110.6889045	108.0628661	105.5137232	103.0387638	100.6353894	98.3011092	96.03353532	93.83037747	91.68943845
230110A00070	1/10/2023	4.27	1/9/2026	102.0936082	101.5557872	101.0236459	100.4970943	99.97604458	99.46041053	98.95010787	98.44505403	97.94516815
230111A00004	1/11/2023	3.83	1/11/2028	110.2969043	107.6692084	105.1186267	102.6424339	100.238019	97.90287979	95.63461734	93.43093114	91.28961433
230111A00013	1/11/2023	4.25	1/9/2026	102.0828989	101.5451109	101.0130022	100.486483	99.96546545	99.44986333	98.93959236	98.43456998	97.93471533
230111A00019	1/11/2023	3.83	1/11/2028	110.2969043	107.6692084	105.1186267	102.6424339	100.238019	97.90287979	95.63461734	93.43093114	91.28961433
230111A00046	1/11/2023	4.28	1/13/2026	102.1441351	101.5951041	101.0519916	100.5147019	99.98314153	99.45721901	98.93684472	98.42193096	97.91239189
230112A00004	1/12/2023	4	1/12/2028	110.5581111	107.9282343	105.3754914	102.8971569	100.4906197	98.15337723	95.88303044	93.67727863	91.53391476
230112A00014	1/12/2023	4.09	1/12/2027	106.3397446	104.7750377	103.2415196	101.7383309	100.2646435	98.81965908	97.40260759	96.01274614	94.64935773
230112A00041	1/12/2023	4.2	1/12/2026	102.0893399	101.5432434	101.0030045	100.468529	99.93972469	99.41650152	98.89877122	98.3864474	97.87944546
230112A00042	1/12/2023	4.09	1/12/2027	106.3397446	104.7750377	103.2415196	101.7383309	100.2646435	98.81965908	97.40260759	96.01274614	94.64935773
230112A00044	1/12/2023	4	1/12/2028	110.5581111	107.9282343	105.3754914	102.8971569	100.4906197	98.15337723	95.88303044	93.67727863	91.53391476
230112A00059	3/1/2023	4.04	3/2/2026	102.5270637	101.8439858	101.1700158	100.5049725	99.84867917	99.20096389	98.56165917	97.93060185	97.30763299
230112A00060	3/15/2023	4.01	3/13/2026	102.6269436	101.9130873	101.209182	100.5150201	99.83040015	99.15512592	98.48900665	97.83185673	97.18349556
230112A00061	3/15/2023	4.01	3/13/2026	102.6269436	101.9130873	101.209182	100.5150201	99.83040015	99.15512592	98.48900665	97.83185673	97.18349556
230112A00062	3/15/2023	3.83	3/15/2028	110.8366077	108.0232829	105.2966508	102.6534702	100.0906457	97.60522008	95.19436698	92.85538378	90.58568529
230112A00063	3/15/2023	3.83	3/15/2028	110.8366077	108.0232829	105.2966508	102.6534702	100.0906457	97.60522008	95.19436698	92.85538378	90.58568529
230112A00065	1/12/2023	4.09	1/12/2027	106.3397446	104.7750377	103.2415196	101.7383309	100.2646435	98.81965908	97.40260759	96.01274614	94.64935773
230112A00066	1/12/2023	4	1/12/2028	110.5581111	107.9282343	105.3754914	102.8971569	100.4906197	98.15337723	95.88303044	93.67727863	91.53391476
230113A00037	1/26/2024	3.43	1/30/2026	101.831471	101.2364724	100.6484211	100.067196	99.49267877	98.92475375	98.36330799	97.80823106	97.25941505
230113A00055	1/13/2023	3.88	1/13/2028	110.2607632	107.6319805	105.080383	102.6032406	100.1979378	97.86196813	95.59292886	93.38851582	91.24651879
230113A00057	1/13/2023	3.99	1/13/2028	110.00898	107.5043365	105.0732904	102.7131935	100.4215117	98.19581979	96.03379577	93.93321547	91.89194778
230113A00080	1/13/2023	4.18	1/13/2026	102.0894799	101.5406197	100.9976767	100.4605552	99.92916176	99.4034049	98.88319501	98.36844443	97.85906731
230117A00040	1/17/2023	4.07	1/19/2027	106.394168	104.8098894	103.2574036	101.735825	100.2443005	98.78200796	97.34815491	95.94197711	94.56273734
230117A00048	1/17/2023	3.97	1/14/2028	110.5039667	107.8692615	105.3119515	102.8292969	100.4186733	98.07756571	95.80356332	93.59435432	91.44772128

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230117A00087	1/17/2023	3.93	1/18/2028	110.4464439	107.8014256	105.2343412	102.7424224	100.3230175	97.97358591	95.69169282	93.47500384	91.3212802
230118A00019	1/18/2023	3.59	1/18/2028	109.7543778	107.1143823	104.5523137	102.0654004	99.65098769	97.30653235	95.029597	92.81784496	90.66903542
230118A00020	1/18/2023	3.87	1/16/2026	101.9888261	101.4315182	100.8803164	100.3351204	99.79583226	99.26235597	98.73459773	98.21246571	97.69587006
230118A00033	1/18/2023	3.81	1/18/2028	110.1358383	107.4948728	104.9317495	102.4437026	100.0280833	97.68235369	95.40408146	93.19093463	91.04067681
230118A00039	1/18/2023	3.81	1/18/2028	110.1358383	107.4948728	104.9317495	102.4437026	100.0280833	97.68235369	95.40408146	93.19093463	91.04067681
230118A00053	1/18/2023	3.87	1/16/2026	101.9888261	101.4315182	100.8803164	100.3351204	99.79583226	99.26235597	98.73459773	98.21246571	97.69587006
230118A00056	1/18/2023	3.87	1/16/2026	101.9888261	101.4315182	100.8803164	100.3351204	99.79583226	99.26235597	98.73459773	98.21246571	97.69587006
230118A00058	1/23/2023	4	2/17/2026	102.3611281	101.7146146	101.0762812	100.4459732	99.82353978	99.2088337	98.6017115	98.00203325	97.40966243
230118A00087	1/18/2023	4.02	1/16/2026	102.0337472	101.4767721	100.9258925	100.3810087	99.84202284	99.3088393	98.78136451	98.25950693	97.74317694
230119A00034	1/19/2023	3.82	1/19/2028	110.1728076	107.5285977	104.9623801	102.4713813	100.0529453	97.70452726	95.4236885	93.20809096	91.05549248
230119A00105	1/19/2023	3.9	1/19/2027	106.1263223	104.5442321	102.993896	101.4744293	99.98497993	98.52472675	97.09287825	95.68867112	94.311369
230119A00108	1/19/2023	3.81	1/19/2028	110.146896	107.5030245	104.9371376	102.4464622	100.0283423	97.68023341	95.399697	93.18439522	91.03208614
230119A00137	1/19/2023	3.9	1/19/2027	106.1263223	104.5442321	102.993896	101.4744293	99.98497993	98.52472675	97.09287825	95.68867112	94.311369
230120A00021	1/20/2023	4.13	1/20/2026	102.1382881	101.569921	101.007894	100.4521014	99.90243954	99.3588072	98.82110533	98.28923706	97.76310763
230120A00022	1/20/2023	3.9	1/20/2028	110.3914093	107.7415789	105.169945	102.6737248	100.2502533	97.89697739	95.61145033	93.3913266	91.23435694
230120A00027	1/20/2023	4.13	1/20/2026	102.1382881	101.569921	101.007894	100.4521014	99.90243954	99.3588072	98.82110533	98.28923706	97.76310763
230120A00029	1/20/2023	3.9	1/20/2028	110.3914093	107.7415789	105.169945	102.6737248	100.2502533	97.89697739	95.61145033	93.3913266	91.23435694
230120A00079	1/20/2023	3.68	1/20/2028	110.0093562	107.3604975	104.7899206	102.2948366	99.87257463	97.52057628	95.23638972	93.01766468	90.86214746
230120A00099	1/20/2023	3.92	1/20/2026	102.0585203	101.4899237	100.9276771	100.3716745	99.82181203	99.27798806	98.74010333	98.20806069	97.68176512
230120A00103	1/20/2023	3.92	1/20/2026	102.0585203	101.4899237	100.9276771	100.3716745	99.82181203	99.27798806	98.74010333	98.20806069	97.68176512
230120A00114	1/20/2023	4.13	1/20/2026	102.1382881	101.569921	101.007894	100.4521014	99.90243954	99.3588072	98.82110533	98.28923706	97.76310763
230120A00117	1/20/2023	3.9	1/20/2028	110.3914093	107.7415789	105.169945	102.6737248	100.2502533	97.89697739	95.61145033	93.3913266	91.23435694
230123A00051	1/23/2023	3.75	1/21/2028	110.2022009	107.5480489	104.972376	102.472384	100.0453936	97.68883792	95.40025747	93.17729461	91.01768872
230124A00004	1/24/2023	3.99	1/24/2028	110.6711025	108.006537	105.4208109	102.9111093	100.4747366	98.10911111	95.81175909	93.58030954	91.41248915
230124A00014	1/24/2023	4.23	1/26/2026	102.2618012	101.6764273	101.0977647	100.5256982	99.96011537	99.4009063	98.84796355	98.30118209	97.76045924
230124A00015	1/24/2023	4.09	1/25/2027	106.4993461	104.8977907	103.3285608	101.7907474	100.2834755	98.80590221	97.35721528	95.93663181	94.54339682
230124A00024	1/24/2023	4.23	1/23/2026	102.2283431	101.6513838	101.0809502	100.5169319	99.95922081	99.40771148	98.86230064	98.32288737	97.78937295
230124A00025	1/24/2023	4.09	1/25/2027	106.4993461	104.8977907	103.3285608	101.7907474	100.2834755	98.80590221	97.35721528	95.93663181	94.54339682
230124A00045	1/24/2023	3.99	1/24/2028	110.6711025	108.006537	105.4208109	102.9111093	100.4747366	98.10911111	95.81175909	93.58030954	91.41248915
230124A00046	1/24/2023	3.99	1/24/2028	110.6711025	108.006537	105.4208109	102.9111093	100.4747366	98.10911111	95.81175909	93.58030954	91.41248915
230124A00055	6/15/2023	4.13	6/15/2032	127.0388556	119.4322839	112.3491637	105.7504765	99.60031085	93.86560007	88.51588302	83.52308601	78.86132415
230124A00056	3/28/2023	4.19	3/28/2033	129.7151133	121.2040084	113.3345794	106.0545916	99.31634197	93.07624183	87.29444098	81.93448771	76.96302161
230124A00058	6/15/2023	4.21	6/15/2034	133.1581351	123.2653126	114.2187971	105.9408982	98.36145998	91.41709414	85.05049441	79.20982404	73.84816756

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230125A00010	1/25/2023	4.01	1/25/2027	106.3719676	104.7714635	103.203266	101.6664669	100.1601916	98.68359759	97.23587321	95.81623597	94.42393129
230125A00022	1/25/2023	3.8	1/25/2027	106.150943	104.5503536	102.9821069	101.4452927	99.9390347	98.46248904	97.01484246	95.5953111	94.20313911
230125A00023	1/25/2023	3.69	1/25/2028	110.0899847	107.4262292	104.8414806	102.3329118	99.8978165	97.5336024	95.23778612	93.00798756	90.84192494
230125A00031	1/25/2023	3.74	1/25/2028	109.679156	107.148562	104.6930992	102.3100332	99.99674927	97.75074649	95.56963171	93.45111404	91.39299973
230126A00015	1/26/2023	4.08	1/26/2027	106.4956745	104.8914125	103.319562	101.7792105	100.2694793	98.78952202	97.3385233	95.91569713	94.52028562
230126A00036	1/26/2023	4.19	1/26/2026	102.2384977	101.653201	101.0746149	100.5026244	99.93711682	99.37798244	98.82511378	98.27840583	97.7377559
230127A00012	1/27/2023	4	1/27/2028	110.7319163	108.058239	105.4638409	102.9458841	100.5016516	98.12854113	95.82405996	93.585819	91.41152797
230127A00044	1/27/2023	4.25	1/27/2026	102.2846608	101.6964421	101.1149971	100.5402091	99.97196417	99.41015094	98.85466055	98.30538658	97.76222499
230127A00045	1/27/2023	4.12	1/27/2027	106.571837	104.9642071	103.3890868	101.8455596	100.3327426	98.84978603	97.39587082	95.97020764	94.57203543
230127A00046	1/27/2023	4	1/27/2028	110.7319163	108.058239	105.4638409	102.9458841	100.5016516	98.12854113	95.82405996	93.585819	91.41152797
230127A00048	1/27/2023	4	1/27/2028	110.7319163	108.058239	105.4638409	102.9458841	100.5016516	98.12854113	95.82405996	93.585819	91.41152797
230127A00053	1/27/2023	4	1/27/2028	110.7319163	108.058239	105.4638409	102.9458841	100.5016516	98.12854113	95.82405996	93.585819	91.41152797
230127A00056	1/27/2023	3.78	1/27/2028	110.3472814	107.674596	105.0812763	102.5644781	100.1214783	97.74966955	95.44655364	93.20973673	91.03692401
230127A00060	1/30/2023	4.25	2/3/2026	102.3634689	101.7556232	101.155003	100.5614799	99.97492859	99.3952266	98.82225438	98.25589514	97.69603478
230127A00073	1/27/2023	4.24	2/17/2026	102.5155842	101.8685134	101.2296277	100.5987723	99.97579628	99.36055243	98.75289717	98.1526905	97.55979583
230127A00075	1/27/2023	4.23	7/28/2025	100.2988492	100.2209747	100.1432269	100.0656053	99.98810972	99.91073985	99.83349537	99.75637599	99.67938139
230127A00079	1/27/2023	4.23	7/28/2025	100.2988492	100.2209747	100.1432269	100.0656053	99.98810972	99.91073985	99.83349537	99.75637599	99.67938139
230127A00096	1/27/2023	4.21	1/27/2026	102.2612464	101.6731056	101.0917379	100.5170265	99.94885758	99.38711974	98.83170412	98.28250432	97.73941632
230130A00045	1/30/2023	4.02	1/28/2028	110.7958288	108.1185373	105.5206852	102.9994263	100.5520361	98.17590516	95.86853396	93.62752703	91.45058808
230130A00086	1/30/2023	4.16	2/1/2027	106.6991891	105.0765219	103.4868316	101.929181	100.4026685	98.90642587	97.43961687	96.00143587	94.59110632
230130A00087	1/30/2023	4.04	1/28/2028	110.8481536	108.1701722	105.571646	103.0497283	100.601694	98.2249334	95.91694638	93.67533712	91.49780892
230130A00095	2/3/2023	4.25	5/26/2026	103.6752281	102.7516252	101.844516	100.9534609	100.078036	99.21783217	98.37245437	97.54152123	96.72466435
230130A00127	1/30/2023	4.02	2/1/2028	110.8430354	108.1538473	105.5446894	103.0126844	100.5550782	98.1692342	95.85262664	93.60283571	91.41754209
230131A00004	1/31/2023	3.76	1/31/2028	110.3394806	107.6558058	105.0520597	102.525368	100.0729795	97.69225997	95.38068652	93.13584171	90.95540859
230131A00006	1/31/2023	4.23	2/2/2026	102.3401032	101.735098	101.1372506	100.5464344	99.96252581	99.3854042	98.81495164	98.25105296	97.6935956
230131A00009	1/31/2023	3.98	1/31/2028	110.7257762	108.0410926	105.4362506	102.9083824	100.4547428	98.07270316	95.75974568	93.51345786	91.33152732
230131A00032	2/3/2023	4.17	7/30/2026	104.3928286	103.284435	102.1996326	101.1376734	100.0978408	99.07944771	98.08183538	97.10437177	96.14645026
230131A00034	2/3/2023	3.99	12/23/2027	110.3021976	107.7308155	105.2335894	102.8079486	100.4514276	98.16166159	95.93638102	93.77340759	91.6706498
230131A00057	1/31/2023	4.1	1/29/2027	106.564495	104.9514487	103.3710854	101.8224805	100.3047442	98.81701975	97.35848164	95.92833438	94.52581106
230131A00067	1/31/2023	4.02	2/2/2026	102.2553216	101.650081	101.052009	100.4609788	99.87686643	99.29955092	98.72891404	98.1648403	97.60721687
230131A00071	1/31/2023	4.22	1/30/2026	102.3004734	101.7038927	101.1142727	100.5314918	99.95543171	99.38597652	98.8230131	98.26643087	97.71612175
230131A00087	2/3/2023	4.26	1/5/2026	102.0433009	101.5166802	100.9955027	100.4796844	99.96914261	99.46379668	98.96356743	98.46837731	97.97815033
230131A00095	1/31/2023	4.22	1/30/2026	102.3004734	101.7038927	101.1142727	100.5314918	99.95543171	99.38597652	98.8230131	98.26643087	97.71612175

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230201A00003	2/1/2023	3.93	1/31/2028	110.5945465	107.9115983	105.3084522	102.7822413	100.3302218	97.94976605	95.63835746	93.39358455	91.21313595
230201A00011	2/1/2023	3.93	2/1/2028	110.6065712	107.9205134	105.3144141	102.7853983	100.3307141	97.94772671	95.63391263	93.38685385	91.2042329
230201A00012	2/1/2023	4.08	2/1/2027	106.5702549	104.9486642	103.360031	101.8034189	100.2779266	98.78268648	97.31686278	95.87965029	94.4702729
230202A00006	2/2/2023	3.92	2/2/2027	106.3252658	104.7027048	103.1131638	101.555703	100.029418	98.53343824	97.06692508	95.62907072	94.21909657
230202A00008	2/2/2023	3.81	2/2/2028	110.3029762	107.6179904	105.013024	102.4851966	100.0317513	97.65004889	95.33756147	93.09186713	90.91064475
230202A00011	2/2/2023	3.92	2/2/2027	106.3252658	104.7027048	103.1131638	101.555703	100.029418	98.53343824	97.06692508	95.62907072	94.21909657
230202A00034	2/2/2024	3.41	2/2/2026	101.8464717	101.2431511	100.646974	100.0578141	99.47554797	98.90005509	98.33121778	97.76892104	97.21305252
230202A00038	2/2/2023	3.84	2/2/2028	110.3818812	107.6958499	105.0898618	102.561036	100.1066148	97.72395826	95.41053785	93.16393102	90.98181602
230202A00041	2/2/2023	3.82	2/2/2028	110.3292779	107.6439436	105.0386366	102.5104764	100.0567058	97.67468535	95.36188693	93.11588843	90.93436851
230202A00042	2/2/2023	3.82	2/2/2028	110.3292779	107.6439436	105.0386366	102.5104764	100.0567058	97.67468535	95.36188693	93.11588843	90.93436851
230202A00045	2/2/2023	3.62	2/2/2028	109.9944625	107.3094549	104.7045775	102.176943	99.72378785	97.34246639	95.03044489	92.78529591	90.60469312
230202A00050	2/2/2023	3.82	2/2/2028	110.3292779	107.6439436	105.0386366	102.5104764	100.0567058	97.67468535	95.36188693	93.11588843	90.93436851
230202A00061	2/2/2023	4.16	2/2/2026	102.2979639	101.6931025	101.0953977	100.5047229	99.92095453	99.34397196	98.77365729	98.20989536	97.65257363
230202A00096	2/2/2023	3.81	2/2/2028	110.3029762	107.6179904	105.013024	102.4851966	100.0317513	97.65004889	95.33756147	93.09186713	90.91064475
230203A00021	2/8/2023	4.21	6/17/2026	103.9051442	102.9192416	101.9520993	101.0031849	100.0719856	99.158008	98.2607768	97.37983404	96.51473835
230203A00026	2/3/2023	3.98	2/3/2028	110.7622688	108.0682439	105.4545309	102.918237	100.4565936	98.06694985	95.74676736	93.49361407	91.30515922
230203A00038	2/3/2023	4.1	2/3/2027	106.6292476	105.001125	103.4061673	101.843429	100.3120004	98.81100569	97.33960155	95.89697555	94.48234472
230203A00039	2/3/2023	3.98	2/3/2028	110.7622688	108.0682439	105.4545309	102.918237	100.4565936	98.06694985	95.74676736	93.49361407	91.30515922
230203A00043	2/14/2023	4.31	2/13/2026	102.5146705	101.8786663	101.2505712	100.630238	100.0175234	99.41228717	98.81439289	98.22370726	97.64010024
230203A00045	2/14/2023	4.31	2/13/2026	102.5146705	101.8786663	101.2505712	100.630238	100.0175234	99.41228717	98.81439289	98.22370726	97.64010024
230203A00053	2/10/2023	4.32	2/10/2026	102.4864385	101.8588284	101.2389212	100.6265754	100.0216531	99.42401949	98.83354332	98.25009629	97.67355321
230203A00054	2/10/2023	4.32	2/10/2026	102.4864385	101.8588284	101.2389212	100.6265754	100.0216531	99.42401949	98.83354332	98.25009629	97.67355321
230203A00057	2/3/2023	4.34	2/3/2026	102.4178974	101.8098653	101.2090603	100.615354	100.0286209	99.44873873	98.8755878	98.30905133	97.7490152
230203A00058	2/3/2023	4.34	2/3/2026	102.4178974	101.8098653	101.2090603	100.615354	100.0286209	99.44873873	98.8755878	98.30905133	97.7490152
230208A00029	2/8/2023	4.27	2/8/2027	106.9734452	105.3273134	103.7148982	102.1352307	100.5873788	99.07044572	97.58356815	96.12591476	94.69668466
230208A00036	2/8/2023	4.43	2/6/2026	102.5077998	101.8911707	101.2819734	100.6800739	100.0853416	99.49764866	98.91687059	98.34288565	97.775575
230208A00038	2/8/2023	4.27	2/8/2027	106.9734452	105.3273134	103.7148982	102.1352307	100.5873788	99.07044572	97.58356815	96.12591476	94.69668466
230208A00039	2/8/2023	4.17	2/8/2028	111.3260021	108.6096928	105.9746373	103.4178958	100.9366558	98.52822501	96.19002594	93.9195897	91.71455075
230208A00040	2/8/2023	4.26	2/8/2029	115.956093	112.1296776	108.4529786	104.9192804	101.5222091	98.25571304	95.11404456	92.09174269	89.18361707
230208A00041	2/8/2023	4.32	2/8/2030	120.3907576	115.4262617	110.7007129	106.2012717	101.9158599	97.83311209	93.94232862	90.23343327	86.69693327
230208A00055	2/8/2023	4.22	2/6/2026	102.4215685	101.8047004	101.1952754	100.5931591	99.99822038	99.41033137	98.82936705	98.25520541	97.6877273
230208A00060	2/8/2023	4.06	2/8/2027	106.7475124	105.1013015	103.488845	101.9091721	100.361349	98.84447717	97.35769176	95.90015994	94.47107943
230209A00024	2/9/2023	4.4	2/5/2026	102.4776661	101.8639043	101.2575058	100.6583387	100.0662738	99.48118545	98.90295057	98.33144914	97.76656387

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230209A00025	2/9/2023	4.25	2/5/2027	106.8994271	105.2629943	103.6599663	102.0893878	100.5503395	99.04193689	97.56332811	96.11369273	94.69224017
230209A00027	2/9/2023	4.12	2/7/2028	111.1811024	108.4696846	105.8393218	103.287084	100.8101677	98.4058893	96.0716794	93.80507677	91.6037231
230209A00037	2/9/2023	4.12	2/9/2028	111.2062141	108.4885407	105.852239	103.294362	100.8120903	98.40272552	96.06368428	93.79249216	91.58677848
230210A00035	2/10/2023	4.52	2/10/2026	102.6112715	101.9832228	101.3628809	100.7501041	100.1447544	99.5466972	98.95580101	98.37193752	97.79498149
230210A00055	2/10/2023	4.02	2/10/2028	111.1475344	108.4235001	105.7811834	103.2176193	100.7299713	98.31552515	95.97168208	93.69595351	91.4859553
230210A00062	2/10/2023	4.13	2/10/2027	106.8891426	105.2356733	103.6161818	102.0296877	100.4752482	98.95195613	97.45893873	95.99535544	94.56039674
230210A00065	2/10/2023	4.02	2/10/2028	111.1475344	108.4235001	105.7811834	103.2176193	100.7299713	98.31552515	95.97168208	93.69595351	91.4859553
230213A00020	2/15/2023	4.28	1/25/2028	111.4389472	108.76152	106.1633025	103.641465	101.1932984	98.81620746	96.50770606	94.26541121	92.08703823
230214A00031	2/14/2023	4.31	2/14/2028	111.7750816	109.0349723	106.3771861	103.7987288	101.2967365	98.86846874	96.51130262	94.22272646	92.0003344
230215A00008	2/15/2023	4.49	2/16/2027	107.4480387	105.7736298	104.1338204	102.5276038	100.9540121	99.41211453	97.90101581	96.41985415	94.96779986
230215A00035	2/15/2023	4.47	2/17/2026	102.7085026	102.0601633	101.4200306	100.7879491	100.1637672	99.54733724	98.93851517	98.33716047	97.74313612
230215A00045	2/15/2023	4.37	2/15/2028	111.9481516	109.2027493	106.5398796	103.9565383	101.4498518	99.01707104	96.65556436	94.36281217	92.13640107
230217A00036	2/17/2023	4.44	2/17/2028	112.1616977	109.4074777	106.7361692	104.1447492	101.6303261	99.19013406	96.82152562	94.52196626	92.2890285
230217A00052	2/17/2023	4.55	2/17/2027	107.5618775	105.8834585	104.239759	102.6297669	101.0525098	99.50705241	97.9924951	96.50797211	95.05264988
230221A00004	2/21/2023	4.47	2/18/2028	112.2553901	109.4969325	106.8215724	104.2262771	101.7081464	99.26440605	96.89240082	94.58958879	92.35353554
230221A00007	2/21/2023	4.5	10/18/2027	110.7222383	108.3305705	106.0032823	103.7382336	101.5333708	99.38672269	97.2963964	95.26057375	93.27750771
230222A00024	2/22/2023	4.74	3/2/2026	103.0027816	102.3178994	101.6421422	100.9753285	100.3172813	99.66782839	99.02680211	98.39403903	97.76937994
230223A00010	2/23/2023	4.68	10/3/2025	101.144488	100.8798115	100.6165242	100.3546154	100.094074	99.8348895	99.57705113	99.32054844	99.06537104
230223A00012	2/23/2023	4.68	10/3/2025	101.144488	100.8798115	100.6165242	100.3546154	100.094074	99.8348895	99.57705113	99.32054844	99.06537104
230223A00033	2/23/2023	4.5	2/23/2028	112.4037227	109.6283662	106.9369398	104.326367	101.7937062	99.33614415	96.95098926	94.63566519	92.38770517
230224A00015	2/24/2023	4.86	3/17/2026	103.2836719	102.5561341	101.8388832	101.1317017	100.4343781	99.7467068	99.06848805	98.39952741	97.73963582
230224A00029	2/24/2023	4.87	2/24/2026	103.0123279	102.3440451	101.6844536	101.0333843	100.3906728	99.75615857	99.12968534	98.51110077	97.90025634
230227A00060	2/27/2023	4.86	2/27/2026	103.0447402	102.3680093	101.700183	101.0410865	100.3905491	99.74840491	99.11449201	98.48865279	97.87073358
230228A00009	2/28/2023	4.69	2/27/2026	102.9776967	102.3006134	101.6324488	100.9730275	100.3221783	99.67973498	99.04553517	98.41942086	97.801238
230228A00010	2/28/2023	4.5	2/26/2027	107.7307	106.0213706	104.3477932	102.7089108	101.1037082	99.53121007	97.99047857	96.48061193	95.00074245
230301A00029	3/1/2023	4.59	3/1/2028	112.7419628	109.9413255	107.2258293	104.5923343	102.0378392	99.55947488	97.15449688	94.82027934	92.55430881
230301A00036	3/1/2023	4.91	3/2/2026	103.1183131	102.4329927	101.7568015	101.0895578	100.4310846	99.78120977	99.1397654	98.50658806	97.88151849
230301A00047	3/1/2023	4.61	3/1/2028	112.7375909	109.9448447	107.2383121	104.6147455	102.0710448	99.60424963	97.21153218	94.8901896	92.63763774
230302A00028	3/2/2023	5.02	3/2/2026	103.1930688	102.5074648	101.8309928	101.1634708	100.5047221	99.85457419	99.21285929	98.5794139	97.95407873
230302A00047	3/2/2023	4.76	3/2/2028	112.5277558	109.8590097	107.271598	104.7624792	102.328749	99.9676336	97.67648214	95.45276045	93.29404492
230303A00035	5/15/2023	4.65	5/15/2030	123.0765581	117.7674513	112.7258377	107.936793	103.3863016	99.06119728	94.94910719	91.03840001	87.31813793
230303A00036	5/15/2023	4.53	5/15/2028	113.5474075	110.5235364	107.5974088	104.7653364	102.0237909	99.36939581	96.79891939	94.3092673	91.89747614
230303A00037	5/15/2023	4.81	5/15/2026	104.0378354	103.1430613	102.2637402	101.3994734	100.5498759	99.71457562	98.89321323	98.08544119	97.29092348

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230303A00038	4/14/2023	4.56	4/14/2028	113.2336208	110.3021754	107.4630625	104.7128142	102.0481165	99.46580082	96.96283716	94.53632653	92.18349455
230303A00041	4/14/2023	4.56	4/14/2028	113.2336208	110.3021754	107.4630625	104.7128142	102.0481165	99.46580082	96.96283716	94.53632653	92.18349455
230303A00057	3/3/2023	4.77	3/3/2027	108.1362353	106.4111462	104.7223053	103.068634	101.4490969	99.8626994	98.30848553	96.78553633	95.29296781
230303A00059	3/3/2023	4.56	3/3/2027	107.9025258	106.1773614	104.4884866	102.8348208	101.2153264	99.62900692	98.07490473	96.55209911	95.05970453
230307A00004	3/7/2023	4.67	3/7/2028	112.9780722	110.1652325	107.4396414	104.7980238	102.2372514	99.75433523	97.34641838	95.01076895	92.74477361
230307A00020	3/7/2023	4.98	3/9/2026	103.2612392	102.5559787	101.8603856	101.1742616	100.497414	99.82965519	99.17080251	98.52067829	97.87910953
230307A00021	3/7/2023	4.63	3/7/2028	112.9291786	110.1092674	107.3754844	104.7246362	102.1536717	99.65967448	97.23985616	94.89154934	92.61220155
230307A00022	3/7/2023	4.77	3/8/2027	108.2066274	106.4671902	104.7645166	103.097505	101.4650983	99.8662812	98.30007855	96.76555291	95.26180295
230307A00026	3/7/2023	4.98	3/6/2026	103.2203734	102.5235853	101.8362337	101.1581275	100.4890808	99.82891241	99.17744627	98.53451079	97.89993889
230307A00034	3/7/2023	4.41	3/7/2028	112.5305168	109.7116791	106.9790651	104.3294739	101.7598478	99.26726418	96.84892875	94.50216866	92.22442632
230307A00114	3/7/2023	4.65	3/7/2028	112.9836767	110.1630186	107.4285064	104.7769458	102.2052853	99.71060799	97.29012502	94.94116849	92.66118547
230308A00019	3/8/2023	5.05	3/9/2026	103.3101691	102.6047187	101.9089375	101.2226273	100.5455952	99.8776536	99.2186199	98.56831637	97.92656997
230309A00003	3/9/2023	5.06	3/9/2026	103.3171591	102.6116815	101.9158735	101.2295366	100.5524782	99.88451051	99.22545096	98.57512181	97.93335003
230309A00004	3/9/2023	4.86	3/9/2027	108.3747622	106.6310934	104.9243166	103.2533249	101.6170561	100.0144902	98.44464739	96.90658605	95.39940074
230309A00005	3/9/2023	5.06	3/9/2026	103.3171591	102.6116815	101.9158735	101.2295366	100.5524782	99.88451051	99.22545096	98.57512181	97.93335003
230309A00027	3/9/2023	4.68	3/9/2028	113.0919992	110.2642758	107.5230437	104.8650903	102.2873466	99.78687986	97.3608857	95.00668202	92.7217024
230309A00030	3/9/2023	5.01	3/9/2026	103.2822091	102.5768672	101.8811935	101.1949898	100.5180631	99.85022594	99.19129568	98.54109461	97.89944972
230309A00031	3/9/2023	5.01	3/9/2026	103.2822091	102.5768672	101.8811935	101.1949898	100.5180631	99.85022594	99.19129568	98.54109461	97.89944972
230309A00032	3/9/2023	4.82	3/9/2027	108.306293	106.5632286	104.8570452	103.1866362	101.5509396	99.94893576	98.37964521	96.8421265	95.3354745
230309A00033	3/9/2023	4.82	3/9/2027	108.306293	106.5632286	104.8570452	103.1866362	101.5509396	99.94893576	98.37964521	96.8421265	95.3354745
230309A00034	3/9/2023	4.64	3/9/2028	112.98278	110.1565563	107.4167886	104.7602655	102.1839192	99.68481781	97.26015803	94.90725869	92.6235543
230309A00035	3/9/2023	4.64	3/9/2028	112.98278	110.1565563	107.4167886	104.7602655	102.1839192	99.68481781	97.26015803	94.90725869	92.6235543
230309A00036	3/9/2023	4.46	3/9/2028	112.6926707	109.8660247	107.1259656	104.4692739	101.8928738	99.39382597	96.9693204	94.6166694	92.33330144
230309A00038	3/9/2023	4.85	3/9/2026	103.219435	102.5137003	101.8176491	101.1310827	100.4538076	99.78563586	99.12638433	98.47587489	97.83393408
230309A00041	3/9/2023	4.85	3/9/2026	103.219435	102.5137003	101.8176491	101.1310827	100.4538076	99.78563586	99.12638433	98.47587489	97.83393408
230309A00057	3/9/2023	4.86	3/9/2027	108.3747622	106.6310934	104.9243166	103.2533249	101.6170561	100.0144902	98.44464739	96.90658605	95.39940074
230309A00080	3/9/2023	4.68	3/9/2028	113.0919992	110.2642758	107.5230437	104.8650903	102.2873466	99.78687986	97.3608857	95.00668202	92.7217024
230309A00091	3/9/2023	4.68	3/9/2028	113.0919992	110.2642758	107.5230437	104.8650903	102.2873466	99.78687986	97.3608857	95.00668202	92.7217024
230309A00096	3/9/2023	4.68	3/9/2028	113.0919992	110.2642758	107.5230437	104.8650903	102.2873466	99.78687986	97.3608857	95.00668202	92.7217024
230310A00017	3/10/2023	4.43	3/9/2029	116.9521901	113.0200184	109.2443976	105.6181727	102.1345614	98.78713147	95.56978095	92.47671859	89.50244607
230310A00024	3/10/2023	4.38	3/10/2028	112.2853072	109.46588	106.7328391	104.0829717	101.5132086	99.02061696	96.60239276	94.25585419	91.97843532
230310A00030	3/10/2023	4.38	3/10/2028	112.2853072	109.46588	106.7328391	104.0829717	101.5132086	99.02061696	96.60239276	94.25585419	91.97843532
230310A00037	3/10/2023	4.69	3/10/2026	103.0713476	102.3640542	101.6664978	100.978478	100.2997996	99.63027293	98.9697135	98.31794159	97.67478234

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230310A00039	3/10/2023	4.33	3/10/2028	112.1486439	109.331095	106.5998882	103.9518122	101.3837992	98.89291755	96.4763645	94.13145944	91.8556376
230310A00047	6/9/2023	4.22	6/9/2028	112.9388527	109.8536267	106.8703961	103.9852253	101.194353	98.49418415	95.88128099	93.35235551	90.90426199
230310A00049	3/10/2023	4.7	3/10/2026	103.0783653	102.3710446	101.6734612	100.9854145	100.3067095	99.63715659	98.97657111	98.32477341	97.6815886
230310A00054	9/8/2023	4.09	9/11/2028	113.6279187	110.2671513	107.0251657	103.897037	100.8780778	97.96382556	95.15002982	92.43264074	89.80779803
230310A00069	3/10/2023	4.7	3/9/2026	103.0655195	102.3610187	101.6661779	100.9807991	100.3046895	99.63766156	98.97953293	98.33012597	97.68926778
230310A00071	3/10/2023	4.38	3/10/2028	112.2853072	109.46588	106.7328391	104.0829717	101.5132086	99.02061696	96.60239276	94.25585419	91.97843532
230310A00073	3/10/2023	4.7	3/6/2026	103.0269819	102.330937	101.6443215	100.9669443	100.2986196	99.63916663	98.98840914	98.34617572	97.71229941
230310A00089	3/10/2023	4.7	3/10/2026	103.0783653	102.3710446	101.6734612	100.9854145	100.3067095	99.63715659	98.97657111	98.32477341	97.6815886
230310A00091	3/10/2023	4.53	3/10/2027	107.8233037	106.0817602	104.3771212	102.7082777	101.0741657	99.47376322	97.906089	96.37019981	94.86518884
230310A00092	3/10/2023	4.38	3/10/2028	112.2853072	109.46588	106.7328391	104.0829717	101.5132086	99.02061696	96.60239276	94.25585419	91.97843532
230310A00114	3/10/2023	4.5	3/10/2027	107.7718684	106.0307796	104.326587	102.6581819	101.0245004	99.4245208	97.85726202	96.32178105	94.81717128
230310A00120	3/10/2023	4.33	3/10/2028	112.1486439	109.331095	106.5998882	103.9518122	101.3837992	98.89291755	96.4763645	94.13145944	91.8556376
230313A00036	3/13/2023	4.06	3/13/2028	111.4453427	108.6291513	105.89954	103.2532785	100.6872818	98.19860217	95.78442179	93.44204614	91.1688975
230313A00048	3/13/2023	4.25	3/13/2026	102.7973641	102.0828372	101.3782679	100.6834486	99.99817749	99.32225842	98.65550049	97.99771798	97.3487302
230313A00052	3/13/2023	4.17	3/15/2027	107.2681413	105.5178253	103.8048323	102.1280328	100.4863433	98.87872407	97.30417641	95.76174107	94.25049602
230313A00057	3/13/2023	4.06	3/13/2028	111.4453427	108.6291513	105.89954	103.2532785	100.6872818	98.19860217	95.78442179	93.44204614	91.1688975
230313A00061	3/13/2023	4.06	3/13/2028	111.4453427	108.6291513	105.89954	103.2532785	100.6872818	98.19860217	95.78442179	93.44204614	91.1688975
230313A00072	3/13/2023	4.06	3/13/2028	111.4453427	108.6291513	105.89954	103.2532785	100.6872818	98.19860217	95.78442179	93.44204614	91.1688975
230313A00078	3/13/2023	4.41	3/13/2026	102.9109777	102.1960038	101.4909918	100.7957342	100.1100291	99.43368009	98.76649638	98.10829215	97.45888663
230313A00090	3/13/2023	4.41	3/13/2026	102.9109777	102.1960038	101.4909918	100.7957342	100.1100291	99.43368009	98.76649638	98.10829215	97.45888663
230313A00091	3/13/2023	4.15	3/13/2028	111.692089	108.8724966	106.1395642	103.4900592	100.9208941	98.42911875	96.01191307	93.66658038	91.3905409
230313A00098	3/13/2023	4.41	3/13/2026	102.9109777	102.1960038	101.4909918	100.7957342	100.1100291	99.43368009	98.76649638	98.10829215	97.45888663
230313A00102	3/13/2023	4.15	3/13/2028	111.692089	108.8724966	106.1395642	103.4900592	100.9208941	98.42911875	96.01191307	93.66658038	91.3905409
230313A00112	3/13/2023	4.15	3/13/2028	111.692089	108.8724966	106.1395642	103.4900592	100.9208941	98.42911875	96.01191307	93.66658038	91.3905409
230313A00119	3/13/2023	4.41	3/13/2026	102.9109777	102.1960038	101.4909918	100.7957342	100.1100291	99.43368009	98.76649638	98.10829215	97.45888663
230313A00121	3/13/2023	4.29	3/15/2027	107.4755502	105.7233868	104.0085802	102.33	100.6865618	99.07722488	97.50098981	95.95689647	94.44402206
230313A00123	3/13/2023	4.22	9/15/2027	109.6594414	107.3726429	105.1455197	102.9760741	100.8623925	98.80264121	96.7950627	94.83797128	92.92974971
230313A00128	3/13/2023	4.18	12/15/2027	110.6844978	108.1303313	105.6491825	103.2385421	100.8960025	98.61925347	96.4060772	94.2543441	92.16200877
230313A00134	3/13/2023	4.16	4/14/2028	112.1013001	109.1859467	106.3625388	103.6276212	100.9778916	98.41019323	95.92150703	93.50894468	91.16974202
230313A00135	3/13/2023	4.17	6/15/2028	112.8603897	109.759173	106.7610453	103.8620064	101.0582345	98.34607747	95.72204425	93.1827965	90.72514123
230313A00149	3/13/2023	4.15	3/13/2028	111.692089	108.8724966	106.1395642	103.4900592	100.9208941	98.42911875	96.01191307	93.66658038	91.3905409
230313A00152	3/13/2023	4.18	3/13/2028	111.7743378	108.9536116	106.2195723	103.5689862	100.9987649	98.50595761	96.08774349	93.74142513	91.46442204
230313A00158	3/13/2023	4.41	3/13/2026	102.9109777	102.1960038	101.4909918	100.7957342	100.1100291	99.43368009	98.76649638	98.10829215	97.45888663

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230313A00159	3/13/2023	4.41	3/13/2026	102.9109777	102.1960038	101.4909918	100.7957342	100.1100291	99.43368009	98.76649638	98.10829215	97.45888663
230313A00177	3/13/2023	4.41	3/13/2026	102.9109777	102.1960038	101.4909918	100.7957342	100.1100291	99.43368009	98.76649638	98.10829215	97.45888663
230313A00179	3/13/2023	4.29	3/15/2027	107.4755502	105.7233868	104.0085802	102.33	100.6865618	99.07722488	97.50098981	95.95689647	94.44402206
230313A00180	3/13/2023	4.15	3/13/2028	111.692089	108.8724966	106.1395642	103.4900592	100.9208941	98.42911875	96.01191307	93.66658038	91.3905409
230313A00215	3/13/2023	4.13	3/13/2028	111.6372565	108.8184198	106.0862255	103.4374413	100.8689803	98.37789284	95.96135945	93.61668389	91.34128681
230314A00003	3/14/2023	4.64	3/16/2026	103.112335	102.3882532	101.6743736	100.9704814	100.2763674	99.5918285	98.91666717	98.25069121	97.59371369
230314A00011	3/14/2023	4.38	3/14/2028	112.3351148	109.5038774	106.7596645	104.0992279	101.5194657	99.017414	96.59023966	94.23523361	91.94980432
230314A00014	3/14/2023	4.18	3/14/2028	111.6911901	108.9250861	106.2450155	103.6477636	101.1302581	98.68956135	96.32286371	94.02747688	91.80082781
230314A00015	3/14/2023	4.55	9/14/2026	105.4335652	104.1901346	102.9761645	101.7906151	100.6324949	99.50085823	98.39480235	97.31346527	96.25602336
230314A00016	3/14/2023	4.38	3/14/2028	112.3351148	109.5038774	106.7596645	104.0992279	101.5194657	99.017414	96.59023966	94.23523361	91.94980432
230314A00017	3/14/2023	4.39	1/18/2028	111.6370984	108.9765443	106.3942764	103.8875152	101.4535986	99.08997609	96.79420305	94.56393578	92.39692655
230314A00019	3/14/2023	4.39	1/18/2028	111.6370984	108.9765443	106.3942764	103.8875152	101.4535986	99.08997609	96.79420305	94.56393578	92.39692655
230314A00021	3/14/2023	4.41	10/13/2027	110.4485238	108.0739199	105.7629476	103.5134783	101.323471	99.1909679	97.11409053	95.0910356	93.12007147
230314A00024	3/14/2023	4.41	10/13/2027	110.4485238	108.0739199	105.7629476	103.5134783	101.323471	99.1909679	97.11409053	95.0910356	93.12007147
230314A00028	3/14/2023	4.43	7/14/2027	109.308714	107.2011578	105.1455987	103.1404122	101.1840363	99.27496909	97.41176581	95.59303615	93.8174418
230314A00030	3/14/2023	4.43	7/14/2027	109.308714	107.2011578	105.1455987	103.1404122	101.1840363	99.27496909	97.41176581	95.59303615	93.8174418
230314A00032	3/14/2023	4.45	4/14/2027	108.1514405	106.309585	104.5084111	102.7467132	101.023332	99.33715226	97.68710099	96.07214516	94.49128995
230314A00034	3/14/2023	4.45	4/14/2027	108.1514405	106.309585	104.5084111	102.7467132	101.023332	99.33715226	97.68710099	96.07214516	94.49128995
230314A00054	3/14/2023	4.46	3/15/2027	107.7693795	106.014599	104.2972231	102.6161202	100.9702047	99.35843438	97.77980879	96.23336661	94.71818395
230314A00067	3/14/2023	4.16	3/14/2028	111.9329853	109.1028665	106.3598681	103.7007347	101.1223573	98.62176578	96.19612109	93.8427086	91.55893157
230314A00070	3/14/2023	4.25	3/12/2027	107.4922783	105.7460222	104.0369009	102.3637947	100.7256288	99.12137184	97.55003318	96.01066098	94.50234022
230314A00081	3/14/2023	4.16	3/14/2028	111.9329853	109.1028665	106.3598681	103.7007347	101.1223573	98.62176578	96.19612109	93.8427086	91.55893157
230315A00007	3/15/2023	4.2	3/16/2026	102.7962391	102.073414	101.3607786	100.6581183	99.96522417	99.28189329	98.60792825	97.9431371	97.28733306
230315A00010	3/15/2023	4.2	3/13/2026	102.7618598	102.0474727	101.3430417	100.6483593	99.96322388	99.28743915	98.62081427	97.96316356	97.31430632
230315A00013	3/15/2023	4.2	3/16/2026	102.7962391	102.073414	101.3607786	100.6581183	99.96522417	99.28189329	98.60792825	97.9431371	97.28733306
230315A00016	3/15/2023	4.08	3/16/2027	107.1247473	105.3729735	103.6586014	101.9804975	100.3375746	98.72878928	97.15313969	95.60966341	94.09743548
230315A00023	3/15/2023	4.2	3/16/2026	102.7962391	102.073414	101.3607786	100.6581183	99.96522417	99.28189329	98.60792825	97.9431371	97.28733306
230315A00024	3/15/2023	4.03	3/15/2028	111.3860474	108.5651348	105.8310936	103.180677	100.6107842	98.11845279	95.70085117	93.35527193	91.07912524
230315A00030	3/15/2023	4.03	3/15/2028	111.3860474	108.5651348	105.8310936	103.180677	100.6107842	98.11845279	95.70085117	93.35527193	91.07912524
230315A00055	3/15/2023	4.2	3/11/2026	102.7389401	102.0301755	101.3312121	100.6418472	99.96188378	99.29113002	98.62939941	97.97651041	97.33228635
230315A00068	3/15/2023	4.2	3/16/2026	102.7962391	102.073414	101.3607786	100.6581183	99.96522417	99.28189329	98.60792825	97.9431371	97.28733306
230315A00084	3/15/2023	4.08	3/24/2027	107.2220549	105.4475146	103.7112136	102.0119808	100.3486932	98.72027393	97.12568922	95.56394664	94.03409281
230315A00098	3/15/2023	4.08	3/15/2027	107.1125847	105.3636542	103.6520213	101.9765574	100.3361795	98.72984845	97.15656637	95.61537453	94.10535149

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230315A00116	3/15/2023	4.36	3/16/2026	102.9111831	102.187901	101.4748132	100.7717049	100.0783672	99.394597	98.72019695	98.05497496	97.3987442
230315A00117	3/15/2023	4.17	3/15/2027	107.2681413	105.5178253	103.8048323	102.1280328	100.4863433	98.87872407	97.30417641	95.76174107	94.25049602
230315A00125	3/15/2023	4.11	3/15/2027	107.1644369	105.4150446	103.7029583	102.0270492	100.3862341	98.77947366	97.20576972	95.66416338	94.153733
230315A00131	3/15/2023	4.13	3/15/2027	107.199005	105.4493048	103.7369163	102.0607104	100.4196038	98.81255713	97.23857195	95.69668928	94.18598734
230316A00001	3/16/2023	3.81	3/16/2028	110.9936508	108.1709626	105.4354005	102.7837015	100.2127497	97.71956848	95.30131314	92.95526386	90.67881921
230316A00017	3/16/2023	3.81	3/16/2028	110.9936508	108.1709626	105.4354005	102.7837015	100.2127497	97.71956848	95.30131314	92.95526386	90.67881921
230316A00021	3/16/2023	4.2	3/16/2026	102.7962391	102.073414	101.3607786	100.6581183	99.96522417	99.28189329	98.60792825	97.9431371	97.28733306
230316A00032	3/16/2023	4.39	3/16/2026	102.9327351	102.2093673	101.4961947	100.7930024	100.0995815	99.41572895	98.74124733	98.07594455	97.41963379
230316A00046	3/16/2023	4.18	6/16/2026	103.8637823	102.8808773	101.9166248	100.9704968	100.0419848	99.1305995	98.23586943	97.35734031	96.4945743
230316A00047	3/16/2023	4.07	9/16/2027	109.3356188	107.0496605	104.8234345	102.6549381	100.5422539	98.48354427	96.47704811	94.52107643	92.61400885
230316A00048	3/16/2023	4.05	6/16/2028	112.5114368	109.4126115	106.4169311	103.5203889	100.7191571	98.00957781	95.38815468	92.85154458	90.39655003
230316A00055	3/16/2023	4.03	3/16/2028	111.3975242	108.5736833	105.8368732	103.1838382	100.6114692	98.11679594	95.69697973	93.34930627	91.07117932
230316A00060	3/16/2023	3.89	3/16/2027	106.9200191	105.1678945	103.4532198	101.7748593	100.1317234	98.52276658	96.94698498	95.40341428	93.89112773
230316A00061	3/16/2023	4.31	9/16/2025	100.846057	100.6291237	100.4131375	100.1980922	99.9839816	99.77079955	99.55853994	99.34719671	99.13676386
230316A00067	3/16/2023	3.89	3/16/2027	106.9200191	105.1678945	103.4532198	101.7748593	100.1317234	98.52276658	96.94698498	95.40341428	93.89112773
230316A00072	3/16/2023	4.1	3/16/2027	107.159371	105.4072884	103.6926131	102.0142115	100.3709962	98.76192375	97.18599206	95.6422386	94.12973829
230316A00076	3/16/2023	4.45	3/16/2026	102.9758391	102.2522999	101.5389576	100.8355973	100.1420101	99.45799284	98.78334809	98.11788375	97.46141296
230316A00078	3/16/2023	4.34	3/16/2027	107.5748559	105.8190671	104.1007533	102.4187793	100.7720557	99.15953737	97.58022049	96.03314092	94.51737197
230316A00082	3/16/2023	4.3	3/16/2028	112.1400202	109.3059154	106.5590834	103.8962608	101.3143311	98.81031705	96.38137298	94.02477806	91.73792973
230316A00113	3/16/2023	4.28	3/16/2026	102.9040275	102.180116	101.4664172	100.7627156	100.0688017	99.38447194	98.70952833	98.04377832	97.38703459
230317A00015	3/17/2023	4.13	3/17/2028	111.6842782	108.8536996	106.1104011	103.4511153	100.8727221	98.37224093	95.9468232	93.59374532	91.31040229
230317A00016	3/17/2023	4.22	3/17/2027	107.3796654	105.6228791	103.9036384	102.2208039	100.573283	98.96002712	97.38002942	95.8323228	94.31597785
230317A00025	3/17/2023	4.35	3/17/2026	102.9158745	102.189804	101.4740059	100.7682627	100.0723633	99.38610228	98.7092801	98.04170257	97.38318083
230317A00026	3/17/2023	4.22	3/17/2027	107.3796654	105.6228791	103.9036384	102.2208039	100.573283	98.96002712	97.38002942	95.8323228	94.31597785
230317A00047	3/17/2023	4.1	3/17/2028	111.6016951	108.7722591	106.0300764	103.3718802	100.7945513	98.29511006	95.87070846	93.51862372	91.23625155
230317A00048	3/17/2023	4.1	3/17/2028	111.6016951	108.7722591	106.0300764	103.3718802	100.7945513	98.29511006	95.87070846	93.51862372	91.23625155
230317A00049	3/17/2023	4.1	3/17/2028	111.6016951	108.7722591	106.0300764	103.3718802	100.7945513	98.29511006	95.87070846	93.51862372	91.23625155
230317A00050	3/17/2023	4.1	3/17/2028	111.6016951	108.7722591	106.0300764	103.3718802	100.7945513	98.29511006	95.87070846	93.51862372	91.23625155
230317A00051	3/17/2023	4.35	3/17/2026	102.9158745	102.189804	101.4740059	100.7682627	100.0723633	99.38610228	98.7092801	98.04170257	97.38318083
230320A00006	3/20/2023	4.25	3/20/2026	102.8785519	102.1443213	101.4205959	100.7071508	100.0037677	99.31023457	98.62634511	97.95189882	97.28670075
230320A00033	3/20/2023	4.35	3/20/2026	102.9515005	102.2169758	101.4929592	100.7792259	100.0755574	99.38174175	98.69757251	98.02284918	97.35737675
230320A00092	3/20/2023	4.31	3/20/2026	102.922321	102.187914	101.4640139	100.7503958	100.0468416	99.35313888	98.66908155	97.99446904	97.32910635
230321A00001	3/21/2023	4.48	3/23/2026	103.0830401	102.3396653	101.6070396	100.8849309	100.1731133	99.47136783	98.77948127	98.09724662	97.42446259

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230321A00002	3/21/2023	4.33	3/19/2027	107.5961179	105.8319141	104.1054963	102.415715	100.7614679	99.14169712	97.55538709	96.00156251	94.47928614
230321A00009	3/21/2023	4.27	3/21/2028	112.1182495	109.2705451	106.5108885	103.8359727	101.2426405	98.72787636	96.2887987	93.92265305	91.62680527
230321A00053	3/21/2023	4.27	3/21/2028	112.1182495	109.2705451	106.5108885	103.8359727	101.2426405	98.72787636	96.2887987	93.92265305	91.62680527
230321A00074	3/21/2023	4.23	3/21/2028	112.0076928	109.1615241	106.4033669	103.7299153	101.1380133	98.62464624	96.18693377	93.82212234	91.52757875
230322A00007	3/22/2023	4.54	3/21/2031	125.7752175	119.4970297	113.582174	108.0075239	102.7515539	97.7942196	93.11684744	88.70203319	84.53354866
230322A00009	3/22/2023	4.59	3/22/2032	129.5106427	122.062193	115.1091727	108.6156983	102.5486807	96.87759208	91.57425429	86.61264524	81.9687226
230322A00015	3/22/2023	4.24	3/22/2028	112.0473943	109.1978943	106.4365756	103.7601233	101.1653725	98.64930068	96.20901973	93.84176901	91.54490856
230322A00020	3/22/2023	4.2	3/22/2029	116.5221284	112.5539435	108.7452779	105.0887705	101.5774479	98.2047006	94.96426193	91.85018756	88.85683689
230323A00028	3/23/2023	4.1	3/23/2028	111.3699919	108.590868	105.8987474	103.2903966	100.7627221	98.3127637	95.93768757	93.63478019	91.40144247
230323A00029	3/23/2023	4.39	3/24/2031	124.9313843	118.6686709	112.7692205	107.2098698	101.9690618	97.0267252	92.36416362	87.96395355	83.80985077
230323A00030	3/23/2023	4.72	3/23/2037	145.240205	131.9562715	120.0943777	109.4916372	100.004742	91.50751154	83.88875915	77.05043527	70.90600894
230323A00034	3/23/2023	4.23	3/23/2026	102.89859	102.1559668	101.4240851	100.7027128	99.99162427	99.29060048	98.59942849	97.91790136	97.24581791
230323A00048	3/23/2023	4.07	3/23/2028	111.5886431	108.7427478	105.9850397	103.3121995	100.7210591	98.20859253	95.7719087	93.4082443	91.11495696
230323A00051	3/23/2023	3.85	3/23/2028	111.1820617	108.3373445	105.580911	102.9094347	100.3197401	97.80879502	95.37370224	93.01169279	90.72011904
230323A00054	3/23/2023	3.95	3/23/2028	111.256304	108.4150343	105.661842	102.9934116	100.4065783	97.89831921	95.46574654	93.1060999	90.81673978
230323A00056	3/23/2023	4	3/23/2027	107.069839	105.2994091	103.5670901	101.8717162	100.2121696	98.58737802	96.99631251	95.43798492	93.91144597
230323A00058	3/23/2023	3.96	9/23/2027	109.1722788	106.8682861	104.624923	102.4401409	100.3119788	98.23855874	96.21808109	94.2488208	92.32912353
230323A00065	3/23/2023	3.85	3/23/2028	111.1820617	108.3373445	105.580911	102.9094347	100.3197401	97.80879502	95.37370224	93.01169279	90.72011904
230323A00081	3/23/2023	3.85	3/23/2028	111.1820617	108.3373445	105.580911	102.9094347	100.3197401	97.80879502	95.37370224	93.01169279	90.72011904
230324A00001	3/24/2023	4.04	6/24/2026	103.8210176	102.8160919	101.8306597	100.8641573	99.9160423	98.98579307	98.07290746	97.17690201	96.29731108
230324A00006	3/24/2023	4.06	3/24/2026	102.7842353	102.0393087	101.3051976	100.5816676	99.86849073	99.1654456	98.47231716	97.78889637	97.11498006
230324A00021	3/24/2023	3.72	3/24/2028	110.2872156	107.5807277	104.9586558	102.4178682	99.9553688	97.56829001	95.25388664	93.00952976	90.83270111
230324A00023	3/24/2023	3.69	3/24/2028	110.7492459	107.9077892	105.15463	102.4864377	99.90003298	97.39237999	94.96057842	92.60185635	90.31356348
230324A00032	3/24/2023	3.93	3/24/2028	111.2121127	108.3686891	105.613485	102.9431766	100.3545912	97.8446988	95.41060464	93.04954195	90.75886523
230324A00036	3/24/2023	3.98	3/24/2027	107.0467121	105.273755	103.5390082	101.8413011	100.1795118	98.55256394	96.95942462	95.39910209	93.87064365
230324A00050	3/24/2023	4.13	3/24/2026	101.6233967	101.198841	100.7787224	100.3629638	99.95148985	99.54422706	99.14110373	98.74204984	98.34699708
230327A00046	3/27/2023	4.22	3/27/2026	102.937271	102.1834023	101.4405932	100.7086013	99.9871914	99.27613496	98.57521002	97.88420094	97.20289814
230327A00047	3/27/2023	4.08	3/27/2028	111.6628047	108.8047755	106.0355866	103.3518828	100.7504618	98.22826615	95.78237491	93.4099968	91.1084632
230328A00019	3/28/2023	4.12	3/27/2026	102.9148018	102.1603332	101.4169433	100.6843891	99.96243466	99.25085097	98.54941546	97.85791191	97.17613024
230328A00020	3/28/2023	3.98	3/28/2028	111.6001997	108.7357495	105.9605097	103.2711051	100.6643145	98.13706245	95.68641151	93.30955461	91.00380833
230328A00024	3/28/2023	4.2	3/28/2028	112.0084326	109.1427935	106.3662671	103.6754857	101.0672354	98.53844718	96.0861898	93.70766192	91.40018548
230328A00026	3/28/2023	4.34	3/28/2029	116.8388052	112.8552639	109.0322032	105.3621983	101.8382165	98.45359354	95.20201157	92.07747897	89.07431109
230328A00027	3/28/2023	4.22	3/28/2028	111.6719296	108.8926792	106.2006237	103.5925325	101.0653135	98.61600607	96.24177496	93.93990409	91.70779085

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230328A00028	3/28/2023	4.34	3/27/2026	103.368036	102.5342177	101.7139546	100.9069172	100.1127868	99.33125452	98.56202158	97.80479846	97.05930471
230328A00037	3/28/2023	4.21	3/28/2028	111.9403531	109.0918965	106.3333837	103.6614734	101.072968	98.56480565	96.13405452	93.77790601	91.49366905
230328A00045	3/28/2023	4.21	3/28/2028	111.9403531	109.0918965	106.3333837	103.6614734	101.072968	98.56480565	96.13405452	93.77790601	91.49366905
230328A00047	3/28/2023	4.21	3/28/2028	111.9403531	109.0918965	106.3333837	103.6614734	101.072968	98.56480565	96.13405452	93.77790601	91.49366905
230328A00051	3/28/2023	4.53	3/28/2033	129.3706397	121.6341929	114.4626109	107.8106181	101.6368247	95.90337319	90.57561886	85.62184061	81.01297938
230328A00052	3/28/2023	4.53	3/28/2033	129.3706397	121.6341929	114.4626109	107.8106181	101.6368247	95.90337319	90.57561886	85.62184061	81.01297938
230328A00098	3/28/2023	4.24	3/29/2027	107.5656511	105.7742901	104.0217449	102.3068188	100.6283651	98.98528433	97.37652146	95.8010639	94.25793919
230328A00100	3/28/2023	4.19	3/28/2028	111.9805983	109.1153485	106.3392021	103.6487919	101.0409039	98.51246973	96.06055821	93.68236832	91.37522221
230328A00111	3/28/2023	4.36	3/27/2026	103.0421151	102.287813	101.5445749	100.8121586	100.0903285	99.37885614	98.67751949	97.98610282	97.30439648
230329A00020	3/29/2023	4.23	3/29/2028	112.1039703	109.2342127	106.4537576	103.7592273	101.1473986	98.61519381	96.15967337	93.77802826	91.46757312
230329A00043	3/29/2023	4.36	3/27/2026	103.0421151	102.287813	101.5445749	100.8121586	100.0903285	99.37885614	98.67751949	97.98610282	97.30439648
230330A00011	3/30/2023	4.21	3/30/2028	112.0602252	109.1882982	106.4058171	103.7093961	101.0958037	98.56195502	96.10490362	93.72183397	91.41005464
230330A00062	3/30/2023	4.42	3/30/2026	103.1232549	102.3602909	101.6086335	100.8680327	100.1382456	99.41903638	98.71017621	98.01144267	97.32261973
230330A00083	3/30/2023	4.1	3/30/2027	107.4577352	105.6623621	103.9059766	102.1873743	100.505401	98.85895038	97.24696076	95.66841337	94.12232989
230331A00014	3/31/2023	4.34	3/31/2026	103.0745259	102.3089904	101.5548393	100.8118201	100.0796875	99.35820333	98.64713644	97.94626227	97.25536267
230331A00033	3/31/2023	4.34	3/31/2026	103.0745259	102.3089904	101.5548393	100.8118201	100.0796875	99.35820333	98.64713644	97.94626227	97.25536267
230331A00057	3/31/2023	4.08	3/31/2028	111.7092723	108.8394861	106.0591868	103.3649833	100.7536395	98.22206614	95.76731277	93.38656017	91.07711353
230404A00002	4/4/2023	4.1	4/2/2027	107.3676123	105.5669281	103.805455	102.0819885	100.3953739	98.74450335	97.12831392	95.54578487	93.99593568
230405A00008	4/5/2023	4.01	10/6/2025	100.9840869	100.7115567	100.4405048	100.1709193	99.90278828	99.63609985	99.37084234	99.10700421	98.84457402
230405A00010	4/5/2023	3.96	4/6/2026	102.8519467	102.0707594	101.3014547	100.5437629	99.79742202	99.06217818	98.3377849	97.62400298	96.92060021
230405A00012	4/5/2023	3.8	4/5/2028	110.9827982	108.1089713	105.325213	102.6281191	100.0144393	97.4810693	95.02504269	92.64352395	90.33380149
230405A00021	4/5/2023	3.96	4/6/2026	102.8519467	102.0707594	101.3014547	100.5437629	99.79742202	99.06217818	98.3377849	97.62400298	96.92060021
230405A00022	4/5/2023	3.8	4/5/2028	110.9827982	108.1089713	105.325213	102.6281191	100.0144393	97.4810693	95.02504269	92.64352395	90.33380149
230405A00037	4/5/2023	3.71	4/6/2026	102.7121025	101.9307871	101.1613695	100.4035793	99.65715394	98.92183895	98.19738733	97.48355935	96.78012232
230405A00044	4/5/2023	3.8	4/5/2028	110.9827982	108.1089713	105.325213	102.6281191	100.0144393	97.4810693	95.02504269	92.64352395	90.33380149
230405A00046	4/5/2023	3.82	10/5/2027	108.9917996	106.6562726	104.3829413	102.1697022	100.0145409	97.91552743	95.87081207	93.87862109	91.93725298
230405A00049	4/5/2023	3.81	4/5/2028	111.0108554	108.1366331	105.3524888	102.6550181	100.0409704	97.50724105	95.05086338	92.66900162	90.35894395
230406A00016	4/6/2023	3.89	4/6/2028	110.5596721	107.8479782	105.2213103	102.6765145	100.2105723	97.82059348	95.50381025	93.25757119	91.07933573
230406A00023	4/6/2023	3.84	4/6/2028	111.106184	108.2277697	105.439631	102.7383583	100.1206954	97.58353238	95.12389702	92.73894801	90.42596802
230406A00026	4/6/2023	3.92	4/6/2027	107.0953834	105.2859179	103.5160593	101.7846054	100.0904026	98.4323432	96.80936344	95.22044084	93.66459245
230406A00029	4/6/2023	3.84	4/6/2028	111.106184	108.2277697	105.439631	102.7383583	100.1206954	97.58353238	95.12389702	92.73894801	90.42596802
230406A00039	3/29/2024	3.43	3/31/2026	102.3829514	101.6203164	100.8690354	100.1288563	99.39953427	98.68083172	97.97251795	97.2743689	96.58616689
230406A00041	5/31/2024	3.25	5/29/2026	102.7879499	101.8604409	100.9496624	100.0551644	99.17651328	98.31329041	97.46509197	96.63152806	95.8122222

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230406A00043	7/31/2024	3.2	7/31/2026	103.3399355	102.2349229	101.1535257	100.0949929	99.0586047	98.04367152	97.04953205	96.07555189	95.12112227
230406A00044	9/30/2024	3.16	9/30/2026	103.8888285	102.6108728	101.3643358	100.1480693	98.9609803	97.80202789	96.67022018	95.56461138	94.48429923
230406A00045	4/29/2024	3.41	4/30/2027	106.4360994	104.565194	102.7364824	100.9487687	99.20089837	97.49175652	95.82026651	94.18538818	92.58611649
230406A00046	6/28/2024	3.35	6/30/2027	106.938888	104.8944883	102.9000472	100.9540278	99.05495161	97.20139552	95.39198954	93.62541432	91.90039897
230406A00047	8/30/2024	3.31	8/31/2027	107.4692547	105.2496201	103.0871783	100.9800452	98.92641484	96.92455496	94.97280371	93.06956602	91.21331031
230406A00049	10/31/2024	3.29	10/29/2027	108.0064391	105.6167849	103.2923239	101.0309152	98.83050064	96.6891018	94.60481588	92.57581259	90.60033083
230406A00050	4/6/2023	3.67	4/6/2027	106.7762552	104.9674444	103.1982734	101.4675382	99.77408314	98.11679875	96.49461946	94.90652126	93.3515197
230406A00052	4/6/2023	4.02	4/6/2026	102.8985428	102.1171565	101.3476551	100.5897685	99.84323503	99.10780056	98.38321863	97.66925002	96.96566247
230406A00105	4/6/2023	3.84	4/6/2028	111.106184	108.2277697	105.439631	102.7383583	100.1206954	97.58353238	95.12389702	92.73894801	90.42596802
230410A00011	4/10/2023	4.08	4/9/2027	107.4189708	105.5980568	103.8171384	102.0750125	100.3705238	98.70256236	97.07006115	95.47199424	93.9073746
230410A00012	4/10/2023	3.98	4/10/2028	111.5455646	108.6495327	105.8445893	103.1273026	100.4943943	97.94273167	95.46931987	93.07129473	90.74591619
230411A00054	4/11/2023	3.74	4/11/2028	111.0862064	108.1892146	105.3835624	102.6658063	100.0326568	97.48097029	95.00774137	92.61009571	90.28528339
230412A00005	4/12/2023	4.16	4/10/2026	103.0536247	102.2605039	101.4796172	100.7106825	99.95342659	99.20758439	98.47289888	97.74912066	97.03600777
230412A00006	4/12/2023	4.04	4/12/2027	107.3839792	105.5549174	103.7661801	102.0165649	100.3049164	98.63012363	96.99111815	95.38687178	93.81639477
230412A00007	4/12/2023	3.95	4/12/2028	111.4839031	108.5830346	105.7735667	103.0520598	100.4152272	97.85992771	95.38315764	92.98204399	90.65383773
230412A00028	4/12/2023	3.69	4/12/2028	110.9558993	108.0579009	105.2513644	102.5328437	99.89904609	97.34682469	94.87317065	92.47520613	90.15017759
230412A00031	4/12/2023	3.91	4/10/2026	102.9118562	102.1186089	101.3376111	100.5685802	99.81124236	99.06533187	98.33059115	97.60677029	96.89362678
230412A00033	4/12/2023	4.04	4/12/2027	107.3839792	105.5549174	103.7661801	102.0165649	100.3049164	98.63012363	96.99111815	95.38687178	93.81639477
230412A00038	4/12/2023	3.69	4/12/2028	110.9558993	108.0579009	105.2513644	102.5328437	99.89904609	97.34682469	94.87317065	92.47520613	90.15017759
230413A00017	4/13/2023	3.88	4/13/2028	111.2974064	108.3963305	105.5867585	102.8652484	100.228511	97.67340236	95.19691593	92.7961757	90.46842956
230413A00018	4/13/2023	3.96	4/13/2027	107.2515653	105.4209103	103.6306687	101.879639	100.1666664	98.49064008	96.85049158	95.24519249	93.67375261
230413A00020	4/13/2023	3.88	4/13/2028	111.2974064	108.3963305	105.5867585	102.8652484	100.228511	97.67340236	95.19691593	92.7961757	90.46842956
230413A00021	4/13/2023	4.07	4/13/2026	103.0167529	102.215486	101.4267095	100.6501326	99.88547333	99.13245842	98.39082292	97.66030989	96.94067007
230413A00031	4/13/2023	4.07	4/13/2026	103.0167529	102.215486	101.4267095	100.6501326	99.88547333	99.13245842	98.39082292	97.66030989	96.94067007
230413A00082	4/13/2023	4.01	4/13/2027	107.342017	105.510521	103.7194542	101.9676146	100.2538467	98.57703964	96.93612433	95.33007205	93.75789224
230417A00023	4/17/2023	3.86	4/7/2028	111.3795151	108.4898037	105.6908647	102.9792689	100.3517415	97.80515419	95.33651744	92.94297306	90.62178743
230417A00037	4/17/2023	4.39	4/16/2026	103.3081546	102.4972973	101.6992041	100.9135748	100.1401186	99.37855364	98.62860666	97.89001282	97.16251526
230417A00044	4/17/2023	4.32	4/17/2026	103.2638854	102.4504499	101.6498633	100.8618223	100.0860332	99.32221148	98.57008118	97.82937491	97.09983337
230417A00045	4/17/2023	4.21	4/16/2027	107.7421696	105.8984648	104.0955956	102.3323586	100.6075961	98.92019401	97.26907979	95.65322049	94.07162095
230417A00046	4/17/2023	4.13	4/17/2028	112.0522747	109.1290274	106.2982118	103.5563599	100.9001564	98.32643093	95.83215067	93.41441338	91.07044088
230417A00085	4/17/2023	4.68	4/17/2026	102.0081763	101.5423863	101.0819289	100.6267029	100.1766093	99.73155208	99.29143758	98.85617462	98.42567439
230418A00035	4/18/2023	4.13	4/18/2028	106.2273111	104.7204799	103.2500509	101.8148399	100.4137113	99.04557525	97.70938593	96.40413899	95.12886974
230418A00059	4/18/2023	4.09	4/17/2026	103.1348571	102.3212279	101.5204645	100.732263	99.95632896	99.19237711	98.44013103	97.69932269	96.96969224

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230419A00030	4/19/2023	4.39	4/20/2026	103.3570627	102.5348911	101.7258347	100.9295809	100.1458271	99.37428013	98.61465599	97.86667936	97.13008338
230419A00035	4/19/2023	4.16	4/19/2028	112.1615498	109.2310139	106.3932834	103.6448803	100.9824788	98.40289813	95.90309475	93.48015574	91.13129223
230420A00003	4/20/2023	4.06	4/20/2026	103.1451775	102.3231769	101.5143046	100.7182474	99.93470207	99.16337487	98.4039812	97.65624524	96.91989964
230420A00024	4/20/2023	4.31	4/20/2026	103.2918304	102.4699496	101.6611807	100.8652113	100.0817388	99.31046997	98.55112095	97.80341647	97.06708972
230420A00056	4/20/2023	4.38	4/20/2033	131.3899233	122.7495457	114.7640381	107.3798501	100.5480871	94.22408265	88.36701171	82.93954192	77.90751765
230420A00059	4/20/2023	4.72	4/20/2038	147.6747749	133.1890952	120.3735517	109.0223601	98.95627066	90.01901567	82.07424895	75.0029069	68.70093116
230420A00060	4/20/2023	4.72	4/20/2038	147.6747749	133.1890952	120.3735517	109.0223601	98.95627066	90.01901567	82.07424895	75.0029069	68.70093116
230420A00063	4/20/2023	4.65	4/20/2037	144.5953471	131.2716627	119.3835484	108.7656341	99.27252021	90.77626808	83.16421753	76.33708715	70.20731952
230420A00071	4/20/2023	4.31	4/20/2026	103.2918304	102.4699496	101.6611807	100.8652113	100.0817388	99.31046997	98.55112095	97.80341647	97.06708972
230421A00006	4/21/2023	4.04	4/21/2028	111.8436131	108.9118932	106.0732057	103.3240672	100.6611461	98.08125541	95.58134512	93.15849562	90.80991119
230421A00020	4/21/2023	4.23	4/21/2026	103.2383817	102.4139655	101.6027461	100.8044079	100.0186455	99.24516299	98.48367364	97.73389969	96.99557187
230421A00025	4/21/2023	4.04	4/21/2028	111.8436131	108.9118932	106.0732057	103.3240672	100.6611461	98.08125541	95.58134512	93.15849562	90.80991119
230421A00041	4/21/2023	4.22	4/21/2027	107.8243976	105.965766	104.1485496	102.3715453	100.633594	98.9335791	97.27042428	95.64309193	94.05058131
230421A00043	4/21/2023	4.1	4/21/2028	112.0146318	109.0804654	106.2393905	103.4879217	100.8227258	98.24061376	95.73853407	93.31356543	90.96291056
230421A00044	4/21/2023	4.13	10/21/2027	109.895295	107.5051214	105.1795286	102.9163767	100.7136118	98.56926128	96.48143019	94.44829768	92.46811349
230421A00062	4/21/2023	4.33	4/21/2028	106.5527908	105.0150303	103.5146321	102.0503782	100.6211007	99.22567899	97.86303731	96.53214281	95.23200338
230421A00064	4/21/2023	4.1	4/21/2028	112.0146318	109.0804654	106.2393905	103.4879217	100.8227258	98.24061376	95.73853407	93.31356543	90.96291056
230424A00003	4/24/2023	4.15	4/26/2027	107.7592955	105.8871147	104.056907	102.2674698	100.5176432	98.80630839	97.13238574	95.49483327	93.892645
230424A00005	4/24/2023	4.08	4/24/2028	111.9931084	109.0506565	106.2017949	103.443025	100.7709998	98.18251624	95.67450838	93.24404048	90.88830076
230424A00012	4/24/2023	4.28	4/24/2026	103.3150571	102.4819722	101.6623516	100.8558701	100.0622135	99.28107703	98.51216583	97.75519413	97.00988501
230424A00026	4/24/2023	4.28	4/24/2026	103.3150571	102.4819722	101.6623516	100.8558701	100.0622135	99.28107703	98.51216583	97.75519413	97.00988501
230424A00064	4/24/2023	4.28	4/24/2026	103.3150571	102.4819722	101.6623516	100.8558701	100.0622135	99.28107703	98.51216583	97.75519413	97.00988501
230425A00006	4/25/2023	3.89	4/24/2026	103.0506851	102.2180072	101.3988043	100.5927509	99.79953166	99.01884168	98.25038543	97.49387667	96.74903801
230425A00011	4/25/2023	4.3	9/25/2025	100.9423802	100.7003585	100.4595035	100.2198068	99.98125984	99.74385451	99.50758255	99.27243585	99.03840634
230425A00029	4/25/2023	4.14	4/24/2026	103.1993484	102.3667861	101.547682	100.7417113	99.94855968	99.16792265	98.39950536	97.64302216	96.89819625
230425A00030	4/25/2023	4.01	4/26/2027	107.5009695	105.6312359	103.8034296	102.0163489	100.2688354	98.55977145	96.88807857	95.2527159	93.65267853
230425A00031	4/25/2023	3.69	4/25/2028	111.0983494	108.1611648	105.3176768	102.5643798	99.89791964	97.31508668	94.81280834	92.38814248	90.03827108
230425A00032	4/25/2023	3.95	4/25/2028	111.6329464	108.6928015	105.8462906	103.0899148	100.4203262	97.83432071	95.32883115	92.90092034	90.54777483
230425A00040	4/25/2023	3.89	4/24/2026	103.0506851	102.2180072	101.3988043	100.5927509	99.79953166	99.01884168	98.25038543	97.49387667	96.74903801
230425A00045	4/25/2023	3.95	4/25/2028	111.6329464	108.6928015	105.8462906	103.0899148	100.4203262	97.83432071	95.32883115	92.90092034	90.54777483
230425A00047	4/25/2023	4.01	4/26/2027	107.5009695	105.6312359	103.8034296	102.0163489	100.2688354	98.55977145	96.88807857	95.2527159	93.65267853
230425A00050	4/25/2023	4.14	4/24/2026	103.1993484	102.3667861	101.547682	100.7417113	99.94855968	99.16792265	98.39950536	97.64302216	96.89819625
230425A00052	4/25/2023	4.01	4/26/2027	107.5009695	105.6312359	103.8034296	102.0163489	100.2688354	98.55977145	96.88807857	95.2527159	93.65267853

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230425A00053	4/25/2023	4.14	4/24/2026	103.1993484	102.3667861	101.547682	100.7417113	99.94855968	99.16792265	98.39950536	97.64302216	96.89819625
230425A00104	4/25/2023	3.86	7/15/2026	103.9553294	102.890177	101.8468947	100.8248132	99.82329016	98.84170893	97.87947744	96.93602684	96.01081039
230426A00003	4/26/2023	3.89	5/9/2028	111.6153396	108.6362998	105.7532756	102.9626594	100.2609992	97.64499091	95.11147105	92.65741023	90.27990656
230426A00004	4/26/2023	3.89	5/9/2028	111.6153396	108.6362998	105.7532756	102.9626594	100.2609992	97.64499091	95.11147105	92.65741023	90.27990656
230426A00005	4/26/2023	3.91	6/13/2028	112.0572757	108.9738391	105.9928147	103.1102343	100.3223064	97.62540732	95.01607295	92.49099057	90.04699142
230426A00006	4/26/2023	3.91	6/13/2028	112.0572757	108.9738391	105.9928147	103.1102343	100.3223064	97.62540732	95.01607295	92.49099057	90.04699142
230426A00007	4/26/2023	3.92	7/11/2028	112.3962872	109.2286728	106.1686051	103.2118181	100.3542411	97.59198842	94.92134963	92.33878077	89.84089571
230426A00008	4/26/2023	3.92	7/11/2028	112.3962872	109.2286728	106.1686051	103.2118181	100.3542411	97.59198842	94.92134963	92.33878077	89.84089571
230426A00009	4/26/2023	3.94	8/8/2028	112.7649464	109.513731	106.3749026	103.3439134	100.4164292	97.58831719	94.85563574	92.21462399	89.66169244
230426A00010	4/26/2023	3.94	8/8/2028	112.7649464	109.513731	106.3749026	103.3439134	100.4164292	97.58831719	94.85563574	92.21462399	89.66169244
230426A00011	4/26/2023	3.96	9/12/2028	113.2168313	109.8598618	106.6216849	103.4973698	100.4822244	97.57178164	94.76178712	92.04818731	89.42711866
230426A00012	4/26/2023	3.96	9/12/2028	113.2168313	109.8598618	106.6216849	103.4973698	100.4822244	97.57178164	94.76178712	92.04818731	89.42711866
230426A00013	4/26/2023	3.98	10/10/2028	113.5949866	110.1523445	106.8339307	103.6345293	100.549177	97.5731495	94.701948	91.93128705	89.25708291
230426A00014	4/26/2023	3.98	10/10/2028	113.5949866	110.1523445	106.8339307	103.6345293	100.549177	97.5731495	94.701948	91.93128705	89.25708291
230426A00025	4/26/2023	3.62	4/26/2028	110.9086065	107.9712916	105.1277765	102.3745529	99.70826422	97.12569791	94.6237784	92.19956045	89.85022285
230426A00033	4/26/2023	3.88	4/26/2028	111.4439147	108.5036265	105.6570757	102.9007606	100.2313308	97.64557949	95.14043641	92.71296127	90.36033746
230426A00036	4/26/2023	4.06	4/27/2026	103.1671667	102.3264283	101.4994114	100.6857817	99.88521572	99.0974005	98.32203288	97.55881928	96.80747528
230426A00037	4/26/2023	3.94	4/26/2027	107.3718065	105.5032966	103.6766908	101.8907885	100.1444315	98.43650298	96.76592499	95.13165721	93.53269529
230426A00040	4/26/2023	3.9	4/26/2028	111.5011996	108.5600881	105.7127338	102.9556346	100.2854394	97.69894075	95.19306786	92.76487988	90.41155966
230426A00046	4/26/2023	3.95	4/26/2028	111.644412	108.701242	105.8518791	103.0928196	100.4207109	97.8323439	95.32464648	92.89467639	90.53961515
230426A00049	4/26/2023	4.13	4/27/2026	103.2256031	102.3845983	101.5573179	100.7434278	99.94260442	99.15453465	98.37891531	97.61545277	96.86386257
230426A00062	4/26/2023	4.13	4/27/2026	103.2256031	102.3845983	101.5573179	100.7434278	99.94260442	99.15453465	98.37891531	97.61545277	96.86386257
230426A00064	6/15/2023	3.87	6/15/2028	111.9593095	108.8716452	105.8867303	103.0005758	100.2093709	97.50947371	94.89740317	92.36983051	89.92357192
230426A00065	6/15/2023	3.87	6/15/2028	111.9593095	108.8716452	105.8867303	103.0005758	100.2093709	97.50947371	94.89740317	92.36983051	89.92357192
230426A00142	4/26/2023	4.51	4/27/2026	101.9408113	101.4727321	101.0100629	100.5526993	100.1005401	99.65348638	99.21144223	98.7743141	98.34201093
230427A00066	4/27/2023	4.07	4/27/2027	107.6240764	105.7503454	103.9186778	102.1278715	100.3767672	98.664246	96.98922828	95.35067164	93.74756952
230427A00077	4/27/2023	4.14	10/27/2026	105.4602414	104.1121422	102.789039	101.4902717	100.2152037	98.96322021	97.73372787	96.52615354	95.3399435
230428A00017	4/28/2023	4.17	4/28/2026	103.2706127	102.4266269	101.5964566	100.7797643	99.97622336	99.1855178	98.40734158	97.64139837	96.88740109
230428A00018	4/28/2023	3.99	4/28/2028	111.7821364	108.8312614	105.9745804	103.2085788	100.529893	97.93530308	95.42172549	92.98620684	90.62591744
230428A00029	4/28/2023	4.23	4/28/2026	103.3208673	102.4766517	101.6462541	100.8293371	100.0255741	99.23464897	98.45625562	97.69009768	96.93588805
230428A00050	4/28/2023	4.31	4/28/2028	106.3905714	104.883235	103.4122992	101.9765814	100.5749471	99.20630778	97.86961841	96.56387547	95.28811494
230428A00055	4/28/2023	4.61	4/28/2026	101.9899039	101.5211011	101.0577275	100.5996782	100.1468512	99.69914721	99.25646955	98.81872415	98.38581943
230501A00011	5/1/2023	4.09	4/26/2027	107.6485844	105.7774524	103.9482738	102.1598466	100.4110113	98.7006497	97.02768267	95.39106868	93.78980223

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230501A00012	5/1/2023	3.98	5/1/2028	111.7876312	108.8281887	105.9634522	103.1898884	100.5041153	97.90289453	95.3831249	92.94183547	90.57617949
230502A00038	5/2/2023	3.86	5/2/2028	111.4530087	108.4956408	105.633032	102.8616433	100.1780875	97.57912129	95.06163899	92.6226654	90.25934984
230502A00047	5/2/2023	4.1	5/1/2026	103.2464867	102.3942919	101.5561821	100.7318101	99.92083983	99.12294632	98.33781485	97.5651408	96.80462918
230502A00052	5/2/2023	3.96	5/3/2027	107.4920407	105.6028869	103.7564698	101.951573	100.1870227	98.46168557	96.77446722	95.12431062	93.51019453
230502A00055	5/2/2023	4.08	5/4/2026	103.2643759	102.4037918	101.5575744	100.7253658	99.90681982	99.10160173	98.30938755	97.52986378	96.76272694
230502A00076	5/2/2023	3.95	5/3/2027	107.4733942	105.5844188	103.7381767	101.9334517	100.16907	98.44389833	96.75684246	95.1068454	93.49288602
230502A00079	5/2/2023	3.6	5/2/2028	110.9145822	107.9602325	105.1007048	102.3324534	99.65208473	97.05634992	94.54213773	92.10646801	89.74648542
230502A00081	5/2/2023	3.96	5/3/2027	107.4920407	105.6028869	103.7564698	101.951573	100.1870227	98.46168557	96.77446722	95.12431062	93.51019453
230502A00086	5/2/2023	4.08	5/1/2026	103.2295689	102.3774521	101.5394195	100.7151238	99.90422903	99.10641009	98.32135235	97.54875121	96.78831168
230502A00122	5/2/2023	3.7	5/3/2027	107.1411925	105.2529657	103.407508	101.603601	99.84006902	98.11577684	96.4296284	94.78056503	93.167564
230503A00004	5/3/2023	3.94	5/3/2027	107.4547476	105.5659507	103.7198836	101.9153304	100.1511172	98.42611108	96.73921769	95.08938019	93.47557752
230503A00012	5/3/2023	3.82	5/3/2028	111.3484179	108.3898051	105.5260854	102.7537114	100.0692881	97.46956509	94.95142954	92.51189989	90.14811936
230503A00014	5/3/2023	3.94	5/3/2027	107.4547476	105.5659507	103.7198836	101.9153304	100.1511172	98.42611108	96.73921769	95.08938019	93.47557752
230503A00020	5/3/2023	3.84	5/3/2028	111.406093	108.4466459	105.582112	102.8089436	100.123745	97.52326492	95.00439022	92.56413868	90.19965299
230503A00025	5/3/2023	3.84	5/3/2028	111.406093	108.4466459	105.582112	102.8089436	100.123745	97.52326492	95.00439022	92.56413868	90.19965299
230503A00029	5/3/2023	4.08	5/4/2026	103.2643759	102.4037918	101.5575744	100.7253658	99.90681982	99.10160173	98.30938755	97.52986378	96.76272694
230503A00030	5/3/2023	3.84	5/3/2028	111.406093	108.4466459	105.582112	102.8089436	100.123745	97.52326492	95.00439022	92.56413868	90.19965299
230503A00032	5/3/2023	4.08	5/1/2026	103.2295689	102.3774521	101.5394195	100.7151238	99.90422903	99.10641009	98.32135235	97.54875121	96.78831168
230503A00034	5/3/2023	3.84	5/3/2028	111.406093	108.4466459	105.582112	102.8089436	100.123745	97.52326492	95.00439022	92.56413868	90.19965299
230503A00072	5/3/2023	3.83	5/4/2026	103.1107532	102.2500628	101.4037567	100.5714762	99.75287436	98.94761568	98.15537555	97.37583983	96.60870439
230504A00006	5/4/2023	3.79	12/6/2027	109.6140465	107.0980456	104.6533784	102.2776162	99.96842785	97.72357521	95.54090894	93.41836437	91.35395758
230504A00007	5/4/2023	3.82	7/6/2027	107.9588126	105.8874131	103.86684	101.895519	99.97193604	98.09463466	96.26221299	94.47332151	92.72666066
230504A00011	5/4/2023	3.7	5/4/2026	102.9996705	102.1394976	101.2937029	100.4619277	99.64382546	98.8390606	98.04730868	97.26825564	96.50159749
230504A00019	5/4/2023	3.95	5/4/2026	103.153329	102.2932618	101.4475551	100.6158514	99.79780445	98.99307966	98.20135317	97.4223116	96.65565154
230504A00020	5/4/2023	3.83	5/4/2027	107.2609311	105.3712624	103.5244066	101.7191435	99.95429559	98.22872613	96.54133746	94.89106945	93.27689792
230504A00021	5/4/2023	3.76	5/4/2028	111.1858732	108.2268573	105.362848	102.5902903	99.905782	97.30606597	94.78802316	92.34866603	89.98513227
230504A00034	5/4/2023	3.95	5/4/2026	103.153329	102.2932618	101.4475551	100.6158514	99.79780445	98.99307966	98.20135317	97.4223116	96.65565154
230504A00041	5/4/2023	3.95	5/4/2026	103.153329	102.2932618	101.4475551	100.6158514	99.79780445	98.99307966	98.20135317	97.4223116	96.65565154
230504A00042	5/4/2023	3.83	5/4/2027	107.2609311	105.3712624	103.5244066	101.7191435	99.95429559	98.22872613	96.54133746	94.89106945	93.27689792
230504A00043	5/4/2023	3.76	5/4/2028	111.1858732	108.2268573	105.362848	102.5902903	99.905782	97.30606597	94.78802316	92.34866603	89.98513227
230504A00049	5/4/2023	3.95	5/4/2026	103.153329	102.2932618	101.4475551	100.6158514	99.79780445	98.99307966	98.20135317	97.4223116	96.65565154
230504A00054	5/4/2023	3.95	5/4/2026	103.153329	102.2932618	101.4475551	100.6158514	99.79780445	98.99307966	98.20135317	97.4223116	96.65565154
230504A00057	5/4/2023	3.86	5/4/2026	103.0764504	102.2167409	101.371388	100.5400337	99.72233227	98.91794899	98.12656014	97.34785239	96.58152242

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230504A00058	5/4/2023	3.69	5/4/2028	110.983815	108.0277251	105.1665703	102.3967983	99.71500886	97.11794707	94.60249593	92.1656699	89.80460854
230504A00059	5/4/2023	4.34	5/4/2026	102.0138191	101.509174	101.0107846	100.5185224	100.0322626	99.5518839	99.07726868	98.60830239	98.14487374
230504A00069	5/4/2023	3.82	5/4/2026	103.0422821	102.1827317	101.3375359	100.506337	99.68878908	98.88455759	98.0933188	97.31475941	96.54857615
230504A00084	5/4/2023	3.5	5/4/2028	110.64612	107.6901454	104.82924	102.0598424	99.37854389	96.78208164	94.26733117	91.83129993	89.47112091
230505A00002	5/5/2023	4.01	5/5/2026	103.2159899	102.3528622	101.5041924	100.6696191	99.84879286	99.04137562	98.2470404	97.46547077	96.69636044
230505A00005	5/5/2023	3.99	5/5/2026	103.1988503	102.3358026	101.4872119	100.6527167	99.83196769	99.02462679	98.23036704	97.44887202	96.67983546
230505A00014	5/5/2023	3.59	5/5/2028	110.9163922	107.9537414	105.0864268	102.3108742	99.62366309	97.02151914	94.50130717	92.06002443	89.69479429
230505A00016	5/5/2023	3.85	5/5/2028	111.4563939	108.4907022	105.6202836	102.8415707	100.1511491	97.5457505	95.02224501	92.577635	90.20904851
230505A00017	5/5/2023	4.01	5/5/2026	103.2159899	102.3528622	101.5041924	100.6696191	99.84879286	99.04137562	98.2470404	97.46547077	96.69636044
230505A00022	5/5/2023	3.85	5/5/2028	111.4563939	108.4907022	105.6202836	102.8415707	100.1511491	97.5457505	95.02224501	92.577635	90.20904851
230505A00027	5/5/2023	4.01	5/5/2026	103.2159899	102.3528622	101.5041924	100.6696191	99.84879286	99.04137562	98.2470404	97.46547077	96.69636044
230505A00035	5/5/2023	3.9	5/5/2027	107.4031417	105.5093824	103.6585797	101.8495079	100.0809839	98.35186586	96.66105108	95.00747468	93.39010793
230505A00071	5/5/2023	3.85	5/5/2028	111.4563939	108.4907022	105.6202836	102.8415707	100.1511491	97.5457505	95.02224501	92.577635	90.20904851
230508A00007	5/8/2023	3.92	5/8/2028	111.6914273	108.7140431	105.8325297	103.0432883	100.342875	97.72799335	95.19548719	92.74233394	90.3656381
230508A00016	5/8/2023	4.14	5/8/2026	103.3627039	102.4905778	101.6332003	100.7901992	99.96121447	99.14589818	98.3439138	97.55493579	96.77864914
230508A00017	5/8/2023	4.01	5/10/2027	107.6678481	105.7578874	103.8915247	102.0675076	100.284628	98.54171954	96.83765676	95.17135276	93.54175789
230508A00018	5/8/2023	3.92	5/8/2028	111.6914273	108.7140431	105.8325297	103.0432883	100.342875	97.72799335	95.19548719	92.74233394	90.3656381
230509A00010	5/9/2023	4.14	5/8/2026	103.3627039	102.4905778	101.6332003	100.7901992	99.96121447	99.14589818	98.3439138	97.55493579	96.77864914
230509A00036	5/9/2023	4.02	5/10/2027	107.6866893	105.7765466	103.9100053	102.0858131	100.3027615	98.55968432	96.85545586	95.18898918	93.55923456
230509A00060	5/9/2023	3.92	5/9/2028	111.702354	108.7220484	105.8377894	103.0459684	100.3431324	97.72597621	95.19133564	92.73618041	90.35760778
230509A00118	5/9/2023	4.12	5/8/2026	103.345398	102.4733534	101.6160564	100.7731348	99.94422864	99.12899004	98.32708245	97.53818036	96.76196878
230510A00009	5/10/2023	4.07	5/11/2026	103.3368586	102.4565392	101.591251	100.740611	99.90424874	99.08180652	98.27293833	97.47730961	96.69459673
230510A00014	5/10/2023	4.07	5/11/2026	103.3368586	102.4565392	101.591251	100.740611	99.90424874	99.08180652	98.27293833	97.47730961	96.69459673
230510A00018	11/10/2023	3.61	11/10/2026	104.90356	103.5226508	102.1666397	100.8349102	99.52686578	98.24192892	96.97954054	95.73915915	94.52026016
230510A00037	5/10/2023	3.84	5/10/2028	111.4810194	108.5011735	105.6174675	102.8262855	100.1241681	97.50780389	94.97402299	92.51978968	90.1421962
230510A00057	5/10/2023	3.98	5/11/2026	103.2582338	102.3782875	101.513368	100.6630922	99.82709	99.00500357	98.19648706	97.40120597	96.61883675
230510A00062	8/10/2023	3.78	8/10/2026	104.0914043	102.9541485	101.8417863	100.7535058	99.68853042	98.6461164	97.62555147	96.62615304	95.64726676
230511A00023	5/11/2023	3.95	5/19/2026	103.3219683	102.4195373	101.532901	100.6616468	99.80537642	98.96370509	98.13626123	97.32268578	96.52263167
230511A00032	5/11/2023	3.7	5/11/2026	103.0748794	102.1949576	101.3300793	100.4798607	99.6439308	98.82193111	98.01351507	97.21834756	96.43610437
230511A00036	5/11/2023	3.79	5/19/2027	107.3540127	105.4225152	103.5356347	101.6920745	99.89058399	98.1299568	96.40902895	94.72667708	93.08181674
230511A00038	5/11/2023	3.95	5/11/2026	103.2320255	102.3522036	101.487407	100.6372527	99.80137042	98.97940259	98.1710033	97.37583809	96.59358342
230511A00039	5/11/2023	3.86	11/27/2026	105.450828	104.0183022	102.6123883	101.2324078	99.87770465	98.54764465	97.24161423	95.9590198	94.69928689
230511A00042	5/11/2023	3.72	5/11/2028	111.1429967	108.1653167	105.2838279	102.494909	99.79509515	97.18107014	94.64965942	92.19782308	89.82264946

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230511A00043	5/11/2023	3.72	5/16/2028	111.1948433	108.2026235	105.3074751	102.505728	99.79387105	97.1685449	94.62653401	92.16475994	89.78027465
230511A00044	5/11/2023	3.79	5/11/2027	107.2645267	105.3557341	103.4905847	101.667823	99.88623795	98.14466078	96.44196333	94.77705638	93.14888801
230511A00046	5/11/2023	3.95	5/11/2026	103.2320255	102.3522036	101.487407	100.6372527	99.80137042	98.97940259	98.1710033	97.37583809	96.59358342
230511A00050	5/11/2023	3.98	5/11/2026	103.2582338	102.3782875	101.513368	100.6630922	99.82709	99.00500357	98.19648706	97.40120597	96.61883675
230511A00069	5/11/2023	3.98	5/12/2026	103.2695596	102.3867883	101.5191394	100.6662262	99.82767504	99.00312482	98.19222646	97.39464244	96.61004628
230511A00080	5/11/2023	3.49	5/11/2028	110.686786	107.7109294	104.8313584	102.0444439	99.3467136	96.73484459	94.20565583	91.75610143	89.38326411
230512A00008	5/12/2023	3.75	5/12/2026	103.1294574	102.2465035	101.3786914	100.5256334	99.68695501	98.86229445	98.05130187	97.25363905	96.46897882
230512A00010	5/12/2023	3.75	5/12/2026	103.1294574	102.2465035	101.3786914	100.5256334	99.68695501	98.86229445	98.05130187	97.25363905	96.46897882
230512A00011	5/12/2023	3.78	5/12/2028	111.3278964	108.3447637	105.4580603	102.6641531	99.95956601	97.34097243	94.8051878	92.34916281	89.96997687
230512A00026	5/12/2023	4	5/12/2026	103.2870872	102.4042325	101.5365012	100.6835066	99.84487493	99.02024517	98.20926821	97.41160649	96.62693352
230512A00033	5/12/2023	3.75	5/12/2026	103.1294574	102.2465035	101.3786914	100.5256334	99.68695501	98.86229445	98.05130187	97.25363905	96.46897882
230512A00037	5/12/2023	3.86	5/12/2027	107.4079897	105.4950796	103.6259581	101.7993641	100.0140809	98.26893431	96.56279126	94.89455765	93.26317697
230512A00042	5/12/2023	4	5/12/2026	103.2870872	102.4042325	101.5365012	100.6835066	99.84487493	99.02024517	98.20926821	97.41160649	96.62693352
230515A00011	5/15/2023	4.11	5/15/2026	103.4185478	102.5267463	101.6503616	100.788996	99.94226512	99.10979767	98.29123485	97.48622982	96.6944472
230515A00045	5/15/2023	4.08	5/15/2026	103.392007	102.5003328	101.624074	100.7628327	99.91622466	99.08387861	98.26543577	97.46054933	96.66888393
230515A00074	5/15/2023	4.11	5/15/2026	103.4185478	102.5267463	101.6503616	100.788996	99.94226512	99.10979767	98.29123485	97.48622982	96.6944472
230515A00078	5/15/2023	3.96	5/17/2027	107.6552506	105.7262762	103.8417346	102.0003377	100.2008432	98.44205268	96.72280958	95.04199769	93.39853933
230515A00080	5/15/2023	3.88	5/15/2028	111.6512263	108.6550887	105.7560137	102.9503355	100.234547	97.60529248	95.0593597	92.59367332	90.20528812
230516A00013	5/16/2023	4.11	5/15/2026	103.4185478	102.5267463	101.6503616	100.788996	99.94226512	99.10979767	98.29123485	97.48622982	96.6944472
230516A00035	5/16/2023	4.11	5/15/2026	103.4185478	102.5267463	101.6503616	100.788996	99.94226512	99.10979767	98.29123485	97.48622982	96.6944472
230516A00036	5/16/2023	4	5/17/2027	107.7313941	105.8016771	103.9164071	102.0742955	100.2740996	98.51462069	96.79470186	95.11322655	93.46911672
230516A00037	5/16/2023	3.91	5/16/2028	111.7496412	108.7492995	105.8462288	103.0367522	100.3173526	97.68466446	95.13546646	92.66667462	90.27533559
230516A00069	5/16/2023	4.1	5/15/2026	103.4097009	102.5179418	101.6415991	100.7802749	99.93358497	99.10115798	98.28263516	97.47766965	96.68592611
230517A00014	5/17/2023	4.14	5/18/2026	103.4803976	102.5799731	101.6952567	100.8258392	99.9713257	99.13133465	98.30549754	97.49345822	96.69487243
230517A00020	5/17/2023	4.47	7/17/2025	100.1922822	100.1450059	100.0977918	100.0506397	100.0035496	99.95652123	99.90955459	99.86264952	99.81580587
230517A00048	5/17/2023	4.17	5/15/2026	103.4716296	102.5795733	101.7029369	100.8413226	99.99434604	99.16163578	98.34283299	97.53759079	96.74557374
230518A00017	5/18/2023	4.28	5/18/2026	103.6054192	102.7043895	101.8190753	100.9490672	100.0939701	99.25340248	98.42699562	97.61439323	96.81525092
230518A00019	5/18/2023	3.81	5/18/2028	111.6935028	108.6835648	105.771486	102.9535571	100.2262306	97.58611217	95.02995356	92.55464527	90.1572099
230519A00012	5/19/2023	4.53	12/19/2025	101.983412	101.5039985	101.0291077	100.5586757	100.0926396	99.63093784	99.17351002	98.72029679	98.2712399
230519A00027	5/19/2023	4.39	5/19/2026	103.7161133	102.8117686	101.9232421	101.0501206	100.1920055	99.34851146	98.51926653	97.7039112	96.90209799
230519A00029	5/19/2023	4.39	5/19/2026	103.7161133	102.8117686	101.9232421	101.0501206	100.1920055	99.34851146	98.51926653	97.7039112	96.90209799
230519A00030	5/19/2023	4.27	5/19/2027	108.2704058	106.3299458	104.434274	102.5820886	100.7721345	99.00320068	97.274119	95.5837619	93.93104089
230519A00038	5/19/2023	3.92	5/19/2028	112.026788	109.009181	106.0897276	103.2647052	100.5305529	97.88386431	95.32137936	92.83997753	90.43667091

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230519A00041	5/19/2023	3.92	5/19/2028	112.026788	109.009181	106.0897276	103.2647052	100.5305529	97.88386431	95.32137936	92.83997753	90.43667091
230522A00026	5/22/2023	4.35	5/22/2026	103.7173379	102.8046483	101.9080667	101.0271685	100.1615444	99.31079876	98.47454991	97.65242896	96.84407949
230522A00043	5/22/2023	4.17	5/16/2028	112.5088383	109.4973825	106.5834706	103.763417	101.0336958	98.39093334	95.83190034	93.35350524	90.95278739
230522A00046	5/22/2023	4.17	5/22/2028	112.5785792	109.5494433	106.6189203	103.783265	101.0388957	98.38238563	95.81045605	93.31996845	90.90791799
230522A00093	5/22/2023	4.17	5/22/2028	112.5785792	109.5494433	106.6189203	103.783265	101.0388957	98.38238563	95.81045605	93.31996845	90.90791799
230523A00008	5/23/2023	4.44	5/26/2026	103.8491138	102.9246492	102.0166891	101.1247937	100.2485389	99.38751517	98.54132747	97.70959416	96.89194664
230523A00024	5/23/2023	4.06	5/24/2027	108.067895	106.1131614	104.2038858	102.3387374	100.5164331	98.73573558	96.99545153	95.29442946	93.6315581
230523A00048	5/23/2023	4.44	5/26/2026	103.8491138	102.9246492	102.0166891	101.1247937	100.2485389	99.38751517	98.54132747	97.70959416	96.89194664
230523A00049	5/23/2023	4.31	5/24/2027	108.4099371	106.4543838	104.5442501	102.6782076	100.8549756	99.07331881	97.3320459	95.63000728	93.96609344
230523A00083	5/23/2023	4.21	5/23/2028	112.7077826	109.6739657	106.7389833	103.8990788	101.1506595	98.49028887	95.91467833	93.42068041	91.00528171
230523A00085	5/23/2023	4.39	5/23/2029	117.6989774	113.5387725	109.5520771	105.7307288	102.0669923	98.55353501	95.18340344	91.95000203	88.84707264
230523A00086	5/23/2023	4.42	5/23/2030	122.0231428	116.7170099	111.6796635	106.8960363	102.3519828	98.03421849	93.93026294	90.02838709	86.31756427
230523A00088	5/23/2023	4.59	5/23/2033	133.3271402	124.5193991	116.3846247	108.86733	101.9168879	95.48708242	89.53570247	84.02417618	78.91723948
230523A00089	5/23/2023	4.65	5/23/2034	136.9317745	126.9390133	117.7917562	109.4130779	101.733453	94.69000915	88.22585771	82.28949614	76.83427207
230523A00090	5/23/2023	4.71	5/23/2035	140.4852878	129.3010077	119.1527559	109.9375786	101.5633014	93.94734874	87.01569786	80.70195189	74.94651741
230523A00091	5/23/2023	4.77	5/23/2036	143.8280184	131.4565919	120.3283852	110.3095809	101.281496	93.13879648	85.78793148	79.14575765	73.13833071
230524A00009	5/24/2023	3.9	5/24/2028	112.0235743	108.992131	106.0597133	103.2225493	100.477032	97.81971119	95.2472859	92.7565969	90.34461982
230524A00028	5/24/2023	4.36	5/26/2026	103.7758987	102.851797	101.9441952	101.0526536	100.1767482	99.3160697	98.47022301	97.63882661	96.82151199
230524A00038	5/24/2023	4.36	5/26/2026	103.7758987	102.851797	101.9441952	101.0526536	100.1767482	99.3160697	98.47022301	97.63882661	96.82151199
230525A00094	5/25/2023	4.31	5/25/2028	113.0257598	109.9816905	107.0369215	104.1876724	101.4303285	98.76143217	96.17767501	93.6758908	91.25304843
230526A00013	5/26/2023	4.39	5/26/2026	103.8677542	102.9422961	102.0333733	101.1405451	100.263386	99.40148582	98.55444821	97.72189063	96.90344355
230526A00016	5/26/2023	4.46	5/26/2027	108.7244977	106.7603446	104.841914	102.9678653	101.136906	99.34778991	97.5993151	95.89032188	94.21969113
230526A00033	5/26/2023	4.63	5/27/2031	126.9548797	120.4499564	114.3317737	108.5751752	103.1567694	98.05479686	93.24900842	88.7205529	84.45187376
230526A00034	5/26/2023	4.66	5/26/2032	130.5888581	122.9180591	115.7689555	109.1030362	102.88483	97.08165018	91.66336286	86.60217496	81.87244121
230530A00027	5/30/2023	4.22	5/30/2028	112.8195175	109.7645841	106.8097529	103.9511966	101.1852561	98.50843194	95.91737675	93.40888736	90.97989796
230530A00045	5/30/2023	4.56	5/29/2026	104.3679548	103.3542107	102.3603154	101.3856887	100.4297726	99.4920308	98.57194709	97.66902479	96.7827857
230530A00048	5/30/2023	4.45	5/29/2026	103.8961547	102.9631053	102.0468562	101.1469564	100.2629705	99.39447874	98.5410758	97.7023705	96.87798508
230530A00054	5/30/2023	4.56	5/29/2026	104.3679548	103.3542107	102.3603154	101.3856887	100.4297726	99.4920308	98.57194709	97.66902479	96.7827857
230530A00055	5/30/2023	4.56	5/29/2026	104.3679548	103.3542107	102.3603154	101.3856887	100.4297726	99.4920308	98.57194709	97.66902479	96.7827857
230530A00118	5/30/2023	4.4	5/28/2027	108.6345489	106.6657837	104.742968	102.8647511	101.0298311	99.23695247	97.48490472	95.77251988	94.09867098
230530A00171	5/30/2023	4.43	5/29/2026	103.8776847	102.9447275	102.0285697	101.1287599	100.2448629	99.37645893	98.52314273	97.68452313	96.86022237
230531A00037	5/31/2023	4.41	5/29/2026	103.8592146	102.9263498	102.0102831	101.1105633	100.2267553	99.35843913	98.50520967	97.66667575	96.84245965
230531A00038	5/31/2023	4.01	5/28/2027	108.0196949	106.0544494	104.1351406	102.2604168	100.4289751	98.63955943	96.89095832	95.18200323	93.51156658

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230531A00042	5/31/2023	4.01	5/28/2027	108.0196949	106.0544494	104.1351406	102.2604168	100.4289751	98.63955943	96.89095832	95.18200323	93.51156658
230531A00060	5/31/2023	4.44	2/27/2026	102.7628017	102.087129	101.4203511	100.7622931	100.1127847	99.47166003	98.83875733	98.21391915	97.59699195
230531A00061	5/31/2023	4.42	4/1/2026	103.1476336	102.3790242	101.6218869	100.8759661	100.1410137	99.41678895	98.70305796	97.99959371	97.30617565
230531A00062	5/31/2023	4.39	4/30/2026	103.479334	102.6288351	101.7923406	100.9695062	100.1599993	99.36349768	98.57968952	97.80827294	97.04895553
230531A00063	5/31/2023	4.37	5/29/2026	103.8222744	102.8895943	101.97371	101.0741703	100.19054	99.32239952	98.46934354	97.63098101	96.80693422
230531A00090	5/31/2023	4.41	6/1/2026	103.8969649	102.9555659	102.031266	101.1236021	100.2321274	99.3564113	98.49603817	97.65060691	96.81973034
230531A00091	5/31/2023	4.26	6/1/2027	108.4139552	106.4363074	104.5050645	102.6188553	100.7763584	98.97629972	97.2174511	95.4986278	93.81868685
230531A00099	5/31/2023	4.41	5/29/2026	103.8592146	102.9263498	102.0102831	101.1105633	100.2267553	99.35843913	98.50520967	97.66667575	96.84245965
230601A00025	6/1/2023	4.12	6/1/2028	112.5467745	109.4902533	106.5340947	103.6744541	100.9076562	98.23018636	95.63868283	93.12992909	90.70084677
230602A00012	6/2/2023	4.39	6/2/2026	103.8909855	102.9468401	102.0198959	101.1096857	100.2157588	99.33768052	98.47503169	97.62740775	96.79441817
230602A00020	6/2/2023	3.94	6/2/2028	112.2425341	109.1826768	106.2235261	103.3612162	100.5920518	97.91249984	95.31918092	92.80886212	90.37844962
230602A00027	6/2/2023	4.2	6/2/2026	103.7791408	102.8346347	101.9073539	100.9968298	100.1026107	99.22426111	98.36136088	97.51350458	96.68030088
230602A00030	6/2/2023	4.2	6/2/2026	103.7791408	102.8346347	101.9073539	100.9968298	100.1026107	99.22426111	98.36136088	97.51350458	96.68030088
230602A00051	6/2/2023	4.33	6/2/2038	125.7119907	118.4739718	111.8370681	105.7426221	100.1383081	94.977397	90.21811028	85.82305425	81.75872243
230605A00022	6/5/2023	4.39	6/4/2027	108.7060519	106.7170102	104.7748222	102.8780974	101.0254963	99.21572753	97.44754646	95.71975266	94.03118824
230606A00008	6/6/2023	3.98	6/6/2028	112.4073647	109.3336125	106.3613725	103.4867339	100.7059588	98.01547392	95.41186238	92.89185571	90.45232669
230606A00014	6/6/2023	4.35	6/7/2027	108.6667797	106.6696445	104.7197494	102.8156866	100.9561	99.13968254	97.36517465	95.63136169	93.93707223
230606A00015	6/6/2023	4.24	6/6/2028	112.9625652	109.8855673	106.9100145	104.032003	101.2478021	98.55384511	95.94672093	93.42316674	90.98006045
230606A00029	6/6/2023	4.45	6/5/2026	103.9855318	103.0325733	102.0971311	101.1787248	100.2768915	99.39118494	98.52117466	97.66644551	96.82659686
230607A00007	6/7/2023	4.24	6/7/2028	112.9745735	109.8945356	106.9161334	104.0354524	101.2487516	98.55245426	95.9431405	93.41753883	90.97251908
230607A00020	6/7/2023	4.28	6/7/2028	112.9222334	109.8745978	106.9289062	104.0811492	101.3274998	98.66430346	96.08806992	93.59546424	91.18329912
230607A00038	6/7/2023	4.58	6/5/2026	104.1081099	103.1545271	102.2184687	101.2994541	100.3970202	99.51072047	98.64012449	97.78481687	96.94439683
230608A00003	6/8/2023	4.23	6/8/2028	112.956741	109.8741085	106.8932915	104.010365	101.2215777	98.52334388	95.91223465	93.38497028	90.93841283
230608A00049	6/8/2023	4.47	6/8/2026	104.0430282	103.0814368	102.1376758	101.2112519	100.3016897	99.40853115	98.53133475	97.6696746	96.82313992
230609A00026	6/9/2023	4.11	6/9/2027	108.3626255	106.3602525	104.4054322	102.4967423	100.6328127	98.81232315	97.03400155	95.29662136	93.59899984
230609A00027	6/9/2023	3.99	6/9/2028	112.4717741	109.3884735	106.4072696	103.524218	100.7355495	98.03766126	95.42710866	92.9005971	90.45497474
230609A00034	6/9/2023	3.99	6/9/2028	112.4717741	109.3884735	106.4072696	103.524218	100.7355495	98.03766126	95.42710866	92.9005971	90.45497474
230609A00039	6/9/2023	4.73	12/10/2025	101.9672908	101.5128252	101.0624249	100.6160352	100.1736027	99.73507469	99.3003995	98.86952634	98.44240532
230609A00040	6/9/2023	4.38	5/12/2027	108.390625	106.4681969	104.5897383	102.7539828	100.9597088	99.20573752	97.4909312	95.8141914	94.17445736
230609A00041	6/9/2023	4.53	7/13/2026	104.560467	103.4985736	102.4583319	101.4390835	100.4401962	99.4610633	98.50110181	97.5597516	96.63647418
230609A00042	6/9/2023	4.46	11/25/2026	106.2807609	104.8476708	103.4411034	102.0603845	100.7048622	99.37390595	98.06690603	96.78327233	95.52243374
230609A00043	6/9/2023	4.32	9/29/2027	110.0643029	107.7329306	105.4632128	103.2530536	101.1004474	99.00347386	96.96029371	94.96914427	93.02833563
230609A00076	7/10/2023	4.19	7/10/2028	113.2151603	110.0377322	106.9680067	104.0017169	101.1347906	98.36334057	95.68365497	93.09218805	90.5855519

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230612A00023	6/12/2023	4.32	6/12/2026	104.0179978	103.0444482	102.0891764	101.1516702	100.2314367	99.32800086	98.44090503	97.56970807	96.7139846
230613A00015	6/13/2023	4.73	6/13/2033	118.8595295	114.4442271	110.2710236	106.3240267	102.5885197	99.05086705	95.69842637	92.5194695	89.50310959
230613A00019	6/13/2023	4.49	6/15/2026	104.1526009	103.1709667	102.2079003	101.2628773	100.3353934	99.42496269	98.53111704	97.65340546	96.79139316
230613A00021	6/13/2023	4.35	6/14/2027	108.7574937	106.7396285	104.7699465	102.8469978	100.9693863	99.13576696	97.344844	95.59536841	93.88613603
230613A00034	6/13/2023	4.56	6/12/2026	104.1811556	103.2077239	102.252548	101.315117	100.3949388	99.49153937	98.60446203	97.73326649	96.87752819
230613A00061	6/13/2023	4.56	6/15/2026	104.2205449	103.2385557	102.2751389	101.3297702	100.4019451	99.49117747	98.59699926	97.71895933	96.8566228
230613A00091	6/13/2023	4.58	6/15/2026	104.2399575	103.2578669	102.29435	101.3488825	100.4209598	99.51009598	98.61582275	97.73768901	96.87525984
230614A00001	6/14/2023	4.55	6/12/2026	104.1715325	103.1981507	102.243024	101.3056416	100.3855114	99.4821593	98.59512873	97.72397936	96.86828666
230614A00029	6/14/2023	4.55	6/15/2026	104.2108386	103.2289002	102.2655334	101.3202141	100.3924377	99.48171821	98.58758751	97.70959449	96.84730428
230614A00038	6/14/2023	4.3	6/15/2026	104.0365815	103.0545786	102.091169	101.1458273	100.2180479	99.30734398	98.41324635	97.53530308	96.67307846
230614A00048	6/14/2023	4.55	6/15/2026	104.2108386	103.2289002	102.2655334	101.3202141	100.3924377	99.48171821	98.58758751	97.70959449	96.84730428
230615A00023	6/15/2023	4.58	6/15/2026	104.2399575	103.2578669	102.29435	101.3488825	100.4209598	99.51009598	98.61582275	97.73768901	96.87525984
230615A00026	6/15/2023	4.84	6/15/2038	149.5533465	134.8039687	121.7695044	110.2367037	100.0200704	90.95811225	82.91011517	75.75336557	69.38075684
230615A00033	6/15/2023	4.58	6/15/2026	104.2399575	103.2578669	102.29435	101.3488825	100.4209598	99.51009598	98.61582275	97.73768901	96.87525984
230615A00039	6/15/2023	4.16	6/15/2027	108.5369372	106.5158013	104.5430487	102.61722	100.7369101	98.90076558	97.10748261	95.35580455	93.64452003
230615A00044	6/15/2023	4.33	6/15/2026	104.0657109	103.0835557	102.1199957	101.1745057	100.2465799	99.33573144	98.44149113	97.56340698	96.70104326
230616A00012	6/16/2023	4.41	6/16/2026	104.1563071	103.1708903	102.2041801	101.2556467	100.32478	99.41108893	98.51410042	97.63335872	96.76842452
230616A00037	6/16/2023	4.48	6/16/2027	109.0417288	107.0153118	105.0374	103.10653	101.2212927	99.38033083	97.58233682	95.82605051	94.11025712
230616A00038	6/16/2023	4.32	6/16/2028	113.3231615	110.2121168	107.2045236	104.2963647	101.4838026	98.76317019	96.13096198	93.58382627	91.11855726
230616A00040	6/16/2023	4.66	6/16/2026	104.3310151	103.3456621	102.3789942	101.4304824	100.4996178	99.58591018	98.68888756	97.808095	96.94309402
230616A00106	6/16/2023	4.61	6/16/2026	104.282345	103.297247	102.3308307	101.3825672	100.4519477	99.53848198	98.64169817	97.76114138	96.89637322
230620A00035	6/20/2023	4.36	6/20/2030	122.0211101	116.6342357	111.5242909	106.6755194	102.0731443	97.70330158	93.55297917	89.60996019	85.86277026
230620A00065	6/20/2023	4.56	6/18/2026	104.2599354	103.2693829	102.2977209	101.3444117	100.4089381	99.49080186	98.58952349	97.70464089	96.83570877
230620A00091	6/20/2023	4.56	6/22/2026	104.3124577	103.3104785	102.3278163	101.3639154	100.4182413	99.49027972	98.5795356	97.68553213	96.80781
230621A00016	6/21/2023	4.55	6/22/2026	104.3025573	103.3006309	102.3180206	101.354171	100.4085475	99.48063592	98.5699411	97.67598629	96.79831221
230621A00022	6/21/2023	4.24	6/21/2028	113.1426948	110.0200362	107.0017027	104.0836245	101.2619144	98.53285859	95.89290789	93.33866949	90.866899
230621A00041	6/21/2023	4.24	6/21/2028	113.1426948	110.0200362	107.0017027	104.0836245	101.2619144	98.53285859	95.89290789	93.33866949	90.866899
230621A00047	6/21/2023	4.44	6/21/2028	107.0876284	105.4865061	103.9256268	102.4036468	100.9192781	99.47128562	98.05848449	96.67973768	95.33395366
230621A00048	6/21/2023	4.55	6/22/2026	104.3025573	103.3006309	102.3180206	101.354171	100.4085475	99.48063592	98.5699411	97.67598629	96.79831221
230622A00004	6/22/2023	4.23	6/22/2027	108.7658187	106.7224835	104.7285141	102.7824073	100.8827163	99.02804836	97.21706195	95.44846473	93.72101134
230622A00005	6/22/2023	4.05	6/22/2028	112.8032665	109.6777117	106.6568259	103.7365171	100.9128778	98.18217494	95.54084144	92.98546755	90.51279304
230622A00019	6/22/2023	4.33	6/22/2028	112.8790329	109.8709237	106.9636359	104.1531759	101.4357338	98.80767359	96.26552393	93.80596987	91.42584462
230622A00027	6/22/2023	4.49	6/22/2026	104.2431552	103.2415449	102.2592466	101.2957048	100.350385	99.4227731	98.51237409	97.61871128	96.74132546

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230622A00028	6/22/2023	4.35	6/22/2027	108.8611796	106.8195852	104.8272623	102.8827121	100.9844919	99.13121271	97.32153663	95.55417477	93.82788504
230622A00030	6/22/2023	4.17	6/22/2028	112.943086	109.8205814	106.8025149	103.8848079	101.0635652	98.33506567	95.69575317	93.14222835	90.6712408
230622A00039	6/26/2023	4.49	6/26/2026	104.2949032	103.2818642	102.2885661	101.3144352	100.3589199	99.42148947	98.50163335	97.59885995	96.71269591
230622A00047	6/22/2023	4.49	6/22/2026	104.2431552	103.2415449	102.2592466	101.2957048	100.350385	99.4227731	98.51237409	97.61871128	96.74132546
230622A00049	6/22/2023	4.71	12/17/2025	102.0447266	101.5706796	101.1010537	100.6357872	100.1748194	99.71809054	99.26554231	98.81711725	98.37275901
230622A00056	6/26/2023	4.49	6/26/2026	104.2949032	103.2818642	102.2885661	101.3144352	100.3589199	99.42148947	98.50163335	97.59885995	96.71269591
230622A00083	6/22/2023	4.55	6/22/2026	104.3025573	103.3006309	102.3180206	101.354171	100.4085475	99.48063592	98.5699411	97.67598629	96.79831221
230622A00093	6/22/2023	4.55	6/22/2026	104.3025573	103.3006309	102.3180206	101.354171	100.4085475	99.48063592	98.5699411	97.67598629	96.79831221
230622A00095	6/22/2023	4.38	6/22/2027	108.9212916	106.8790818	104.8861555	102.9410137	101.0422132	99.18836474	97.37813013	95.6102202	93.88339254
230622A00096	6/22/2023	4.21	6/22/2028	113.0640104	109.9396758	106.9198252	104.0003787	101.1774396	98.44728533	95.80635836	93.25125808	90.7787328
230623A00002	6/23/2023	4.45	6/23/2026	104.2163797	103.2121252	102.2272867	101.2613043	100.3136395	99.38377384	98.47120867	97.5754636	96.69607595
230623A00003	6/23/2023	4.29	6/23/2027	108.7537505	106.7104212	104.7164761	102.7704109	100.8707777	99.01618246	97.20528277	95.43678524	93.70944354
230623A00004	6/23/2023	4.13	6/23/2028	112.833864	109.7101495	106.6910203	103.7723881	100.9503487	98.22117241	95.5812951	93.02730997	90.55595959
230623A00025	6/23/2023	4.45	6/23/2026	104.2163797	103.2121252	102.2272867	101.2613043	100.3136395	99.38377384	98.47120867	97.5754636	96.69607595
230623A00026	6/23/2023	4.29	6/23/2027	108.7537505	106.7104212	104.7164761	102.7704109	100.8707777	99.01618246	97.20528277	95.43678524	93.70944354
230623A00027	6/23/2023	4.13	6/23/2028	112.833864	109.7101495	106.6910203	103.7723881	100.9503487	98.22117241	95.5812951	93.02730997	90.55595959
230623A00036	6/23/2023	4.45	6/23/2026	104.2163797	103.2121252	102.2272867	101.2613043	100.3136395	99.38377384	98.47120867	97.5754636	96.69607595
230623A00037	6/23/2023	4.13	6/23/2028	112.833864	109.7101495	106.6910203	103.7723881	100.9503487	98.22117241	95.5812951	93.02730997	90.55595959
230623A00051	6/23/2023	4.18	6/23/2028	112.9851589	109.8591526	106.8377894	103.916979	101.0928153	98.36156694	95.71966805	93.16371021	90.69043442
230623A00053	6/23/2023	4.4	6/23/2026	104.2368047	103.2314357	102.2455194	101.2784943	100.3298206	99.39897861	98.48546824	97.58880797	96.70853397
230623A00056	6/23/2023	4.18	6/23/2028	112.9851589	109.8591526	106.8377894	103.916979	101.0928153	98.36156694	95.71966805	93.16371021	90.69043442
230623A00057	6/23/2023	4.52	6/23/2026	104.2858763	103.2812508	102.2960464	101.329703	100.381682	99.45146482	98.53855271	97.64246519	96.76273947
230623A00058	6/23/2023	4.38	6/23/2027	108.9343368	106.8891563	104.8933962	102.9455513	101.0441725	99.187865	97.3752853	95.60513918	93.87617946
230626A00020	6/26/2023	4.49	6/26/2026	104.2949032	103.2818642	102.2885661	101.3144352	100.3589199	99.42148947	98.50163335	97.59885995	96.71269591
230626A00021	6/26/2023	4.49	6/26/2026	104.2949032	103.2818642	102.2885661	101.3144352	100.3589199	99.42148947	98.50163335	97.59885995	96.71269591
230626A00022	6/26/2023	4.34	6/25/2027	108.8799446	106.8296481	104.8290301	102.8765733	100.9708175	99.11035694	97.29383803	95.5199568	93.78745686
230626A00023	6/26/2023	4.18	6/26/2028	113.0206846	109.8855424	106.8556246	103.9268073	101.0951527	98.35689917	95.70845301	93.14637934	90.66739433
230627A00004	6/27/2023	4.47	6/29/2026	104.3135267	103.2920189	102.2905741	101.3086048	100.3455462	99.40085524	98.47400953	97.56450627	96.6718614
230627A00005	6/27/2023	4.3	6/28/2027	108.8379318	106.7795565	104.7712558	102.8114943	100.8987943	99.03173387	97.20894362	95.42910484	93.69094702
230627A00006	6/27/2023	4.12	6/27/2028	112.8503038	109.7148853	106.6848154	103.7559613	100.9243767	98.18629214	95.53810661	92.97637838	90.49781722
230627A00030	6/27/2023	4.17	6/27/2028	113.0021562	109.8644291	106.8321092	103.9010613	101.0673373	98.32716617	95.67694505	93.11323057	90.63273091
230627A00035	6/27/2023	4.21	6/27/2028	113.1236381	109.9840642	106.9499441	104.0171412	101.1817058	98.4398654	95.7880158	93.22271231	90.74066185
230627A00036	6/27/2023	4.38	6/28/2027	108.9995659	106.9395226	104.9295866	102.9682216	101.0539492	99.18534624	97.36104276	95.57971916	93.84010416

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230627A00037	6/27/2023	4.56	6/26/2026	104.364982	103.3515659	102.3578959	101.3833981	100.4275208	99.48973325	98.56952465	97.66640337	96.77989595
230627A00089	6/27/2023	4.56	6/30/2026	104.4175084	103.3926451	102.3879597	101.40286	100.4367767	99.48916246	98.55949067	97.64725467	96.75196667
230627A00090	6/27/2023	4.21	6/27/2028	113.1236381	109.9840642	106.9499441	104.0171412	101.1817058	98.4398654	95.7880158	93.22271231	90.74066185
230628A00016	6/28/2023	4.58	6/26/2026	104.3850046	103.3714807	102.3777044	101.4031018	100.4471211	99.50923147	98.58892216	97.68570149	96.79909596
230628A00017	6/28/2023	4.41	6/28/2027	109.0601787	106.9995098	104.9889607	103.0269944	101.1121322	99.24295087	97.41807993	95.63619952	93.89603809
230628A00018	6/28/2023	4.23	6/28/2028	113.1963604	110.052812	107.0149351	104.0785811	101.239789	98.49477548	95.83992622	93.27178704	90.78705591
230628A00028	6/28/2023	4.58	6/24/2026	104.3586312	103.3508283	102.362558	101.3932556	100.4423779	99.50940247	98.59382629	97.69516518	96.81295272
230628A00038	6/28/2023	4.58	6/24/2026	104.3586312	103.3508283	102.362558	101.3932556	100.4423779	99.50940247	98.59382629	97.69516518	96.81295272
230628A00045	6/28/2023	4.18	6/28/2028	113.0443687	109.9031329	106.8675103	103.933354	101.0967049	98.35378165	95.7009715	93.13482197	90.65203263
230628A00061	6/28/2023	4.47	6/26/2026	104.2748807	103.2619494	102.2687576	101.2947315	100.3393196	99.40199125	98.48223583	97.57956183	96.6934959
230628A00063	6/28/2023	4.47	6/29/2026	104.3135267	103.2920189	102.2905741	101.3086048	100.3455462	99.40085524	98.47400953	97.56450627	96.6718614
230628A00068	6/28/2023	4.29	6/28/2027	108.8177276	106.7595608	104.7514645	102.7919034	100.8794	99.01253232	97.18993123	95.41027805	93.67230237
230629A00008	6/29/2023	4.34	6/29/2028	113.5430303	110.3913329	107.3456308	104.4017595	101.5557432	98.8037847	96.14225637	93.56769155	91.07677635
230629A00019	6/29/2023	4.51	6/24/2027	109.2085906	107.1577577	105.1565347	103.2034087	101.2969233	99.43567682	97.61831902	95.84354937	94.11011466
230629A00025	6/29/2023	4.7	6/24/2026	104.4781009	103.4696587	102.4807577	101.510833	100.5593414	99.62576011	98.70958604	97.81033477	96.92753975
230629A00037	6/29/2023	4.69	6/29/2026	104.5356043	103.5128919	102.510259	101.5271178	100.5629032	99.6170717	98.68910057	97.77848668	96.88474566
230629A00042	6/29/2023	4.69	6/29/2026	104.5356043	103.5128919	102.510259	101.5271178	100.5629032	99.6170717	98.68910057	97.77848668	96.88474566
230629A00045	6/29/2023	4.69	6/29/2026	104.5356043	103.5128919	102.510259	101.5271178	100.5629032	99.6170717	98.68910057	97.77848668	96.88474566
230629A00046	6/29/2023	4.51	6/29/2027	109.2756295	107.2098938	105.1944567	103.2277742	101.3083604	99.43478517	97.60567176	95.81969417	94.07557501
230629A00071	6/29/2023	4.41	6/29/2028	113.7204265	110.5683363	107.5234655	104.5815256	101.7384272	98.99026912	96.33332834	93.76405097	91.27904324
230629A00072	6/29/2023	4.69	6/29/2026	104.5356043	103.5128919	102.510259	101.5271178	100.5629032	99.6170717	98.68910057	97.77848668	96.88474566
230629A00076	6/29/2023	4.51	6/29/2027	109.2756295	107.2098938	105.1944567	103.2277742	101.3083604	99.43478517	97.60567176	95.81969417	94.07557501
230629A00094	6/29/2023	4.41	6/29/2028	113.7204265	110.5683363	107.5234655	104.5815256	101.7384272	98.99026912	96.33332834	93.76405097	91.27904324
230629A00097	6/29/2023	4.41	6/29/2028	113.7204265	110.5683363	107.5234655	104.5815256	101.7384272	98.99026912	96.33332834	93.76405097	91.27904324
230630A00003	6/30/2023	4.54	6/30/2027	109.3498177	107.2804705	105.2615727	103.2915734	101.3689805	99.49235793	97.66032322	95.87154495	94.12474057
230630A00028	6/30/2023	4.42	6/30/2027	109.2537782	107.1826577	105.1620834	103.1905001	101.2664114	99.38837715	97.55501124	95.76497864	94.01699345
230630A00030	6/30/2023	4.23	6/30/2028	113.4456341	110.2873098	107.2354234	104.285785	101.4343949	98.67743338	96.01125173	93.4323634	90.93743581
230630A00043	6/30/2023	4.6	6/30/2026	104.5295678	103.5030622	102.4967796	101.510126	100.5425305	99.59344418	98.66233897	97.7487068	96.85205856
230630A00046	6/30/2023	4.6	6/30/2026	104.5295678	103.5030622	102.4967796	101.510126	100.5425305	99.59344418	98.66233897	97.7487068	96.85205856
230630A00055	6/30/2023	4.35	6/30/2028	113.5857725	110.4305493	107.3815283	104.4345333	101.5855774	98.83085291	96.16672249	93.58971022	91.09649357
230630A00061	6/30/2023	5	7/11/2025	100.1427857	100.1121769	100.0816033	100.0510648	100.0205614	99.99009291	99.95965939	99.92926072	99.89889685
230630A00062	6/30/2023	4.6	6/30/2026	104.5295678	103.5030622	102.4967796	101.510126	100.5425305	99.59344418	98.66233897	97.7487068	96.85205856
230630A00079	6/30/2023	4.65	6/30/2026	104.5086079	103.4832491	102.478075	101.4924933	100.5259346	99.57785125	98.64771664	97.73502391	96.83928516

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230630A00086	6/30/2023	4.72	6/30/2026	104.579463	103.5537188	102.5481647	101.5622081	100.5952796	99.64683143	98.71633684	97.80328888	96.90719954
230630A00088	6/30/2023	4.54	6/30/2027	109.3498177	107.2804705	105.2615727	103.2915734	101.3689805	99.49235793	97.66032322	95.87154495	94.12474057
230630A00094	6/30/2023	4.42	6/30/2027	109.2537782	107.1826577	105.1620834	103.1905001	101.2664114	99.38837715	97.55501124	95.76497864	94.01699345
230703A00013	7/3/2023	4.34	7/3/2028	113.5915686	110.4278886	107.370905	104.4164131	101.560399	98.7990299	96.12864486	93.5457458	91.04698941
230703A00015	7/3/2023	4.34	7/3/2028	113.5915686	110.4278886	107.370905	104.4164131	101.560399	98.7990299	96.12864486	93.5457458	91.04698941
230703A00018	7/3/2023	4.61	7/3/2026	104.5809489	103.5457901	102.531194	101.5365515	100.5612773	99.60480888	98.6666053	97.74614623	96.84293094
230703A00019	7/3/2023	4.61	7/3/2026	104.5809489	103.5457901	102.531194	101.5365515	100.5612773	99.60480888	98.6666053	97.74614623	96.84293094
230703A00021	7/3/2023	4.99	7/3/2025	100.0434426	100.0350885	100.0267422	100.0184036	100.0100729	100.0017499	99.99343463	99.98512711	99.97682732
230703A00025	7/3/2023	4.73	7/3/2026	104.6312437	103.5968539	102.5829934	101.5890545	100.6144534	99.65862873	98.72104096	97.80117088	96.89851889
230703A00028	7/3/2023	5.11	7/3/2025	100.0441218	100.0357714	100.0274288	100.019094	100.0107668	100.0024474	99.99413563	99.98583157	99.9775352
230703A00029	7/3/2023	4.89	2/3/2026	102.7505163	102.1413451	101.5394106	100.9445843	100.3567407	99.77575729	99.20151426	98.63389472	98.07278441
230703A00043	7/3/2023	4.53	7/6/2027	109.4091182	107.3225986	105.287204	103.3013516	101.3635192	99.47224218	97.62611123	95.82376942	94.06391012
230705A00006	7/5/2023	4.26	7/5/2028	113.5974698	110.4228422	107.355535	104.3913084	101.5261158	98.75609372	96.07755223	93.48696611	90.98096647
230705A00008	7/5/2023	4.63	7/6/2026	104.6427912	103.5989146	102.5759428	101.5732513	100.5902405	99.62633403	98.68097797	97.75363962	96.84380653
230705A00019	7/5/2023	4.44	7/6/2027	109.3736323	107.2846808	105.2469653	103.2588981	101.3189524	99.42565925	97.57760504	95.77342895	94.01182059
230705A00033	7/5/2023	5.12	7/7/2025	100.0953764	100.0758941	100.0564321	100.0369902	100.0175685	99.99816696	99.9787855	99.9594241	99.94008272
230705A00034	7/5/2023	4.75	7/6/2026	104.6934811	103.6503811	102.628152	101.6261708	100.6438391	99.68058205	98.73584699	97.80910241	96.89983701
230705A00035	7/5/2023	5.03	8/8/2025	100.4979596	100.3895013	100.2812895	100.1733234	100.065602	99.95812446	99.85088998	99.74389766	99.63714665
230705A00040	7/5/2023	4.38	7/5/2028	113.7381093	110.5666056	107.5021843	104.5406194	101.6778773	98.91010661	96.233629	93.64492998	91.14065084
230705A00042	7/5/2023	4.42	7/5/2028	113.8604831	110.6871061	107.6208589	104.6575142	101.7930368	99.02357375	96.34544534	93.75513575	91.24928496
230705A00103	7/5/2023	4.56	7/6/2027	109.4703987	107.3832403	105.3472194	103.360753	101.4223184	99.53045095	97.68374073	95.8808306	94.12041362
230705A00111	7/5/2023	4.9	1/6/2026	102.3919128	101.8614732	101.3365433	100.8170375	100.3028718	99.79396396	99.29023355	98.79160166	98.29799099
230706A00006	7/6/2023	4.59	7/6/2028	114.393352	111.2090165	108.1321832	105.1586081	102.2842403	99.50521213	96.81782977	94.21856412	91.70404255
230706A00014	7/6/2023	4.99	7/6/2038	151.6106402	136.6776767	123.4838799	111.8124112	101.4747401	92.30680711	84.16572414	76.9269349	70.48176958
230706A00034	7/6/2023	5.18	7/7/2025	100.0965952	100.0771119	100.0576489	100.0382061	100.0187834	99.99938087	99.97999844	99.96063608	99.94129374
230707A00021	9/1/2023	4.61	8/30/2030	124.0652964	118.4236917	113.0808174	108.0191524	103.2223012	98.67491527	94.36261982	90.27194692	86.39027306
230707A00022	9/1/2023	4.61	8/30/2030	124.0652964	118.4236917	113.0808174	108.0191524	103.2223012	98.67491527	94.36261982	90.27194692	86.39027306
230707A00023	9/1/2023	4.61	8/30/2030	124.0652964	118.4236917	113.0808174	108.0191524	103.2223012	98.67491527	94.36261982	90.27194692	86.39027306
230707A00031	7/7/2023	4.84	7/7/2026	104.8002699	103.7537891	102.7283	101.7231744	100.7378089	99.77162401	98.82406243	97.89458843	96.98268667
230710A00013	7/10/2023	4.55	7/10/2029	118.9228089	114.6003446	110.4634517	106.503133	102.7108774	99.07863126	95.59877116	92.26407831	89.06771491
230710A00053	7/10/2023	4.98	7/10/2025	100.1312323	100.1033903	100.0755797	100.0478004	100.0200524	99.99233557	99.96464993	99.93699537	99.90937186
230710A00066	7/10/2023	5	7/10/2025	100.130324	100.1024971	100.0747014	100.0469369	100.0192034	99.99150106	99.96382967	99.93618921	99.90857962
230711A00012	7/11/2023	5.07	7/11/2025	100.1449744	100.1143638	100.0837884	100.0532482	100.022743	99.99227275	99.96183746	99.93143703	99.90107139

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230711A00013	7/11/2023	4.78	7/13/2026	104.8225319	103.7591686	102.717478	101.696801	100.6965052	99.71598318	98.75465164	97.81194998	96.88733928
230711A00027	7/11/2023	5.07	7/11/2025	100.1449744	100.1143638	100.0837884	100.0532482	100.022743	99.99227275	99.96183746	99.93143703	99.90107139
230711A00038	7/11/2023	4.89	10/10/2025	101.2739375	100.9898299	100.707329	100.4264211	100.1470926	99.86933005	99.59312032	99.31845026	99.04530694
230712A00002	7/12/2023	4.31	7/12/2028	113.6079536	110.4189024	107.3380389	104.3610714	101.4839047	98.70262989	96.01351464	93.41299395	90.89766168
230712A00014	7/12/2023	4.62	7/13/2026	104.6548104	103.5923878	102.5516245	101.5318618	100.5324675	99.55283446	98.59237975	97.65054302	96.72678561
230712A00015	7/12/2023	4.62	7/13/2026	104.6548104	103.5923878	102.5516245	101.5318618	100.5324675	99.55283446	98.59237975	97.65054302	96.72678561
230712A00016	7/12/2023	4.45	7/12/2027	109.3239345	107.2217409	105.1713235	103.1710682	101.2194231	99.31489593	97.45605066	95.64150547	93.86993008
230712A00017	7/12/2023	4.45	7/12/2027	109.3239345	107.2217409	105.1713235	103.1710682	101.2194231	99.31489593	97.45605066	95.64150547	93.86993008
230712A00018	7/12/2023	4.31	7/12/2028	113.6079536	110.4189024	107.3380389	104.3610714	101.4839047	98.70262989	96.01351464	93.41299395	90.89766168
230712A00019	7/12/2023	4.31	7/12/2028	113.6079536	110.4189024	107.3380389	104.3610714	101.4839047	98.70262989	96.01351464	93.41299395	90.89766168
230712A00020	7/12/2023	4.31	7/12/2028	113.6079536	110.4189024	107.3380389	104.3610714	101.4839047	98.70262989	96.01351464	93.41299395	90.89766168
230712A00021	7/12/2023	4.31	7/12/2028	113.6079536	110.4189024	107.3380389	104.3610714	101.4839047	98.70262989	96.01351464	93.41299395	90.89766168
230712A00035	1/12/2024	4.36	1/12/2026	102.1763446	101.6299775	101.0894699	100.5547277	100.0256588	99.50217304	98.9841821	98.47159958	97.96434087
230712A00039	7/12/2023	4.62	7/13/2026	104.6548104	103.5923878	102.5516245	101.5318618	100.5324675	99.55283446	98.59237975	97.65054302	96.72678561
230712A00040	7/12/2023	4.45	7/12/2027	109.3239345	107.2217409	105.1713235	103.1710682	101.2194231	99.31489593	97.45605066	95.64150547	93.86993008
230712A00041	7/12/2023	4.31	7/12/2028	113.6079536	110.4189024	107.3380389	104.3610714	101.4839047	98.70262989	96.01351464	93.41299395	90.89766168
230712A00046	7/12/2023	4.52	7/13/2026	104.5499844	103.4881498	102.4479661	101.4287748	100.4299439	99.4508665	98.49095982	97.54966366	96.62643957
230712A00048	7/12/2023	4.95	7/14/2025	100.1781967	100.1392448	100.1003408	100.0614848	100.0226765	99.98391603	99.94520317	99.90653785	99.86791997
230712A00051	7/12/2023	4.62	7/13/2026	104.6548104	103.5923878	102.5516245	101.5318618	100.5324675	99.55283446	98.59237975	97.65054302	96.72678561
230712A00056	7/12/2023	4.22	7/12/2028	113.3308566	110.146073	107.0693681	104.096454	101.2232391	98.44581777	95.76046089	93.16360658	90.6518517
230713A00014	7/13/2023	4.2	7/13/2028	113.2809727	110.0941693	107.0155906	104.0409396	101.1661163	98.38720724	95.70047587	93.10235342	90.5894303
230713A00019	7/13/2023	4.51	7/13/2026	104.5395018	103.477726	102.4376003	101.4184661	100.4196915	99.44066971	98.48081782	97.53957573	96.61640497
230713A00021	7/13/2023	4.44	7/13/2026	104.4661237	103.4047594	102.3650394	101.3463052	100.347925	99.36929214	98.40982387	97.46896018	96.54616274
230713A00023	7/13/2023	4.2	7/13/2028	113.2809727	110.0941693	107.0155906	104.0409396	101.1661163	98.38720724	95.70047587	93.10235342	90.5894303
230713A00025	7/13/2023	4.82	7/14/2025	100.1730639	100.1341161	100.0952164	100.0563645	100.0175605	99.97880415	99.94009547	99.90143432	99.86282061
230713A00026	7/13/2023	4.49	7/13/2026	104.5185366	103.4568784	102.4168686	101.3978487	100.3991868	99.42027611	98.46053384	97.51939986	96.59633576
230713A00031	7/13/2023	4.49	7/13/2026	104.5185366	103.4568784	102.4168686	101.3978487	100.3991868	99.42027611	98.46053384	97.51939986	96.59633576
230713A00058	7/13/2023	4.08	7/13/2028	113.1387689	109.9488281	106.867353	103.8900326	101.0127536	98.23159011	95.54279396	92.94278539	90.42814448
230714A00019	7/14/2023	4.85	7/14/2025	100.1742484	100.1352997	100.0963989	100.0575461	100.0187411	99.97998382	99.94127417	99.90261206	99.86399739
230714A00020	7/14/2023	4.52	7/14/2026	104.5632908	103.4985907	102.4556563	101.4338238	100.4324563	99.45094229	98.48869451	97.54514859	96.61976211
230714A00022	7/14/2023	4.36	7/14/2027	109.164168	107.058134	105.004067	103.0003431	101.0454013	99.13774053	97.27591669	95.45854027	93.68427368
230714A00023	7/14/2023	4.18	7/14/2028	113.2309773	110.0421569	106.9617072	103.9853223	101.1088936	98.32849973	95.64039687	93.04100929	90.52692094
230714A00026	7/14/2023	4.18	7/14/2028	113.2309773	110.0421569	106.9617072	103.9853223	101.1088936	98.32849973	95.64039687	93.04100929	90.52692094

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230714A00030	7/14/2023	4.52	7/17/2026	104.6032111	103.5299108	102.4787213	101.4489633	100.4399849	99.45116073	98.48189004	97.53159592	96.59972393
230714A00034	7/14/2023	4.37	7/16/2027	109.2104512	107.0984089	105.0385679	103.0292934	101.0690139	99.15621861	97.28945406	95.46732197	93.68847644
230714A00036	7/14/2023	4.37	7/12/2030	122.3023642	116.8453924	111.671834	106.7653959	102.1108089	97.69375755	93.50081552	89.51938582	85.73764511
230714A00042	7/14/2023	4.58	7/14/2026	104.6263527	103.5612981	102.5180142	101.4958371	100.4941299	99.51228086	98.54970265	97.60583081	96.68012279
230717A00022	7/17/2023	4.59	7/17/2026	104.6773657	103.6036454	102.552042	101.5218759	100.5124953	99.52327439	98.55361253	97.60293258	96.67068001
230717A00061	7/17/2023	4.93	7/17/2025	100.214224	100.1669296	100.1196974	100.0725273	100.0254192	99.97837293	99.93138836	99.88446537	99.83760384
230717A00088	7/17/2023	4.43	7/19/2027	109.3736345	107.2515794	105.1820982	103.163539	101.1943141	99.27289722	97.39782058	95.56767208	93.78109283
230718A00013	7/18/2023	4.54	7/17/2026	104.6243982	103.5509778	102.4996701	101.4697954	100.4607022	99.47176463	98.50238218	97.55197782	96.61999709
230718A00014	7/18/2023	4.37	7/19/2027	109.2489032	107.12817	105.0599844	103.0426952	101.0747155	99.15451965	97.28064053	95.45166672	93.66623995
230718A00015	7/18/2023	4.19	7/18/2028	113.3084828	110.1073099	107.0152027	104.0278153	101.1410019	98.35080584	95.65345051	93.04532933	90.52299732
230718A00016	7/18/2023	4.54	7/17/2026	104.6243982	103.5509778	102.4996701	101.4697954	100.4607022	99.47176463	98.50238218	97.55197782	96.61999709
230718A00023	7/18/2023	4.54	7/20/2026	104.6644867	103.5824583	102.5228894	101.4850846	100.4683771	99.47212724	98.49572087	97.5385683	96.600103
230718A00038	7/18/2023	4.46	11/13/2026	106.1182011	104.7200699	103.3472756	101.9991872	100.6751939	99.37470504	98.09714849	96.84197043	95.60863442
230718A00065	7/18/2023	4.3	7/18/2033	117.5640681	113.129233	108.9405402	104.9816581	101.2374754	97.69400142	94.33827478	91.15828029	88.14287313
230718A00070	7/18/2023	4.06	7/18/2028	113.1346528	109.9308044	106.8362526	103.8466378	100.9578009	98.16577347	95.46676721	92.85716486	90.3335113
230718A00093	7/18/2023	4.06	7/18/2028	113.1346528	109.9308044	106.8362526	103.8466378	100.9578009	98.16577347	95.46676721	92.85716486	90.3335113
230719A00006	7/19/2023	4.54	7/20/2026	104.6644867	103.5824583	102.5228894	101.4850846	100.4683771	99.47212724	98.49572087	97.5385683	96.600103
230719A00015	7/19/2023	4.37	7/19/2027	109.2489032	107.12817	105.0599844	103.0426952	101.0747155	99.15451965	97.28064053	95.45166672	93.66623995
230719A00027	7/19/2023	4.92	7/18/2025	100.2259901	100.1759154	100.125908	100.0759677	100.0260944	99.97628787	99.9265481	99.87687489	99.8272681
230719A00034	7/19/2023	4.19	7/19/2028	113.3201481	110.1160047	107.0210981	104.0310726	101.1417729	98.34923387	95.64967061	93.03946893	90.51517666
230719A00035	7/19/2023	4.92	7/18/2025	100.2259901	100.1759154	100.125908	100.0759677	100.0260944	99.97628787	99.9265481	99.87687489	99.8272681
230719A00081	12/16/2024	3.6	12/18/2026	105.3064723	103.8179209	102.3580702	100.9261614	99.52146196	98.14326456	96.79088583	95.46366542	94.16096507
230719A00091	11/13/2023	4.56	11/14/2025	101.5845598	101.2029863	100.8242926	100.4484461	100.0754145	99.70516637	99.33767033	98.97289568	98.61081214
230719A00096	12/18/2023	4.46	12/19/2025	101.9500048	101.4706842	100.9958856	100.5255452	100.0596001	99.59798869	99.14065065	98.68752659	98.2385583
230719A00101	10/16/2023	4.65	10/17/2025	101.2837381	100.9802988	100.6786918	100.3789004	100.0809081	99.7846987	99.49025608	99.19756437	98.90660787
230720A00037	7/20/2023	4.55	7/20/2026	104.7506857	103.667055	102.6059318	101.5666187	100.5484473	99.55077604	98.5729891	97.61449524	96.67472643
230720A00038	7/20/2023	4.55	7/20/2026	104.7506857	103.667055	102.6059318	101.5666187	100.5484473	99.55077604	98.5729891	97.61449524	96.67472643
230720A00039	7/20/2023	4.68	7/20/2026	104.8139605	103.7310794	102.67067	101.6320368	100.6145127	99.61745776	98.6402575	97.68232199	96.74308447
230721A00003	7/21/2023	4.67	7/21/2026	104.8170076	103.7313127	102.6682047	101.6269828	100.6069749	99.60753616	98.62804783	97.66791568	96.72656889
230721A00006	7/21/2023	4.32	7/21/2028	113.7469909	110.5306418	107.4240331	104.4227836	101.5227143	98.71983759	96.01034739	93.39060962	90.85715332
230721A00028	7/21/2023	5.03	7/21/2025	100.2691715	100.2107503	100.1524124	100.0941576	100.0359858	99.97789683	99.91989042	99.86196643	99.80412469
230721A00029	7/21/2023	4.67	7/21/2026	104.8170076	103.7313127	102.6682047	101.6269828	100.6069749	99.60753616	98.62804783	97.66791568	96.72656889
230721A00031	7/21/2023	5.03	7/21/2025	100.2691715	100.2107503	100.1524124	100.0941576	100.0359858	99.97789683	99.91989042	99.86196643	99.80412469

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230721A00032	7/21/2023	5.03	7/21/2025	100.2691715	100.2107503	100.1524124	100.0941576	100.0359858	99.97789683	99.91989042	99.86196643	99.80412469
230721A00038	7/21/2023	4.67	7/21/2026	104.8170076	103.7313127	102.6682047	101.6269828	100.6069749	99.60753616	98.62804783	97.66791568	96.72656889
230721A00043	7/21/2023	4.98	7/21/2025	100.2662388	100.20782	100.1494845	100.0912322	100.0330628	99.9749762	99.9169722	99.85905062	99.80121127
230724A00037	7/24/2023	4.29	7/24/2028	113.6897047	110.4658573	107.3522296	104.3444117	101.4381976	98.62957464	95.91471324	93.28995727	90.75181509
230724A00063	7/24/2023	5.08	7/24/2025	100.3101483	100.2433837	100.1767198	100.1101565	100.0436935	99.97733054	99.91106746	99.844904	99.77883996
230724A00064	7/24/2023	4.53	7/19/2027	109.5815201	107.4572617	105.3856212	103.3649452	101.3936451	99.47019319	97.59312068	95.76101436	93.97251429
230724A00065	7/24/2023	4.37	7/18/2028	113.8656869	110.655888	107.5553757	104.5597967	101.6649979	98.86701595	96.16206757	93.5465399	91.01698189
230724A00066	7/24/2023	4.71	8/18/2026	105.2507726	104.0841545	102.9435212	101.8280099	100.7367956	99.66908903	98.62413503	97.60121035	96.5996222
230725A00004	7/25/2023	5.06	7/25/2025	100.3214376	100.251894	100.1824574	100.1131274	100.0439038	99.97478635	99.9057748	99.83686892	99.76806846
230725A00016	7/25/2023	4.75	7/31/2026	105.0421106	103.9271169	102.8358875	101.7676677	100.7217342	99.69739384	98.69398209	97.71086131	96.74741958
230725A00018	7/25/2023	4.4	7/25/2028	114.0443084	110.8121417	107.6905045	104.6749721	101.7613248	98.9455368	96.22376624	93.5923453	91.04777135
230725A00023	7/25/2023	4.57	4/9/2027	108.2999472	106.4708899	104.6819795	102.9320088	101.2198182	99.54429393	97.90436511	96.29900213	94.72721444
230725A00028	7/25/2023	4.46	7/25/2030	122.9002341	117.3913067	112.1699105	107.2194293	102.5242973	98.06992651	93.84264019	89.82961098	86.01880361
230725A00071	7/25/2023	4.4	7/25/2028	114.0443084	110.8121417	107.6905045	104.6749721	101.7613248	98.9455368	96.22376624	93.5923453	91.04777135
230726A00011	7/26/2023	4.24	7/26/2028	113.7886283	110.5522092	107.42669	104.4076233	101.4907676	98.67207739	95.94769173	93.31392523	90.76725872
230726A00012	7/26/2023	4.24	7/26/2028	113.7886283	110.5522092	107.42669	104.4076233	101.4907676	98.67207739	95.94769173	93.31392523	90.76725872
230726A00023	7/26/2023	4.24	7/26/2028	113.7886283	110.5522092	107.42669	104.4076233	101.4907676	98.67207739	95.94769173	93.31392523	90.76725872
230726A00058	7/26/2023	4.99	7/28/2025	100.357999	100.2800753	100.2022784	100.1246078	100.0470633	99.96964463	99.8923514	99.81518335	99.73814016
230726A00060	7/26/2023	4.99	7/28/2025	100.357999	100.2800753	100.2022784	100.1246078	100.0470633	99.96964463	99.8923514	99.81518335	99.73814016
230727A00016	7/27/2023	4.51	7/27/2033	133.2298011	124.2421788	115.9551949	108.3099288	101.2527245	94.73469413	88.71127015	83.14180258	77.98919526
230727A00020	7/27/2023	4.39	7/27/2028	114.0376029	110.799938	107.6731361	104.6527529	101.7345502	98.91448506	96.18869938	93.55351025	91.00540084
230727A00033	7/27/2023	4.82	7/27/2026	105.4548599	104.2722402	103.1164176	101.9864857	100.8815788	99.80086936	98.74356599	97.70891163	96.69618158
230727A00037	7/27/2023	4.82	7/27/2026	105.4548599	104.2722402	103.1164176	101.9864857	100.8815788	99.80086936	98.74356599	97.70891163	96.69618158
230727A00063	7/27/2023	4.38	7/27/2028	114.238025	110.9917815	107.8567874	104.8285793	101.9029007	99.07569145	96.34307726	93.70135986	91.14700795
230727A00070	7/27/2023	4.75	7/27/2026	104.9863211	103.8828592	102.8026915	101.7450848	100.7093365	99.69477284	98.7007476	97.72664061	96.77185645
230727A00073	7/27/2023	4.81	7/27/2026	105.0515461	103.9477056	102.8671648	101.8091905	100.7730799	99.75815915	98.76378189	97.78932782	96.83420141
230727A00075	7/27/2023	4.5	7/27/2028	114.3808759	111.137855	108.0058352	104.9803673	102.0572088	99.23231238	96.50181578	93.86203214	91.30944087
230728A00004	7/28/2023	4.77	7/28/2026	105.0220653	103.9155946	102.8325373	101.7721547	100.7337391	99.71661173	98.72012189	97.74364497	96.7865814
230728A00005	7/28/2023	4.59	7/28/2027	109.8271261	107.6753251	105.5772188	103.5311036	101.5353428	99.58836379	97.68865494	95.83476274	94.02528905
230728A00006	7/28/2023	4.46	7/28/2028	114.2684671	111.0243954	107.8914478	104.8651672	101.9413031	99.11580091	96.38479159	93.74458197	91.19164553
230728A00017	7/28/2023	5.15	7/22/2025	100.2890831	100.2278754	100.1667567	100.1057268	100.0447855	99.98393266	99.92316799	99.86249133	99.80190249
230731A00012	7/31/2023	4.5	7/31/2029	118.9709142	114.5879518	110.3952372	106.3834428	102.5437513	98.86782546	95.34777869	91.97614818	88.74586967
230731A00036	7/31/2023	5.1	7/31/2025	100.400828	100.3145926	100.228504	100.1425619	100.0567659	99.97111565	99.88561083	99.80025107	99.715036

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230731A00037	7/31/2023	4.74	7/31/2026	105.0311288	103.9161995	102.8250336	101.7568762	100.7110043	99.68672466	98.68337274	97.70031093	96.73692734
230801A00001	8/1/2023	5.14	8/1/2025	100.4174722	100.3284573	100.2396011	100.1509033	100.0623634	99.97398096	99.88575566	99.79768704	99.70977469
230801A00021	8/1/2023	4.49	8/1/2028	114.4121788	111.1546368	108.0089546	104.9706328	102.0353818	99.19911018	96.45791439	93.80806889	91.24601675
230801A00022	8/1/2023	4.65	8/2/2027	110.0213203	107.8535738	105.7401427	103.6792941	101.6693641	99.70875398	97.79592779	95.92940881	94.107777
230801A00024	8/1/2023	4.82	8/3/2026	105.1619904	104.0379045	102.9379567	101.8613743	100.8074173	99.77537674	98.76457287	97.77435395	96.80409466
230801A00028	8/1/2023	5.14	8/1/2025	100.4174722	100.3284573	100.2396011	100.1509033	100.0623634	99.97398096	99.88575566	99.79768704	99.70977469
230802A00017	8/2/2023	4.79	8/3/2026	105.1287955	104.0049055	102.9051507	101.8287584	100.7749887	99.74313272	98.73251077	97.74247117	96.77238866
230802A00022	9/8/2023	4.41	9/8/2028	114.6299974	111.261639	108.01193	104.8759649	101.8490747	98.92681321	96.10494526	93.37943477	90.74643409
230802A00023	10/16/2023	4.37	10/16/2028	114.9656856	111.4834958	108.1272829	104.8917673	101.7719231	98.76296427	95.86033166	93.05968072	90.35687004
230804A00030	8/4/2023	4.88	8/4/2027	105.4872105	104.329636	103.1956488	102.0845609	100.9957106	99.92846131	98.88220046	97.85633817	96.85030632
230807A00010	8/7/2023	4.4	8/7/2028	114.2035834	110.9324959	107.774212	104.7241743	101.7780386	98.93166265	96.1810956	93.52256744	90.95247974
230807A00018	8/7/2023	4.65	8/7/2026	105.0293471	103.8948606	102.7849868	101.6989298	100.6359275	99.59525005	98.57619835	97.57810205	96.60031836
230807A00024	8/7/2023	5.03	8/7/2025	100.485066	100.3793884	100.2739444	100.168733	100.0637535	99.95900516	99.85448709	99.75019854	99.6461387
230807A00025	8/7/2023	4.69	8/7/2026	105.0740507	103.939298	102.8291621	101.7428469	100.6795902	99.63866214	98.61936344	97.62102372	96.64300007
230807A00033	8/7/2023	4.57	8/7/2026	105.0190594	103.8834519	102.7725013	101.6854095	100.6214126	99.57977902	98.55980791	97.56082737	96.58219309
230807A00087	11/7/2023	4.75	11/7/2025	101.5698567	101.2076875	100.8481099	100.4910959	100.136618	99.78464929	99.43516305	99.088133	98.74353322
230807A00093	2/7/2024	4.49	2/6/2026	102.5445844	101.927828	101.3185044	100.7164798	100.1216233	99.53380735	98.95290725	98.3788013	97.81137063
230808A00008	8/8/2023	4.67	4/24/2026	103.6373884	102.802848	101.9817883	101.173884	100.3788205	99.59629282	98.82600572	98.06767317	97.32101801
230808A00010	8/8/2023	4.95	8/8/2025	100.4892964	100.3808459	100.272642	100.1646836	100.05697	99.94950028	99.84227356	99.73528899	99.62854571
230808A00014	8/8/2023	4.6	8/7/2026	104.9734676	103.8393138	102.7297677	101.6440334	100.5813491	99.54098495	98.52224198	97.52444997	96.54696623
230808A00029	8/8/2023	4.6	8/7/2026	104.9734676	103.8393138	102.7297677	101.6440334	100.5813491	99.54098495	98.52224198	97.52444997	96.54696623
230808A00054	8/8/2023	4.19	8/8/2028	113.7870252	110.5141649	107.3544225	104.3032191	101.3561904	98.50917564	95.75820634	93.09949623	90.52943162
230808A00057	8/8/2023	4.19	8/8/2028	113.7870252	110.5141649	107.3544225	104.3032191	101.3561904	98.50917564	95.75820634	93.09949623	90.52943162
230808A00060	8/8/2023	4.19	8/8/2028	113.7870252	110.5141649	107.3544225	104.3032191	101.3561904	98.50917564	95.75820634	93.09949623	90.52943162
230809A00020	8/9/2023	4.51	11/9/2026	106.1329447	104.7459472	103.3839053	102.0462019	100.7322394	99.44143976	98.17324307	96.92710708	95.70250647
230809A00026	8/9/2023	4.59	8/7/2026	104.9622917	103.8282044	102.7187239	101.6330541	100.5704334	99.53013193	98.5114507	97.51371955	96.5362958
230809A00034	8/9/2023	4.59	8/10/2026	105.0033911	103.8606692	102.7429242	101.6493422	100.5791445	99.53158531	98.50595056	97.5015558	96.51774489
230810A00010	8/10/2023	4.62	8/10/2026	105.0371684	103.894244	102.7762996	101.6825213	100.6121302	99.56438046	98.53855794	97.53397813	96.54998482
230810A00013	8/10/2023	4.34	8/10/2028	114.0507616	110.7736764	107.6098485	104.5546916	101.6038351	98.75311175	95.99854741	93.33635036	90.76290184
230810A00024	8/10/2023	4.34	8/7/2028	114.0145041	110.7463943	107.5910109	104.543799	101.6004171	98.75672528	96.00877499	93.35279847	90.78519942
230810A00025	8/10/2023	4.37	5/8/2028	112.9953891	109.9990542	107.0990533	104.2917724	101.5737529	98.94168464	96.39239799	93.92285755	91.53015548
230810A00026	8/10/2023	4.4	1/10/2028	111.5613769	108.9240473	106.3638678	103.8781185	101.4641932	99.11959401	96.84192602	94.62889222	92.47828895
230810A00046	8/10/2023	4.88	11/18/2025	101.7565409	101.363497	100.9735031	100.5865236	100.2025237	99.82146881	99.44332504	99.068059	98.69563778

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230810A00053	8/10/2023	4.82	1/20/2026	102.528798	101.9591722	101.3958967	100.8388653	100.2879745	99.7431228	99.20421109	98.67114235	98.1438217
230810A00057	8/10/2023	4.62	8/10/2026	105.0371684	103.894244	102.7762996	101.6825213	100.6121302	99.56438046	98.53855794	97.53397813	96.54998482
230811A00017	8/11/2023	4.78	8/11/2026	105.2315412	104.0846515	102.9628822	101.8654128	100.7914584	99.74026745	98.71112035	97.70332745	96.71622767
230814A00028	8/14/2023	4.86	8/14/2026	105.3651849	104.2090841	103.0784849	101.9725483	100.8904722	99.83148858	98.7948624	97.77988943	96.78589481
230814A00029	8/14/2023	4.71	2/12/2027	107.7514539	106.0866077	104.4560004	102.8586418	101.29358	99.75989903	98.25671771	96.78318755	95.33849142
230815A00031	8/15/2023	5.14	8/13/2025	100.5758622	100.4534777	100.3314071	100.2096492	100.0882026	99.96706617	99.84623864	99.72571879	99.60550539
230815A00037	8/15/2023	4.53	8/15/2028	114.7141783	111.4125629	108.2253422	105.147869	102.1757155	99.30466101	96.53068082	93.8499359	91.25876298
230815A00038	8/15/2023	4.57	8/16/2027	110.1960755	107.9845752	105.8292175	103.7281822	101.679723	99.68216379	97.73389517	95.83337128	93.97910664
230815A00084	8/15/2023	5.14	8/15/2025	100.6027843	100.474823	100.3472037	100.219925	100.0929855	99.96638366	99.84011825	99.71418781	99.58859097
230816A00025	8/16/2023	4.62	4/16/2027	108.6187909	106.7645498	104.9513883	103.1780949	101.4435042	99.74649477	98.08598711	96.46094154	94.87035644
230817A00036	8/17/2023	4.91	8/17/2026	105.4658027	104.3006781	103.1614349	102.0472158	100.9572011	99.89060647	98.84668134	97.82470687	96.82399438
230817A00054	5/17/2024	4.5	5/15/2026	103.7635795	102.8701218	101.9921011	101.1291191	100.2807911	99.44674538	98.6266228	97.82007615	97.0267697
230818A00005	8/18/2023	5.01	8/18/2025	100.6313929	100.4950112	100.3590157	100.2234048	100.0881766	99.95332955	99.818862	99.68477228	99.55105876
230818A00007	8/18/2023	4.73	8/18/2026	105.3551302	104.1866472	103.0442067	101.9269432	100.8340296	99.76467439	98.71812031	97.69364219	96.69054537
230818A00024	8/18/2023	4.81	8/18/2026	105.3655825	104.1982638	103.0569408	101.9407503	100.8488672	99.78050187	98.73489893	97.7113349	96.70911673
230818A00025	8/18/2023	4.68	8/18/2027	110.3035307	108.0883405	105.9294237	103.824954	101.7731788	99.7724164	97.82105206	95.91753483	94.06037451
230818A00064	8/18/2023	5.09	8/18/2025	100.6356054	100.4992898	100.3633594	100.2278125	100.0926474	99.9578626	99.82345631	99.68942694	99.55577286
230818A00065	8/18/2023	4.82	8/18/2026	105.3770635	104.2096747	103.0682827	101.9520243	100.8600743	99.79164316	98.74597533	97.72234735	96.72006619
230821A00006	8/21/2023	4.66	8/21/2028	115.2046149	111.8783089	108.6676455	105.5679082	102.5746041	99.68345142	96.89036846	94.19146248	91.58301981
230821A00074	8/21/2023	5.18	8/21/2025	100.687804	100.5431077	100.3988412	100.2550027	100.1115901	99.96860151	99.82603508	99.68388888	99.542161
230821A00085	8/21/2023	5.04	2/23/2026	103.1115193	102.4456451	101.7883951	101.1396022	100.4991038	99.86674118	99.24235995	98.62580942	98.01694271
230823A00036	8/23/2023	4.87	8/24/2026	105.5213469	104.3362319	103.1778739	102.0453724	100.937867	99.85453499	98.79458963	97.75727794	96.74187901
230823A00066	8/23/2023	4.68	8/23/2027	110.3718759	108.1420395	105.969093	103.8511801	101.7865203	99.77340566	97.81019637	95.89531804	94.02725825
230824A00008	8/24/2023	4.69	8/24/2028	113.0892038	110.2378344	107.4824292	104.8190886	102.2441001	99.75392757	97.3452019	95.01471146	92.75939366
230824A00031	8/24/2023	4.49	8/24/2028	114.9378546	111.6016724	108.3818694	105.2736836	102.2725797	99.37423627	96.57453446	93.8695468	91.25552711
230824A00043	8/24/2023	4.89	8/24/2026	105.5446418	104.3593827	103.2008828	102.0682417	100.9605988	99.87713138	98.81705267	97.77960964	96.7640813
230824A00061	8/24/2023	4.61	8/24/2028	115.0836128	111.7507788	108.5340615	105.4287146	102.4302177	99.53426299	96.73674467	94.03374744	91.42153652
230825A00005	8/25/2023	5.14	11/21/2025	101.898175	101.4964824	101.0979694	100.7025982	100.3103318	99.92113341	99.53496715	99.15179753	98.77158966
230825A00009	8/25/2023	4.91	8/25/2026	105.5825283	104.3942252	103.2328101	102.0973761	100.9870568	99.90102387	98.83848518	97.79868272	96.78089082
230825A00010	8/25/2023	4.62	8/25/2028	115.128466	111.7920956	108.5720359	105.4635296	102.4620454	99.56326623	96.76307685	94.05755345	91.44295321
230825A00037	8/25/2023	4.91	8/25/2026	105.5825283	104.3942252	103.2328101	102.0973761	100.9870568	99.90102387	98.83848518	97.79868272	96.78089082
230825A00043	8/25/2023	4.89	8/25/2026	105.5591779	104.3710197	103.2097471	102.0744534	100.9642722	99.87837523	98.81597048	97.77629995	96.75863804
230825A00044	8/25/2023	5.2	8/25/2025	100.7441816	100.5883152	100.4329403	100.2780546	100.1236558	99.96974158	99.81630964	99.66335771	99.5108835

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230825A00062	8/25/2023	5.21	8/25/2025	100.7457364	100.5898682	100.4344914	100.2796039	100.1252034	99.97128733	99.8178536	99.66489988	99.51242389
230828A00036	8/28/2023	4.8	8/28/2026	105.5804014	104.3824118	103.211736	102.0674463	100.9486563	99.85451899	98.78422468	97.73699871	96.71209973
230828A00047	8/28/2023	4.92	8/28/2026	105.6380633	104.440983	103.2711721	102.127705	101.0096975	99.91630449	98.84671803	97.80016523	96.77590635
230828A00055	8/28/2023	5.24	8/28/2025	100.7908483	100.6265916	100.4628744	100.299694	100.1370479	99.97493333	99.81334774	99.65228854	99.49175316
230828A00056	8/28/2023	4.92	8/28/2026	105.6380633	104.440983	103.2711721	102.127705	101.0096975	99.91630449	98.84671803	97.80016523	96.77590635
230829A00006	8/29/2023	5.21	8/29/2025	100.7993328	100.6322867	100.4657963	100.299859	100.1344719	99.96963233	99.80533758	99.64158496	99.47837179
230830A00028	8/30/2023	4.45	8/30/2027	110.1224066	107.8727683	105.6809479	103.545043	101.4632302	99.43376041	97.45495572	95.52520541	93.6429629
230830A00029	8/30/2023	4.45	8/30/2027	110.1224066	107.8727683	105.6809479	103.545043	101.4632302	99.43376041	97.45495572	95.52520541	93.6429629
230830A00034	8/30/2023	4.44	8/30/2028	114.6140203	111.2718073	108.0465659	104.9334935	101.9280169	99.02577966	96.2226301	93.51461043	90.89794616
230830A00051	8/30/2023	4.45	8/30/2027	110.1224066	107.8727683	105.6809479	103.545043	101.4632302	99.43376041	97.45495572	95.52520541	93.6429629
230830A00055	8/30/2023	4.47	8/30/2028	114.1977405	110.9645803	107.8450864	104.8345224	101.9283831	99.12238166	96.41243726	93.79466343	91.26535743
230831A00001	8/31/2023	4.77	8/31/2026	105.504301	104.2996261	103.1225849	101.972233	100.8476687	99.74803076	98.67249563	97.62027586	96.59061798
230831A00006	8/31/2023	4.61	8/31/2027	110.3273402	108.0757565	105.8820221	103.7442337	101.6605666	99.62927099	97.64866775	95.71714535	93.8331563
230831A00007	8/31/2023	4.48	8/31/2028	114.7551133	111.4078186	108.177731	105.0600354	102.0501466	99.14369699	96.33652459	93.62466172	91.00432466
230831A00016	8/31/2023	4.65	8/31/2026	105.4461665	104.2405765	103.0626651	101.9114858	100.7861348	99.6857487	98.60950233	97.55660643	96.52630585
230831A00041	8/31/2023	4.48	8/31/2028	114.7551133	111.4078186	108.177731	105.0600354	102.0501466	99.14369699	96.33652459	93.62466172	91.00432466
230831A00066	8/31/2023	4.77	8/31/2026	105.504301	104.2996261	103.1225849	101.972233	100.8476687	99.74803076	98.67249563	97.62027586	96.59061798
230831A00069	8/31/2023	4.61	8/31/2027	110.3273402	108.0757565	105.8820221	103.7442337	101.6605666	99.62927099	97.64866775	95.71714535	93.8331563
230831A00070	8/31/2023	4.48	8/31/2028	114.7551133	111.4078186	108.177731	105.0600354	102.0501466	99.14369699	96.33652459	93.62466172	91.00432466
230831A00079	8/30/2024	4.28	8/29/2031	125.6672562	118.9321801	112.6134273	106.6828803	101.1144717	95.88402399	90.96910217	86.34887906	82.00401156
230901A00007	9/1/2023	4.55	9/1/2027	110.2089806	107.9558695	105.7607116	103.6215977	101.536698	99.50425742	97.52259217	95.59008625	93.705188
230901A00016	9/1/2023	4.6	8/3/2026	104.9968964	103.8726188	102.7725088	101.695792	100.6417269	99.60960316	98.59873978	97.6084837	96.63820843
230901A00037	9/1/2023	4.3	9/1/2028	114.4271838	111.0765485	107.8434957	104.7231856	101.7110098	98.80257915	95.99371148	93.28042027	90.65890419
230901A00044	9/1/2023	4.55	9/1/2027	110.2089806	107.9558695	105.7607116	103.6215977	101.536698	99.50425742	97.52259217	95.59008625	93.705188
230905A00030	9/5/2023	4.55	9/5/2028	115.0449382	111.6785395	108.430405	105.2956579	102.2696555	99.34797628	96.52640774	93.80093499	91.16773003
230905A00033	9/5/2023	4.71	9/4/2026	105.5740676	104.3564548	103.1670556	102.0048959	100.8690461	99.75861873	98.67276559	97.61067601	96.57157462
230906A00020	9/6/2023	5.19	9/8/2025	100.9301225	100.7352144	100.5410698	100.3476842	100.155053	99.9631718	99.77203619	99.58164176	99.39198412
230907A00012	9/7/2023	5.17	9/8/2025	100.9262358	100.731333	100.5371937	100.3438133	100.1511874	99.95931143	99.76818104	99.5777918	99.38813935
230907A00050	9/7/2023	5.05	9/5/2025	100.8729531	100.6863268	100.5003986	100.3151648	100.1306213	99.94676427	99.76358984	99.58109416	99.39927342
230907A00051	9/7/2023	4.79	9/8/2026	105.7274441	104.497627	103.296564	102.1232535	100.9767396	99.85611012	98.76049399	97.68905873	96.64100852
230908A00009	9/8/2023	4.55	9/8/2028	114.8356891	111.5096416	108.30181	105.2072619	102.2213037	99.33946746	96.55749813	93.87134216	91.27713631
230908A00010	9/8/2023	4.73	9/9/2030	113.4555951	110.4882525	107.6373562	104.8973094	102.2628261	99.72891218	97.29084697	94.94416631	92.68464698
230911A00010	9/11/2023	4.9	9/11/2026	105.8180317	104.5805334	103.3721406	102.191833	101.0386375	99.91162589	98.80991157	97.73264781	96.6790253

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230911A00014	9/11/2023	4.61	9/11/2028	115.3173325	111.929172	108.6605198	105.5064255	102.4621777	99.52329075	96.68549204	93.94471048	91.29706544
230911A00026	9/11/2023	5.08	9/11/2025	100.9481139	100.7448734	100.5424645	100.3408818	100.1401204	99.94017515	99.74104099	99.54271292	99.345186
230911A00030	9/11/2023	5.09	9/11/2025	100.9501405	100.7468972	100.5444854	100.3429	100.1421357	99.94218767	99.74305072	99.54471987	99.34719018
230912A00026	9/12/2023	4.84	9/14/2026	105.7882359	104.5425097	103.3262819	102.1385117	100.9782065	99.84441963	98.73624755	97.65282734	96.59333449
230912A00036	9/12/2023	4.57	9/12/2028	115.2003439	111.8111864	108.5416754	105.3868507	102.3419917	99.40260402	96.5644073	93.82332302	91.17546371
230912A00053	9/12/2023	4.74	9/7/2027	110.7117198	108.4358337	106.2188075	104.0586893	101.9536085	99.90177219	97.90146052	95.95102351	94.04887739
230913A00013	9/13/2023	4.87	9/14/2026	105.824926	104.5789623	103.362501	102.174501	101.0139697	99.87996046	98.77156947	97.68793376	96.62822874
230913A00030	9/13/2023	5.16	9/15/2025	101.0167798	100.8023681	100.5888808	100.3763119	100.1646554	99.95390532	99.74405581	99.53510103	99.32703518
230913A00031	9/13/2023	4.91	9/15/2026	105.8884025	104.6392194	103.4196779	102.2287298	101.0653757	99.92866269	98.817681	97.73156208	96.66947609
230913A00032	9/13/2023	4.74	9/15/2027	110.8243868	108.5243364	106.2842366	104.1020811	101.9759487	99.90399831	97.88446505	95.91565631	93.99594815
230913A00046	9/13/2023	4.91	9/14/2026	105.8738461	104.6275657	103.410793	102.2224867	101.0616541	99.92734824	98.81866536	97.73474232	96.67475441
230913A00049	9/13/2023	4.74	9/13/2027	110.7962186	108.5022134	106.2678851	104.091241	101.9703727	99.90345111	97.88872275	95.9245057	94.00918611
230913A00050	9/13/2023	4.6	9/13/2028	115.3109436	111.9170957	108.6431308	105.4840751	102.4351956	99.4919865	96.65015632	93.90561634	91.25446945
230914A00027	9/14/2023	4.76	1/8/2027	107.3258013	105.7641052	104.2334002	102.7328379	101.2616005	99.81889947	98.40397386	97.01608945	95.65453742
230914A00031	9/14/2023	5.08	9/15/2025	100.9996791	100.7852922	100.5718297	100.3592854	100.1476535	99.93692793	99.72710284	99.5181724	99.31013082
230914A00050	9/14/2023	4.67	9/14/2027	110.6536779	108.35843	106.1229589	103.9452661	101.8234379	99.7556403	97.74011497	95.77517562	93.85920428
230914A00051	9/14/2023	4.84	9/14/2026	105.7882359	104.5425097	103.3262819	102.1385117	100.9782065	99.84441963	98.73624755	97.65282734	96.59333449
230914A00059	7/26/2024	4.39	7/24/2026	104.5561263	103.4635439	102.3938719	101.3463943	100.3204245	99.31530381	98.3304005	97.36510802	96.41884391
230914A00069	7/26/2024	4.34	7/26/2027	109.27568	107.1353202	105.0483082	103.0129545	101.0276363	99.09079381	97.20092773	95.35659618	93.5564121
230914A00070	7/26/2024	4.3	7/26/2028	113.7447714	110.5144729	107.3947516	104.3811772	101.4695245	98.65576302	95.93604616	93.30670203	90.76422418
230914A00125	9/16/2024	4.46	9/16/2031	126.9574307	120.1307297	113.7283318	107.7214032	102.0832273	96.78903744	91.81586387	87.14239374	82.74884265
230915A00026	9/15/2023	4.57	9/15/2028	115.239243	111.8407695	108.5625258	105.3995162	102.3469867	99.40041218	96.55548312	93.80809396	91.15433188
230915A00030	9/15/2023	4.7	9/8/2027	110.6369705	108.3590686	106.1401416	103.9782313	101.8714618	99.81803436	97.81622429	95.86437681	93.96090366
230915A00054	9/15/2023	4.88	9/15/2026	105.8516292	104.6026846	103.3833777	102.1926603	101.0295332	99.89304358	98.78228173	97.6963792	96.63450626
230915A00055	9/15/2023	4.7	9/15/2027	110.7347756	108.4357446	106.1966429	104.0154652	101.8902905	99.81927853	97.80066487	95.83275746	93.91393289
230915A00057	9/15/2023	4.75	6/15/2027	109.5641561	107.5352771	105.5548733	103.6214842	101.7337037	99.89017716	98.08959963	96.3307133	94.61230563
230918A00008	9/18/2023	4.91	9/18/2026	105.9320733	104.6741776	103.4463265	102.2474507	101.076531	99.93259568	98.81471763	97.72201179	96.65363283
230918A00010	9/18/2023	4.72	9/18/2029	120.5037255	115.9478382	111.5946744	107.4340308	103.4562797	99.65233325	96.01360926	92.53200013	89.19984348
230918A00011	9/18/2023	4.91	9/18/2026	105.9320733	104.6741776	103.4463265	102.2474507	101.076531	99.93259568	98.81471763	97.72201179	96.65363283
230918A00013	9/18/2023	4.74	9/18/2030	124.9621023	119.2415504	113.8262627	108.6981857	103.8404366	99.23722037	94.87375329	90.73619247	86.81157045
230918A00018	9/18/2023	5.01	3/18/2026	103.4055522	102.6747513	101.9543203	101.2440391	100.5436937	99.85307621	99.17198456	98.50022215	97.83759779
230918A00023	9/18/2023	4.91	9/18/2026	105.9320733	104.6741776	103.4463265	102.2474507	101.076531	99.93259568	98.81471763	97.72201179	96.65363283
230918A00027	9/18/2023	5.11	9/30/2025	101.2039435	100.9476127	100.6925773	100.4388276	100.186354	99.93514675	99.68519652	99.43649387	99.1890295

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230918A00030	9/18/2023	5.01	9/17/2027	105.8660238	104.6614947	103.482063	102.3269846	101.1955441	100.0870538	99.00085218	97.9363026	96.8927923
230919A00010	9/19/2023	4.76	9/20/2027	110.9398956	108.6242041	106.3691613	104.1727266	102.032946	99.94794799	97.91593873	95.93519846	94.00407758
230919A00029	9/19/2023	4.63	9/19/2028	115.4873797	112.0732726	108.7802613	105.603299	102.5375846	99.57854853	96.72183996	93.96331448	91.29902294
230919A00043	9/19/2023	4.62	9/19/2028	115.454668	112.0410948	108.7486031	105.5721467	102.506925	99.54836887	96.6921278	93.93405788	91.27021035
230919A00044	9/19/2023	4.93	9/21/2026	106.000595	104.7338169	103.4974908	102.290526	101.1118833	99.96057205	98.83564747	97.73620787	96.66139229
230919A00047	9/19/2023	4.98	8/19/2026	105.5755436	104.404136	103.258868	102.1388699	101.0433101	99.97139338	98.92235848	97.89547672	96.89005008
230919A00055	9/19/2023	4.65	9/19/2028	115.5528031	112.1376283	108.8435776	105.6656034	102.5989037	99.63890786	96.78126427	94.02182767	91.35664811
230920A00002	9/20/2023	4.47	10/2/2028	115.3748771	111.9191084	108.5872101	105.3739735	102.2744453	99.28391293	96.39789125	93.6121097	90.92250048
230920A00025	9/20/2023	5.14	9/16/2025	101.0257799	100.8085831	100.5923343	100.3770273	100.1626559	99.94921385	99.7366951	99.52509358	99.31440329
230920A00026	9/20/2023	4.9	9/16/2026	105.8906737	104.6386669	103.4164346	102.2229215	101.0571219	99.91807629	98.80486939	97.71662714	96.65251459
230921A00021	9/21/2023	4.62	9/21/2028	115.7257054	112.2959873	108.9881918	105.7972259	102.7182449	99.74663845	96.87801748	94.10820169	91.43320821
230921A00028	9/21/2023	5.07	9/21/2026	106.1745345	104.9066138	103.6691642	102.4610945	101.281365	100.1289846	99.00300798	97.90253301	96.82669829
230922A00022	9/22/2023	4.99	9/22/2026	106.0899208	104.8197423	103.5801593	102.3700738	101.1884396	100.0342596	98.90658291	97.80450207	96.72715074
230922A00025	9/22/2023	5.18	9/22/2025	101.1147529	100.88078	100.6479003	100.4161062	100.18539	99.95574409	99.72716108	99.49963353	99.27315408
230925A00003	9/25/2023	4.99	9/25/2026	106.1342631	104.8553482	103.6074358	102.3894064	101.2001935	100.0387812	98.9042008	97.79552811	96.71188107
230925A00004	9/25/2023	4.74	9/25/2028	115.927853	112.4891176	109.1728139	105.9738177	102.887255	99.90848859	97.03310386	94.25689699	91.57586305
230925A00057	9/25/2023	5.19	9/30/2025	101.2243737	100.9680082	100.7129382	100.4591542	100.2066463	99.95540492	99.70542069	99.45668418	99.20918608
230925A00080	9/25/2023	5.07	9/30/2025	101.2075395	100.9510512	100.695861	100.441959	100.1893355	99.93798094	99.68788572	99.43904044	99.19143575
230925A00114	9/25/2023	5.09	3/25/2026	103.5609504	102.8100663	102.0701096	101.3408426	100.6220344	99.91346075	99.21490389	98.52615207	97.84699953
230925A00121	9/25/2023	5.2	9/25/2025	101.1597352	100.9173639	100.6761605	100.4361167	100.197224	99.95947411	99.72285888	99.48737016	99.25299988
230926A00010	9/26/2023	4.74	9/26/2028	115.941294	112.4994304	109.1801957	105.9784537	102.8893191	99.90814404	97.03050416	94.25218641	91.56917728
230926A00021	9/26/2023	4.73	9/26/2028	115.9083872	112.4670637	109.1483548	105.9471245	102.8584883	99.87779851	97.00063137	94.22277422	91.54021397
230926A00048	9/26/2023	5.2	9/26/2025	101.1731742	100.9280045	100.684028	100.4412359	100.1996197	99.95917082	99.71988076	99.48174116	99.24474372
230926A00076	9/26/2023	4.73	9/26/2028	115.9083872	112.4670637	109.1483548	105.9471245	102.8584883	99.87779851	97.00063137	94.22277422	91.54021397
230927A00020	9/27/2023	5.01	10/16/2026	106.4673079	105.1365561	103.8336066	102.5575914	101.3076783	100.0830702	98.88300241	97.70674122	96.55358248
230927A00021	9/27/2023	4.96	1/29/2027	107.9433704	106.3188683	104.7272537	103.1675965	101.6390015	100.1406064	98.67158087	97.23112451	95.81846571
230927A00032	9/27/2023	5.02	9/23/2026	106.1421405	104.8688036	103.6262019	102.41323	101.228835	100.0720133	98.94180799	97.83730605	96.75763575
230927A00033	9/27/2023	4.78	9/25/2028	116.0593689	112.6184763	109.3000732	106.0990332	103.0104806	100.029776	97.15250334	94.37445695	91.6916303
230927A00034	9/27/2023	4.82	9/27/2028	116.2182127	112.7688915	109.4425126	106.2339236	103.138224	100.1507517	97.26706883	94.48294983	91.79436926
230928A00001	9/28/2023	4.91	9/28/2026	106.1675796	104.8785926	103.6210739	102.3938792	101.1959194	100.0261567	98.88360226	97.7673129	96.67638866
230928A00014	9/28/2023	4.9	9/28/2027	111.3717396	109.0281199	106.7463356	104.5242881	102.3599693	100.2514564	98.19690723	96.19455662	94.24271193
230928A00016	9/28/2023	4.83	9/28/2028	116.2648394	112.8118394	109.4819942	106.2701386	103.1713604	100.1809863	97.29456835	94.50787109	91.81686015
230928A00017	9/28/2023	4.83	9/28/2028	116.2648394	112.8118394	109.4819942	106.2701386	103.1713604	100.1809863	97.29456835	94.50787109	91.81686015

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
230928A00033	9/28/2023	5.03	9/28/2026	106.2290819	104.9410873	103.6845097	102.4582074	101.2610938	100.0921336	98.95033995	97.83477187	96.74453131
230928A00047	9/28/2023	5.21	9/29/2025	101.2160156	100.9624425	100.7101393	100.4590963	100.2093042	99.96075366	99.71343549	99.46734053	99.22245974
230928A00051	9/28/2023	5.04	9/28/2026	106.5851096	105.2453464	103.9301077	102.6387572	101.3706803	100.1252834	98.90199323	97.70025552	96.51953451
230928A00058	9/28/2023	5.04	9/28/2026	106.5851096	105.2453464	103.9301077	102.6387572	101.3706803	100.1252834	98.90199323	97.70025552	96.51953451
230928A00059	9/28/2023	4.84	9/28/2028	116.0302856	112.6279772	109.3481427	106.18569	103.1357672	100.1937495	97.35522801	94.61599771	91.97204735
230928A00060	9/28/2023	4.84	9/28/2028	116.0302856	112.6279772	109.3481427	106.18569	103.1357672	100.1937495	97.35522801	94.61599771	91.97204735
230928A00061	9/28/2023	4.84	9/28/2028	116.0302856	112.6279772	109.3481427	106.18569	103.1357672	100.1937495	97.35522801	94.61599771	91.97204735
230928A00064	9/28/2023	4.78	9/30/2027	111.2941549	108.942356	106.6527961	104.4233564	102.2520099	100.1368157	98.07591495	96.06752652	94.1099428
230929A00018	9/29/2023	5.14	9/29/2025	101.1983334	100.94479	100.6925163	100.4415028	100.19174	99.94321875	99.69592969	99.44986373	99.20501184
230929A00031	9/29/2023	5.14	9/29/2025	101.1983334	100.94479	100.6925163	100.4415028	100.19174	99.94321875	99.69592969	99.44986373	99.20501184
230929A00033	9/29/2023	4.92	9/29/2026	106.1048662	104.8148841	103.5564396	102.3283844	101.1296254	99.95912138	98.81587997	97.69895484	96.60744304
230929A00046	9/29/2023	4.66	9/29/2027	111.0060022	108.6604195	106.376869	104.1532411	101.987517	99.87776414	97.82213119	95.8188442	93.86620243
230929A00049	9/29/2023	4.87	9/30/2030	113.298133	110.4451145	107.7021837	105.0641011	102.5259163	100.0829506	97.73077964	95.46521789	93.2823043
230929A00059	9/29/2023	5.14	9/29/2025	101.1983334	100.94479	100.6925163	100.4415028	100.19174	99.94321875	99.69592969	99.44986373	99.20501184
230929A00061	9/29/2023	4.92	9/29/2026	106.1048662	104.8148841	103.5564396	102.3283844	101.1296254	99.95912138	98.81587997	97.69895484	96.60744304
230929A00062	9/29/2023	4.78	9/29/2027	111.1127618	108.7692627	106.4876724	104.2658874	102.1018948	99.99376729	97.9396589	95.93780046	93.98649583
231002A00018	10/2/2023	4.87	10/1/2027	111.3463877	108.9945383	106.7049246	104.4754327	102.3040399	100.1888089	98.12788417	96.11948721	94.16191283
231002A00042	10/2/2023	4.73	10/2/2028	116.2358112	112.7658254	109.4200923	106.1933898	103.0807517	100.0774532	97.17899738	94.38110238	91.67968957
231003A00005	10/3/2023	4.84	10/3/2028	116.36523	112.8963077	109.5515331	106.3256949	103.2138367	100.2112424	97.31342276	94.51610302	91.81521075
231003A00011	10/3/2023	4.89	10/15/2027	111.5894774	109.1959053	106.8665209	104.5991832	102.3918389	100.2425178	98.14932869	96.11045595	94.12415541
231003A00036	10/3/2023	4.84	10/3/2028	116.36523	112.8963077	109.5515331	106.3256949	103.2138367	100.2112424	97.31342276	94.51610302	91.81521075
231004A00006	10/4/2023	4.88	10/4/2028	116.5110786	113.0369318	109.6871859	106.4566205	103.34027	100.3334095	97.43154097	94.63038089	91.92584845
231005A00003	10/5/2023	5.14	10/6/2025	101.2914762	101.0184052	100.7468149	100.4766932	100.208028	99.94080766	99.67502036	99.41065455	99.14769881
231005A00035	10/5/2023	4.98	10/5/2026	106.2681352	104.9631598	103.688652	102.4435448	101.2268204	100.0375083	98.87468166	97.73745541	96.62498371
231005A00037	10/5/2023	4.88	10/5/2027	111.42552	109.0616522	106.7605767	104.5201722	102.3384072	100.2133353	98.14309092	96.12588518	94.16000191
231005A00039	10/5/2023	5.16	10/6/2025	101.2969167	101.0238362	100.7522364	100.4821051	100.2134305	99.94620072	99.68040404	99.41602889	99.15306385
231005A00040	10/5/2023	4.98	10/5/2026	106.2681352	104.9631598	103.688652	102.4435448	101.2268204	100.0375083	98.87468166	97.73745541	96.62498371
231005A00054	10/5/2023	4.98	10/5/2026	106.2681352	104.9631598	103.688652	102.4435448	101.2268204	100.0375083	98.87468166	97.73745541	96.62498371
231006A00009	10/6/2023	4.98	10/15/2027	111.7986198	109.4025845	107.0707892	104.8010912	102.5914358	100.4398512	98.34444505	96.30340016	94.31497116
231006A00010	10/6/2023	4.93	10/16/2028	116.8396863	113.3262368	109.9396111	106.6744998	103.5258483	100.4888432	97.55889912	94.73164643	92.00291963
231006A00032	10/6/2023	5.08	10/6/2026	106.4110681	105.102907	103.8249856	102.5762542	101.3557116	100.162402	98.99541299	97.85387259	96.73694728
231006A00033	10/6/2023	4.98	10/6/2027	111.669466	109.2999782	106.9934774	104.7478387	102.5610267	100.4310914	98.35616312	96.33444887	94.36422841
231010A00007	10/10/2023	4.83	10/12/2027	111.4082496	109.0251462	106.7057774	104.448009	102.2497955	100.1091748	98.02426437	95.99325758	94.0144196

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
231010A00030	10/10/2023	4.88	10/15/2026	106.2825216	104.9552654	103.6560337	102.3839406	101.1381376	99.91781188	98.72218438	97.55050794	96.40206574
231010A00031	10/10/2023	5.08	10/10/2025	101.3277311	101.0435263	100.7609286	100.4799243	100.2004998	99.92264168	99.64633675	99.3715719	99.09833417
231010A00057	10/10/2023	4.66	10/10/2028	116.1083923	112.6179505	109.2532195	106.0089235	102.8800425	99.86179815	96.94964026	94.13923443	91.42645027
231010A00068	10/10/2023	4.83	10/8/2027	111.3525187	108.9811749	106.6730102	104.4258983	102.2378021	100.1067692	98.03092711	96.00847986	94.03770375
231010A00075	10/10/2023	4.78	10/10/2028	116.2587518	112.7718882	109.4104467	106.1691692	103.0430524	100.0273334	97.1174765	94.30916096	91.59826918
231010A00076	10/10/2023	4.66	10/10/2028	116.1083923	112.6179505	109.2532195	106.0089235	102.8800425	99.86179815	96.94964026	94.13923443	91.42645027
231010A00101	10/10/2023	4.78	10/10/2028	116.2587518	112.7718882	109.4104467	106.1691692	103.0430524	100.0273334	97.1174765	94.30916096	91.59826918
231010A00129	10/10/2023	4.93	10/13/2026	106.3191909	104.9961211	103.7015689	102.4346116	101.1943663	99.97998825	98.79066832	97.62563129	96.48413407
231011A00004	10/11/2023	4.81	10/8/2027	111.3064324	108.9356271	106.6279895	104.3813937	102.193803	100.0632651	97.98790797	95.96593589	93.99562544
231011A00016	10/11/2023	4.75	10/11/2028	116.1719388	112.6837022	109.3210383	106.0786834	102.9516282	99.93510435	97.02457041	94.21569996	91.50436979
231011A00028	10/11/2023	4.92	10/9/2026	106.2487059	104.9349925	103.6507661	102.3950316	101.1668386	99.96527896	98.78948468	97.63862533	96.5119062
231011A00029	10/11/2023	4.81	10/8/2027	111.3064324	108.9356271	106.6279895	104.3813937	102.193803	100.0632651	97.98790797	95.96593589	93.99562544
231011A00030	10/11/2023	4.75	10/11/2028	116.1719388	112.6837022	109.3210383	106.0786834	102.9516282	99.93510435	97.02457041	94.21569996	91.50436979
231012A00016	10/12/2023	5.14	10/14/2025	101.3979566	101.1025461	100.808872	100.5169187	100.2266711	99.93811413	99.65123297	99.36601293	99.08243948
231012A00027	10/12/2023	4.78	10/16/2028	116.3377218	112.8326454	109.4541661	106.1969822	103.0560469	100.0265542	97.10392569	94.28379847	91.56201349
231013A00017	10/13/2023	5.13	10/14/2025	101.3950144	101.0996094	100.8059407	100.5139928	100.2237506	99.93519903	99.64832324	99.36310852	99.07954038
231013A00020	10/13/2023	4.98	10/13/2026	106.3843646	105.0608473	103.7658553	102.4984657	101.2577955	100.0429997	98.85326887	97.6878277	96.54593288
231016A00016	10/16/2023	5.01	10/16/2026	106.4673079	105.1365561	103.8336066	102.5575914	101.3076783	100.0830702	98.88300241	97.70674122	96.55358248
231016A00047	10/16/2023	4.98	2/10/2027	108.1631997	106.5009434	104.872786	103.2777447	101.7148741	100.1832648	98.68204164	97.21036174	95.76741334
231016A00049	10/16/2023	4.95	7/19/2027	110.4546396	108.3211274	106.2404175	104.2108514	102.2308351	100.2988362	98.41338107	96.57305192	94.77648445
231017A00008	10/17/2023	5.26	10/17/2025	101.4682831	101.1644929	100.8625365	100.5623973	100.2640587	99.96750457	99.67271872	99.37968529	99.08838856
231017A00017	10/17/2023	5.11	10/16/2026	106.5984878	105.26683	103.9629902	102.6860999	101.4353267	100.2098728	99.00897327	97.83189397	96.67793038
231017A00029	10/17/2023	4.99	10/17/2028	116.7912544	113.3196182	109.9747254	106.7512424	103.6440894	100.6484269	97.75964325	94.9733424	92.28533271
231017A00032	10/17/2023	4.99	10/17/2028	116.7912544	113.3196182	109.9747254	106.7512424	103.6440894	100.6484269	97.75964325	94.9733424	92.28533271
231017A00033	10/17/2023	4.99	10/17/2028	116.7912544	113.3196182	109.9747254	106.7512424	103.6440894	100.6484269	97.75964325	94.9733424	92.28533271
231017A00034	10/17/2023	4.99	10/17/2028	116.7912544	113.3196182	109.9747254	106.7512424	103.6440894	100.6484269	97.75964325	94.9733424	92.28533271
231017A00035	10/17/2023	4.99	10/17/2028	116.7912544	113.3196182	109.9747254	106.7512424	103.6440894	100.6484269	97.75964325	94.9733424	92.28533271
231017A00036	10/17/2023	4.99	10/17/2028	116.7912544	113.3196182	109.9747254	106.7512424	103.6440894	100.6484269	97.75964325	94.9733424	92.28533271
231017A00037	10/17/2023	4.99	10/17/2028	116.7912544	113.3196182	109.9747254	106.7512424	103.6440894	100.6484269	97.75964325	94.9733424	92.28533271
231017A00039	10/17/2023	5.12	10/16/2026	106.9749361	105.5818195	104.2140533	102.8710013	101.5520483	100.256599	98.98407743	97.73392593	96.50560465
231017A00040	10/17/2023	5.12	10/16/2026	106.9749361	105.5818195	104.2140533	102.8710013	101.5520483	100.256599	98.98407743	97.73392593	96.50560465
231017A00041	10/17/2023	5.12	10/16/2026	106.9749361	105.5818195	104.2140533	102.8710013	101.5520483	100.256599	98.98407743	97.73392593	96.50560465
231017A00046	10/17/2023	5.26	10/17/2025	101.4682831	101.1644929	100.8625365	100.5623973	100.2640587	99.96750457	99.67271872	99.37968529	99.08838856

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
231018A00026	10/18/2023	5.28	1/7/2026	102.6062943	102.0724359	101.5441508	101.021352	100.5039541	99.99187346	99.4850283	98.98333839	98.48672519
231019A00006	10/19/2023	5.29	10/20/2025	101.5183685	101.2061651	100.8958956	100.5875418	100.281086	99.97651054	99.67379812	99.37293156	99.07389391
231019A00007	10/19/2023	5.19	10/19/2026	106.7487713	105.4093975	104.0971276	102.8111477	101.5506767	100.3149649	99.1032919	97.91496582	96.74932137
231019A00009	10/19/2023	5.14	10/19/2027	112.2296156	109.8173437	107.469967	105.185332	102.961372	100.796103	98.68761946	96.63409084	94.63375798
231019A00031	1/22/2024	5.12	1/30/2026	102.8347799	102.2363969	101.6449896	101.0604364	100.4826186	99.91142017	99.34672779	98.78843066	98.23642053
231019A00036	10/19/2023	5.27	10/20/2025	101.5121514	101.1999601	100.8897026	100.5813608	100.274917	99.9703534	99.66765281	99.36679802	99.06777209
231019A00041	10/19/2023	5.08	10/19/2028	117.3836436	113.8526242	110.4492483	107.1681764	104.0043243	100.9528493	98.00913722	95.16879042	92.42761592
231019A00043	10/19/2023	5.19	10/19/2026	106.7487713	105.4093975	104.0971276	102.8111477	101.5506767	100.3149649	99.1032919	97.91496582	96.74932137
231019A00044	10/19/2023	5.14	10/19/2027	112.2296156	109.8173437	107.469967	105.185332	102.961372	100.796103	98.68761946	96.63409084	94.63375798
231020A00041	10/20/2023	5.19	10/20/2025	101.487283	101.1751402	100.8649309	100.556637	100.2502409	99.94572484	99.64307155	99.34226385	99.0432848
231020A00048	10/20/2023	5.08	10/20/2026	106.6183659	105.2776734	103.963825	102.6760259	101.4135126	100.1755522	98.96143987	97.77049831	96.60207592
231020A00049	10/20/2023	5.03	10/20/2027	111.9872629	109.5750707	107.2278499	104.9434468	102.7197945	100.5549081	98.44688125	96.39388222	94.39415055
231020A00051	10/20/2023	5.02	10/20/2028	117.1961864	113.6654713	110.2625061	106.9819472	103.818706	100.7679355	97.82501724	94.98554895	92.24533328
231020A00069	10/20/2023	5.08	10/15/2026	106.5443264	105.2152654	103.9142604	102.6404243	101.3929078	100.1708974	98.97361311	97.80030703	96.65026161
231020A00070	10/20/2023	5.19	10/15/2025	101.4203195	101.1221616	100.8257715	100.5311335	100.2382319	99.94705132	99.65757654	99.36979245	99.08368417
231023A00029	10/23/2023	5.19	10/23/2025	101.5274578	101.2069161	100.8884092	100.5719177	100.2574224	99.9449045	99.6343452	99.32572609	99.01902895
231023A00034	4/23/2024	4.95	4/23/2026	103.8550265	103.0222866	102.2029503	101.3966955	100.60321	99.82219171	99.05334794	98.29639509	97.55105834
231024A00017	10/24/2023	4.97	10/25/2027	111.9186205	109.4933032	107.1336282	104.8374325	102.6026383	100.4272491	98.30934617	96.24708445	94.23868971
231024A00029	10/24/2023	4.97	10/25/2027	111.9186205	109.4933032	107.1336282	104.8374325	102.6026383	100.4272491	98.30934617	96.24708445	94.23868971
231024A00030	10/24/2023	4.96	10/24/2028	117.0493836	113.5098095	110.098686	106.8106429	103.640565	100.5835789	97.63503971	94.79051934	92.04579479
231024A00039	10/24/2023	5.06	10/26/2026	106.6804291	105.3259479	103.996855	102.6924674	101.4121265	100.1551973	98.92106725	97.70914498	96.5188597
231024A00046	10/24/2023	4.96	10/24/2028	117.0493836	113.5098095	110.098686	106.8106429	103.640565	100.5835789	97.63503971	94.79051934	92.04579479
231024A00079	10/24/2023	5.18	10/24/2025	101.5376293	101.2142932	100.8930258	100.5738075	100.2566185	99.94143952	99.62825138	99.31703521	99.00777237
231024A00082	10/24/2023	5.05	10/23/2026	106.6228553	105.2754564	103.9541702	102.6582578	101.3870081	100.1397369	98.91578545	97.71451927	96.53532705
231025A00003	10/25/2023	5.07	10/24/2025	101.5258975	101.202317	100.8808102	100.5613572	100.2439382	99.92853368	99.61512455	99.30369178	98.99421663
231025A00004	10/25/2023	5.07	10/24/2025	101.5258975	101.202317	100.8808102	100.5613572	100.2439382	99.92853368	99.61512455	99.30369178	98.99421663
231025A00013	10/25/2023	5.08	10/26/2026	106.7072202	105.3525503	104.023272	102.7187022	101.4381821	100.1810768	98.94677348	97.73468079	96.54422786
231025A00018	10/25/2023	5.19	10/27/2025	101.5810202	101.2492708	100.9196935	100.5922669	100.2669701	99.94378221	99.62268285	99.30365175	98.98666895
231025A00024	10/25/2023	5	10/25/2028	117.197907	113.653008	110.2368197	106.9439623	103.7693112	100.7079835	97.75532512	94.90689882	92.15847282
231025A00036	10/25/2023	5.08	10/21/2026	106.6331744	105.2901538	103.9737352	102.683142	101.4176285	100.1764776	98.9589999	97.76453228	96.59243648
231027A00015	10/27/2023	5.08	2/23/2026	103.1379272	102.4719554	101.8146087	101.1657201	100.5251267	99.89267011	99.26819569	98.65155279	98.04259453
231027A00019	10/27/2023	4.99	10/27/2026	106.6012204	105.2450713	103.914057	102.6075138	101.324801	100.0653003	98.82841486	97.61356821	96.42020339
231027A00021	10/27/2023	5.13	10/30/2025	101.6008738	101.2607545	100.9229116	100.5873225	100.2539646	99.92281579	99.59385412	99.26705801	98.94240615

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
231027A00028	10/27/2023	4.92	10/23/2028	116.9010831	113.366826	109.9607597	106.6775236	103.5120122	100.4593614	97.51493542	94.67431529	91.93328681
231027A00035	10/27/2023	4.99	10/30/2026	106.6449015	105.2817643	103.9430363	102.6281102	101.3363986	100.0673329	98.82036293	97.594956	96.39059625
231027A00036	10/27/2023	5.13	11/3/2025	101.6538934	101.3025959	100.9537296	100.6072695	100.2631906	99.92146836	99.58207871	99.24499775	98.91020196
231027A00043	10/27/2023	4.99	10/27/2026	106.6012204	105.2450713	103.914057	102.6075138	101.324801	100.0653003	98.82841486	97.61356821	96.42020339
231030A00035	10/30/2023	4.85	10/30/2028	117.0133286	113.451132	110.0188956	106.7111852	103.5228231	100.4488745	97.48463474	94.62561745	91.86754317
231031A00021	10/31/2023	5.18	10/30/2025	101.6178032	101.2776482	100.9397699	100.6041454	100.2707524	99.93956859	99.61057211	99.28374137	98.95905506
231031A00022	10/31/2023	5.04	10/30/2026	106.7124342	105.3488178	104.0096188	102.6942298	101.4020629	100.1325496	98.88513936	97.65929935	96.45451349
231031A00033	10/31/2023	5.05	10/30/2026	106.7259408	105.3622285	104.0229353	102.7074537	101.4151958	100.1455929	98.89809465	97.67216802	96.46729694
231031A00040	4/30/2024	5.1	10/31/2025	101.6038556	101.2609532	100.9203624	100.5820598	100.2460226	99.91222797	99.58065368	99.25127763	98.92407804
231101A00016	11/1/2023	4.99	11/3/2025	101.6306783	101.2791366	100.9300315	100.5833379	100.2390307	99.89708524	99.55747729	99.22018288	98.88517838
231102A00022	11/2/2023	4.91	11/10/2026	106.6991016	105.3051966	103.9364132	102.5921289	101.271741	99.97466637	98.70034039	97.4482162	96.2177641
231102A00024	11/2/2023	4.78	11/2/2028	116.5619819	113.0050275	109.5780579	106.2756342	103.0925742	100.0239386	97.0650185	94.21132322	91.45856921
231102A00025	11/2/2023	4.9	12/8/2026	107.0955467	105.6204371	104.1732521	102.7532657	101.3597764	99.9921065	98.64960081	97.33162597	96.03756943
231102A00026	11/2/2023	4.9	1/12/2027	107.6002021	106.0253138	104.4817943	102.9687795	101.4854365	100.0309622	98.60458218	97.20554933	95.83314252
231102A00027	11/2/2023	4.89	2/9/2027	108.00032	106.3424828	104.7186187	103.1277498	101.5689359	100.0412722	98.54388764	97.07594375	95.63663267
231102A00028	11/2/2023	4.88	3/9/2027	108.4089967	106.6650258	104.9579523	103.2866693	101.6501144	100.0472674	98.47714848	96.93881582	95.43136387
231102A00029	11/2/2023	4.88	4/13/2027	108.9158756	107.0697482	105.2643226	103.4983891	101.7707849	100.0803919	98.42613421	96.80697646	95.22192173
231102A00030	11/2/2023	4.87	5/11/2027	109.3023808	107.3738764	105.4893893	103.6476534	101.8474476	100.0875933	98.36695286	96.68442801	95.03895809
231102A00031	11/2/2023	5.1	11/3/2025	101.6434029	101.292128	100.9432843	100.5968465	100.2527899	99.91108985	99.57172226	99.23466325	98.89988929
231102A00032	11/2/2023	4.91	11/2/2026	106.5807679	105.2102345	103.8640474	102.5416118	101.2423517	99.96570954	98.71114493	97.47813446	96.2661708
231102A00033	11/2/2023	4.83	11/2/2027	111.7013781	109.256208	106.8777551	104.563831	102.3123319	100.121235	97.98859433	95.91253789	93.89126412
231102A00039	11/2/2023	4.91	10/28/2026	106.5081722	105.150455	103.8176176	102.5090154	101.2240257	99.96204719	98.72249883	97.50481899	96.30846468
231102A00064	1/22/2024	5.01	1/22/2026	102.6629601	102.0873549	101.5182256	100.955463	100.3989606	99.84861391	99.30432112	98.76598248	98.23350043
231102A00070	2/15/2024	4.86	2/16/2027	108.0597802	106.380144	104.7352016	103.1239435	101.5453994	99.99863611	98.48275601	96.99689507	95.54022141
231103A00002	11/3/2023	4.67	11/29/2027	111.6926965	109.170245	106.7186201	104.3354306	102.0183805	99.76526495	97.5739656	95.44244693	93.36875239
231103A00007	11/3/2023	5.05	8/4/2025	100.4483271	100.3509862	100.2538407	100.1568901	100.0601337	99.96357092	99.86720117	99.77102385	99.67503836
231103A00008	11/3/2023	4.97	11/3/2025	101.5979441	101.2467672	100.898021	100.5516803	100.2077203	99.86611631	99.5268443	99.18988039	98.85520105
231103A00029	11/3/2023	4.75	11/3/2026	106.3776773	105.0057825	103.6583035	102.3346428	101.034222	99.75648082	98.50087673	97.26688397	96.0539931
231103A00034	11/3/2023	4.49	11/3/2028	115.8441911	112.2902228	108.8664843	105.5675149	102.3881119	99.32331713	96.36840406	93.51886573	90.7704034
231106A00007	11/6/2023	4.78	11/5/2027	111.6248321	109.1719976	106.7863112	104.4655632	102.2076294	100.0104678	97.87211421	95.79067934	93.76434528
231106A00020	11/6/2023	5.02	11/6/2025	101.6543075	101.294717	100.9376784	100.5831645	100.2311486	99.88160427	99.53450539	99.18982634	98.84754179
231107A00009	11/7/2023	5.03	11/7/2025	101.6708746	101.3084828	100.9486837	100.5914494	100.2367524	99.88456572	99.53486262	99.18761682	98.84280241
231107A00011	11/7/2023	4.84	11/9/2026	106.58782	105.1975361	103.8322644	102.491386	101.1743021	99.88043302	98.60921747	97.36011186	96.1325896

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
231108A00015	11/8/2023	4.83	11/9/2026	106.5740359	105.1838516	103.8186778	102.4778956	101.1609063	99.86713019	98.59600612	97.34699051	96.11955678
231108A00026	11/8/2023	5.04	11/7/2025	101.6744823	101.3120827	100.9522756	100.5950335	100.2403287	99.88813416	99.53842331	99.19116981	98.84634773
231108A00028	11/8/2023	4.83	11/9/2026	106.5740359	105.1838516	103.8186778	102.4778956	101.1609063	99.86713019	98.59600612	97.34699051	96.11955678
231109A00025	11/9/2023	4.75	11/9/2028	115.9222382	112.4762737	109.1574543	105.9603555	102.8798153	99.91091964	97.04898927	94.28956723	91.62840692
231113A00034	11/13/2023	5.16	11/13/2025	101.7978554	101.4185782	101.0421417	100.6685137	100.2976628	99.92955805	99.56416878	99.20146492	98.84141681
231113A00038	11/13/2023	4.97	11/13/2026	106.8268531	105.4235648	104.0457023	102.6926319	101.3637408	100.0584356	98.77614236	97.51630496	96.27838495
231114A00006	11/14/2024	4.67	11/14/2031	128.8399245	121.7853106	115.1783401	108.9880692	103.1858503	97.74515017	92.64138352	87.85176082	83.35514834
231114A00007	11/14/2024	4.89	11/14/2034	140.6214183	129.9697803	120.2582082	111.3975158	103.3074505	95.91575546	89.1573342	82.9735068	77.3113464
231114A00046	11/14/2023	4.62	11/14/2028	116.1746744	112.5895255	109.1366556	105.8104777	102.605671	99.51716658	96.54013424	93.66996981	90.90228341
231114A00072	11/14/2023	4.67	11/15/2027	111.5002323	109.0202813	106.6089587	104.2639815	101.9831562	99.76437465	97.60561058	95.50491548	93.46041539
231114A00074	11/14/2023	4.6	11/14/2028	116.1061292	112.5221502	109.0704179	105.7453465	102.5416163	99.45415938	96.47814665	93.60897484	90.84225503
231115A00039	11/15/2023	4.85	11/16/2026	106.7039953	105.2931444	103.9079933	102.5478983	101.2122369	99.90040669	98.61182454	97.34592605	96.10216463
231117A00001	11/17/2023	4.99	11/12/2025	101.7208197	101.3444856	100.9709497	100.6001806	100.2321477	99.86682047	99.50416911	99.14416415	98.78677656
231117A00002	11/17/2023	4.76	11/12/2026	106.5206777	105.1224334	103.7494803	102.4011895	101.0769523	99.77617967	98.49830153	97.2427657	96.0090374
231117A00003	11/17/2023	4.59	11/17/2028	116.1105319	112.5177882	109.0579154	105.7252885	102.5145512	99.42060136	96.43857774	93.56384701	90.79199205
231121A00015	11/21/2023	4.75	11/30/2026	106.7651543	105.3143407	103.8906054	102.4932542	101.1216162	99.77504264	98.45290628	97.15460029	95.87953755
231122A00029	11/22/2023	5.05	11/24/2025	101.9013585	101.49134	101.0846303	100.6811894	100.2809778	99.88395683	99.4900884	99.09933495	98.71165957
231127A00024	11/27/2023	4.78	11/27/2026	106.7649413	105.322602	103.9070445	102.5175857	101.153565	99.81434377	98.49930427	97.20784887	95.93939922
231127A00025	11/27/2023	4.68	11/29/2027	111.7171877	109.1944329	106.7425114	104.3590316	102.0416976	99.78830418	97.59673282	95.46494783	93.39099252
231127A00026	11/27/2023	4.61	11/27/2028	116.308721	112.6835775	109.1934846	105.8326825	102.5956886	99.47728272	96.47249272	93.57658158	90.78503493
231127A00065	11/27/2023	5.03	11/26/2025	101.9191866	101.5035774	101.091364	100.682505	100.2769594	99.87468707	99.47564843	99.07980455	98.68711712
231128A00002	11/28/2023	4.41	11/30/2028	115.9127601	112.2792608	108.7816435	105.414093	102.1710749	99.04732044	96.03781224	93.13777093	90.34264253
231128A00003	11/28/2023	4.41	11/30/2028	115.9127601	112.2792608	108.7816435	105.414093	102.1710749	99.04732044	96.03781224	93.13777093	90.34264253
231128A00009	11/28/2023	4.73	12/14/2026	106.93087	105.4406525	103.9789466	102.5450032	101.1380992	99.75753592	98.40263843	97.07275436	95.76725298
231129A00006	11/29/2023	4.25	11/29/2028	115.3444109	111.7236429	108.2382728	104.8825086	101.6508377	98.53801218	95.53903418	92.64914281	89.86380158
231130A00072	11/30/2023	4.83	12/1/2025	101.898873	101.4694566	101.0436599	100.6214373	100.2027439	99.78753563	99.37576912	98.96740168	98.56239134
231130A00073	11/30/2023	4.61	11/30/2026	106.5640142	105.1147111	103.6924602	102.2965679	100.926364	99.58120042	98.2604506	96.96350832	95.68978705
231130A00074	11/30/2023	4.45	11/30/2028	115.7920676	112.1671451	108.6776536	105.3178025	102.0820805	98.96524082	95.96228647	93.06845742	90.2792179
231201A00024	12/1/2023	4.36	12/1/2028	115.4914538	111.8689367	108.3819119	105.0245809	101.791425	98.67719035	95.67687387	92.78570969	89.99915672
231201A00026	12/1/2023	4.51	12/1/2026	106.4336199	104.9825787	103.5586723	102.161204	100.7895003	99.44291012	98.12080397	96.82257291	95.54762774
231201A00034	12/1/2023	4.62	3/2/2026	102.92123	102.2366571	101.5612063	100.894696	100.2369495	99.58779448	98.94706332	98.31459266	97.69022332
231205A00025	12/5/2023	4.61	12/15/2025	102.0057686	101.5369777	101.0725138	100.612317	100.1563283	99.70448997	99.25674541	98.81303889	98.37331575
231206A00012	12/6/2023	4.31	12/6/2028	115.37629	111.7418186	108.2438168	104.8764211	101.6340525	98.51140072	95.50340995	92.60526508	89.81237899

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
231206A00044	12/8/2023	4.71	12/8/2025	101.933657	101.4848098	101.0399274	100.5989573	100.161848	99.72854863	99.29900954	98.87318174	98.45101713
231206A00046	12/6/2023	4.39	12/6/2027	111.0952136	108.5607358	106.0979981	103.7045593	101.3780763	99.11629974	96.91706915	94.77830931	92.69802615
231206A00047	12/6/2023	4.31	12/6/2028	115.37629	111.7418186	108.2438168	104.8764211	101.6340525	98.51140072	95.50340995	92.60526508	89.81237899
231206A00070	12/6/2023	4.71	12/8/2025	101.933657	101.4848098	101.0399274	100.5989573	100.161848	99.72854863	99.29900954	98.87318173	98.45101713
231207A00010	12/7/2023	4.38	12/7/2027	111.08305	108.5459628	106.0807664	103.6850117	101.3563485	99.09252014	96.89135976	94.75078586	92.66879845
231207A00011	12/7/2023	4.28	12/7/2028	115.2832625	111.6476174	108.1486037	104.7803463	101.5372549	98.41400933	95.40554408	92.50703525	89.71388746
231207A00014	12/7/2023	4.7	12/8/2025	101.9291896	101.4803541	101.0354834	100.5945249	100.1574271	99.72413919	99.29461148	98.86879499	98.44664163
231207A00016	12/7/2023	4.47	12/7/2026	106.4550413	104.9875268	103.5477515	102.1349954	100.748563	99.38778229	98.05200354	96.74059864	95.45296002
231207A00034	12/7/2023	4.7	12/5/2025	101.8923893	101.4519405	101.0153072	100.58244	100.1532902	99.72780986	99.30595206	98.88767056	98.47291994
231207A00035	12/7/2023	4.47	12/7/2026	106.4550413	104.9875268	103.5477515	102.1349954	100.748563	99.38778229	98.05200354	96.74059864	95.45296002
231208A00021	3/15/2024	4.75	9/15/2025	100.9291388	100.7148543	100.5014938	100.2890512	100.0775207	99.8668962	99.65717185	99.44834181	99.24040031
231208A00022	3/15/2024	4.69	12/15/2025	102.0108132	101.5423944	101.0782941	100.6184526	100.1628112	99.71131242	99.26389974	98.82051765	98.38111167
231208A00023	3/15/2024	4.61	3/16/2026	103.090783	102.3667869	101.6529922	100.9491839	100.2551531	99.57069656	98.89561679	98.22972161	97.5728241
231211A00057	12/11/2023	4.58	12/11/2029	120.9118945	116.1050317	111.5224202	107.1523776	102.9838918	99.00657916	95.2106452	91.58684797	88.12646411
231212A00016	12/12/2023	4.59	12/7/2026	106.6297791	105.1609369	103.7198568	102.3058184	100.9181255	99.55610552	98.21910819	96.90650483	95.61768736
231212A00018	12/12/2023	4.5	12/6/2027	111.3667609	108.8288957	106.362845	103.9661655	101.6365119	99.37163257	97.16936518	95.02763255	92.94443872
231212A00067	12/12/2023	4.82	12/12/2025	102.0331942	101.5730208	101.1170143	100.665118	100.2172764	99.77343498	99.33354	98.89753886	98.46537984
231213A00049	12/13/2023	4.14	12/13/2028	114.8619076	111.2168797	107.7095218	104.3338853	101.084312	97.95541775	94.94207783	92.03941298	89.24277626
231214A00036	12/14/2023	4.19	12/14/2026	106.1340541	104.6499647	103.19428	101.766254	100.3651662	98.99032093	97.64104573	96.31669079	95.01662783
231214A00075	12/14/2023	4.49	12/15/2025	101.9175821	101.4494171	100.985569	100.525978	100.0705855	99.619334	99.17216694	98.72902889	98.28986538
231215A00004	12/15/2023	4.07	12/15/2028	114.6384294	110.9917383	107.4830231	104.1063123	100.855926	97.72646013	94.71277153	91.80996362	89.01337336
231215A00018	12/15/2023	4.19	12/15/2027	110.7094346	108.154954	105.6734981	103.2625573	100.9197239	98.64268744	96.42922982	94.27722135	92.18461644
231218A00052	12/18/2023	4.54	12/18/2025	101.9763611	101.4997348	101.0275796	100.5598328	100.0964324	99.63731807	99.18243023	98.73171055	98.28510174
231219A00016	12/19/2023	4.27	12/18/2026	106.302556	104.8062908	103.3388611	101.8995042	100.4874842	99.10209018	97.74263552	96.40845669	95.09891234
231219A00017	12/19/2023	4.26	1/15/2027	106.6425294	105.0671689	103.5232953	102.010037	100.5265541	99.07203708	97.6457053	96.24680581	94.87461208
231219A00018	12/19/2023	4.25	2/16/2027	107.0512334	105.3802152	103.7437354	102.1407889	100.5704095	99.0316681	97.52367081	96.04555734	94.5964994
231219A00019	12/19/2023	4.17	12/15/2027	110.6595611	108.1057086	105.6248669	103.2145268	100.872281	98.59581951	96.38292457	94.23146685	92.1394011
231219A00020	12/19/2023	4.16	2/1/2028	111.2108686	108.5168112	105.9028954	103.3662405	100.9040892	98.51380139	96.19284843	93.93880748	91.74935639
231219A00021	12/19/2023	4.14	3/15/2028	111.6882392	108.8631533	106.1250371	103.4706408	100.8968605	98.40073078	95.97941747	93.63021041	91.35051721
231219A00022	12/19/2023	4.13	4/14/2028	112.0163761	109.1022296	106.2799996	103.5462317	100.8976247	98.33102266	95.84340727	93.43189104	91.09371058
231219A00023	12/19/2023	4.12	6/15/2028	112.7102096	109.6112517	106.6153262	103.7184346	100.9167572	98.20664351	95.58460407	93.04730217	90.59154634
231219A00025	12/19/2023	4.06	12/15/2028	114.6032928	110.9572159	107.4490976	104.072967	100.823145	97.69422792	94.6810732	91.77878478	88.98270012
231219A00060	12/19/2023	4.22	6/21/2027	108.5880948	106.5521281	104.5652442	102.6259522	100.7328165	98.88445499	97.0795365	95.3167784	93.59494458

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
231220A00028	12/20/2023	4.13	12/20/2027	110.6189496	108.0518201	105.5584677	103.1363434	100.783002	98.49609773	96.27337936	94.1126856	92.01194107
231220A00030	12/20/2023	4.48	12/22/2025	101.9945197	101.5067704	101.0236992	100.5452388	100.0713233	99.60188802	99.13686943	98.67620528	98.21983445
231220A00031	12/20/2023	4.23	12/21/2026	106.2805985	104.7763416	103.3012248	101.8544737	100.435341	99.04310483	97.67706833	96.33655807	95.02092326
231220A00032	12/20/2023	4.57	12/19/2025	102.0025018	101.5230353	101.0480918	100.5776074	100.1115193	99.64976592	99.19228681	98.73902261	98.2899151
231221A00003	12/21/2023	4.39	12/22/2025	101.9508191	101.4631932	100.9802445	100.5019058	100.0281112	99.55879589	99.09389652	98.63335079	98.17709758
231221A00006	12/21/2023	4.14	12/21/2026	106.1460464	104.642837	103.1687493	101.7230096	100.3048708	98.91361173	97.54853593	96.20897038	94.89426473
231221A00008	12/21/2023	3.99	12/21/2028	114.4222612	110.7626702	107.2421981	103.8547955	100.5947103	97.45647076	94.43487066	91.52495462	88.72200469
231221A00014	12/21/2023	4.14	6/21/2027	108.4280189	106.3936887	104.4084094	102.4706908	100.5790984	98.73225091	96.92881787	95.16751748	93.4471144
231221A00022	12/21/2023	4.01	12/21/2028	113.3094529	109.9431061	106.7030719	103.583834	100.5801508	97.68703984	94.89976355	92.21381548	89.62490771
231221A00039	12/21/2023	3.99	12/21/2028	114.4222612	110.7626702	107.2421981	103.8547955	100.5947103	97.45647076	94.43487066	91.52495462	88.72200469
231221A00103	12/21/2023	4.3	12/30/2025	102.031469	101.5210287	101.0156977	100.5153994	100.0200589	99.52960279	99.04395898	98.56305691	98.08682734
231221A00104	12/21/2023	4.3	12/30/2025	102.031469	101.5210287	101.0156977	100.5153994	100.0200589	99.52960279	99.04395898	98.56305691	98.08682734
231222A00004	12/22/2023	4	12/22/2028	114.4684134	110.805231	107.281399	103.8908537	100.6278294	97.48684159	94.46267233	91.55035513	88.74516167
231222A00039	12/22/2023	4.44	12/22/2025	101.9750972	101.4874027	101.004386	100.5259797	100.0521179	99.58273597	99.11777036	98.65715884	98.20084029
231226A00016	12/26/2023	3.92	12/26/2028	114.1240241	110.5304142	107.0746851	103.750736	100.5527724	97.47528947	94.51305531	91.66109591	88.91468083
231226A00024	12/26/2023	4.03	12/26/2028	114.6181361	110.9411884	107.4045023	104.0019566	100.7277317	97.57629317	94.54237586	91.62096937	88.80730428
231226A00027	12/26/2023	4.22	12/28/2026	106.3529838	104.8291038	103.3350971	101.8701608	100.43352	99.0244272	97.64216053	96.28602289	94.95534082
231226A00043	12/26/2023	4.46	12/26/2025	102.0312107	101.5322794	101.0382359	100.5490086	100.0645272	99.5847227	99.10952762	98.63887564	98.17270174
231226A00095	12/26/2023	4.22	12/28/2026	106.3529838	104.8291038	103.3350971	101.8701608	100.43352	99.0244272	97.64216053	96.28602289	94.95534082
231227A00005	12/27/2023	4.17	12/28/2026	106.2772606	104.7539774	103.2605571	101.7961968	100.3601222	98.95158596	97.56986645	96.21426682	94.88411386
231227A00014	12/27/2023	4.29	12/26/2025	101.9811083	101.4819059	100.9875999	100.4981183	100.0133905	99.53334754	99.05792155	98.58704604	98.1206558
231227A00023	12/27/2023	3.98	12/27/2028	114.4517125	110.7749165	107.2385087	103.8363571	100.5626322	97.41179029	94.37855774	91.45791621	88.64508895
231227A00027	12/27/2023	4.42	12/26/2025	102.0113446	101.5124706	101.018484	100.5293132	100.0448879	99.56513911	99.08999934	98.6194023	98.15328296
231228A00023	12/28/2023	4.4	12/26/2025	102.0014116	101.5025662	101.0086081	100.5194655	100.0350682	99.55534731	99.08023521	98.60966563	98.14357356
231228A00024	12/28/2023	4.15	12/28/2026	106.2469714	104.7239269	103.230741	101.7666112	100.3307631	98.92244947	97.54094882	96.18556439	94.85562308
231228A00025	12/28/2023	4.05	12/28/2027	110.5111797	107.9233531	105.410525	102.9700822	100.5995189	98.29643194	96.05851581	93.88355808	91.76943497
231215A00026	1/17/2025	3.71	1/15/2027	105.7820804	104.2137044	102.6766916	101.1701736	99.69331404	98.24530638	96.82537312	95.43276422	94.06675597
231228A00026	12/28/2023	3.96	12/28/2028	114.391507	110.7129918	107.1750444	103.7715202	100.4965777	97.34466241	94.3104903	91.38903357	88.57550653
231229A00017	12/29/2023	4.42	12/29/2025	102.0458117	101.5385267	101.0362882	100.5390211	100.0466519	99.55910855	99.07632018	98.5982175	98.12473249
231229A00065	12/29/2023	4.6	7/29/2025	100.3348849	100.2542536	100.1737552	100.0933894	100.0131557	99.93305392	99.85308371	99.77324476	99.69353674
231229A00068	12/29/2023	4.42	12/29/2025	102.0458117	101.5385267	101.0362882	100.5390211	100.0466519	99.55910855	99.07632018	98.5982175	98.12473249
231229A00070	12/29/2023	4.42	12/29/2025	102.0458117	101.5385267	101.0362882	100.5390211	100.0466519	99.55910855	99.07632018	98.5982175	98.12473249
231229A00071	12/29/2023	4.42	12/29/2025	102.0458117	101.5385267	101.0362882	100.5390211	100.0466519	99.55910855	99.07632018	98.5982175	98.12473249

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240102A00029	1/2/2024	4.66	7/2/2025	100.0283804	100.0228155	100.0172555	100.0117005	100.0061506	100.0006056	99.99506559	99.98953056	99.98400049
240102A00055	1/2/2024	4.23	1/4/2027	106.4562929	104.9125009	103.3992415	101.9156845	100.4610294	99.03450388	97.63536257	96.26288608	94.91637968
240103A00003	1/3/2024	4.71	7/3/2025	100.0403788	100.0320312	100.0236913	100.0153592	100.0070348	99.99871814	99.99040916	99.98210786	99.97381424
240103A00004	1/3/2024	4.48	1/5/2026	102.1586631	101.6316937	101.1101703	100.5940084	100.0831257	99.57744132	99.07687607	98.58135238	98.09079425
240103A00005	1/3/2024	4.28	1/4/2027	106.5329881	104.9885844	103.4747243	101.9905771	100.5353419	99.10824615	97.70854433	96.33551673	94.98846838
240103A00010	1/3/2024	4.84	1/18/2039	151.0563434	135.6367644	122.0777422	110.1392014	99.61346451	90.32071804	82.10513287	74.8315432	68.38260066
240103A00011	1/3/2024	4.84	1/18/2039	151.0563434	135.6367644	122.0777422	110.1392014	99.61346451	90.32071804	82.10513287	74.8315432	68.38260066
240103A00018	1/3/2024	4.28	1/4/2027	106.5329881	104.9885844	103.4747243	101.9905771	100.5353419	99.10824615	97.70854433	96.33551673	94.98846838
240103A00023	3/29/2024	4.45	7/29/2025	100.3228003	100.2421791	100.1616907	100.0813349	100.0011112	99.92101938	99.84105913	99.76123012	99.68153203
240103A00025	1/3/2024	4.48	1/2/2026	102.1231174	101.6045398	101.0912325	100.5831155	100.0801102	99.58213969	99.08912869	98.6010033	98.1176911
240103A00026	1/3/2024	4.28	1/4/2027	106.5329881	104.9885844	103.4747243	101.9905771	100.5353419	99.10824615	97.70854433	96.33551673	94.98846838
240103A00032	3/29/2024	4.45	7/29/2025	100.3228003	100.2421791	100.1616907	100.0813349	100.0011112	99.92101938	99.84105913	99.76123012	99.68153203
240103A00033	3/29/2024	4.45	7/29/2025	100.3228003	100.2421791	100.1616907	100.0813349	100.0011112	99.92101938	99.84105913	99.76123012	99.68153203
240103A00034	3/29/2024	4.45	7/29/2025	100.3228003	100.2421791	100.1616907	100.0813349	100.0011112	99.92101938	99.84105913	99.76123012	99.68153203
240103A00035	3/29/2024	4.45	7/29/2025	100.3228003	100.2421791	100.1616907	100.0813349	100.0011112	99.92101938	99.84105913	99.76123012	99.68153203
240103A00039	6/28/2024	4.11	10/29/2025	101.2451192	100.9085202	100.5741591	100.2420136	99.91206186	99.5842821	99.25865296	98.93515333	98.61376237
240103A00042	6/28/2024	4.11	10/29/2025	101.2451192	100.9085202	100.5741591	100.2420136	99.91206186	99.5842821	99.25865296	98.93515333	98.61376237
240103A00043	6/28/2024	4.11	10/29/2025	101.2451192	100.9085202	100.5741591	100.2420136	99.91206186	99.5842821	99.25865296	98.93515333	98.61376237
240103A00044	6/28/2024	4.11	10/29/2025	101.2451192	100.9085202	100.5741591	100.2420136	99.91206186	99.5842821	99.25865296	98.93515333	98.61376237
240103A00045	6/28/2024	4.11	10/29/2025	101.2451192	100.9085202	100.5741591	100.2420136	99.91206186	99.5842821	99.25865296	98.93515333	98.61376237
240103A00047	6/28/2024	4.05	1/29/2026	102.1888957	101.5954596	101.0089187	100.4291533	99.85604629	99.28948349	98.72935321	98.1755463	97.62795607
240103A00049	6/28/2024	4.05	1/29/2026	102.1888957	101.5954596	101.0089187	100.4291533	99.85604629	99.28948349	98.72935321	98.1755463	97.62795607
240103A00050	6/28/2024	4.05	1/29/2026	102.1888957	101.5954596	101.0089187	100.4291533	99.85604629	99.28948349	98.72935321	98.1755463	97.62795607
240103A00051	6/28/2024	4.05	1/29/2026	102.1888957	101.5954596	101.0089187	100.4291533	99.85604629	99.28948349	98.72935321	98.1755463	97.62795607
240103A00052	6/28/2024	4.05	1/29/2026	102.1888957	101.5954596	101.0089187	100.4291533	99.85604629	99.28948349	98.72935321	98.1755463	97.62795607
240103A00054	6/28/2024	3.94	6/29/2026	103.7785215	102.7599159	101.7613332	100.782187	99.82191338	98.87997014	97.95583567	97.049008	96.15900386
240103A00056	6/28/2024	3.94	6/29/2026	103.7785215	102.7599159	101.7613332	100.782187	99.82191338	98.87997014	97.95583567	97.049008	96.15900386
240103A00057	6/28/2024	3.94	6/29/2026	103.7785215	102.7599159	101.7613332	100.782187	99.82191338	98.87997014	97.95583567	97.049008	96.15900386
240103A00058	6/28/2024	3.94	6/29/2026	103.7785215	102.7599159	101.7613332	100.782187	99.82191338	98.87997014	97.95583567	97.049008	96.15900386
240103A00059	6/28/2024	3.94	6/29/2026	103.7785215	102.7599159	101.7613332	100.782187	99.82191338	98.87997014	97.95583567	97.049008	96.15900386
240104A00068	1/4/2024	4.76	7/3/2025	100.0408466	100.0324987	100.0241585	100.0158261	100.0075013	99.99918429	99.99087497	99.98257333	99.97427936
240104A00070	12/13/2024	3.83	3/5/2027	106.5658165	104.8490177	103.1684174	101.5229351	99.91153336	98.33321611	96.78702604	95.27204293	93.78738178
240105A00017	1/5/2024	4.29	1/5/2027	106.5611565	105.0137958	103.4970662	102.0101333	100.5521926	99.12246816	97.72021123	96.34469905	94.99523374

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240105A00028	1/5/2024	4.76	7/7/2025	100.088064	100.0685875	100.0491312	100.0296952	100.0102793	99.99088352	99.97150785	99.95215223	99.93281663
240108A00020	1/8/2024	4.68	7/8/2025	100.0980242	100.0757675	100.0535344	100.0313251	100.0091394	99.98697731	99.96483879	99.9427238	99.9206323
240108A00022	1/8/2024	4.46	1/8/2026	102.1835537	101.64822	101.118509	100.5943321	100.0756028	99.56223637	99.05414966	98.55126138	98.05349187
240108A00023	1/8/2024	4.27	1/8/2027	106.5687459	105.0131253	103.4883886	101.9936903	100.5282154	99.09117802	97.68181999	96.2994096	94.94324046
240108A00037	1/8/2024	4.69	7/8/2025	100.0982548	100.0759978	100.0537646	100.031555	100.0093692	99.9872069	99.9650682	99.94295302	99.92086133
240108A00038	1/8/2024	4.13	1/8/2029	115.1193922	111.397286	107.8182688	104.3760432	101.064625	97.87832617	94.81173804	91.85971604	89.01736527
240108A00040	1/8/2024	4.13	1/8/2029	115.1193922	111.397286	107.8182688	104.3760432	101.064625	97.87832617	94.81173804	91.85971604	89.01736527
240108A00041	1/9/2024	4.13	1/9/2029	115.1307386	111.4056335	107.8238146	104.3789719	101.0651097	97.87652889	94.80781072	91.85380111	89.00959631
240109A00006	1/9/2024	4.71	7/9/2025	100.1103832	100.0853444	100.0603329	100.0353489	100.0103921	99.98546249	99.96056014	99.93568494	99.91083683
240109A00025	1/9/2024	4.47	1/9/2026	102.2007008	101.6625508	101.1300829	100.6032073	100.0818358	99.56588251	99.05526293	98.54989452	98.04969636
240109A00031	1/9/2024	4.73	7/9/2025	100.110899	100.0858598	100.0608479	100.0358634	100.0109062	99.98597622	99.96107345	99.93619783	99.91134931
240109A00042	1/9/2024	3.99	1/9/2029	114.8954853	111.1677696	107.5836427	104.1367742	100.8211493	97.63105098	94.56104389	91.60595839	88.76087616
240109A00048	1/9/2024	4.12	1/9/2029	115.0949052	111.3704384	107.7892396	104.3449994	101.0317229	97.84371141	94.77554687	91.82207576	88.97839485
240110A00001	1/10/2024	4.42	1/9/2026	102.1739276	101.6358599	101.1034737	100.576679	100.055388	99.53951451	99.02897417	98.5236844	98.02356431
240110A00010	1/10/2024	4.42	1/12/2026	102.2089714	101.6625027	101.1218944	100.5870522	100.0578841	99.53429985	99.01621118	98.50353165	97.99617665
240110A00021	1/10/2024	4.13	1/10/2028	110.8685311	108.2401681	105.688753	103.2115721	100.8060255	98.46962078	96.1999687	93.99477756	91.85184885
240110A00029	1/10/2024	4.5	7/10/2025	100.1175381	100.0897071	100.0619076	100.0341393	100.0064024	99.97869661	99.95102199	99.92337846	99.89576595
240111A00016	1/11/2024	4.63	7/11/2025	100.1312168	100.1006174	100.0700532	100.0395241	100.00903	99.97857092	99.94814674	99.9177574	99.88740285
240111A00021	1/11/2024	4.47	7/11/2025	100.1278402	100.0972277	100.0666505	100.0361087	100.0056021	99.97513061	99.94469425	99.91429292	99.88392654
240111A00025	1/11/2024	4.19	1/11/2027	106.4828034	104.9196743	103.3876697	101.8859335	100.4136406	98.96999546	97.55423065	96.16560581	94.80340633
240111A00031	1/11/2024	4.19	1/11/2027	106.4828034	104.9196743	103.3876697	101.8859335	100.4136406	98.96999546	97.55423065	96.16560581	94.80340633
240111A00046	12/13/2024	3.68	3/19/2027	106.4654254	104.7113536	102.994882	101.3148663	99.67020891	98.05985701	96.48279969	94.93806607	93.42472323
240112A00022	1/12/2024	4.24	1/12/2026	102.1110911	101.5649269	101.0246209	100.4900787	99.96120822	99.4379194	98.92012394	98.40773544	97.90066932
240112A00033	1/12/2024	4.46	7/11/2025	100.1259014	100.0953063	100.0647464	100.0342216	100.0037318	99.97327703	99.94285714	99.9124721	99.88212183
240112A00034	1/12/2024	4.46	7/11/2025	100.1259014	100.0953063	100.0647464	100.0342216	100.0037318	99.97327703	99.94285714	99.9124721	99.88212183
240112A00036	1/12/2024	4.07	1/12/2027	106.3086222	104.7441667	103.2108955	101.7079494	100.2345005	98.78975036	97.3729292	95.9832942	94.62012848
240112A00040	1/12/2024	4.24	1/12/2026	102.1110911	101.5649269	101.0246209	100.4900787	99.96120822	99.4379194	98.92012394	98.40773544	97.90066932
240112A00044	1/12/2024	4.24	1/12/2026	102.1110911	101.5649269	101.0246209	100.4900787	99.96120822	99.4379194	98.92012394	98.40773544	97.90066932
240112A00047	1/12/2024	4.46	7/14/2025	100.1588499	100.1199138	100.0810256	100.0421854	100.0033929	99.96464819	99.92595108	99.88730148	99.84869931
240112A00050	1/12/2024	4.3	7/11/2025	100.1225245	100.0919163	100.0613435	100.030806	100.0003037	99.9698365	99.93940444	99.9090074	99.87864531
240112A00052	1/12/2024	4.07	1/12/2027	106.3086222	104.7441667	103.2108955	101.7079494	100.2345005	98.78975036	97.3729292	95.9832942	94.62012848
240116A00006	1/16/2024	4.5	7/16/2025	100.1826204	100.1381227	100.0936824	100.0492992	100.0049732	99.96070406	99.91649179	99.87233626	99.82823734
240116A00083	1/16/2024	4.53	7/16/2025	100.1839692	100.1394704	100.095029	100.0506447	100.0063176	99.96204735	99.91783399	99.87367735	99.82957734

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240117A00021	1/17/2024	4.06	1/17/2029	115.2375845	111.4813067	107.8703355	104.3982344	101.0588897	97.84649207	94.75551991	91.78072303	88.91710781
240117A00023	1/17/2024	4.13	1/19/2027	106.60113	105.0132759	103.4573119	101.932349	100.4375306	98.97203165	97.53505666	96.12583859	94.74363751
240117A00054	1/17/2024	4.22	1/18/2028	111.1970739	108.5422613	105.9656047	103.4643287	101.0357751	98.67739711	96.38675362	94.16150441	91.99940507
240118A00020	1/18/2024	4.25	2/18/2027	107.0788412	105.4015252	103.7589564	102.1501203	100.5740421	99.02978447	97.51644581	96.03315848	94.57908722
240119A00003	1/19/2024	4.68	7/21/2025	100.2486425	100.1902383	100.1319173	100.0736795	100.0155246	99.95745244	99.89946288	99.84155572	99.78373078
240119A00007	1/19/2024	4.23	1/19/2029	115.6053213	111.8437183	108.2275689	104.7504299	101.4061814	98.18900846	95.09338389	92.11405245	89.24601575
240119A00024	1/19/2024	4.49	1/20/2026	102.3420324	101.7730086	101.2103302	100.6538913	100.1035882	99.55931969	99.0209866	98.488492	97.96174105
240119A00028	1/19/2024	4.48	1/13/2026	102.2534455	101.7040729	101.1606213	100.6229952	100.0911011	99.56484724	99.04414413	98.52890403	98.01904104
240119A00029	1/19/2024	4.3	1/13/2027	106.6793889	105.1092023	103.5703379	102.0619312	100.5831494	99.13318938	97.7112769	96.31666485	94.94863229
240119A00044	1/23/2024	4.23	1/23/2029	115.6518199	111.878156	108.2507445	104.7630915	101.4090293	98.18269867	95.07853112	92.09123281	89.21576938
240122A00002	1/22/2024	4.66	7/22/2025	100.2590005	100.1978177	100.1367239	100.0757188	100.0148023	99.95397418	99.89323422	99.83258223	99.77201803
240122A00005	1/22/2024	4.45	1/22/2026	102.3429201	101.7683557	101.2002588	100.6385204	100.083034	99.53369532	98.99040262	98.45305622	97.92155871
240122A00006	1/22/2024	4.25	1/22/2027	106.7159352	105.1208111	103.5577847	102.0259577	100.524465	99.05247317	97.60917887	96.19380762	94.80561244
240122A00016	1/22/2024	4.66	7/22/2025	100.2590005	100.1978177	100.1367239	100.0757188	100.0148023	99.95397418	99.89323422	99.83258223	99.77201803
240122A00050	1/22/2024	4.25	1/22/2027	106.7159352	105.1208111	103.5577847	102.0259577	100.524465	99.05247317	97.60917887	96.19380762	94.80561244
240123A00037	1/23/2024	4.2	1/17/2029	115.4739029	111.7202654	108.1116274	104.6415734	101.304009	98.09314326	95.00347132	92.02975889	89.16702716
240123A00057	1/23/2024	4.48	1/23/2026	102.371911	101.7944827	101.2235839	100.6591041	100.1009353	99.54897178	99.00311038	98.46325008	97.92929213
240125A00007	1/25/2024	4.27	1/25/2027	106.7859476	105.1820271	103.610474	102.0703785	100.5608644	99.08108761	97.63023495	96.20752248	94.81219425
240125A00040	1/25/2024	4.24	12/15/2026	106.2203635	104.7328919	103.2739382	101.8427524	100.4386098	99.06081086	97.70867942	96.3815621	95.07882725
240125A00061	1/25/2024	4.64	7/25/2025	100.2922018	100.2226825	100.1532701	100.0839642	100.0147647	99.94567137	99.87668387	99.80780201	99.73902552
240125A00068	1/25/2024	4.11	1/25/2028	111.1863127	108.5081343	105.9092916	103.3869475	100.9383855	98.56100413	96.2523108	94.00991671	91.83153166
240125A00069	1/25/2024	4.11	1/25/2028	111.1863127	108.5081343	105.9092916	103.3869475	100.9383855	98.56100413	96.2523108	94.00991671	91.83153166
240126A00031	1/26/2024	4.31	1/26/2026	102.3486957	101.7625296	101.1830897	100.6102604	100.043929	99.48398524	98.93032126	98.38283171	97.84141358
240126A00032	1/26/2024	4.31	1/26/2026	102.3486957	101.7625296	101.1830897	100.6102604	100.043929	99.48398524	98.93032126	98.38283171	97.84141358
240129A00049	1/29/2024	4.48	7/29/2025	100.329492	100.2488215	100.1682844	100.0878804	100.0076091	99.92747027	99.84746351	99.76758851	99.68784496
240130A00034	1/30/2024	4.43	10/30/2025	101.3887372	101.0487819	100.7111063	100.3756874	100.0425026	99.71152974	99.38274682	99.05613216	98.73166434
240130A00044	1/30/2024	4.14	1/30/2029	115.4054236	111.6165628	107.9751881	104.4747218	101.1089186	97.87184677	94.75787062	91.76163366	88.8780432
240130A00047	1/30/2024	4.01	1/30/2029	115.2030479	111.4108657	107.7665018	104.2633562	100.8951631	97.65597143	94.54012751	91.54225802	88.65725451
240130A00057	1/30/2024	4.15	1/29/2027	106.7591419	105.1425461	103.5587316	102.0067705	100.4857694	98.99486854	97.53323927	96.10008328	94.6946309
240130A00059	1/30/2024	4.33	1/30/2026	102.4068392	101.8093836	101.2189046	100.6352805	100.0583923	99.48812387	98.92436165	98.36699471	97.81591462
240130A00068	1/30/2024	4.17	1/30/2029	115.5146794	111.7238418	108.0805475	104.5782164	101.2106014	97.97176887	94.85608114	91.85818003	88.97297111
240130A00070	1/30/2024	4.33	1/30/2026	102.4068392	101.8093836	101.2189046	100.6352805	100.0583923	99.48812387	98.92436165	98.36699471	97.81591462
240130A00089	1/30/2024	4.17	1/30/2029	115.5146794	111.7238418	108.0805475	104.5782164	101.2106014	97.97176887	94.85608114	91.85818003	88.97297111

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240131A00013	1/31/2024	4.13	2/1/2027	106.6508388	105.0285753	103.4392814	101.8820202	100.3558903	98.8600236	97.39358409	95.95576628	94.54579379
240131A00014	1/31/2024	4.04	1/31/2029	115.0523324	111.2670596	107.6292832	104.1324196	100.7702184	97.53674303	94.42635356	91.43368967	88.55365519
240131A00015	1/31/2024	4.02	1/31/2029	110.085399	107.5382578	105.0758276	102.6946142	100.3912928	98.16269831	96.00581679	93.91777699	91.89584268
240131A00022	3/1/2024	4.13	3/1/2027	107.0268035	105.3168814	103.6428311	102.0035879	100.3981298	98.82547452	97.28467828	95.77483344	94.29506688
240131A00033	1/31/2024	4.18	1/30/2026	102.3177675	101.7206126	101.1304318	100.5471033	99.97050836	99.40053073	98.83705694	98.27997608	97.72917976
240131A00034	1/31/2024	4	1/29/2027	106.5185005	104.9039057	103.3220565	101.7720257	100.2529214	98.76388419	97.30408664	95.87273119	94.469049
240131A00036	1/31/2024	4.51	7/31/2025	100.3500418	100.26385	100.177805	100.0919063	100.0061537	99.92054685	99.83508529	99.7497687	99.66459674
240131A00039	1/31/2024	4.22	7/31/2026	104.4600765	103.3484957	102.2606283	101.1957208	100.1530512	99.1319275	98.13168627	97.15169099	96.19133082
240131A00059	1/31/2024	4.57	7/31/2025	100.3552065	100.2690103	100.1829608	100.0970577	100.0113007	99.92568944	99.84022348	99.7549025	99.66972615
240131A00076	1/31/2024	4.35	1/30/2026	102.377651	101.78081	101.1909318	100.6078949	100.0315809	99.46187394	98.89866078	98.34183084	97.79127602
240131A00080	1/31/2024	4.16	1/29/2027	106.6606956	105.0468501	103.4657018	101.9163258	100.3978319	98.90936301	97.45009321	96.01922671	94.61599627
240201A00003	2/1/2024	4.17	2/2/2026	102.3456412	101.7400921	101.1417143	100.5503808	99.96596771	99.38835398	98.81742135	98.2530543	97.69513997
240201A00023	2/1/2024	4.5	8/1/2025	100.3606051	100.271639	100.1828316	100.0941825	100.0056913	99.91735743	99.82918062	99.7411604	99.65329636
240201A00027	2/1/2024	3.83	2/1/2029	114.5691775	110.7825862	107.1438942	103.6464868	100.2840847	97.05072504	93.94074284	90.94875484	88.06964352
240201A00029	2/1/2024	4.52	8/1/2025	100.3623822	100.2734146	100.1846057	100.095955	100.0074623	99.91912692	99.83094859	99.74292685	99.65506131
240201A00038	2/1/2024	4.3	2/2/2026	102.3822425	101.7770935	101.1791035	100.5881459	100.0040971	99.42683644	98.856246	98.29221056	97.73461757
240201A00040	2/1/2024	4.08	2/1/2030	119.1877504	114.2727293	109.5937463	105.1381557	100.8940593	96.85025794	92.99620656	89.32197228	85.81819542
240201A00042	2/1/2024	4.24	2/1/2033	129.6546847	121.3062265	113.5761604	106.4150087	99.77751025	93.62224047	87.91126679	82.60983697	77.68609672
240201A00043	2/1/2024	4.27	2/1/2034	132.6951563	123.2003013	114.4879423	106.4887424	99.13987158	92.38436483	86.17054525	80.45150738	75.18465332
240201A00052	2/1/2024	4.5	8/1/2025	100.3606051	100.271639	100.1828316	100.0941825	100.0056913	99.91735743	99.82918062	99.7411604	99.65329636
240201A00056	2/1/2024	4.3	2/2/2026	102.3822425	101.7770935	101.1791035	100.5881459	100.0040971	99.42683644	98.856246	98.29221056	97.73461757
240201A00061	2/1/2024	4.5	8/1/2025	100.3606051	100.271639	100.1828316	100.0941825	100.0056913	99.91735743	99.82918062	99.7411604	99.65329636
240201A00064	2/1/2024	4.51	8/1/2025	100.3614936	100.2725268	100.1837187	100.0950688	100.0065768	99.91824218	99.8300646	99.74204363	99.65417883
240201A00065	2/1/2024	4.33	2/2/2026	102.4003022	101.7950915	101.1970404	100.6060222	100.0219134	99.44459312	98.87394358	98.30984953	97.75219842
240201A00072	8/1/2024	4.1	7/31/2025	100.3699499	100.2805322	100.1912668	100.1021532	100.0131912	99.92438036	99.83572027	99.74721057	99.65885091
240202A00014	2/2/2024	4.51	8/1/2025	100.3662112	100.2771919	100.1883318	100.0996307	100.011088	99.92270331	99.83447627	99.74640642	99.65849334
240202A00016	2/2/2024	4.25	2/2/2027	106.8580361	105.2310204	103.6371044	102.0753462	100.5448392	99.04471065	97.57412014	96.1322579	94.71834353
240202A00017	2/2/2024	4.23	8/3/2026	104.587325	103.4654666	102.3677395	101.2933701	100.2416179	99.21177332	98.20315617	97.21511422	96.24702174
240202A00029	2/2/2024	4.15	2/2/2029	115.4781137	111.6789511	108.0279427	104.5184681	101.1442425	97.89929717	94.77796194	91.7748482	88.88483325
240202A00030	2/2/2024	4.32	2/3/2031	124.0524539	117.9603772	112.2146582	106.7936549	101.6771932	96.84645996	92.28390376	87.97314344	83.89888408
240206A00017	2/6/2024	4.33	8/6/2027	109.3943883	107.2223604	105.1049808	103.0404978	101.0272298	99.0635617	97.14794197	95.27887932	93.45494001
240206A00026	2/6/2024	4.59	8/6/2025	100.4324235	100.3295046	100.226807	100.12433	100.0220729	99.92003487	99.81821523	99.71661324	99.61522815
240207A00006	2/7/2024	4.06	2/7/2029	115.4837258	111.6619392	107.9898457	104.4607265	101.068205	97.80622741	94.66904372	91.65119105	88.74747729

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
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240207A00022	2/7/2024	4.25	2/7/2028	111.5248347	108.8088397	106.1740049	103.6173971	101.1362094	98.72775541	96.38946268	94.11886719	91.91360795
240207A00025	2/8/2024	4.2	1/8/2029	115.3700306	111.6434633	108.0601121	104.6136749	101.2981633	98.10788479	95.03742671	92.08164058	89.23562776
240207A00039	2/7/2024	4.55	8/7/2025	100.4400228	100.3343272	100.2288658	100.1236379	100.0186425	99.91387887	99.80934621	99.70504373	99.6009706
240207A00040	2/7/2024	4.55	8/7/2025	100.4400228	100.3343272	100.2288658	100.1236379	100.0186425	99.91387887	99.80934621	99.70504373	99.6009706
240208A00053	2/8/2024	4.58	2/9/2026	102.6364816	102.0111104	101.3933785	100.7831463	100.1802774	99.58463906	98.99610143	98.41453786	97.83982469
240208A00055	2/8/2024	4.37	2/8/2027	107.1365576	105.4890494	103.8752824	102.2942872	100.7451309	99.22691618	97.73877908	96.27988768	94.84944054
240209A00007	2/9/2024	4.5	12/9/2025	101.8830508	101.4311988	100.9833688	100.539507	100.0995606	99.66347787	99.23120786	98.80270055	98.37790679
240209A00019	2/9/2024	4.39	2/9/2027	107.1833687	105.5324361	103.9153527	102.3311441	100.7788731	99.25763817	97.76657151	96.30483745	94.87163098
240209A00020	2/9/2024	4.58	2/9/2026	102.6364816	102.0111104	101.3933785	100.7831463	100.1802774	99.58463906	98.99610143	98.41453786	97.83982469
240212A00029	2/12/2024	4.58	2/12/2026	102.6732007	102.0394005	101.4134458	100.7951912	100.1844949	99.58121877	98.98522785	98.39639048	97.81457817
240213A00022	2/13/2024	4.6	8/13/2026	105.0558351	103.904404	102.7783226	101.676759	100.5989171	99.54403526	98.51138399	97.50026452	96.51000712
240214A00001	2/14/2024	4.79	11/10/2025	101.6212502	101.2506731	100.8828106	100.5176326	100.1551099	99.79521336	99.43791445	99.08318499	98.73099721
240214A00007	2/14/2024	4.7	2/17/2026	102.8116251	102.163486	101.5235417	100.8916371	100.2676212	99.65134666	99.04266971	98.44145023	97.84755152
240214A00019	2/15/2024	4.41	1/26/2029	116.3402218	112.5457175	108.8984065	105.3917435	102.0195132	98.77581137	95.65502751	92.65182822	89.76114198
240215A00013	2/15/2024	4.82	8/15/2025	100.5619129	100.4339923	100.3064136	100.1791753	100.0522762	99.92571467	99.79948947	99.67359915	99.54804235
240215A00026	2/15/2024	4.48	2/10/2027	107.3448591	105.6895299	104.0681753	102.4798157	100.9235092	99.39834947	97.90346443	96.43801423	95.00118993
240215A00033	2/15/2024	4.35	2/16/2027	107.3352638	105.6597842	104.0189613	102.4117856	100.8372869	99.29453241	97.78262459	96.30069973	94.84792626
240215A00046	4/1/2024	4.49	4/1/2027	108.0476508	106.2435724	104.4787099	102.7518554	101.0618509	99.40758597	97.78799521	96.20205576	94.64878528
240216A00012	2/16/2024	4.53	8/16/2027	109.9526773	107.7468912	105.597061	103.5013741	101.4580913	99.46554332	97.5221271	95.6263029	93.77659105
240220A00031	2/20/2024	4.68	2/20/2026	102.8363017	102.17976	101.5316228	100.8917292	100.2599223	99.6360494	99.01996138	98.41151296	97.81056243
240221A00014	2/21/2024	4.53	2/22/2027	107.6016722	105.9077181	104.2490037	102.6244941	101.0331952	99.47415105	97.94644279	96.44918624	94.98153048
240221A00015	2/21/2024	4.48	2/22/2028	112.3363863	109.5649209	106.877207	104.270177	101.7408981	99.28656518	96.90449428	94.59211629	92.34697123
240223A00007	2/23/2024	4.81	8/22/2025	100.653892	100.5063811	100.3593162	100.2126952	100.0665161	99.92077695	99.77547561	99.63061011	99.48617845
240226A00010	2/26/2024	4.53	7/15/2027	109.5284703	107.4158352	105.3553556	103.3454002	101.3844008	99.47084942	97.60329559	95.78034358	94.00064998
240226A00025	2/26/2024	4.43	2/26/2027	107.6129476	105.9046414	104.2320688	102.594173	100.9899396	99.41839342	97.87859733	96.36964993	94.89068396
240227A00021	2/27/2024	4.97	8/27/2025	100.7338883	100.5724791	100.4115931	100.2512277	100.0913805	99.93204896	99.77323053	99.61492275	99.45712316
240229A00026	2/29/2024	4.74	2/27/2026	102.9641863	102.2877578	101.6202311	100.9614312	100.3111879	99.66933494	99.03571068	98.41015746	97.79252169
240229A00027	2/29/2024	4.54	2/26/2027	107.6768275	105.9700585	104.2989558	102.6624658	101.0595764	99.48931524	97.95074744	96.44297388	94.96512944
240301A00023	3/1/2024	4.17	3/1/2029	116.166313	112.2638833	108.516378	104.9167428	101.4582887	98.13467104	94.9398689	91.86816682	88.91413713
240301A00024	3/1/2024	4.17	3/1/2029	116.166313	112.2638833	108.516378	104.9167428	101.4582887	98.13467104	94.9398689	91.86816682	88.91413713
240301A00025	3/1/2024	4.45	3/1/2027	107.5674417	105.8528035	104.1741226	102.5303322	100.9204077	99.34336496	97.79825785	96.28417672	94.80024647
240305A00008	3/5/2024	4.84	9/5/2025	100.8247336	100.6382696	100.4525022	100.2674274	100.0830413	99.89934004	99.7163198	99.53397674	99.35230708
240305A00010	3/5/2024	4.66	3/5/2026	102.9866195	102.2934973	101.609727	100.9351198	100.2694923	99.61266559	98.96446587	98.32472365	97.69327396

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240305A00011	3/5/2024	4.55	9/4/2026	105.2980029	104.0834384	102.8970073	101.7377387	100.6047062	99.497025	98.41384972	97.35437225	96.3178197
240306A00006	3/6/2024	4.65	9/5/2025	100.7985454	100.612018	100.4261886	100.2410532	100.0566078	99.8728486	99.68977172	99.5073733	99.32564954
240306A00010	3/6/2024	4.22	3/6/2029	116.1308009	112.2223132	108.4693019	104.8646715	101.4016949	98.07399215	94.87550981	91.80050235	88.84351428
240307A00022	3/7/2024	4.09	3/7/2029	115.9357253	112.0207156	108.2617526	104.6517021	101.1838013	97.85163671	94.64912386	91.5704882	88.61024723
240308A00005	3/8/2024	4.03	3/8/2029	115.7220352	111.8081922	108.0504871	104.4417759	100.9752869	97.64459842	94.44361857	91.3665659	88.40795166
240308A00009	3/8/2024	4.74	9/8/2025	100.8426724	100.6478834	100.4538575	100.2605902	100.068077	99.87631348	99.68529517	99.49501768	99.30547664
240308A00011	3/8/2024	4.54	3/9/2026	102.9536797	102.249613	101.5552021	100.8702491	100.1945611	99.52795091	98.87023603	98.22123893	97.58078678
240308A00031	3/8/2024	4.46	9/16/2026	105.350111	104.1016178	102.8828408	101.6927264	100.5302703	99.39451473	98.28454568	97.19949049	96.13851554
240311A00006	3/11/2024	4.6	3/11/2026	103.0207569	102.310891	101.610837	100.9203922	100.2393591	99.56754599	98.90476609	98.25083771	97.60558402
240311A00009	3/11/2024	4.38	3/11/2027	107.5791228	105.8369983	104.1318403	102.4625364	100.8280191	99.22726368	97.65928577	96.1231395	94.61791555
240311A00011	3/11/2024	4.89	7/11/2025	100.1393463	100.1087403	100.0781695	100.0476338	100.0171331	99.98666745	99.95623671	99.92584082	99.89547971
240311A00012	3/11/2024	4.8	9/11/2025	100.8913693	100.6882081	100.4858782	100.2843744	100.0836915	99.88382461	99.68476853	99.48651832	99.28906901
240312A00009	3/12/2024	4.68	3/12/2026	103.0899105	102.3770036	101.6739883	100.9806594	100.2968172	99.62226748	98.95682145	98.30029526	97.65251006
240312A00013	3/12/2024	4.68	3/12/2026	103.0899105	102.3770036	101.6739883	100.9806594	100.2968172	99.62226748	98.95682145	98.30029526	97.65251006
240312A00015	3/12/2024	4.13	3/12/2029	116.1427061	112.209788	108.4340751	104.808358	101.3258037	97.97993381	94.76460319	91.67398087	88.70253179
240312A00019	3/12/2024	4.87	9/12/2025	100.9180948	100.7121267	100.507013	100.3027482	100.099327	99.89674411	99.69499432	99.49407241	99.29397321
240312A00020	3/12/2024	4.82	11/3/2025	101.5454916	101.1944279	100.8457942	100.4995655	100.1557169	99.81422377	99.47506205	99.13820786	98.80363769
240312A00028	3/12/2024	4.87	9/12/2025	100.9180948	100.7121267	100.507013	100.3027482	100.099327	99.89674411	99.69499432	99.49407241	99.29397321
240313A00007	3/13/2024	4.88	9/12/2025	100.9201492	100.7141782	100.5090615	100.3047938	100.1013698	99.89878406	99.69703142	99.49610666	99.29600463
240313A00023	3/13/2024	4.68	3/13/2026	103.1027007	102.3869724	101.6812135	100.9852162	100.2987786	99.62170415	98.95380195	98.29488606	97.6447756
240314A00012	3/14/2024	4.62	3/13/2026	103.1098954	102.39349	101.6870724	100.9904343	100.3033732	99.62569212	98.95719946	98.29770887	97.64703897
240314A00013	3/14/2024	4.62	3/13/2026	103.1098954	102.39349	101.6870724	100.9904343	100.3033732	99.62569212	98.95719946	98.29770887	97.64703897
240315A00015	3/15/2024	4.8	3/16/2026	103.227279	102.5027402	101.7884082	101.0840679	100.3895104	99.70453222	99.02893587	98.36252907	97.70512482
240318A00014	3/18/2024	4.67	3/18/2026	103.2101941	102.4795103	101.7592074	101.0490648	100.3488682	99.65840915	98.97748517	98.30589925	97.64345984
240318A00015	3/18/2024	4.47	2/20/2029	116.886109	113.0054031	109.2775571	105.6956622	102.2531648	98.94384518	95.76179918	92.70141948	89.75737907
240318A00020	3/18/2024	4.48	3/19/2029	115.8065968	112.1724172	108.6817387	105.3280194	102.1050548	99.00695812	96.028142	93.16330158	90.4073985
240319A00003	3/19/2024	4.65	3/19/2026	103.2086127	102.4751578	101.752162	101.0394022	100.3366619	99.64373024	98.96040253	98.28647966	97.62176801
240319A00004	3/19/2024	4.47	3/19/2027	107.9650942	106.1953837	104.4636027	102.7685968	101.1092586	99.48452563	97.89337797	96.33483608	94.80795872
240319A00012	3/19/2024	4.77	4/14/2026	103.5872349	102.7807032	101.9867757	101.2051579	100.4355647	99.67771955	98.9313543	98.19620902	97.47203156
240319A00014	3/19/2024	4.44	3/19/2029	117.1103091	113.1470244	109.3424732	105.6893548	102.1807513	98.81010476	95.57119627	92.4581258	89.46529377
240319A00021	3/19/2024	4.83	9/19/2025	101.0080058	100.7823865	100.5577889	100.3342061	100.1116311	99.89005696	99.66947694	99.44988427	99.23127225
240320A00010	3/20/2024	4.77	3/20/2036	143.3870317	131.2153182	120.249881	110.36257	101.4395614	93.37968406	86.09294969	79.4992604	73.52727208
240321A00007	3/21/2024	4.7	3/23/2026	103.2453562	102.5013199	101.7680396	101.0452828	100.3328237	99.63044309	98.93792772	98.25507045	97.5816699

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240321A00019	3/21/2024	4.88	9/22/2025	101.0447983	100.8109344	100.5781634	100.3464775	100.1158691	99.88633075	99.65785485	99.43043403	99.20406094
240322A00007	3/22/2024	4.67	3/23/2026	103.2232222	102.4792761	101.7460851	101.0234166	100.311045	99.60875101	98.91632139	98.23354902	97.56023254
240322A00008	3/22/2024	4.65	4/22/2026	103.5949632	102.7661731	101.9506855	101.1481815	100.3583523	99.58089871	98.81553111	98.06196875	97.31993955
240322A00013	3/22/2024	4.18	3/22/2029	116.4463469	112.479586	108.672302	105.0171355	101.5071145	98.13563108	94.8964199	91.78353801	88.79134607
240322A00014	3/22/2024	4.51	5/22/2026	103.9256439	103.0110467	102.1125991	101.2298754	100.3624648	99.50997051	98.67200961	97.84821206	97.03822033
240322A00015	3/22/2024	4.65	11/21/2025	101.7303312	101.3287147	100.9302823	100.5349959	100.1428182	99.75371268	99.36764309	98.98457387	98.60447004
240322A00018	3/22/2024	4.34	3/22/2027	107.7780886	106.0018052	104.2637305	102.5626965	100.8975837	99.26731762	97.67086745	96.10724316	94.57549365
240322A00029	3/22/2024	4.36	3/22/2027	107.813068	106.0364695	104.2980854	102.5967477	100.9313366	99.30077764	97.70403974	96.14013276	94.60810547
240322A00032	3/22/2024	4.67	3/23/2026	103.2232222	102.4792761	101.7460851	101.0234166	100.311045	99.60875101	98.91632139	98.23354902	97.56023254
240325A00023	3/25/2024	4.71	9/25/2025	101.0544282	100.812084	100.5709094	100.3308961	100.0920355	99.85431946	99.6177396	99.3822878	99.14795597
240325A00024	3/25/2024	4.71	9/25/2025	101.0544282	100.812084	100.5709094	100.3308961	100.0920355	99.85431946	99.6177396	99.3822878	99.14795597
240325A00027	4/1/2024	4.91	10/1/2025	101.1655424	100.9065137	100.6488105	100.3924228	100.1373405	99.88355358	99.63105232	99.37982693	99.12986777
240325A00028	4/1/2024	4.91	10/1/2025	101.1655424	100.9065137	100.6488105	100.3924228	100.1373405	99.88355358	99.63105232	99.37982693	99.12986777
240325A00040	3/25/2024	4.46	4/30/2027	108.3852268	106.4957474	104.6488119	102.8432145	101.0777913	99.35141815	97.66300963	96.01151711	94.39592736
240325A00060	3/25/2024	4.57	3/25/2026	103.2265374	102.4763385	101.7370726	101.0085016	100.2903945	99.5825264	98.88467928	98.19664105	97.51820561
240326A00013	3/26/2024	4.91	9/26/2025	101.102333	100.8572785	100.6134167	100.370739	100.1292367	99.88890124	99.64972423	99.41169726	99.17481204
240326A00042	3/26/2024	4.71	3/26/2026	103.2913526	102.5387977	101.7972381	101.0664338	100.3461516	99.63616521	98.93625463	98.24620617	97.56581215
240327A00008	3/27/2024	4.72	10/1/2025	101.1304455	100.8713235	100.6135295	100.3570532	100.1018845	99.8480136	99.59543045	99.34412531	99.09408851
240327A00014	3/27/2024	4.88	9/24/2025	101.069902	100.83045	100.5921404	100.3549651	100.118916	99.88398495	99.65016406	99.41744543	99.18582124
240327A00016	3/27/2024	4.56	3/27/2026	103.2444058	102.4885736	101.7438342	101.0099444	100.2866682	99.57377602	98.87104526	98.17825946	97.4952083
240327A00025	3/27/2024	4.35	3/26/2027	107.8480599	106.0601385	104.3108527	102.5990154	100.9234886	99.28318117	97.67704581	96.10407726	94.56330998
240327A00028	3/27/2024	4.4	3/27/2028	112.5526092	109.6821473	106.900821	104.2052659	101.5922704	99.05876836	96.60183048	94.2186574	91.90657276
240328A00017	3/28/2024	4.6	3/30/2026	103.3126584	102.5481992	101.7950755	101.0530363	100.321838	99.60124412	98.89102494	98.19095736	97.50082466
240328A00018	3/28/2024	4.39	3/29/2027	107.9581621	106.1609796	104.4027644	102.6823144	100.9984779	99.35015038	97.73627214	96.15582615	94.60783572
240328A00022	3/28/2024	4.3	3/28/2028	112.4917786	109.6148462	106.8274213	104.1261191	101.5077093	98.96910768	96.50736828	94.11967596	91.80333948
240328A00023	3/28/2024	4.22	3/28/2029	116.6679298	112.6800702	108.8530822	105.179515	101.6523112	98.26478386	95.01059384	91.8837297	88.87848829
240328A00026	3/28/2024	4.6	3/27/2026	103.2743698	102.5184136	101.7735515	101.0395404	100.3161439	99.60313284	98.90028434	98.20738197	97.5242154
240328A00027	3/28/2024	4.39	3/29/2027	107.9581621	106.1609796	104.4027644	102.6823144	100.9984779	99.35015038	97.73627214	96.15582615	94.60783572
240328A00031	3/28/2024	4.92	9/24/2025	101.0794512	100.839984	100.6016593	100.3644689	100.1284048	99.89345875	99.65962294	99.42688943	99.19525042
240328A00052	3/28/2024	4.34	3/28/2029	116.8388052	112.8552639	109.0322032	105.3621983	101.8382165	98.45359354	95.20201157	92.07747897	89.07431109
240328A00061	3/28/2024	4.35	3/28/2029	116.8768127	112.8925548	109.068799	105.3981196	101.8734831	98.48822435	95.23602501	92.11089269	89.10714212
240328A00063	3/28/2024	4.47	3/28/2030	121.651965	116.5160323	111.6330367	106.989059	102.5710281	98.36666433	94.36442653	90.55346305	86.92356643
240328A00064	3/28/2024	4.48	3/28/2031	125.4927016	119.2026662	113.277828	107.6948709	102.4320977	97.46930892	92.78769083	88.3697124	84.19903081

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240328A00065	7/16/2024	4.46	7/16/2032	129.6347641	121.850959	114.60689	107.861963	101.5788485	95.72320281	90.2634145	85.17037305	80.4172588
240401A00003	4/1/2024	4.81	10/1/2025	101.1536813	100.8945196	100.6366861	100.3801704	100.1249626	99.8710526	99.61843056	99.36708668	99.11701128
240401A00004	4/1/2024	4.81	10/1/2025	101.1536813	100.8945196	100.6366861	100.3801704	100.1249626	99.8710526	99.61843056	99.36708668	99.11701128
240401A00006	4/1/2024	4.32	4/2/2029	116.277027	112.4569882	108.791122	105.2723355	101.8939004	98.64943213	95.53287074	92.53846225	89.66074188
240401A00009	4/1/2024	4.79	4/1/2026	103.4298488	102.6600522	101.9017403	101.1546573	100.4185547	99.69319163	98.97833404	98.27375468	97.5792328
240401A00016	4/1/2024	4.47	4/1/2027	108.1402642	106.3330723	104.5651985	102.8354308	101.1426075	99.48561436	97.86338257	96.27488604	94.7191393
240401A00024	4/1/2024	4.97	10/1/2025	101.1810315	100.9219764	100.6642469	100.4078329	100.1527245	99.89891159	99.64638441	99.39513321	99.14514834
240401A00027	4/1/2024	4.82	4/1/2026	103.4527311	102.6828383	101.9244311	101.1772538	100.441058	99.71560266	99.00065373	98.29598395	97.60137257
240402A00015	4/2/2024	4.61	11/15/2027	111.3556249	108.8774369	106.4678392	104.1245499	101.8453765	99.62821203	97.47103118	95.37188645	93.32890483
240402A00044	4/2/2024	4.83	4/2/2026	103.4738048	102.7010518	101.9398701	101.1900007	100.4511928	99.72320238	99.00579302	98.29873492	97.60180496
240403A00002	4/3/2024	5.01	10/3/2025	101.2172605	100.9526152	100.6893571	100.4274752	100.1669587	99.90779698	99.64997943	99.39349559	99.13833511
240403A00006	4/3/2024	4.71	4/3/2026	103.4489873	102.6728501	101.9083889	101.1553413	100.4134528	99.68247624	98.96217197	98.25230715	97.55265571
240403A00008	4/3/2024	4.67	4/2/2027	108.3813287	106.5713666	104.8007873	103.0683816	101.37299	99.7135003	98.08884516	96.49799969	94.93997938
240403A00010	4/3/2024	4.54	4/5/2027	108.3202774	106.5000823	104.71968	102.9778584	101.2734549	99.60535337	97.97248221	96.3738117	94.80835213
240403A00013	4/3/2024	4.58	4/17/2028	113.329898	110.3884424	107.5398572	104.7806603	102.1075226	99.51726082	97.00682941	94.57331411	92.21392516
240403A00018	4/3/2024	4.67	4/5/2027	108.4235025	106.6046486	104.8255173	103.0848997	101.3816362	99.71461337	98.0827623	96.48505576	94.92050641
240403A00022	4/3/2024	4.53	4/3/2029	117.6355154	113.6197583	109.7662303	106.0674153	102.5161937	99.10581847	95.82989354	92.68235271	89.65744061
240404A00004	4/4/2024	4.45	4/4/2029	117.3424376	113.3293278	109.4785021	105.7824406	102.2340195	98.82648802	95.55344577	92.40882257	89.38685905
240404A00012	4/4/2024	4.46	4/4/2029	117.3806401	113.3668066	109.5152789	105.8185362	102.269454	98.86128066	95.58761518	92.44238665	89.41983503
240404A00014	4/4/2024	4.78	4/6/2026	103.48876	102.7048539	101.9328596	101.1725068	100.4235331	99.68568398	98.95871257	98.24237918	97.53645115
240404A00015	4/4/2024	4.6	4/5/2027	108.2984272	106.4807229	104.7027199	102.9632098	101.2610337	99.59507873	97.96427644	96.36760016	94.80406304
240404A00019	6/3/2024	4.55	6/1/2027	108.9780959	106.9948303	105.0580778	103.1664642	101.318665	99.51340349	97.74944863	96.02561305	94.34075128
240404A00020	6/3/2024	4.55	6/1/2027	108.9780959	106.9948303	105.0580778	103.1664642	101.318665	99.51340349	97.74944863	96.02561305	94.34075128
240404A00021	4/4/2024	4.57	4/1/2031	123.20896	117.6100822	112.3267785	107.3391979	102.6288482	98.17849541	93.97207206	89.99459211	86.23207262
240404A00022	4/4/2024	4.78	4/6/2026	103.48876	102.7048539	101.9328596	101.1725068	100.4235331	99.68568398	98.95871257	98.24237918	97.53645115
240404A00023	4/4/2024	4.51	4/24/2028	113.2223378	110.2622509	107.3961814	104.6206166	101.9321963	99.3277046	96.80406335	94.35832503	91.98766652
240405A00005	4/5/2024	4.81	4/6/2026	103.512058	102.7280524	101.9559598	101.1955096	100.4464396	99.70849517	98.98142943	98.2650027	97.55898228
240405A00006	4/5/2024	4.63	4/5/2027	108.3520309	106.5338339	104.7553473	103.0153626	101.3127205	99.64630786	98.01505609	96.41793827	94.85396734
240405A00017	4/5/2024	4.5	4/5/2027	108.2487596	106.4292225	104.6494659	102.9082781	101.2044969	99.5370065	97.90473551	96.30665457	94.74177424
240408A00015	4/8/2024	4.54	4/5/2029	117.6988308	113.6760634	109.816004	106.1111146	102.554254	99.13865434	95.85789911	92.70590228	89.67688928
240408A00018	4/8/2024	4.87	10/6/2025	101.2327306	100.9596003	100.6879531	100.4177768	100.1490594	99.88178899	99.61595388	99.35154243	99.08854316
240408A00020	4/8/2024	4.86	4/8/2026	103.5779471	102.788111	102.0103619	101.2444233	100.4900271	99.74691349	99.01483012	98.29353229	97.58278246
240408A00025	4/8/2024	5.03	10/8/2025	101.2875646	101.0089671	100.7319131	100.4563895	100.1823836	99.9098829	99.63887488	99.36934721	99.10128771

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240408A00026	4/8/2024	4.86	4/8/2026	103.5779471	102.788111	102.0103619	101.2444233	100.4900271	99.74691349	99.01483012	98.29353229	97.58278246
240409A00021	4/9/2024	4.83	4/9/2026	103.5679292	102.7753612	101.9949654	101.2264624	100.4695814	99.72405967	98.98964234	98.26608217	97.55313924
240409A00035	4/9/2024	4.66	4/9/2027	108.4617592	106.6312061	104.8408279	103.0894163	101.3758111	99.69889769	98.05760461	96.45090154	94.87779727
240410A00007	4/10/2024	4.64	4/10/2028	113.6153449	110.6853655	107.8474193	105.0980394	102.433914	99.85187849	97.34890755	94.92210795	92.56871182
240410A00008	4/10/2024	4.56	4/10/2029	118.1283309	114.0751704	110.186574	106.454912	102.8729546	99.43384895	96.13109684	92.95853394	89.91031062
240412A00017	4/12/2024	4.84	4/10/2026	103.6446245	102.8482081	102.0640757	101.2919441	100.5315386	99.78259307	99.04484935	98.31805694	97.6019728
240415A00060	4/15/2024	5.06	4/15/2026	103.8329634	103.0225763	102.2248919	101.4396127	100.6664502	99.90512488	99.15536589	98.41691045	97.68950376
240416A00017	4/16/2024	5.17	10/16/2025	101.4277176	101.1267753	100.8276336	100.5302764	100.2346874	99.940851	99.6487514	99.35837316	99.06970097
240416A00018	4/16/2024	5.04	4/16/2026	103.830961	103.017802	102.2174327	101.4295522	100.6538693	99.89010178	99.13797589	98.39722637	97.66759594
240416A00019	4/16/2024	4.91	4/16/2027	109.0143321	107.1587494	105.3442241	103.5695464	101.8335528	100.1351232	98.47317951	96.84668348	95.25463472
240416A00020	4/16/2024	4.85	4/17/2028	114.096472	111.1440914	108.2848445	105.5152405	102.8319424	100.2317588	97.71163665	95.26865455	92.90001573
240416A00030	4/16/2024	4.78	4/16/2027	108.9097616	107.0528013	105.2369715	103.4610591	101.7238974	100.0243637	98.36137714	96.73389679	95.14091987
240417A00015	4/17/2024	4.76	4/16/2027	108.8733902	107.0167699	105.2012736	103.4256886	101.6888483	99.98963011	98.32695339	96.69977738	95.10709944
240417A00016	4/17/2024	4.63	4/17/2029	118.4886416	114.4081226	110.4939462	106.7384007	103.1341767	99.67434337	96.35232659	93.16188861	90.09710874
240417A00017	4/17/2024	4.63	4/17/2029	118.4886416	114.4081226	110.4939462	106.7384007	103.1341767	99.67434337	96.35232659	93.16188861	90.09710874
240418A00004	4/18/2024	4.87	4/18/2031	127.9894933	121.5666572	115.5189376	109.8222929	104.4543501	99.39427899	94.62267882	90.12147213	85.87380793
240418A00012	4/18/2024	5.19	10/17/2025	101.4471058	101.1433558	100.8414396	100.5413403	100.2430414	99.94652685	99.65178039	99.35878617	99.06752848
240418A00019	4/18/2024	5.05	4/17/2026	103.8530605	103.037023	102.2338632	101.4432775	100.6649715	99.89866012	99.14406702	98.4009243	97.66897218
240419A00026	4/23/2024	5.07	4/1/2026	103.643417	102.8727221	102.1135213	101.3655587	100.6285857	99.90236122	99.18665108	98.48122785	97.78587065
240422A00038	4/22/2024	5.03	10/22/2025	101.4867146	101.1687646	100.85282	100.5388619	100.2268714	99.91682994	99.60871928	99.30252127	98.99821805
240422A00040	4/22/2024	4.85	10/22/2026	106.4371809	105.0918169	103.7728389	102.4794877	101.2110334	99.96677416	98.74603485	97.54816548	96.37254024
240422A00041	4/22/2024	4.92	4/22/2026	103.8744383	103.0436113	102.2261251	101.4216595	100.6299047	99.85056059	99.08333646	98.32795062	97.58413006
240423A00027	4/23/2024	4.93	3/31/2027	108.8141658	107.005921	105.2369113	103.5059248	101.8118001	100.1534235	98.52972692	96.939685	95.38231324
240423A00028	4/23/2024	5.08	3/31/2026	103.6369053	102.8690109	102.112526	101.3671973	100.6327791	99.90903299	99.19572731	98.49263711	97.79954385
240423A00032	4/23/2024	5.06	4/20/2026	103.9033834	103.0787761	102.2673112	101.4686758	100.6825667	99.90869023	99.14676194	98.39650605	97.65765525
240423A00034	4/23/2024	4.92	4/19/2027	109.0767775	107.2120662	105.3887634	103.6056592	101.8615892	100.1554318	98.48610656	96.85257236	95.25382542
240424A00030	4/24/2024	4.89	4/21/2027	109.051355	107.1811842	105.3526449	103.5645277	101.8156677	100.1049425	98.43127051	96.79360882	95.19095163
240425A00010	4/25/2024	4.83	4/26/2027	109.1479175	107.2601717	105.4147407	103.6104111	101.8460125	100.1204163	98.4325334	96.78131276	95.16573965
240425A00021	4/25/2024	4.83	4/26/2027	109.1479175	107.2601717	105.4147407	103.6104111	101.8460125	100.1204163	98.4325334	96.78131276	95.16573965
240425A00028	4/25/2024	4.9	4/25/2028	114.3513335	111.3721527	108.4875517	105.6940008	102.9881225	100.3666846	97.82659263	95.36488331	92.97871816
240425A00029	4/25/2024	4.85	4/25/2029	119.1526567	115.0437674	111.1029008	107.3222763	103.694516	100.2126212	96.86995109	93.66020237	90.57739025
240425A00030	4/25/2024	4.85	4/25/2029	119.1526567	115.0437674	111.1029008	107.3222763	103.694516	100.2126212	96.86995109	93.66020237	90.57739025
240425A00032	4/25/2024	4.92	4/25/2030	124.1699193	118.8918615	113.8766716	109.1098185	104.5776505	100.267337	96.1668154	92.26474072	88.55043953

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240425A00033	4/25/2024	4.96	4/27/2026	103.9773357	103.132103	102.300659	101.4826678	100.6778044	99.88575409	99.10621221	98.33888371	97.58348275
240425A00034	4/25/2024	4.96	4/27/2026	103.9773357	103.132103	102.300659	101.4826678	100.6778044	99.88575409	99.10621221	98.33888371	97.58348275
240426A00011	4/26/2024	5.17	10/27/2025	101.5744148	101.242679	100.9131152	100.5857021	100.2604186	99.93724412	99.61615802	99.29714012	98.98017046
240426A00012	4/26/2024	4.92	4/27/2026	103.9439329	103.0988527	102.2675594	101.4497171	100.645001	99.85309628	99.07369839	98.30651229	97.55125216
240426A00024	4/26/2024	4.79	4/26/2029	118.0351334	114.1188037	110.3625205	106.758822	103.3006353	99.98125402	96.79431739	93.73379039	90.79394542
240426A00026	4/26/2024	5.05	4/30/2026	104.0357935	103.1827325	102.3437055	101.5183679	100.7063864	99.9074382	99.12121103	98.34740246	97.58571958
240426A00029	4/26/2024	5.19	10/27/2025	101.5810202	101.2492708	100.9196935	100.5922669	100.2669701	99.94378221	99.62268285	99.30365175	98.98666895
240426A00044	4/26/2024	4.78	4/26/2027	109.0555968	107.1687264	105.3241544	103.5206676	101.7570964	100.0323124	98.34522704	96.69478962	95.07998579
240429A00006	4/29/2024	4.86	10/29/2026	106.5512826	105.1895231	103.8524545	102.539449	101.2498999	99.98322074	98.73884454	97.51622272	96.31482454
240429A00007	4/29/2024	5.04	10/29/2025	101.5821302	101.2445458	100.9092081	100.5760947	100.2451836	99.91645285	99.58988101	99.26544683	98.94312935
240429A00008	4/29/2024	4.93	4/29/2026	103.9801374	103.1293125	102.2924545	101.4692214	100.6592819	99.86231558	99.07801208	98.30607101	97.54620135
240429A00045	4/29/2024	5.1	8/5/2025	100.4715858	100.3714019	100.2714267	100.1716596	100.0720998	99.97274672	99.87359962	99.77465786	99.67592077
240429A00052	4/29/2024	4.91	5/3/2027	109.2634622	107.3573593	105.4943132	103.6730985	101.8925326	100.1514738	98.44881977	96.78350565	95.15450273
240430A00016	4/30/2024	5.08	10/30/2025	101.6088536	101.2684341	100.9302965	100.5944179	100.2607758	99.92934787	99.60011214	99.2730469	98.94813074
240430A00017	4/30/2024	5.08	10/30/2025	101.6088536	101.2684341	100.9302965	100.5944179	100.2607758	99.92934787	99.60011214	99.2730469	98.94813074
240430A00034	4/30/2024	4.69	4/30/2029	118.8921953	114.7657819	110.8088901	107.0136596	103.3726351	99.87874382	96.52527365	93.30585287	90.2144312
240430A00035	4/30/2024	4.94	4/30/2027	109.2762565	107.3782861	105.5230196	103.7092469	101.9357995	100.2015492	98.50540649	96.84631891	95.22326947
240501A00017	5/1/2024	5.13	5/1/2026	104.1177556	103.2615382	102.4194528	101.5911511	100.7762962	99.97456221	99.18563359	98.40920491	97.64498039
240501A00018	12/23/2024	4.83	12/23/2026	107.2059524	105.6890242	104.2015686	102.7427997	101.3119589	99.90831419	98.53115835	97.17980836	95.85360417
240501A00054	5/6/2024	4.79	5/4/2029	119.0376491	114.9050069	110.942356	107.1418025	103.49586	99.99742677	96.6397638	93.4164744	90.32148508
240502A00013	5/2/2024	4.68	5/2/2028	114.0292189	111.0298034	108.1263079	105.3151508	102.5929044	99.95628675	97.40215493	94.92749839	92.52943261
240502A00017	5/2/2024	4.81	5/2/2028	114.1899309	111.1930023	108.2917957	105.482741	102.7624206	100.1275625	97.57503314	95.10183073	92.705079
240502A00030	5/2/2024	4.75	5/2/2029	118.8560244	114.732548	110.7785042	106.9860344	103.3476852	99.85638549	96.505425	93.28843388	90.19936371
240502A00048	5/2/2024	4.89	5/3/2027	109.2261691	107.3204231	105.457727	103.6368558	101.8566271	100.1158993	98.41357025	96.74857522	95.11988572
240503A00009	5/3/2024	4.61	5/3/2029	118.3226078	114.2066164	110.2599695	106.4748049	102.8436664	99.3594805	96.01553488	92.80545808	89.72320043
240503A00016	5/3/2024	4.72	5/3/2028	113.9437999	110.9476384	108.0472846	105.2391613	102.519845	99.88605755	97.33466002	94.86264544	92.46713272
240503A00023	5/3/2024	5.13	8/4/2025	100.4561018	100.3587542	100.261602	100.1646446	100.0678814	99.97131193	99.87493546	99.77875143	99.68275925
240503A00024	5/3/2024	5.04	11/3/2025	101.6224219	101.2711923	100.9223935	100.5760006	100.2319885	99.89033283	99.55100936	99.21399424	98.87926394
240503A00029	10/21/2024	4.85	10/21/2025	101.3940414	101.0793088	100.7665423	100.4557234	100.146834	99.83985607	99.53477173	99.23156345	98.93021387
240503A00035	5/3/2024	4.92	5/1/2026	103.9401182	103.084721	102.2434462	101.4159456	100.6018828	99.80093179	99.01277734	98.23711417	97.47364664
240506A00011	5/6/2024	4.46	5/4/2029	118.0442314	113.9228971	109.9714901	106.1821067	102.5472524	99.05981761	95.71305678	92.5005673	89.4162705
240506A00012	5/6/2024	5.04	11/6/2025	101.6614676	101.3018614	100.9448072	100.5902778	100.2382465	99.88868671	99.54157255	99.19687828	98.85457859
240506A00020	5/6/2024	4.73	5/6/2027	108.9692194	107.0576863	105.1895127	103.3634598	101.5783322	99.83297581	98.12627656	96.4571585	94.82458233

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240507A00017	5/7/2024	4.51	5/8/2028	113.6156661	110.60547	107.6920856	104.8718787	102.1413714	99.49723496	96.93628244	94.45546178	92.05184937
240507A00019	5/7/2024	4.51	5/8/2028	113.6156661	110.60547	107.6920856	104.8718787	102.1413714	99.49723496	96.93628244	94.45546178	92.05184937
240507A00020	5/7/2024	4.6	5/7/2027	108.8750845	106.9592417	105.0869581	103.2569863	101.4681226	99.71920547	98.00911338	96.33676346	94.70110977
240507A00021	5/7/2024	4.77	5/7/2026	103.9551004	103.0821308	102.2238749	101.3799623	100.5500351	99.73374687	98.93076295	98.14075936	97.3634226
240507A00034	5/7/2024	4.9	5/7/2026	104.0064517	103.134076	102.2763902	101.4330251	100.6036233	99.78783963	98.98533996	98.19580113	97.4189104
240507A00042	5/7/2024	4.57	5/7/2029	118.2154966	114.0903022	110.135292	106.3425439	102.7045461	99.21417331	95.86466506	92.64960507	89.56290198
240507A00043	5/7/2024	4.9	5/7/2026	104.0064517	103.134076	102.2763902	101.4330251	100.6036233	99.78783963	98.98533996	98.19580113	97.4189104
240507A00048	5/7/2024	4.73	5/7/2027	108.9830181	107.068603	105.1976691	103.3689722	101.5813121	99.83353013	98.12450771	96.45316471	94.81845778
240507A00049	5/7/2024	4.64	5/8/2028	113.7777661	110.7700609	107.8589675	105.0408628	102.3122797	99.66989941	97.11054447	94.63117171	92.22886591
240507A00051	5/7/2024	4.57	5/7/2029	118.2154966	114.0903022	110.135292	106.3425439	102.7045461	99.21417331	95.86466506	92.64960507	89.56290198
240508A00005	5/8/2024	4.59	5/8/2031	126.999926	120.5313712	114.4448146	108.7155789	103.3207059	98.23882818	93.45005091	88.93584353	84.67893941
240508A00006	5/8/2024	4.92	5/8/2026	104.0376331	103.1623307	102.3018147	101.455712	100.6236618	99.80531559	99.00033613	98.20839719	97.42918312
240509A00005	5/9/2024	4.62	5/9/2029	118.4358522	114.3007426	110.3364003	106.5348667	102.8885961	99.39043153	96.03358287	92.81160617	89.71838415
240509A00010	5/9/2024	4.6	5/10/2027	108.9160178	106.991518	105.1109436	103.2730318	101.4765641	99.72036505	98.00329971	96.32427244	94.68222514
240509A00022	5/9/2024	4.66	5/9/2028	113.8487091	110.837182	107.9224649	105.1009243	102.3690832	99.72361351	97.16132896	94.67917808	92.27423781
240509A00023	5/9/2024	4.6	5/9/2029	118.3574961	114.2239074	110.2610394	106.4609355	102.8160517	99.31923264	95.96368974	92.74298056	89.65098925
240509A00039	5/9/2024	4.87	11/10/2025	101.6779867	101.3069689	100.9386725	100.5730675	100.2101243	99.84981374	99.49210712	99.13697614	98.78439293
240510A00020	5/10/2024	4.63	5/10/2027	108.9725798	107.0475332	105.1664223	103.327984	101.5309998	99.77429371	98.05673059	96.37721457	94.73468729
240513A00022	5/13/2024	4.92	5/13/2026	104.107289	103.2177481	102.3434729	101.4840719	100.6391672	99.80839346	98.99139744	98.18783776	97.39738418
240513A00024	5/13/2024	4.74	5/13/2027	109.0847384	107.1528347	105.2651481	103.4204035	101.617371	99.8548638	98.13173656	96.44688349	94.79923685
240513A00025	5/13/2024	4.67	5/12/2028	113.9167649	110.8958708	107.9723313	105.1424827	102.4028202	99.74998915	97.18077824	94.69211248	92.2810466
240513A00026	5/13/2024	4.6	5/14/2029	118.4190752	114.2701781	110.2931728	106.4800225	102.8231087	99.31520682	95.94946364	92.71937656	89.61877367
240513A00041	5/13/2024	5.06	11/13/2025	101.7601135	101.3809224	101.0045715	100.6310286	100.2602624	99.89224187	99.52693637	99.16431583	98.80435059
240513A00045	5/17/2024	4.73	6/17/2027	109.552506	107.5180579	105.5323495	103.5939086	101.7013173	99.85321052	98.0482728	96.28523663	94.56288016
240514A00049	5/14/2024	4.84	2/5/2026	102.7885925	102.1732227	101.5652392	100.9645094	100.3709038	99.78429597	99.20456255	98.63158298	98.06523954
240514A00065	5/14/2024	4.59	5/14/2029	118.3797578	114.2316265	110.2553634	106.4429328	102.7867171	99.27949239	95.91440637	92.68495715	89.58497355
240515A00002	5/15/2024	4.4	11/13/2028	115.6640009	112.084115	108.6364407	105.3153911	102.1156455	99.03213521	96.06003022	93.19472672	90.43183525
240515A00003	5/15/2024	4.36	5/15/2029	117.7838558	113.6365137	109.661442	105.8505703	102.1962483	98.69122247	95.32861276	92.10189169	89.00486435
240515A00014	5/15/2024	4.81	11/17/2025	101.7439392	101.3533787	100.9658322	100.5812648	100.1996419	99.82092982	99.44509507	99.07210482	98.70192671
240515A00023	5/15/2024	4.51	5/15/2029	118.0772833	113.9322239	109.9590795	106.1498056	102.4967765	98.992761	95.63090031	92.40468648	89.30794288
240515A00024	5/15/2024	4.59	5/15/2028	113.7224397	110.6960085	107.7673837	104.9328749	102.1889518	99.53223611	96.95949413	94.46762982	92.05367811
240515A00026	5/15/2024	4.64	5/17/2027	108.9496913	107.0080922	105.1111665	103.2576192	101.4462016	99.67570886	97.94497844	96.25288824	94.59835498
240515A00027	5/15/2024	4.5	5/19/2027	108.8477833	106.8991473	104.9955087	103.1355586	101.3180349	99.54172029	97.80544007	96.10806078	94.44848818

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240515A00035	5/15/2024	4.57	5/15/2028	113.6640956	110.6385178	107.7107254	104.8770287	102.1338982	99.47795601	96.90596922	94.41484231	92.00161078
240515A00036	5/17/2024	4.63	6/17/2027	109.353524	107.3210993	105.337375	103.4008798	101.5101972	99.66396276	97.86086227	96.09962912	94.3790424
240515A00037	5/15/2024	4.5	5/15/2029	118.037938	113.8936454	109.9212443	106.1126911	102.4603609	98.9570236	95.59582092	92.37024578	89.27412224
240515A00038	5/15/2024	4.5	5/15/2029	118.037938	113.8936454	109.9212443	106.1126911	102.4603609	98.9570236	95.59582092	92.37024578	89.27412224
240515A00039	5/15/2024	4.57	5/15/2030	122.6805135	117.3810402	112.3487049	107.5685994	103.0267235	98.70992538	94.60584595	90.70286695	86.99006291
240515A00041	7/1/2024	4.69	7/1/2027	109.6674212	107.5920251	105.5672534	103.591548	101.6634103	99.78139759	97.94412144	96.15024464	94.39847916
240515A00044	5/15/2024	4.97	11/14/2025	101.7404399	101.3585088	100.9794594	100.6032592	100.2298759	99.85927786	99.49143384	99.12631309	98.76388531
240515A00048	7/1/2024	4.55	7/2/2029	118.8254385	114.5275779	110.4134762	106.4742618	102.7015402	99.08736605	95.6242162	92.3049651	89.12286151
240515A00050	7/1/2024	4.55	7/2/2029	118.8254385	114.5275779	110.4134762	106.4742618	102.7015402	99.08736605	95.6242162	92.3049651	89.12286151
240515A00052	7/1/2024	4.79	7/3/2034	138.5368145	128.3578839	119.0485857	110.5289607	102.7268271	95.57698573	89.02051047	83.00411398	77.47958056
240515A00066	6/28/2024	4.8	6/29/2026	104.6466431	103.6233284	102.6201015	101.6363744	100.6715817	99.72517993	98.79664609	97.88547689	96.9911878
240515A00067	6/28/2024	4.8	6/29/2026	104.6466431	103.6233284	102.6201015	101.6363744	100.6715817	99.72517993	98.79664609	97.88547689	96.9911878
240515A00068	6/28/2024	4.8	6/29/2026	104.6466431	103.6233284	102.6201015	101.6363744	100.6715817	99.72517993	98.79664609	97.88547689	96.9911878
240515A00089	5/15/2024	4.5	5/15/2029	118.037938	113.8936454	109.9212443	106.1126911	102.4603609	98.9570236	95.59582092	92.37024578	89.27412224
240516A00025	5/17/2024	4.55	10/16/2028	115.5680429	112.0758054	108.709817	105.4647885	102.3356848	99.31771106	96.40629977	93.59709827	90.88595741
240516A00030	5/16/2024	5	11/17/2025	101.7905834	101.4002293	101.0128835	100.628511	100.2470777	99.8685497	99.49289387	99.12007741	98.75006811
240516A00038	5/16/2024	4.9	5/18/2026	104.1590868	103.2553766	102.3674146	101.4947909	100.6371096	99.79398861	98.96505855	98.14996258	97.3483557
240517A00011	5/17/2024	4.61	5/17/2028	113.8064832	110.7732383	107.8381783	104.9975925	102.2479311	99.58579756	97.00794114	94.51124953	92.09274237
240517A00017	5/17/2024	4.4	5/17/2029	117.9654143	113.8088766	109.8251743	106.006201	102.3442731	98.83210543	95.46278888	92.22976863	89.12682429
240517A00026	5/17/2024	4.68	5/17/2027	109.0258349	107.0834931	105.1858389	103.331577	101.519458	99.74827688	98.01687072	96.3241171	94.66893237
240517A00034	5/17/2024	5.02	11/17/2025	101.7983537	101.4079815	101.0206176	100.6362271	100.254776	99.87623025	99.50055676	99.12772275	98.75769599
240520A00012	5/20/2024	5.18	7/21/2025	100.2779696	100.2195411	100.161196	100.102934	100.044755	99.98665871	99.92864508	99.87071388	99.81286494
240520A00016	5/20/2024	4.57	8/16/2027	110.1960755	107.9845752	105.8292175	103.7281822	101.679723	99.68216379	97.73389517	95.83337128	93.97910664
240520A00017	5/20/2024	4.94	4/15/2026	103.7367779	102.9268129	102.129546	101.3446797	100.5719256	99.81100433	99.06164504	98.32358504	97.59656962
240520A00018	5/20/2024	4.84	10/15/2026	106.2301607	104.9032654	103.6043884	102.3326439	101.0871835	99.86719478	98.67189864	97.50054813	96.35242657
240520A00020	5/20/2024	4.79	1/15/2027	107.4716894	105.8895984	104.3391135	102.8193599	101.3294946	99.86870485	98.43620722	97.0312459	95.6530916
240520A00025	5/20/2024	4.75	4/15/2027	108.7092682	106.8593767	105.0503765	103.2810593	101.5502629	99.85686932	98.19980235	96.57802584	94.99054167
240520A00027	5/20/2024	4.7	10/15/2027	111.1479547	108.7595825	106.4352878	104.1729329	101.9704676	99.82592483	97.73741637	95.70312928	93.72132217
240520A00031	5/20/2024	4.96	9/19/2025	101.0372397	100.8115762	100.5869346	100.3633079	100.1406891	99.91907141	99.69844796	99.47881199	99.26015682
240520A00040	5/20/2024	4.89	11/20/2025	101.8134462	101.4144042	101.0185044	100.6257099	100.2359839	99.8492905	99.46559427	99.08486029	98.70705422
240520A00041	5/20/2024	4.83	11/25/2026	106.8072081	105.3702013	103.959785	102.575283	101.2160417	99.88142879	98.5708329	97.28366229	96.01934428
240521A00005	5/21/2024	5.04	11/21/2025	101.8582143	101.4566174	101.0581995	100.6629229	100.2707505	99.88164567	99.49557239	99.11249522	98.73237929
240521A00006	5/21/2024	4.9	5/21/2026	104.2007162	103.2884459	102.392216	101.5116051	100.6462068	99.79562857	98.95949123	98.13742856	97.32908659

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
240522A00012	5/22/2024	4.67	5/22/2028	114.0469348	110.9961845	108.0445804	105.1883596	102.4239234	99.74782925	97.15678268	94.64763038	92.21735324
240522A00027	5/22/2024	4.62	5/21/2027	109.1044445	107.1477758	105.2363955	103.3689828	101.5442644	99.76101209	98.01804117	96.31420833	94.64841005
240522A00039	5/22/2024	4.76	5/24/2027	109.2753139	107.3112381	105.3927451	103.518502	101.6872234	99.89767001	98.14864621	96.43899847	94.76761347
240523A00021	5/23/2024	4.96	11/24/2025	101.8932308	101.4828983	101.0758814	100.6721398	100.2716341	99.87432537	99.48017531	99.08914628	98.70120121
240523A00025	5/23/2024	4.96	11/18/2025	101.8152272	101.4217272	101.0312846	100.6438634	100.2594287	99.87794584	99.49938072	99.12369982	98.75087012
240523A00027	5/23/2024	4.49	5/24/2029	118.4061305	114.2211474	110.2108688	106.3670661	102.6819418	99.14810487	95.75854704	92.50662122	89.38602085
240523A00033	5/24/2024	4.8	12/24/2027	112.3538185	109.7535952	107.2282653	104.7752321	102.3920053	100.0761963	97.82551282	95.63775495	93.51081037
240523A00035	5/24/2024	4.78	11/24/2027	111.8918258	109.3812695	106.9408227	104.5681309	102.2609328	100.0170566	97.83441499	95.71100197	93.64488893
240523A00037	5/24/2024	4.78	1/24/2028	112.7291264	110.0375408	107.4254096	104.8898989	102.4282947	100.0379977	97.71651717	95.46146571	93.27055434
240523A00043	5/24/2024	4.81	2/24/2028	113.2516958	110.461873	107.7564052	105.1321989	102.5862964	100.1158692	97.71821102	95.39073175	93.13095147
240524A00001	5/24/2024	4.98	11/24/2025	101.9013907	101.4910383	101.0840015	100.6802403	100.279715	99.8823868	99.48821739	99.09716912	98.70920492
240524A00011	5/24/2024	5.02	5/19/2026	104.2804572	103.3733725	102.4821395	101.6063445	100.745588	99.89948421	99.06766048	98.24975669	97.44542476
240524A00027	5/24/2024	4.82	6/30/2027	109.9170953	107.8418781	105.8172257	103.8415841	101.9134579	100.0314079	98.1940488	96.40004627	94.64811506
240125A00058	1/16/2025	3.85	6/11/2027	107.7320507	105.7330269	103.781588	101.8763077	100.0158125	98.19877877	96.42393115	94.69004018	92.99592031
240131A00019	1/16/2025	3.69	6/12/2026	103.3439437	102.3748528	101.4239607	100.4907578	99.57475315	98.67547401	97.79246473	96.92528615	96.07351477
240208A00030	1/16/2025	4.05	1/23/2026	102.1249741	101.5483525	100.9782539	100.4145678	99.8571864	99.30600406	98.76091763	98.22182622	97.68863115
240118A00057	3/14/2025	3.81	5/14/2027	107.3359878	105.4183166	103.5446596	101.7137457	99.92434889	98.17528626	96.46541608	94.79363622	93.15888245
ADV1006437	5/28/2024	4.799	6/28/2027	109.8465152	107.7777087	105.7591834	103.7893977	101.8668684	99.99016784	98.15792152	96.36880553	94.62154446
ADV1006438	5/28/2024	4.644	5/29/2029	118.7790239	114.5806544	110.5578248	106.7022509	103.0060837	99.46188412	96.06259923	92.80154027	89.6723619
ADV1006450	5/28/2024	5.047	5/28/2026	104.4335895	103.5006256	102.5843988	101.6844609	100.8003796	99.93173774	99.0781329	98.23917635	97.41449275
ADV1006451	5/28/2024	5.204	11/28/2025	102.0184704	101.5970432	101.1791013	100.7646014	100.3535012	99.94575892	99.54133358	99.14018477	98.74227279
ADV1006474	5/28/2024	5.044	5/28/2026	104.430827	103.497877	102.5816638	101.6817393	100.7976712	99.92904252	99.07545062	98.23650687	97.4118359
ADV1006478	5/28/2024	4.775	5/30/2028	114.4621574	111.3828622	108.4042742	105.5225462	102.7339999	100.0351176	97.42253403	94.89302922	92.44352106
ADV1006508	5/29/2024	4.746	9/12/2028	115.7728426	112.3743927	109.0958371	105.9322069	102.8787732	99.93103379	97.08470073	94.33568823	91.68010183
ADV1006512	5/29/2024	4.762	7/17/2028	115.0661006	111.8405218	108.7245398	105.713795	102.8041278	99.99156878	97.27232835	94.64278756	92.09948932
ADV1006532	5/29/2024	5.092	2/27/2026	103.2006723	102.5233472	101.8549325	101.1952533	100.5441389	99.90142306	99.26694401	98.64054397	98.02206921
ADV1006538	5/29/2024	4.952	11/25/2026	106.9809908	105.5426829	104.1309896	102.7452339	101.3847615	100.0489395	98.73715574	97.44881796	96.18335288
ADV1006559	5/29/2024	4.894	7/30/2027	110.4954697	108.3309375	106.2204752	104.1623638	102.1549523	100.1966542	98.28594493	96.42135852	94.60148503
ADV1006562	5/29/2024	4.768	6/29/2029	119.6739891	115.3676353	111.2448967	107.2969286	103.5153611	99.89227109	96.42015543	93.09190676	89.90079029
ADV1006570	5/29/2024	4.908	5/28/2027	109.6173202	107.6388104	105.7064388	103.8188493	101.9747348	100.1728349	98.41193423	96.69086015	95.00848125
ADV1006582	5/30/2024	5.037	5/29/2026	104.4382552	103.5024963	102.5835723	101.6810312	100.7944371	99.92336932	99.06742206	98.22620345	97.39933508
ADV1006583	5/30/2024	4.859	5/28/2027	109.5223526	107.5447927	105.6133527	103.7266772	101.8834594	100.0824395	98.32240247	96.60217627	94.92062987
ADV1006595	5/30/2024	5.031	5/29/2026	104.4327142	103.496983	102.5780864	101.6755723	100.7890048	99.91796337	99.06204213	98.22084922	97.39400625

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1006596	5/30/2024	4.859	5/28/2027	109.5223526	107.5447927	105.6133527	103.7266772	101.8834594	100.0824395	98.32240247	96.60217627	94.92062987
ADV1006598	5/30/2024	4.783	5/30/2028	114.4854571	111.4058155	108.4268906	105.5448347	102.7559691	100.0567759	97.44388965	94.91408996	92.46429449
ADV1006599	5/30/2024	4.695	5/30/2029	118.9938843	114.7884622	110.7589407	106.8970147	103.1948153	99.64488475	96.24015279	92.97391436	89.83980883
ADV1006606	5/30/2024	4.579	5/30/2029	117.2222573	113.3703776	109.6778467	106.1370974	102.740966	99.4826679	96.35577574	93.35419836	90.4721613
ADV1006633	5/31/2024	4.653	5/28/2027	109.2642429	107.2866609	105.3552527	103.46866	101.6255733	99.8247304	98.06491384	96.34494926	94.66370354
ADV1006634	5/31/2024	4.572	5/31/2028	114.0935772	111.0119325	108.0313065	105.1478321	102.3578129	99.65771371	97.04415324	94.5138962	92.06384619
ADV1006650	5/31/2024	4.854	5/29/2026	104.3343889	103.3982348	102.4789393	101.5760493	100.689128	99.81775373	98.96151985	98.12003362	97.29291584
ADV1006652	5/31/2024	4.854	5/29/2026	104.3343889	103.3982348	102.4789393	101.5760493	100.689128	99.81775373	98.96151985	98.12003362	97.29291584
ADV1006656	5/31/2024	4.99	5/29/2026	104.3948469	103.4593042	102.5405935	101.6382628	100.7518763	99.88101348	99.02526852	98.1842496	97.35757838
ADV1006657	5/31/2024	4.811	5/28/2027	109.4294994	107.4528614	105.5223241	103.6365326	101.7941807	99.9940091	98.23480339	96.51539193	94.83464421
ADV1006659	5/31/2024	4.732	5/31/2028	114.3477189	111.2673206	108.2877634	105.4051913	102.6159181	99.91641849	97.30332026	94.7733967	92.32355949
ADV1006680	6/3/2024	4.924	6/3/2026	104.4092596	103.4597063	102.5274914	101.6121423	100.7132037	99.83023643	98.96281689	98.11053638	97.27300041
ADV1006681	6/3/2024	4.731	6/3/2027	109.3631033	107.370349	105.4244439	103.5239999	101.6676793	99.8541929	98.08229783	96.35079531	94.65852903
ADV1006683	6/3/2024	4.637	6/5/2028	114.1366903	111.045093	108.0551896	105.1630731	102.3650089	99.65742648	97.03691112	94.50019618	92.04415577
ADV1006724	6/4/2024	4.536	6/4/2027	109.1369387	107.1409787	105.1920624	103.2887926	101.4298231	99.61385662	97.83964234	96.10597425	94.41168903
ADV1006734	6/4/2024	4.987	12/4/2025	102.0095097	101.5714974	101.1372537	100.7067299	100.2798784	99.85665216	99.43700516	99.02089201	98.60826813
ADV1006742	6/4/2024	4.992	12/4/2025	102.0116924	101.5736744	101.139425	100.7088957	100.2820386	99.85880686	99.43915437	99.02303577	98.61040648
ADV1006757	6/5/2024	4.883	12/5/2025	102.0076397	101.5664967	101.1291795	100.6956381	100.2658238	99.83968856	99.4171851	98.99826704	98.58288877
ADV1006759	6/5/2024	4.502	6/5/2029	118.3036882	114.0945773	110.0623778	106.198699	102.4955931	98.94552962	95.5413709	92.27634966	89.14404776
ADV1006780	6/5/2024	4.435	6/1/2029	117.9878266	113.7965708	109.7810678	105.9330036	102.2445014	98.70809705	95.31671459	92.06364427	88.94252159
ADV1006781	6/5/2024	4.998	10/31/2025	101.5734121	101.2305862	100.8900712	100.5518439	100.2158814	99.8821609	99.55066015	99.22135707	98.89422989
ADV1006792	6/6/2024	4.967	12/8/2025	102.0528016	101.603594	101.158354	100.717029	100.2795673	99.84591834	99.41603217	98.98985985	98.56735324
ADV1006793	6/6/2024	4.835	6/8/2026	104.394467	103.4310371	102.4854624	101.5572489	100.6459207	99.75101935	98.87210265	98.00874429	97.16053299
ADV1006802	6/6/2024	4.287	6/6/2029	117.7579076	113.5484829	109.5164273	105.6533115	101.951152	98.40238494	94.99984198	91.73672745	88.60659691
ADV1006838	6/7/2024	4.941	1/7/2026	102.4676711	101.9337372	101.4053852	100.8825275	100.3650786	99.85295463	99.34607348	98.84435475	98.34771965
ADV1006844	6/7/2024	4.772	6/7/2027	109.4989439	107.4934389	105.5353368	103.6232251	101.7557431	99.9315796	98.14947079	96.40819803	94.70658602
ADV1006845	6/7/2024	4.686	6/7/2028	114.3083469	111.2083923	108.2105709	105.3109519	102.5057781	99.7914579	97.16455659	94.62178872	92.16001067
ADV1006846	6/7/2024	4.579	6/7/2029	118.6361567	114.4146493	110.3707414	106.4959998	102.782437	99.22248545	95.80897275	92.53509927	89.39441662
ADV1006860	6/10/2024	4.544	6/10/2030	123.2299188	117.8301726	112.7064833	107.843224	103.2257342	98.8402546	94.67386736	90.71444008	86.95057415
ADV1006862	6/10/2024	4.698	6/12/2028	114.410025	111.2941333	108.2813513	105.367692	102.5493461	99.82267255	97.1841902	94.63056995	92.15862711
ADV1006864	6/10/2024	4.684	6/10/2030	123.5458177	118.150419	113.0303982	108.1701865	103.5551766	99.1716582	95.00675841	91.04838632	87.28518143
ADV1006866	6/10/2024	4.751	6/10/2032	131.3711832	123.6305955	116.4188838	109.6968087	103.4282446	97.57991695	92.12116356	87.02371646	82.26150346
ADV1006868	6/10/2024	4.737	6/10/2031	127.7394157	121.1709435	114.995008	109.1859314	103.7198479	98.57456726	93.72944811	89.16528256	84.8641894

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1006872	6/10/2024	4.778	6/10/2027	109.55263	107.5380423	105.5712651	103.6508678	101.7754727	99.94375202	98.15442648	96.40626264	94.69807112
ADV1006873	6/10/2024	4.612	6/4/2029	118.729938	114.515308	110.4776081	106.6084548	102.8999066	99.34443861	95.93491812	92.66458225	89.52701674
ADV1006874	6/11/2024	4.614	6/1/2029	118.7000477	114.4947389	110.4656171	106.6043512	102.9030485	99.35422915	95.95080253	92.68604481	89.55357803
ADV1006912	6/11/2024	4.816	6/11/2026	104.4849346	103.5116945	102.5566614	101.6193267	100.6992009	99.79581222	98.90870607	98.03744421	97.18160401
ADV1006931	6/12/2024	4.404	6/12/2029	117.9949872	113.7716516	109.726731	105.8517211	102.1385688	98.57964586	95.16772423	91.89595263	88.7578351
ADV1006934	6/12/2024	4.933	12/12/2025	102.0879134	101.627529	101.1713133	100.7192097	100.2711627	99.82711758	99.3870207	98.95081939	98.51846192
ADV1006935	6/12/2024	4.796	6/12/2026	104.4111946	103.4365158	102.4801102	101.5414665	100.620092	99.71551255	98.82727094	97.95492654	97.09805443
ADV1006936	6/12/2024	4.561	6/14/2027	109.178395	107.156214	105.1823015	103.2552051	101.3735262	99.53591759	97.74108118	95.98776586	94.27476544
ADV1006937	6/12/2024	4.656	6/12/2026	104.3443034	103.3690078	102.4120139	101.4728091	100.5508996	99.6458101	98.75708238	97.88427482	97.02696156
ADV1006940	6/12/2024	5.018	10/1/2025	101.1964763	100.9373936	100.6796367	100.4231952	100.1680592	99.91421867	99.66166385	99.41038498	99.16037239
ADV1006942	6/12/2024	4.955	11/28/2025	101.9167596	101.4956049	101.0779334	100.6637019	100.2528681	99.84539021	99.44122726	99.04033889	98.64268542
ADV1006943	6/12/2024	5.018	10/1/2025	101.1964763	100.9373936	100.6796367	100.4231952	100.1680592	99.91421867	99.66166385	99.41038498	99.16037239
ADV1006944	6/12/2024	5.018	10/1/2025	101.1964763	100.9373936	100.6796367	100.4231952	100.1680592	99.91421867	99.66166385	99.41038498	99.16037239
ADV1006945	6/12/2024	5.018	10/1/2025	101.1964763	100.9373936	100.6796367	100.4231952	100.1680592	99.91421867	99.66166385	99.41038498	99.16037239
ADV1006947	6/12/2024	5.018	10/1/2025	101.1964763	100.9373936	100.6796367	100.4231952	100.1680592	99.91421867	99.66166385	99.41038498	99.16037239
ADV1006948	6/12/2024	4.955	11/28/2025	101.9167596	101.4956049	101.0779334	100.6637019	100.2528681	99.84539021	99.44122726	99.04033889	98.64268542
ADV1006949	6/12/2024	4.955	11/28/2025	101.9167596	101.4956049	101.0779334	100.6637019	100.2528681	99.84539021	99.44122726	99.04033889	98.64268542
ADV1006950	6/12/2024	4.952	11/28/2025	101.9155007	101.4943492	101.0766808	100.6624525	100.2516217	99.84414691	99.43998702	99.0391017	98.64145126
ADV1006953	6/12/2024	4.55	6/14/2027	109.156592	107.134632	105.1609362	103.2340523	101.3525818	99.51517764	97.72054189	95.9674235	94.25461637
ADV1006954	6/12/2024	4.466	6/12/2028	113.7142765	110.6088071	107.6061867	104.7024372	101.8937573	99.17651403	96.54723394	94.00259522	91.5394202
ADV1006955	6/12/2024	4.371	6/12/2029	117.8625528	113.6418476	109.5994755	105.7269354	102.0161774	98.45957614	95.04990628	91.78031928	88.64432169
ADV1006956	6/12/2024	4.382	6/12/2029	117.9066976	113.6851156	109.641894	105.7685306	102.0569745	98.49959938	95.08917893	91.81886373	88.68215949
ADV1006960	6/12/2024	4.668	6/12/2026	104.3558626	103.380507	102.4234537	101.4841903	100.5622231	99.65707651	98.76829248	97.8954293	97.03806112
ADV1006962	6/12/2024	4.822	6/12/2026	104.4362306	103.4614217	102.5048878	101.5661173	100.6446178	99.73991483	98.85155131	97.97908654	97.12209557
ADV1006965	6/17/2024	4.601	7/1/2027	109.4891485	107.4156144	105.3926675	103.4187507	101.4923664	99.61207293	97.7764828	95.9842597	94.23411648
ADV1006966	6/12/2024	4.44	6/12/2029	118.1394611	113.913256	109.8655552	105.9878508	102.2720866	98.710631	95.29625289	92.02209811	88.8816679
ADV1006967	6/12/2024	4.643	6/14/2027	109.3409264	107.3170982	105.3415706	103.4128902	101.5296575	99.69052444	97.89419224	96.13940892	94.42496755
ADV1006980	6/13/2024	4.665	6/15/2026	104.3938492	103.409918	102.4446068	101.4973896	100.5677601	99.6552309	98.75933227	97.87961172	97.01563301
ADV1006988	6/13/2024	4.393	6/13/2029	117.9627921	113.7371935	109.6902325	105.8133883	102.0985924	98.53820236	95.12497671	91.85205196	88.71292073
ADV1006989	6/13/2024	4.955	12/15/2025	102.1373395	101.668505	101.2039923	100.7437417	100.2876945	99.83579304	99.38798085	98.94420236	98.50440305
ADV1006999	6/13/2024	4.935	12/15/2025	102.1280043	101.6591955	101.1947083	100.7344831	100.2784611	99.82658467	99.37879733	98.93504354	98.49526877
ADV1007000	6/13/2024	4.793	6/15/2026	104.4496342	103.4663864	102.5017289	101.5551368	100.6261053	99.71414783	98.81879595	97.93959812	97.07611911
ADV1007001	6/13/2024	4.268	6/13/2029	116.8469428	112.8187534	108.960399	105.2637079	101.7209487	98.32480451	95.06834783	91.94501776	88.94859843

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1007016	6/13/2024	4.324	6/13/2028	113.5229615	110.4123787	107.40504	104.496944	101.6842677	98.96335752	96.33072066	93.7830172	91.31705241
ADV1007017	6/13/2024	4.543	8/4/2027	109.8240629	107.6529197	105.5362829	103.4724097	101.4596264	99.49632565	97.58096297	95.71205375	93.88817051
ADV1007019	6/13/2024	4.42	6/14/2027	109.0425721	107.0190944	105.0439688	103.1157391	101.2330029	99.39440962	97.5986579	95.84449345	94.13070712
ADV1007020	6/13/2024	4.251	2/2/2029	116.1222929	112.3044549	108.6355479	105.1089128	101.7182282	98.45749103	95.32099864	92.30333178	89.3993388
ADV1007052	6/14/2024	4.323	6/14/2029	117.6934302	113.4702862	109.4258556	105.5516068	101.8394614	98.2817679	94.87127659	91.6011165	88.46477341
ADV1007060	6/14/2024	4.361	5/21/2029	117.5636001	113.4116807	109.4327332	105.6186301	101.9616687	98.45454668	95.090339	91.8624765	88.76472572
ADV1007061	6/14/2024	4.959	12/15/2025	102.1392066	101.6703669	101.2058491	100.7455934	100.2895412	99.83763472	99.38981755	98.94603412	98.5062299
ADV1007063	6/14/2024	4.804	6/15/2026	104.4603178	103.4770141	102.5123013	101.5656548	100.6365695	99.72455891	98.82915461	97.94990504	97.08637493
ADV1007066	6/14/2024	4.562	6/14/2027	109.1803771	107.158176	105.1842438	103.2571281	101.3754303	99.53780304	97.74294839	95.98961517	94.27659717
ADV1007068	6/18/2024	4.512	11/1/2027	110.9352392	108.5021525	106.1354343	103.8329096	101.5924873	99.41215656	97.28998304	95.2241057	93.2127335
ADV1007075	6/14/2024	4.422	6/14/2027	109.0465392	107.0230212	105.0478561	103.1195877	101.2368135	99.39818304	97.60239478	95.84819447	94.13437295
ADV1007076	6/14/2024	4.562	6/14/2027	109.1803771	107.158176	105.1842438	103.2571281	101.3754303	99.53780304	97.74294839	95.98961517	94.27659717
ADV1007096	6/17/2024	4.852	6/17/2026	104.5342636	103.5449871	102.5745172	101.6223202	100.6878825	99.7707095	98.87032501	97.98627014	97.1181026
ADV1007098	6/17/2024	4.614	6/17/2027	109.3240047	107.2918223	105.308337	103.3720777	101.4816278	99.635623	97.83274905	96.07173939	94.35137313
ADV1007099	6/17/2024	4.522	6/20/2028	113.9838883	110.8513586	107.8232867	104.8956031	102.0644205	99.32602509	96.67686737	94.11355399	91.63283994
ADV1007100	6/17/2024	4.415	6/18/2029	118.1107007	113.8676537	109.8045501	105.9127782	102.1841853	98.6110503	95.18605906	91.90228023	88.75314338
ADV1007107	6/17/2024	4.278	6/18/2029	117.8625692	113.6161528	109.5500881	105.6557338	101.9249096	98.34986899	94.92327398	91.63817114	88.48796947
ADV1007114	6/17/2024	4.74	6/18/2029	115.7645614	112.3398341	109.0512902	105.8925653	102.8576327	99.94078385	97.13660889	94.43997964	91.84603304
ADV1007146	6/18/2024	4.482	6/20/2028	113.8629975	110.7322882	107.7059912	104.7800383	101.950544	99.21379563	96.56624508	94.00450031	91.52531751
ADV1007153	6/20/2024	4.502	2/25/2028	112.4379219	109.6561168	106.9585695	104.3421857	101.8040077	99.34120652	96.95107611	94.63102646	92.37857793
ADV1007157	6/18/2024	4.969	12/18/2025	102.1821568	101.7048859	101.2320911	100.7637094	100.2996792	99.83993974	99.3844315	98.93309607	98.48587611
ADV1007160	6/18/2024	4.638	1/19/2027	107.2912321	105.6995714	104.1398353	102.6111344	101.1126121	99.64344286	98.20283083	96.79000863	95.40423599
ADV1007166	6/18/2024	4.965	12/18/2025	102.1802571	101.7029915	101.2302019	100.7618256	100.2978006	99.83806625	99.38256314	98.93123281	98.48401793
ADV1007167	6/18/2024	4.805	6/18/2026	104.5019864	103.5100916	102.5371064	101.5824928	100.645733	99.72632835	98.82379897	97.93768233	97.06753273
ADV1007168	6/18/2024	4.556	6/18/2027	109.2219265	107.187943	105.2027701	103.2649309	101.3730038	99.52561967	97.72145945	95.9592522	94.23777282
ADV1007173	6/18/2024	4.389	6/20/2034	120.6795455	115.409637	110.467783	105.8299411	101.4740331	97.37977113	93.52849906	89.90304979	86.48761567
ADV1007211	6/20/2024	4.562	9/27/2027	110.5902833	108.2585462	105.9883199	103.7775186	101.6241458	99.52628991	97.48211961	95.48987974	93.5478874
ADV1007218	6/20/2024	4.777	8/20/2026	105.3577985	104.1848627	103.0381719	101.9168507	100.8200623	99.74700624	98.69691664	97.66906031	96.66273503
ADV1007219	6/20/2024	4.682	12/21/2026	106.9579738	105.4483894	103.9680397	102.5161476	101.0919632	99.6947624	98.32384573	96.97853756	95.65818488
ADV1007220	6/20/2024	4.59	6/21/2027	109.3300522	107.2864458	105.2920732	103.3454389	101.4451031	99.58967988	97.77783398	96.00827908	94.27977548
ADV1007227	6/20/2024	4.835	6/22/2026	104.5863857	103.5828953	102.5987432	101.6333732	100.6862503	99.75685982	98.84470616	97.94931208	97.07021785
ADV1007228	6/20/2024	4.588	6/21/2027	109.3260496	107.2824842	105.2881517	103.3415567	101.4412596	99.58587422	97.77406548	96.00454705	94.27607924
ADV1007230	6/20/2024	4.494	6/20/2028	113.8987033	110.7674463	107.7406158	104.8141431	101.9841422	99.24689999	96.59886801	94.03665376	91.55701305

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1007267	6/21/2024	4.49	6/21/2028	113.8993377	110.765191	107.7356604	104.8066662	101.9743118	99.23487442	96.58479632	94.02067636	91.53926221
ADV1007285	12/24/2024	4.775	12/24/2025	102.1637851	101.6699658	101.180933	100.6966171	100.2169499	99.74186473	99.2712959	98.80517912	98.34345129
ADV1007317	6/25/2024	4.989	12/26/2025	102.2948788	101.7951517	101.3003184	100.8103072	100.3250475	99.84447056	99.3685086	98.8970953	98.43016557
ADV1007329	6/25/2024	4.377	6/25/2029	118.0395875	113.7776534	109.6973248	105.7898689	102.0470204	98.460954	95.02425866	91.72991326	88.57126396
ADV1007342	6/25/2024	4.995	12/26/2025	102.2978598	101.7981241	101.3032823	100.8132625	100.3279944	99.84740901	99.37143871	98.90001713	98.43307917
ADV1007351	6/25/2024	4.983	12/26/2025	102.2918977	101.7921793	101.2973546	100.8073519	100.3221007	99.84153212	99.3655785	98.89417348	98.42725197
ADV1007352	6/25/2024	4.827	6/25/2026	104.6193393	103.607307	102.6149342	101.641651	100.6869096	99.75018282	98.83096347	97.92876316	97.04311154
ADV1007353	6/25/2024	4.575	6/25/2027	109.3536834	107.298478	105.2930488	103.3358757	101.4254958	99.56050079	97.73953441	95.9612903	94.22450972
ADV1007378	6/26/2024	4.529	6/26/2030	122.94158	117.514325	112.3666456	107.4825933	102.8472133	98.4464777	94.26722318	90.29709308	86.52448384
ADV1007379	6/26/2024	4.573	6/26/2031	126.8999434	120.3095681	114.1162232	108.293738	102.8178032	97.66582862	92.81681309	88.25122462	83.95089032
ADV1007380	6/26/2024	4.622	6/28/2032	130.6265704	122.8592813	115.6267506	108.8890142	102.6093021	96.75376712	91.29123826	86.19299569	81.43256609
ADV1007385	6/26/2024	4.302	6/26/2029	118.0530378	113.7795477	109.6884863	105.7710662	102.0189716	98.42433015	94.9796869	91.67797973	88.51251659
ADV1007406	6/27/2024	4.515	6/27/2028	114.0503091	110.8966267	107.8487561	104.9025487	102.0540433	99.29945638	96.6351731	94.05773859	91.56385002
ADV1007410	6/27/2024	4.998	12/29/2025	102.3380614	101.8299102	101.326812	100.8286915	100.335475	99.84709041	99.36346689	98.88453502	98.41022671
ADV1007413	6/27/2024	4.827	6/29/2026	104.6742691	103.6507962	102.6474135	101.6635329	100.698589	99.75203812	98.82335736	97.91204331	97.01761141
ADV1007414	6/27/2024	4.997	12/29/2025	102.3375563	101.8294067	101.3263099	100.8281908	100.3349758	99.84659267	99.36297059	98.88404013	98.40973323
ADV1007421	7/1/2024	4.411	6/18/2029	118.0972505	113.8545958	109.7918704	105.9004633	102.1722223	98.59942715	95.17476402	91.89130222	88.74247181
ADV1007425	6/27/2024	4.798	7/31/2026	105.0951872	103.9798944	102.8883702	101.8198595	100.773639	99.74901558	98.74532448	97.76192803	96.79821422
ADV1007426	6/27/2024	4.473	6/28/2027	109.3345591	107.268281	105.2522958	103.28506	101.3650886	99.49095215	97.66127459	95.87473058	94.13004334
ADV1007429	6/27/2024	4.826	6/29/2026	104.6732596	103.6497922	102.6464149	101.6625395	100.6976009	99.75105526	98.82237961	97.91107061	97.01664369
ADV1007447	6/28/2024	4.576	6/28/2027	109.395942	107.3317865	105.3178206	103.3525055	101.4343605	99.5619605	97.73393312	95.94895679	94.20575825
ADV1007449	6/28/2024	4.391	6/28/2029	118.1316101	113.8591358	109.7690582	105.8525891	102.1014119	98.50765374	95.06385912	91.76296575	88.59828149
ADV1007452	6/28/2024	4.403	6/28/2029	118.1802968	113.9068449	109.8158206	105.8984343	102.1463682	98.55174822	95.10711803	91.80541423	88.63994375
ADV1007487	6/28/2024	5.085	9/30/2025	101.197947	100.941627	100.6866024	100.4328635	100.1804005	99.92920398	99.67926437	99.43057229	99.18311846
ADV1007489	6/28/2024	4.799	8/14/2026	105.2961972	104.1405107	103.0103194	101.9047846	100.8231043	99.76451069	98.72826881	97.71367457	96.72005327
ADV1007515	7/1/2024	5.041	1/2/2026	102.4181856	101.8987328	101.3845568	100.8755775	100.3717163	99.8728962	99.37904178	98.89007909	98.40593565
ADV1007518	7/1/2024	5.194	7/1/2025	100.0189221	100.0161383	100.0133569	100.010578	100.0078015	100.0050274	100.0022557	99.99948641	99.99671954
ADV1007520	7/1/2024	5.064	7/1/2025	100.0185656	100.0157806	100.012998	100.0102179	100.0074402	100.0046649	100.0018921	99.99912169	99.99635371
ADV1007522	7/1/2024	4.894	7/1/2026	104.775333	103.7457525	102.7364885	101.7469429	100.7765413	99.82473106	98.89098092	97.97477957	97.07563487
ADV1007541	7/1/2024	5.18	7/1/2025	100.0188678	100.016084	100.0133027	100.0105238	100.0077473	100.0049732	100.0022016	99.99943231	99.99666548
ADV1007585	7/2/2024	4.518	7/2/2029	118.7000666	114.404807	110.2932248	106.3564514	102.5860955	98.97421463	95.51328846	92.19619409	89.01618283
ADV1007586	7/2/2024	4.518	7/2/2029	118.7000666	114.404807	110.2932248	106.3564514	102.5860955	98.97421463	95.51328846	92.19619409	89.01618283
ADV1007610	7/3/2024	4.582	7/6/2027	109.5200533	107.4324012	105.3958965	103.4089558	101.4700563	99.57773283	97.73057536	95.92722645	94.16637891

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1007622	7/3/2024	4.58	7/6/2027	109.5159659	107.4283563	105.3918934	103.4049937	101.4661343	99.57385024	97.7267314	95.92342039	94.16261004
ADV1007623	7/8/2024	4.946	1/8/2026	102.4465686	101.9103765	101.3798141	100.8547928	100.3352259	99.82102867	99.31211782	98.80841196	98.30983136
ADV1007648	7/5/2024	4.367	7/5/2029	117.5263282	113.3689316	109.3898643	105.5804231	101.932381	98.43795757	95.08979284	91.88092144	88.80474937
ADV1007651	7/5/2024	4.224	7/5/2029	117.8441467	113.5491479	109.4385173	105.5033249	101.7351228	98.12591614	94.66813656	91.35461675	88.17856712
ADV1007658	7/5/2024	5.098	7/7/2025	100.0949296	100.0754476	100.0559859	100.0365444	100.0171231	99.99772187	99.97834076	99.95897971	99.93963869
ADV1007660	7/5/2024	4.343	7/6/2029	118.0334859	113.7403223	109.6312868	105.6974665	101.930429	98.3221942	94.86520738	91.55231403	88.37673652
ADV1007673	7/5/2024	4.194	7/5/2029	117.7216453	113.4291196	109.3208841	105.3880119	101.6220579	98.01503035	94.55936337	91.24789227	88.07382993
ADV1007693	7/8/2024	4.357	4/9/2029	117.0511122	113.0290421	109.1701989	105.4670172	101.9123289	98.49933949	95.2216059	92.07301637	89.04777114
ADV1007695	7/8/2024	4.378	1/10/2029	116.0351133	112.2911014	108.6910276	105.2285526	101.897653	98.6926035	95.6079605	92.63854648	89.77943543
ADV1007696	7/8/2024	4.411	9/13/2028	114.6995571	111.3156507	108.0513637	104.9017315	101.8620299	98.92776128	96.09464224	93.35859173	90.71572002
ADV1007702	7/8/2024	4.744	1/8/2026	102.3756743	101.8392483	101.3084612	100.7832239	100.2634497	99.74905335	99.2399515	98.73606248	98.23730633
ADV1007703	7/8/2024	4.366	7/8/2027	109.2520651	107.1588329	105.1170354	103.1250749	101.1814151	99.28457833	97.43314254	95.62573904	93.86104995
ADV1007706	7/8/2024	4.973	7/8/2025	100.1059614	100.0836868	100.0614361	100.0392092	100.0170062	99.99482684	99.97267123	99.95053927	99.92843094
ADV1007707	7/8/2024	4.973	7/8/2025	100.1059614	100.0836868	100.0614361	100.0392092	100.0170062	99.99482684	99.97267123	99.95053927	99.92843094
ADV1007720	7/9/2024	4.76	1/9/2026	102.3968474	101.857582	101.3240152	100.7960566	100.273618	99.75661288	99.24495654	98.73856606	98.2373602
ADV1007722	7/9/2024	4.984	7/9/2025	100.1187807	100.0937222	100.0686912	100.0436878	100.0187118	99.9937632	99.96884197	99.94394804	99.91908137
ADV1007723	7/9/2024	4.593	7/9/2026	104.6495214	103.5971798	102.5660841	101.5555946	100.5650968	99.59400064	98.64173913	97.7077671	96.79156031
ADV1007732	7/9/2024	4.894	1/9/2026	102.4316337	101.8927157	101.3594862	100.8318553	100.3097349	99.79303872	99.28168239	98.77558319	98.27466016
ADV1007736	7/9/2024	4.517	7/9/2027	109.4258681	107.3308628	105.2873208	103.2936432	101.3482927	99.44979038	97.59671324	95.7876916	94.02140667
ADV1007757	7/10/2024	4.96	7/10/2025	100.1306618	100.1028202	100.07501	100.0472312	100.0194836	99.99176728	99.9640821	99.936428	99.90880495
ADV1007761	7/10/2024	4.57	7/10/2026	104.6391091	103.5840264	102.5503022	101.5372915	100.5443753	99.57095871	98.61647043	97.68036119	96.76210282
ADV1007766	7/10/2024	5.108	7/9/2025	100.1917326	100.1655035	100.1393031	100.1131314	100.0869882	100.0608736	100.0347875	100.0087298	99.98270053
ADV1007770	7/10/2024	4.353	7/12/2027	109.2769839	107.1724236	105.1197509	103.1173465	101.1636541	99.25717649	97.39647371	95.58015985	93.80690079
ADV1007771	7/10/2024	4.96	7/10/2025	100.1306618	100.1028202	100.07501	100.0472312	100.0194836	99.99176728	99.9640821	99.936428	99.90880495
ADV1007786	7/11/2024	4.084	7/11/2029	117.3384099	113.0366628	108.9202774	104.9802435	101.2080394	97.59560225	94.13530066	90.81990932	87.64258504
ADV1007787	7/11/2024	4.357	7/12/2027	109.1355849	107.0353369	104.986827	102.9884421	101.0386315	99.13590364	97.27882357	95.46601035	93.69613459
ADV1007788	7/11/2024	4.292	7/11/2028	113.5436972	110.3584057	107.2811123	104.3075358	101.433591	98.65537801	95.96917305	93.37141924	90.85871808
ADV1007789	7/11/2024	4.221	7/11/2029	117.5913193	113.2929742	109.1795688	105.2421243	101.4721476	97.86160248	94.40288253	91.08878547	87.91248956
ADV1007791	7/11/2024	4.996	7/11/2025	100.1426606	100.1120519	100.0814784	100.05094	100.0204367	99.98996835	99.95953493	99.92913636	99.89877259
ADV1007793	7/11/2024	4.233	5/9/2029	116.922727	112.816988	108.8811198	105.1071988	101.4877122	98.01553458	94.68390603	91.48641135	88.41696076
ADV1007797	7/11/2024	4.612	6/30/2026	104.4734787	103.4483286	102.4433597	101.4579797	100.4916193	99.54373109	98.61378835	97.70128439	96.80573137
ADV1007801	7/11/2024	4.829	11/28/2025	101.8644389	101.4434189	101.0258812	100.6117827	100.2010811	99.79373466	99.38970236	98.98894386	98.59141949
ADV1007810	7/12/2024	4.851	7/14/2025	100.1763581	100.1373873	100.0984647	100.0595903	100.020764	99.98198565	99.94325517	99.90457246	99.86593742

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
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ADV1007814	7/12/2024	4.764	1/12/2026	102.3989186	101.8517988	101.3105449	100.7750627	100.2452599	99.72104629	99.2023335	98.68903503	98.18106617
ADV1007817	7/12/2024	4.381	7/9/2027	109.1459846	107.0539137	105.0132477	103.0223895	101.0798032	99.18401152	97.33359305	95.52717951	93.76345348
ADV1007827	7/12/2024	4.093	7/12/2029	117.385965	113.0804275	108.9605016	105.0171604	101.2418667	97.62654311	94.16354495	90.8456344	87.66595671
ADV1007828	7/12/2024	4.233	7/12/2029	117.6512578	113.3488781	109.2316954	105.2907136	101.517424	97.90377561	94.44214846	91.12532759	87.94647948
ADV1007829	7/12/2024	4.234	7/12/2029	117.6553545	113.3528919	109.2356288	105.2945691	101.521204	97.9074826	94.44578458	91.12889499	87.94998022
ADV1007830	7/12/2024	4.234	7/12/2029	117.6553545	113.3528919	109.2356288	105.2945691	101.521204	97.9074826	94.44578458	91.12889499	87.94998022
ADV1007834	7/12/2024	4.965	7/14/2025	100.178789	100.1398365	100.1009321	100.0620755	100.0232668	99.98450586	99.94579252	99.90712671	99.86850836
ADV1007857	7/15/2024	4.945	7/15/2025	100.1903104	100.1485775	100.1068971	100.0652692	100.0236936	99.98217038	99.94069931	99.89928031	99.85791327
ADV1007865	7/15/2024	4.703	1/15/2026	102.4029256	101.8474777	101.2980757	100.7546209	100.2170169	99.68516926	99.1589857	98.6383758	98.12325108
ADV1007874	7/15/2024	4.332	7/15/2027	109.1215603	107.0131669	104.9568455	102.9509671	100.9939657	99.08433554	97.22062826	95.40145014	93.62545972
ADV1007889	7/15/2024	4.252	3/12/2027	107.4981782	105.75183	104.042619	102.369425	100.7311735	99.12683286	97.55541231	96.01595993	94.50756064
ADV1007906	7/16/2024	4.081	7/16/2029	117.3807592	113.0640261	108.9337817	104.9809371	101.1968973	97.57353156	94.10314571	90.77845602	87.59256511
ADV1007913	7/16/2024	4.594	1/16/2026	102.3930753	101.8344158	101.2818736	100.7353483	100.1947418	99.65995799	99.13090289	98.60748452	98.08961288
ADV1007923	7/16/2024	4.075	7/16/2029	117.3560765	113.0398455	108.9100871	104.9577132	101.1741295	97.55120573	94.08124829	90.75697397	87.5714859
ADV1007924	7/16/2024	4.075	7/16/2029	117.3560765	113.0398455	108.9100871	104.9577132	101.1741295	97.55120573	94.08124829	90.75697397	87.5714859
ADV1007925	7/16/2024	4.545	7/16/2026	104.6187626	103.5481027	102.499443	101.4721092	100.4654543	99.4788574	98.51172207	97.56347549	96.63356709
ADV1007926	7/16/2024	4.942	7/16/2025	100.202493	100.1579791	100.1135224	100.069123	100.0247806	99.98049528	99.93626679	99.89209505	99.84797995
ADV1007927	7/16/2024	4.54	7/16/2026	104.6134771	103.5428471	102.4942169	101.4669122	100.460286	99.47371728	98.50660983	97.55839074	96.62850946
ADV1007928	7/16/2024	4.295	1/18/2028	111.3935115	108.7361012	106.1569064	103.6531499	101.2221716	98.8614229	96.56846106	94.34094423	92.17662644
ADV1007938	7/16/2024	4.927	7/16/2025	100.2018186	100.1573052	100.1128491	100.0684502	100.0241084	99.97982363	99.93559569	99.8914245	99.84730995
ADV1007939	7/16/2024	4.527	7/16/2026	104.5997345	103.5291824	102.4806289	101.4533998	100.4468481	99.46035296	98.49331799	97.54517039	96.61535964
ADV1007941	7/16/2024	4.12	7/17/2028	113.3111204	110.1073008	107.0126828	104.0229139	101.133842	98.3415047	95.64211974	93.03207525	90.50792117
ADV1007944	7/16/2024	4.512	7/16/2026	104.5838778	103.5134155	102.4649505	101.4378086	100.431343	99.44493259	98.47798126	97.52991615	96.60018676
ADV1007957	7/17/2024	4.221	7/19/2027	109.0919936	106.9700117	104.900668	102.8823068	100.9133371	98.99222912	97.11751212	95.28777106	93.5016443
ADV1008000	7/23/2024	4.195	7/2/2029	117.3823474	113.1135417	109.02758	105.1156268	101.3693227	97.78075498	94.34243223	91.04725889	87.88851242
ADV1008001	7/18/2024	4.526	7/20/2026	104.6516245	103.5696192	102.5100738	101.4722932	100.4556105	99.4593858	98.48300506	97.5258785	96.58743956
ADV1008006	7/18/2024	4.957	7/18/2025	100.2278563	100.1777801	100.1277711	100.0778293	100.0279544	99.97814642	99.92840512	99.87873038	99.82912207
ADV1008009	7/18/2024	4.713	1/20/2026	102.4703803	101.900885	101.3377395	100.7808377	100.2300758	99.68535262	99.14656885	98.61362755	98.08643379
ADV1008011	7/18/2024	4.532	7/20/2026	104.6580333	103.5759913	102.5164099	101.4785937	100.4618759	99.46561663	98.48920179	97.53204161	96.5935695
ADV1008031	7/19/2024	4.252	7/19/2027	109.1558556	107.0331933	104.9631832	102.944169	100.9745593	99.05282409	97.17749217	95.34714819	93.56043015
ADV1008032	7/19/2024	4.839	7/21/2025	100.2610653	100.2026197	100.1442579	100.0859796	100.0277847	99.96967283	99.91164396	99.85369788	99.79583438
ADV1008041	7/19/2024	4.968	7/21/2025	100.2655349	100.2071167	100.1487818	100.0905301	100.0323613	99.97427525	99.91627183	99.85835082	99.80051205
ADV1008042	7/19/2024	4.77	1/20/2026	102.5021214	101.9325218	101.3692729	100.8122685	100.261405	99.71658097	99.17769726	98.64465685	98.11736481

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1008099	7/23/2024	4.563	7/23/2026	104.7305573	103.6397168	102.5716879	101.5257593	100.501249	99.49750289	98.51389319	97.54981726	96.60469633
ADV1008100	7/23/2024	4.955	7/23/2025	100.2894505	100.2254727	100.1615897	100.0978012	100.0341071	99.9705072	99.90700122	99.84358898	99.78027026
ADV1008102	7/23/2024	4.373	7/23/2027	109.3076366	107.1751834	105.0957455	103.0676492	101.089287	99.15911332	97.27564243	95.43744522	93.64314668
ADV1008103	7/23/2024	4.746	1/23/2026	102.5259208	101.9479353	101.3764844	100.8114574	100.2527464	99.70024552	99.15385151	98.61346329	98.07898205
ADV1008104	7/23/2024	4.563	7/23/2026	104.7305573	103.6397168	102.5716879	101.5257593	100.501249	99.49750289	98.51389319	97.54981726	96.60469633
ADV1008109	7/23/2024	4.252	7/23/2029	116.8568819	112.7578039	108.8349442	105.0796526	101.4837559	98.0395287	94.73966602	91.5772579	88.54576557
ADV1008134	7/24/2024	4.357	7/24/2026	104.5977759	103.5037862	102.4327537	101.3839604	100.3567177	99.35036539	98.36426991	97.39782316	96.45044114
ADV1008145	7/24/2024	4.328	7/26/2027	109.2515104	107.1113841	105.0246017	102.9894738	101.0043776	99.06775351	97.1781022	95.33398188	93.53400556
ADV1008146	7/24/2024	4.302	11/29/2027	110.792422	108.281117	105.840395	103.4678721	101.1612595	98.91835905	96.73705894	94.61532996	92.55122166
ADV1008164	7/25/2024	4.773	10/24/2025	101.4074892	101.0843724	100.7633236	100.4443231	100.127351	99.81238821	99.49941544	99.18841385	98.87936479
ADV1008166	7/25/2024	4.782	7/25/2025	100.3057725	100.2362047	100.1667442	100.0973908	100.0281442	99.95900417	99.88997051	99.82104293	99.75222119
ADV1008182	7/25/2024	4.912	7/25/2025	100.3111354	100.2416005	100.1721723	100.1028509	100.0336358	99.96452679	99.89552371	99.82662629	99.75783428
ADV1008183	7/25/2024	4.912	7/25/2025	100.3111354	100.2416005	100.1721723	100.1028509	100.0336358	99.96452679	99.89552371	99.82662629	99.75783428
ADV1008184	7/25/2024	4.912	7/25/2025	100.3111354	100.2416005	100.1721723	100.1028509	100.0336358	99.96452679	99.89552371	99.82662629	99.75783428
ADV1008185	7/25/2024	4.918	7/25/2025	100.3115531	100.2420178	100.1725893	100.1032675	100.034052	99.96494272	99.8959393	99.82704153	99.75824918
ADV1008186	7/25/2024	4.918	7/25/2025	100.3115531	100.2420178	100.1725893	100.1032675	100.034052	99.96494272	99.8959393	99.82704153	99.75824918
ADV1008192	7/25/2024	4.92	7/25/2025	100.3116923	100.2421569	100.1727283	100.1034064	100.0341908	99.96508136	99.89607783	99.82717995	99.75838748
ADV1008195	7/25/2024	4.41	7/26/2027	109.4234263	107.2814577	105.1928702	103.1559734	101.1691432	99.23081905	97.3395008	95.49374567	93.69216579
ADV1008196	7/25/2024	4.232	7/26/2027	109.2020856	107.0595727	104.9705181	102.9332272	100.9460723	99.00748915	97.11597407	95.27008111	93.46841932
ADV1008198	7/25/2024	4.133	7/25/2029	117.6943343	113.3457809	109.1859091	105.2054807	101.395762	97.74849391	94.25586267	90.91047369	87.70532648
ADV1008199	7/25/2024	4.931	7/25/2025	100.312458	100.2429219	100.1734927	100.1041701	100.034954	99.96584389	99.89683973	99.82794122	99.75914813
ADV1008208	7/26/2024	4.678	1/26/2026	102.5231542	101.9368983	101.357361	100.7844273	100.2179844	99.65792246	99.10413391	98.55651361	98.01495878
ADV1008214	7/26/2024	4.775	7/28/2025	100.3412658	100.2633561	100.185573	100.1079163	100.0303857	99.95298078	99.87570134	99.79854706	99.72151761
ADV1008216	7/26/2024	4.284	7/26/2029	116.8732718	112.7379318	108.7813313	104.994668	101.3696265	97.89834796	94.57340252	91.387763	88.33478067
ADV1008218	7/26/2024	4.53	7/26/2033	133.3848403	124.3938559	116.1034435	108.4547102	101.3940233	94.87251436	88.84563242	83.2727412	78.11675582
ADV1008219	7/26/2024	4.588	7/26/2035	139.7632903	128.4362119	118.1757814	108.8743063	100.4355484	92.77344937	85.81100356	79.47926158	73.71644794
ADV1008220	7/26/2024	4.464	7/26/2032	129.7502725	121.9343005	114.6619785	107.8922937	101.5875419	95.71304415	90.23688857	85.12969579	80.3644053
ADV1008221	7/26/2024	4.2	7/26/2029	117.6705794	113.328365	109.1744405	105.1995912	101.3951054	97.75274465	94.2647145	90.92363849	87.72253317
ADV1008223	7/26/2024	4.252	7/26/2028	113.595462	110.3674721	107.2500014	104.2386213	101.3291087	98.51743473	95.79975456	93.17239792	90.63185991
ADV1008224	7/26/2024	4.252	7/26/2028	113.595462	110.3674721	107.2500014	104.2386213	101.3291087	98.51743473	95.79975456	93.17239792	90.63185991
ADV1008225	7/26/2024	4.588	7/26/2035	139.7632903	128.4362119	118.1757814	108.8743063	100.4355484	92.77344937	85.81100356	79.47926158	73.71644794
ADV1008226	7/26/2024	4.2	7/26/2029	117.6705794	113.328365	109.1744405	105.1995912	101.3951054	97.75274465	94.2647145	90.92363849	87.72253317
ADV1008228	7/26/2024	4.498	7/26/2034	127.6666272	120.2144334	113.3362421	106.9822046	101.1071599	95.67016476	90.63407418	85.96516578	81.63280335

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1008229	7/26/2024	4.903	7/28/2025	100.347099	100.2692265	100.1914802	100.1138597	100.0363648	99.95899509	99.88175035	99.80463026	99.72763453
ADV1008231	7/26/2024	4.099	11/26/2029	118.9210969	114.1910684	109.6806053	105.3783438	101.2735673	97.3561661	93.61660003	90.04586331	86.63545192
ADV1008232	7/26/2024	4.673	1/26/2026	102.5202409	101.9339947	101.354467	100.7815427	100.2151093	99.65505669	99.10127742	98.55366632	98.01212062
ADV1008233	7/26/2024	4.475	7/27/2026	104.6877205	103.5859757	102.5075002	101.4515613	100.417457	99.40451419	98.41208716	97.43955625	96.48632655
ADV1008245	7/29/2024	4.292	7/29/2027	109.2129454	107.0649548	104.9706428	102.9283039	100.9362998	98.99305664	97.09706135	95.24685928	93.44105126
ADV1008247	7/29/2024	4.465	7/29/2026	104.7029913	103.5955725	102.5116561	101.4504988	100.4113884	99.3936419	98.39660462	97.41964823	96.46216962
ADV1008249	7/29/2024	4.664	1/29/2026	102.5518868	101.9572223	101.3694634	100.7884902	100.2141855	99.6464351	99.08512702	98.53015202	97.98140328
ADV1008250	7/29/2024	4.466	7/29/2026	104.7040839	103.5966588	102.5127362	101.4515727	100.4124561	99.39470361	98.3976604	97.42069817	96.4632138
ADV1008251	7/29/2024	4.752	7/29/2026	102.6302288	102.0363312	101.4512225	100.8746855	100.3065106	99.74649548	99.19444453	98.65016886	98.11348586
ADV1008257	7/29/2024	4.184	7/30/2029	117.6488492	113.2958216	109.1319545	105.1479705	101.3351004	97.68505209	94.18998165	90.84246665	87.63548102
ADV1008260	7/29/2024	4.444	7/29/2032	129.632714	121.812407	114.5366578	107.7643437	101.4576628	95.58184924	90.10491397	84.99740895	80.23221268
ADV1008263	7/31/2024	4.308	5/25/2027	108.4187189	106.4603325	104.547489	102.6788545	100.8531434	99.06911564	97.32557526	95.62136833	93.95538121
ADV1008275	7/30/2024	4.123	7/31/2028	113.4819162	110.2362796	107.1022643	104.0753771	101.1513344	98.3260504	95.59562729	92.95634488	90.4046515
ADV1008283	11/1/2024	4.589	10/31/2025	101.4686371	101.113695	100.7611521	100.4109842	100.0631674	99.71767823	99.37449341	99.03359001	98.69494541
ADV1008320	7/31/2024	4.126	7/30/2027	109.0280544	106.8763645	104.7785524	102.7329025	100.7377675	98.79156459	96.89277263	95.03992913	93.23162755
ADV1008323	7/31/2024	4.191	7/31/2028	113.4632632	110.2233827	107.0948071	104.0730606	101.1538752	98.33318046	95.60709268	92.97190506	90.42407855
ADV1008348	8/1/2024	4.031	2/1/2029	115.036086	111.2480938	107.6078048	104.1086215	100.7442805	97.50883336	94.39662898	91.40229668	88.52073063
ADV1008352	8/1/2024	4.511	2/2/2026	102.5142386	101.9086465	101.3102173	100.7188242	100.1343437	99.55665506	98.98564021	98.42118394	97.86317365
ADV1008361	8/1/2024	4.307	8/3/2026	104.5991136	103.478369	102.3817124	101.3083725	100.2576104	99.22871831	98.22101764	97.23385772	96.26661426
ADV1008371	11/15/2024	4.35	11/14/2025	101.538831	101.1446268	100.7534064	100.3651358	99.97978165	99.59731109	99.21769172	98.84089166	98.46687949
ADV1008374	8/1/2024	4.355	2/2/2026	102.4618404	101.8559015	101.2571373	100.6654209	100.0806281	99.50263793	98.93133206	98.36659493	97.80831363
ADV1008382	8/2/2024	4.49	8/4/2025	100.3986806	100.3013692	100.2042533	100.1073321	100.0106051	99.91407175	99.8177314	99.72158344	99.6256273
ADV1008387	8/2/2024	3.946	8/3/2026	104.2771626	103.1571448	102.0612309	100.988648	99.93865633	98.9105468	97.90363991	96.917284	95.95085388
ADV1008388	8/2/2024	4.208	2/2/2026	102.33134	101.726362	101.1285418	100.5377528	99.95387133	99.37677676	98.80635119	98.24247943	97.68504894
ADV1008389	8/2/2024	3.794	8/2/2029	116.0657462	111.7368459	107.596732	103.6361213	99.8462404	96.2187942	92.74593714	89.42024618	86.23469563
ADV1008391	8/2/2024	3.99	9/16/2026	104.776946	103.5321972	102.3171027	101.1306105	99.97171802	98.83946896	97.73295086	96.65129253	95.59366177
ADV1008394	8/2/2024	4.446	8/4/2025	100.3943577	100.2970502	100.1999381	100.1030208	100.0062978	99.90976826	99.81343177	99.71728768	99.62133539
ADV1008396	8/2/2024	3.86	8/2/2028	112.4522439	109.2226833	106.1043576	103.0927844	100.1836905	97.37300037	94.65682613	92.03145727	89.49335152
ADV1008398	8/2/2024	3.791	8/2/2029	116.053279	111.7246348	107.5847687	103.624398	99.83474949	96.20752846	92.7348896	89.40941016	86.22406469
ADV1008399	8/2/2024	4.399	8/4/2025	100.3949007	100.2975395	100.2003744	100.1034048	100.00663	99.91004957	99.81366276	99.71746901	99.62146771
ADV1008404	8/2/2024	3.886	8/2/2027	108.4074542	106.2571482	104.1608065	102.1167064	100.1231937	98.1786793	96.28163609	94.43059612	92.62414775
ADV1008405	8/2/2024	4.049	8/3/2026	104.3132016	103.194134	102.0991294	101.0274171	99.97825876	98.95094717	97.94480435	96.95918013	95.99345075
ADV1008406	8/2/2024	4.505	8/4/2025	100.4001544	100.3028416	100.2057243	100.1088018	100.0120735	99.91553885	99.81919718	99.72304791	99.62709046

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1008407	8/2/2024	3.891	8/2/2027	108.4180486	106.2676283	104.1711747	102.1269649	100.1333446	98.18872473	96.29157811	94.44043673	92.63388888
ADV1008410	8/2/2024	3.883	8/2/2027	108.4010976	106.2508601	104.1545856	102.1105514	100.1171032	98.17265205	96.27567088	94.42469176	92.61830307
ADV1008411	8/2/2024	3.804	8/2/2029	116.1073033	111.7775497	107.6366096	103.6751991	99.88454345	96.25634668	92.78276227	89.45636627	86.27013211
ADV1008413	8/2/2024	4.029	8/3/2026	104.2910503	103.1721134	102.0772376	101.005652	99.95661867	98.92943021	97.92340874	96.93790413	95.97229268
ADV1008416	8/2/2024	3.874	8/2/2027	108.3820276	106.2319958	104.1359228	102.0920862	100.0988316	98.15457028	96.25777524	94.40697866	92.60076904
ADV1008417	8/2/2024	3.857	8/2/2028	112.4428285	109.2134156	106.0952337	103.0838006	100.1748432	97.36428623	94.64824177	92.02299947	89.48501717
ADV1008418	8/2/2024	3.791	8/2/2029	116.053279	111.7246348	107.5847687	103.624398	99.83474949	96.20752846	92.7348896	89.40941016	86.22406469
ADV1008419	8/2/2024	3.865	8/2/2027	108.3629577	106.2131315	104.1172601	102.073621	100.08056	98.13648851	96.2398796	94.38926557	92.583235
ADV1008420	8/2/2024	4.48	8/4/2025	100.3976981	100.3003876	100.2032725	100.1063523	100.0096262	99.91309369	99.81675421	99.72060713	99.62465187
ADV1008424	8/2/2024	3.748	8/2/2028	112.3314568	109.0983234	105.9766839	102.962041	100.050107	97.23679342	94.51819969	91.89060359	89.35045184
ADV1008425	8/2/2024	4.221	2/2/2026	102.3391797	101.734175	101.1363282	100.5455129	99.96160533	99.3844849	98.81403367	98.25013646	97.69268073
ADV1008426	8/2/2024	3.679	8/2/2029	115.898201	111.564047	107.419171	103.4542552	99.66049408	96.02956264	92.55358757	89.22511998	86.03711011
ADV1008432	8/5/2024	3.693	8/5/2027	108.0305724	105.8760767	103.7758138	101.7280464	99.73110652	97.78339215	95.88336415	94.02954315	92.22050679
ADV1008438	8/5/2024	4.458	8/12/2025	100.4851226	100.3655568	100.2462911	100.1273244	100.0086554	99.89028296	99.77220597	99.65442326	99.53693367
ADV1008441	8/5/2024	3.734	8/6/2029	115.8551035	111.5192971	107.3730322	103.4069674	99.61227484	95.98060966	92.50408014	89.17522067	85.98696617
ADV1008442	8/5/2024	3.826	8/7/2028	112.3980787	109.1554308	106.0248493	103.0018018	100.0819683	97.2612296	94.53565688	91.90150135	89.35518491
ADV1008443	8/5/2024	3.838	9/7/2027	108.7144526	106.4610641	104.2660716	102.1275367	100.0436022	98.01248755	96.03248506	94.10195642	92.21932909
ADV1008444	8/5/2024	3.836	10/5/2027	109.0319021	106.6959133	104.4221301	102.2084487	100.0528545	97.95341732	95.90828712	93.91568996	91.9739241
ADV1008448	8/5/2024	3.892	8/5/2027	108.4538538	106.2947749	104.1900213	102.137853	100.1365994	98.18465599	96.28048132	94.4225937	92.60956852
ADV1008449	8/5/2024	3.821	8/6/2029	116.2176038	111.8743333	107.7208437	103.7477838	99.94631679	96.30808882	92.82519988	89.4901764	86.29594571
ADV1008450	8/5/2024	3.892	8/5/2027	108.4538538	106.2947749	104.1900213	102.137853	100.1365994	98.18465599	96.28048132	94.4225937	92.60956852
ADV1008451	8/5/2024	4.008	8/5/2031	123.7827211	117.1727354	110.9686306	105.1431994	99.67120176	94.52921255	89.69548128	85.14980386	80.87340467
ADV1008452	8/5/2024	3.976	8/5/2026	104.3340427	103.2080855	102.1064805	101.0284431	99.97322197	98.94009757	97.92838029	96.937409	95.96654954
ADV1008462	8/7/2024	3.893	8/2/2027	108.4215474	106.2710845	104.1745886	102.1303369	100.1366751	98.19201394	96.29482641	94.44364444	92.63705632
ADV1008468	8/5/2024	4.047	8/5/2026	104.3346089	103.209819	102.109337	101.0323801	99.978199	98.94607587	97.93532279	96.94528019	95.97531544
ADV1008469	8/5/2024	4.42	8/5/2025	100.4074647	100.3073022	100.2073483	100.1076026	100.0080642	99.90873249	99.80960683	99.71068652	99.6119709
ADV1008471	8/5/2024	4.406	8/5/2025	100.406053	100.3058918	100.2059393	100.1061949	100.0066578	99.90732749	99.80820316	99.70928419	99.61056991
ADV1008472	8/5/2024	3.867	8/5/2027	108.4006778	106.2421747	104.1379852	102.0863698	100.085658	98.13424596	96.23059223	94.37321549	92.56069142
ADV1008476	8/5/2024	4.474	8/5/2025	100.4076002	100.3074921	100.2075921	100.1078994	100.0084133	99.9091333	99.81005861	99.71118859	99.6125226
ADV1008502	8/6/2024	4.121	8/6/2026	104.4293661	103.3012186	102.1975092	101.1174491	100.0602831	99.02528788	98.01177044	97.01906629	96.04653818
ADV1008503	10/4/2024	3.864	10/4/2027	109.0849698	106.7511147	104.4793443	102.2675562	100.1137373	98.01595943	95.97237443	93.98121053	92.04076829
ADV1008505	8/6/2024	4.334	2/6/2026	102.4527304	101.8362598	101.2272201	100.6254773	100.0309006	99.44336253	98.86273833	98.28890635	97.72174773
ADV1008506	10/4/2024	3.867	10/4/2027	109.091852	106.7579168	104.486068	102.2742032	100.1203092	98.02245773	95.97880061	93.98756606	92.04705458

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1008508	8/6/2024	4.559	8/6/2025	100.4277543	100.3248517	100.2221698	100.119708	100.0174655	99.91544144	99.81363526	99.71204617	99.61067344
ADV1008509	8/6/2024	4.127	8/6/2026	104.4360603	103.307873	102.2041244	101.1240256	100.0668216	99.03178892	98.01823455	97.025494	96.05293
ADV1008510	8/6/2024	3.806	8/6/2029	116.4671128	112.1099599	107.943359	103.9579126	100.1447409	96.49544993	93.00210201	89.65718831	86.45360317
ADV1008511	8/6/2024	3.955	8/6/2027	108.5995082	106.4360939	104.3271541	102.2709423	100.2657816	98.3100617	96.40223538	94.54081572	92.7243731
ADV1008512	8/6/2024	3.806	8/6/2029	116.4671128	112.1099599	107.943359	103.9579126	100.1447409	96.49544993	93.00210201	89.65718831	86.45360317
ADV1008517	8/6/2024	4.462	8/6/2025	100.423162	100.3202078	100.217475	100.114963	100.0126709	99.91059816	99.80874391	99.70710744	99.60568802
ADV1008522	8/6/2024	4.109	8/7/2026	104.4283457	103.2974084	102.1910311	101.1084189	100.0488112	99.01147931	97.99572521	97.00087973	96.02630117
ADV1008523	8/6/2024	3.939	8/6/2027	108.5654309	106.4023861	104.2938084	102.2379513	100.2331383	98.27775928	96.3702672	94.50917533	92.69305422
ADV1008531	8/7/2024	4.353	2/9/2026	102.4992274	101.8743013	101.257011	100.647217	100.0447831	99.44957646	98.86146727	98.28032894	97.70603783
ADV1008545	8/7/2024	4.577	8/7/2025	100.4412522	100.3355608	100.230103	100.124878	100.0198851	99.91512344	99.81059218	99.70629056	99.60221778
ADV1008546	8/7/2024	4.17	8/7/2026	104.4965724	103.3652284	102.2584506	101.175444	100.1154476	99.07773288	98.06160148	97.06638416	96.09143907
ADV1008547	8/7/2024	3.99	8/9/2027	108.7092928	106.5364256	104.4184096	102.3534805	100.3399445	98.37617562	96.46061163	94.59175147	92.76815219
ADV1008557	8/7/2024	4.096	8/7/2026	104.4138056	103.282955	102.176663	101.0941349	100.03461	98.9973597	97.981686	96.98691977	96.01241933
ADV1008570	8/8/2024	3.887	8/8/2029	116.8259547	112.455748	108.2767821	104.2796175	100.4553351	96.79550445	93.29215383	89.93774264	86.72513557
ADV1008577	8/8/2024	4.076	8/10/2026	104.5075944	103.366623	102.2506301	101.158801	100.0903558	99.04454813	98.02066306	97.01801546	96.03594854
ADV1008595	8/9/2024	3.986	8/9/2027	108.7004408	106.527654	104.4097169	102.3448652	100.3314054	98.36771123	96.4522207	94.58343274	92.75990439
ADV1008596	8/9/2024	4.59	8/11/2025	100.4889712	100.3721548	100.2556249	100.1393805	100.0234205	99.90774383	99.79234934	99.67723599	99.56240271
ADV1008597	8/9/2024	4.591	8/11/2025	100.4890887	100.3722721	100.2557421	100.1394976	100.0235375	99.90786064	99.79246603	99.67735255	99.56251915
ADV1008598	8/9/2024	4.551	9/19/2025	100.9367871	100.711378	100.4869882	100.2636109	100.041239	99.81986585	99.59948454	99.3800884	99.16167076
ADV1008612	8/12/2024	4.364	2/12/2026	102.5398311	101.9064492	101.2809097	100.6630673	100.0527803	99.44991043	98.8543228	98.2658858	97.68447098
ADV1008616	8/12/2024	4.385	8/12/2026	102.4659375	101.871552	101.2862931	100.7099268	100.1422273	99.58297724	99.0319666	98.48899286	97.95386051
ADV1008617	8/12/2024	4.497	8/12/2025	100.4949523	100.3752871	100.2559229	100.1368588	100.0180934	99.89962554	99.78145411	99.66357793	99.54599584
ADV1008618	8/12/2024	4.287	2/12/2026	102.5351041	101.9011836	101.2751198	100.6567669	100.045983	99.44262937	98.8465707	98.25767504	97.67581355
ADV1008646	8/13/2024	3.838	8/13/2029	116.3584095	111.9925551	107.8181468	103.8257166	100.0063192	96.35150059	92.85326765	89.5040606	86.29672675
ADV1008647	8/13/2024	3.885	8/13/2027	108.5295775	106.3476294	104.2209656	102.1478	100.1264184	98.15517545	96.23249071	94.35684595	92.52678201
ADV1008648	8/15/2024	3.881	8/16/2027	108.5551675	106.3646783	104.2298349	102.1488334	100.1199434	98.14150386	96.21191975	94.32965904	92.49324951
ADV1008666	8/14/2024	4.249	2/17/2026	102.5239544	101.8768037	101.2378394	100.6069067	99.98385458	99.36853574	98.76080663	98.1605272	97.56756085
ADV1008670	8/14/2024	4.054	8/14/2026	104.4512534	103.3006253	102.1754158	101.0747881	99.99794203	98.94411156	97.91256344	96.90259528	95.91353396
ADV1008677	8/14/2024	4.411	8/14/2025	100.5072713	100.3820388	100.2571352	100.1325592	100.0083094	99.88438451	99.76078317	99.63750408	99.51454592
ADV1008678	8/14/2024	4.496	8/14/2025	100.5094678	100.3843208	100.2595015	100.1350086	100.0108407	99.88699651	99.76347474	99.64027407	99.51739321
ADV1008686	8/14/2024	3.893	8/16/2027	108.5812023	106.3904332	104.2553152	102.1740448	100.144891	98.16619273	96.23635491	94.35384533	92.51719162
ADV1008713	8/15/2024	3.965	8/15/2029	116.2923753	112.0635466	108.0202579	104.153246	100.4537671	96.91356513	93.52484045	90.28022224	87.17274204
ADV1008716	8/15/2024	4.461	12/18/2025	101.9414074	101.4648235	100.9927108	100.5250065	100.0616488	99.60257723	99.14773222	98.69705545	98.25048961

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1008717	8/15/2024	4.437	1/15/2026	102.2559171	101.7009367	101.1519985	100.609004	100.0718566	99.54046213	99.01472822	98.49456452	97.97988261
ADV1008720	8/15/2024	4.228	8/17/2026	104.6871275	103.5266957	102.3920737	101.2824059	100.1968744	99.13469655	98.09512341	97.07743769	96.08095223
ADV1008766	8/26/2024	4.144	8/26/2026	104.7009996	103.515352	102.3566314	101.223927	100.1163686	99.03312446	97.97339936	96.93643227	95.92149476
ADV1008768	8/26/2024	3.971	8/26/2027	108.8643185	106.6428739	104.4783402	102.3688535	100.3126263	98.30794394	96.35316084	94.44669712	92.58703541
ADV1008771	8/19/2024	3.982	8/19/2027	108.8073291	106.605802	104.4603343	102.3691032	100.3303603	98.34242741	96.4036937	94.51261189	92.66769543
ADV1008800	8/20/2024	3.845	8/20/2029	116.4578181	112.0702318	107.8757375	103.8647499	100.028216	96.35758152	92.84476082	89.48210812	86.26239111
ADV1008819	8/20/2024	4.106	8/20/2026	104.5834681	103.4152869	102.2732764	101.1565631	100.064312	98.99572449	97.95003641	96.92651625	95.92446341
ADV1008825	8/21/2024	4.509	8/21/2025	100.5924467	100.4477909	100.3035649	100.1597669	100.0163949	99.87344689	99.73092108	99.58881553	99.44712833
ADV1008826	8/21/2024	4.509	8/21/2025	100.5924467	100.4477909	100.3035649	100.1597669	100.0163949	99.87344689	99.73092108	99.58881553	99.44712833
ADV1008827	8/21/2024	4.231	2/23/2026	102.5788629	101.9149143	101.2595727	100.6126712	99.97404731	99.34354282	98.72100338	98.10627859	97.4992218
ADV1008829	8/21/2024	4.056	8/21/2026	104.5379909	103.3672924	102.2228843	101.1038869	100.0094597	98.93879869	97.89113468	96.86573142	95.8618838
ADV1008832	8/21/2024	3.867	8/23/2027	108.6039232	106.3936239	104.239816	102.1406549	100.0943713	98.09926785	96.1537152	94.25614884	92.40506596
ADV1008837	8/21/2024	4.507	8/21/2025	100.5921573	100.4475018	100.3032762	100.1594785	100.0161068	99.87315918	99.73063371	99.58852849	99.44684163
ADV1008842	8/21/2024	4.074	8/21/2026	104.5588128	103.3879861	102.2434518	101.1243303	100.0297808	98.95899932	97.9112167	96.88569658	95.88173383
ADV1008843	8/21/2024	4.244	2/23/2026	102.5874498	101.9234695	101.2680962	100.6211635	99.98250864	99.35197345	98.7294036	98.11464865	97.50756199
ADV1008845	11/21/2024	4.228	8/21/2025	100.5855699	100.4370782	100.2890282	100.1414178	99.99424502	99.8475079	99.70120446	99.55533275	99.40989082
ADV1008846	8/21/2024	4.493	8/21/2025	100.5901313	100.4454782	100.301255	100.1574597	100.0140904	99.87114519	99.72862211	99.58651927	99.44483477
ADV1008861	8/22/2024	4.111	8/24/2026	104.6385743	103.4588872	102.3058722	101.1786311	100.0763055	98.99807479	97.94315422	96.91079269	95.90027113
ADV1008862	8/22/2024	3.953	8/23/2027	108.790962	106.578588	104.4227479	102.321596	100.2733617	98.27634646	96.32891989	94.42951641	92.57663215
ADV1008875	8/22/2024	4.288	2/23/2026	102.61635	101.9522596	101.2967774	100.6497367	100.0109751	99.38033408	98.75765943	98.14280071	97.53561124
ADV1008895	8/23/2024	4.498	8/25/2025	100.6362192	100.4804404	100.325153	100.1703547	100.0160431	99.8622159	99.70887081	99.55600555	99.40361786
ADV1008903	8/23/2024	4.418	8/25/2025	100.6313857	100.4755322	100.3201714	100.1653007	100.0109178	99.85702048	99.70360636	99.55067315	99.39821856
ADV1008905	8/23/2024	3.952	8/24/2026	104.5353948	103.3550967	102.2015097	101.0737336	99.97090818	98.89221105	97.83685573	96.80408957	95.79319201
ADV1008938	8/26/2024	3.994	8/26/2026	104.5254441	103.3408881	102.1832419	101.051595	99.94507771	98.86285876	97.80414323	96.76817052	95.75421261
ADV1008945	8/26/2024	3.761	8/26/2027	108.5633777	106.342193	104.1779858	102.0688882	100.0131087	98.00892914	96.05470062	94.14884006	92.28982711
ADV1008946	8/26/2024	3.841	8/26/2027	108.5803088	106.3620199	104.2005773	102.0941189	100.040859	98.03908488	96.0871525	94.18348362	92.32656244
ADV1008967	8/26/2024	4.397	8/26/2025	100.6385658	100.4799482	100.3218389	100.1642354	100.0071353	99.85053621	99.69443564	99.53883123	99.38372059
ADV1008970	8/26/2024	4.476	8/26/2025	100.6433125	100.4847714	100.3267375	100.1692082	100.0121812	99.85565397	99.6996242	99.54408948	99.38904745
ADV1008974	8/26/2024	4.187	2/26/2026	102.5821364	101.9098965	101.2464745	100.5916979	99.94539822	99.30741159	98.67757828	98.0557426	97.44175283
ADV1009003	8/26/2024	3.951	8/26/2026	104.5577274	103.3717148	102.2126646	101.079664	99.97184103	98.88836229	97.82843087	96.79128429	95.77619271
ADV1009012	8/26/2024	4.489	8/26/2025	100.6453707	100.4868272	100.3287908	100.171259	100.0142295	99.85769984	99.70166762	99.54613045	99.39108597
ADV1009013	8/26/2024	4.034	8/26/2026	104.5722589	103.3874118	102.2294791	101.0975502	99.99075527	98.90826295	97.8492782	96.81304032	95.79882118
ADV1009014	8/26/2024	3.869	8/26/2027	108.6414801	106.4225115	104.2604031	102.1532925	100.0993935	98.09699299	96.1444466	94.24017576	92.38266431

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009023	8/26/2024	4.492	8/26/2025	100.6458457	100.4873016	100.3292646	100.1717323	100.0147022	99.85817197	99.70213918	99.54660144	99.3915564
ADV1009026	8/26/2024	4.206	2/26/2026	102.5948396	101.9225521	101.259083	100.6042597	99.95791378	99.31988134	98.69000261	98.06812194	97.45408759
ADV1009074	8/27/2024	3.885	8/27/2027	108.6878926	106.4656501	104.3003988	102.19027	100.1334719	98.1282856	96.1730617	94.26621665	92.40622967
ADV1009082	8/27/2024	4.187	8/26/2033	130.822619	121.8465383	113.5783176	105.9578391	98.93040702	92.44623126	86.45996282	80.93027551	75.81948912
ADV1009083	8/27/2024	4.027	8/27/2026	104.576209	103.3885409	102.2279124	101.0934067	99.98414819	98.89929995	97.8380617	96.79966784	95.78338559
ADV1009084	8/27/2024	3.811	8/27/2029	116.3842966	111.978588	107.7675074	103.7413569	99.89097906	96.20772321	92.68341445	89.31032446	86.08114445
ADV1009085	8/27/2024	3.854	8/25/2028	112.6764405	109.3792591	106.1973614	103.1260253	100.1607535	97.29726114	94.53146417	91.85946851	89.27755992
ADV1009086	8/27/2024	3.817	8/1/2029	115.201031	111.1228898	107.2211021	103.4869643	99.91225587	96.48920896	93.21048094	90.06912838	87.05858281
ADV1009087	10/1/2024	3.806	10/1/2027	108.9195339	106.5958595	104.3338294	102.1313473	99.98640724	97.89708844	95.8615509	93.87803123	91.94483872
ADV1009092	8/27/2024	4.029	8/27/2026	104.5785553	103.3908726	102.2302296	101.0957098	99.98643735	98.90157538	97.84032361	96.80191643	95.78562106
ADV1009097	8/27/2024	3.831	8/28/2028	112.6348057	109.3299282	106.1408389	103.0627849	100.0912401	97.22189293	94.4506341	91.77354609	89.18689268
ADV1009134	8/28/2024	3.914	8/28/2026	104.5384619	103.3469691	102.1826871	101.0446907	99.93209634	98.84405953	97.77977292	96.73846425	95.7193944
ADV1009139	8/28/2024	3.999	8/28/2026	104.5554263	103.3650912	102.2019188	101.0649859	99.9534113	98.8663524	97.80300383	96.7625951	95.74438882
ADV1009152	8/29/2024	4.198	2/27/2026	102.6005118	101.9254409	101.2592594	100.6017924	99.95286975	99.31232554	98.67999822	98.05573034	97.43936846
ADV1009154	8/29/2024	3.884	8/30/2027	108.7199151	106.4890572	104.3155595	102.1975353	100.133176	98.12074673	96.15858312	94.24508747	92.37872564
ADV1009155	8/29/2024	3.862	8/29/2028	112.7449179	109.4354941	106.242079	103.1599077	100.1844429	97.3113621	94.53654628	91.8560685	89.26618375
ADV1009156	8/29/2024	3.808	8/29/2029	116.3915859	111.9801125	107.7637265	103.7326966	99.87783473	96.19046182	92.6623767	89.2858267	86.0534805
ADV1009168	8/29/2024	4.039	8/31/2026	104.6388304	103.4396083	102.2679321	101.1228599	100.0034924	98.90897032	97.83847232	96.79121296	95.76644071
ADV1009169	8/29/2024	3.827	8/29/2029	116.4719541	112.0588011	107.84079	103.8081874	99.9518029	96.26295557	92.73344226	89.35550851	86.12182122
ADV1009198	8/30/2024	4.425	8/29/2025	100.7296745	100.5561836	100.3832716	100.2109355	100.0391726	99.86798	99.69735479	99.52729419	99.3577954
ADV1009199	8/30/2024	4.049	8/31/2026	104.6505193	103.4512231	102.2794741	101.1343305	100.0148927	98.92030158	97.84973568	96.80240956	95.77757165
ADV1009202	8/30/2024	3.898	8/30/2027	108.7505053	106.5193051	104.3454724	102.2271203	100.1624399	98.14969617	96.18722458	94.27342724	92.40676981
ADV1009206	8/30/2024	4.054	8/31/2026	104.6564402	103.4571067	102.2853211	101.1401414	100.0206682	98.92604211	97.85544183	96.80808184	95.78321058
ADV1009228	9/3/2024	3.768	9/3/2027	108.6737188	106.4290142	104.2423087	102.1116843	100.0353028	98.01140152	96.03828984	94.11434526	92.23801024
ADV1009240	9/3/2024	3.792	9/4/2029	116.388313	111.9598565	107.7278941	103.6825911	99.81466338	96.11534328	92.57634772	89.18984832	85.94844363
ADV1009244	9/3/2024	3.868	9/3/2027	108.7349788	106.4927202	104.3083367	102.1799163	100.1056262	98.08370902	96.11247893	94.19031818	92.31567362
ADV1009248	9/3/2024	3.937	12/16/2026	105.7881577	104.3013214	102.8430467	101.4125808	100.009197	98.63219364	97.2808925	95.95463834	94.65279768
ADV1009249	9/3/2024	3.843	12/15/2027	109.8480801	107.3044835	104.8336706	102.4331394	100.1004892	97.83341624	95.62970905	93.48724418	91.40398208
ADV1009261	9/4/2024	4.365	9/4/2025	100.7290505	100.5454542	100.3625324	100.1802813	99.99869719	99.81777643	99.63751535	99.4579103	99.27895771
ADV1009270	9/4/2024	4.291	9/4/2025	100.724436	100.5407497	100.3577392	100.175401	99.99373107	99.81272591	99.63238178	99.45269503	99.27366204
ADV1009271	9/4/2024	4.291	9/4/2025	100.724436	100.5407497	100.3577392	100.175401	99.99373107	99.81272591	99.63238178	99.45269503	99.27366204
ADV1009291	9/5/2024	3.683	12/5/2028	113.1822107	109.5886141	106.1302167	102.8012068	99.59605459	96.50949656	93.53652134	90.67235619	87.91245432
ADV1009297	9/5/2024	3.631	9/5/2029	116.0311032	111.5982237	107.3624686	103.3139534	99.44334824	95.74184319	92.20111599	88.81330203	85.57096636

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009298	9/5/2024	3.617	9/5/2029	115.9715108	111.5398834	107.3053397	103.2579967	99.38852621	95.68811974	92.14845651	88.76167328	85.52033642
ADV1009305	9/5/2024	3.995	3/5/2026	102.5807872	101.8885747	101.2057168	100.5320246	99.86731413	99.21140645	98.56412732	97.92530704	97.29478038
ADV1009308	9/5/2024	3.871	9/8/2026	104.5365127	103.3155999	102.1232655	100.9585136	99.82039395	98.70799971	97.6204647	96.55696132	95.51669836
ADV1009312	9/5/2024	3.873	9/8/2026	104.5389272	103.3179989	102.1256493	100.9608824	99.82274812	98.71033941	97.62279015	96.55927274	95.51899596
ADV1009314	9/5/2024	3.781	1/5/2028	109.9214033	107.319089	104.792759	102.3397446	99.95748787	97.64353659	95.3955391	93.21123949	91.08847302
ADV1009327	9/6/2024	4.029	3/6/2026	102.5670564	101.8727495	101.1878557	100.5121843	99.84554969	99.18777125	98.53867308	97.89808395	97.26583711
ADV1009332	9/6/2024	4.267	9/8/2025	100.7544694	100.5597552	100.365804	100.1726114	99.98017276	99.78848376	99.5975399	99.4073368	99.21787008
ADV1009336	9/6/2024	3.698	9/8/2026	104.4127731	103.1913433	101.9985317	100.8333403	99.69481674	98.5820523	97.49417904	96.43036766	95.3898254
ADV1009337	9/6/2024	3.786	9/4/2026	104.3881469	103.1793456	101.9985848	100.8448962	99.7173557	98.6150808	97.53722836	96.48299241	95.45160211
ADV1009353	9/9/2024	3.541	9/10/2029	115.6961847	111.2559312	107.0137778	102.9597598	99.08447332	95.37904068	91.83507707	88.44466034	85.20030253
ADV1009354	9/9/2024	3.541	9/10/2029	115.6961847	111.2559312	107.0137778	102.9597598	99.08447332	95.37904068	91.83507707	88.44466034	85.20030253
ADV1009355	9/9/2024	3.541	9/10/2029	115.6961847	111.2559312	107.0137778	102.9597598	99.08447332	95.37904068	91.83507707	88.44466034	85.20030253
ADV1009390	9/10/2024	3.564	9/10/2029	115.4760907	111.0495244	106.8202686	102.778407	98.91458092	95.21995475	91.68618306	88.30538051	85.07009355
ADV1009392	9/10/2024	4.128	10/10/2025	101.061317	100.777536	100.4953607	100.2147773	99.93577223	99.65833212	99.38244373	99.10809396	98.83526988
ADV1009393	9/10/2024	4.128	10/10/2025	101.061317	100.777536	100.4953607	100.2147773	99.93577223	99.65833212	99.38244373	99.10809396	98.83526988
ADV1009394	9/10/2024	3.563	9/10/2029	115.4718266	111.0453501	106.8161812	102.7744036	98.91065888	95.21611147	91.68241605	88.30168738	85.066472
ADV1009395	9/10/2024	4.122	10/10/2025	101.0596137	100.7758359	100.4936638	100.2130835	99.93408151	99.65664451	99.38075921	99.10641253	98.83359151
ADV1009397	9/10/2024	4.2	9/10/2025	100.7622672	100.5619938	100.3625287	100.163867	99.96600371	99.76893403	99.5726531	99.37715611	99.18243832
ADV1009404	9/10/2024	3.947	3/10/2026	102.5529321	101.8476094	101.1520051	100.4659192	99.78915689	99.1215287	98.46285032	97.81294236	97.17163018
ADV1009405	9/10/2024	3.947	3/10/2026	102.5529321	101.8476094	101.1520051	100.4659192	99.78915689	99.1215287	98.46285032	97.81294236	97.17163018
ADV1009406	9/10/2024	3.947	3/10/2026	102.5529321	101.8476094	101.1520051	100.4659192	99.78915689	99.1215287	98.46285032	97.81294236	97.17163018
ADV1009407	9/10/2024	3.95	9/10/2026	104.6552217	103.4279523	102.2295363	101.0589636	99.91527084	98.79753866	97.70488921	96.63648387	95.59152107
ADV1009409	9/10/2024	3.95	9/10/2026	104.6552217	103.4279523	102.2295363	101.0589636	99.91527084	98.79753866	97.70488921	96.63648387	95.59152107
ADV1009418	9/11/2024	4.04	12/11/2025	101.6685493	101.212059	100.7596798	100.3113562	99.86703355	99.42665843	98.99017818	98.55754113	98.12869652
ADV1009420	9/11/2024	3.627	3/11/2027	106.2886492	104.5579157	102.8639412	101.205619	99.58188725	97.99172648	96.4341575	94.90823938	93.41306756
ADV1009421	9/11/2024	3.91	3/11/2026	102.5374457	101.8294174	101.1311837	100.4425423	99.76329591	99.09325304	98.43222719	97.78003691	97.13650559
ADV1009423	9/11/2024	3.892	3/11/2026	102.5740283	101.8652163	101.1662183	100.4768312	99.79685727	99.1261044	98.46438558	97.81151885	97.16732713
ADV1009445	9/12/2024	4.26	9/12/2025	100.7953517	100.5894983	100.3844991	100.1803487	99.97704172	99.77457291	99.572937	99.3721288	99.17214315
ADV1009446	9/12/2024	3.779	9/14/2026	104.492954	103.2555617	102.0475316	100.8678266	99.71545754	98.5894813	97.48899754	96.41314649	95.36110674
ADV1009447	9/12/2024	3.644	9/13/2027	108.349219	106.0829494	103.8757826	101.7257428	99.63093775	97.5895541	95.59985332	93.66016797	91.76889813
ADV1009462	9/12/2024	3.629	9/13/2027	108.3156891	106.0498002	103.8430061	101.6933314	99.59888406	97.55785087	95.56849353	93.62914482	91.73820498
ADV1009463	9/12/2024	3.626	9/12/2028	112.1329998	108.7935986	105.5725245	102.464863	99.46593738	96.57129534	93.77669658	91.07810117	88.47165857
ADV1009481	9/13/2024	4.073	9/13/2034	132.5306566	122.4176315	113.1911139	104.767796	97.07264027	90.03801661	83.6029346	77.7123586	72.31659697

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009482	9/13/2024	4.294	9/13/2039	145.352086	129.6843999	115.9982708	104.0266444	93.5400205	84.34098514	76.25956343	69.14926731	62.88373061
ADV1009483	9/13/2024	4.073	9/15/2025	100.7983635	100.5840823	100.370727	100.1582913	99.94676936	99.73615512	99.52644269	99.31762618	99.1096998
ADV1009485	9/13/2024	4.158	9/15/2025	100.8051016	100.5909338	100.3776899	100.1653638	99.9539495	99.74344108	99.53383265	99.32511836	99.11729244
ADV1009486	9/13/2024	3.937	3/13/2026	102.5775003	101.863785	101.1600199	100.4659977	99.7815167	99.10638071	98.44039897	97.78338588	97.13516081
ADV1009487	9/13/2024	3.722	9/14/2026	104.4232078	103.1862677	101.9786823	100.7994147	99.64747599	98.52192321	97.4218562	96.34641539	95.29477952
ADV1009492	9/13/2024	3.58	9/13/2029	115.5724962	111.1352853	106.8961725	102.8451851	98.97291228	95.27047011	91.72946855	88.34198093	85.10051539
ADV1009493	9/13/2024	3.602	9/13/2028	112.0652139	108.7240557	105.5013825	102.3922692	99.39202919	96.49620107	93.70053601	91.00098614	88.3936935
ADV1009494	9/13/2024	3.577	9/13/2027	108.199452	105.9348828	103.729381	101.580972	99.4877646	97.44794633	95.4597796	93.52159787	91.63180207
ADV1009495	9/13/2024	4.158	9/15/2025	100.8051016	100.5909338	100.3776899	100.1653638	99.9539495	99.74344108	99.53383265	99.32511836	99.11729244
ADV1009496	9/13/2024	3.583	9/13/2027	108.212864	105.9481425	103.7424915	101.5939366	99.50058608	97.46062763	95.47232352	93.53400714	91.64407933
ADV1009502	9/13/2024	3.563	9/13/2027	108.1681574	105.9039435	103.6987896	101.5507214	99.45784783	97.41835665	95.43051047	93.49264293	91.60315514
ADV1009506	9/13/2024	3.587	6/14/2027	107.247839	105.2452235	103.2904959	101.3822147	99.51899172	97.69948982	95.92242058	94.18654219	92.49065744
ADV1009507	9/13/2024	3.566	9/13/2027	108.1748634	105.9105733	103.7053449	101.5572037	99.46425857	97.4246973	95.43678243	93.49884756	91.60929377
ADV1009508	9/13/2024	3.569	12/13/2027	109.1425194	106.6132165	104.1561949	101.768974	99.44917407	97.19451095	95.00279193	92.8719113	90.79984642
ADV1009545	9/16/2024	3.674	9/16/2026	104.3864491	103.1441694	101.9315042	100.7474027	99.59086319	98.46093041	97.35669283	96.27728017	95.22186108
ADV1009546	9/16/2024	3.542	9/16/2027	108.1531961	105.8806627	103.6675835	101.5119643	99.41189523	97.3655465	95.37116411	93.42706607	91.53163874
ADV1009547	9/16/2024	3.57	9/18/2028	112.0116773	108.6571258	105.4219722	102.3012341	99.29017146	96.38427313	93.57924383	90.87099229	88.25562003
ADV1009550	9/16/2024	3.67	9/16/2026	104.3815328	103.1392851	101.9266514	100.7425808	99.58607173	98.45616892	97.35196084	96.27257721	95.21718669
ADV1009552	9/16/2024	3.676	9/16/2026	104.3889073	103.1466116	101.9339307	100.7498137	99.59325891	98.46331115	97.35905883	96.27963166	95.22419827
ADV1009554	9/16/2024	4.127	9/16/2025	100.808605	100.5916589	100.3756602	100.1606027	99.9464802	99.73328651	99.52101552	99.30966118	99.09921749
ADV1009561	9/17/2024	4.119	9/17/2025	100.817154	100.5974269	100.3786711	100.16088	99.94404718	99.72816621	99.5132308	99.29923466	99.08617157
ADV1009579	9/17/2024	3.902	3/24/2026	102.6691532	101.9246746	101.1910072	100.4679163	99.75517422	99.05255965	98.35985756	97.67685899	97.00336082
ADV1009583	9/17/2024	4.14	9/17/2025	100.8217697	100.6020355	100.3832725	100.1654743	99.94863437	99.73274633	99.51780387	99.3038007	99.09073062
ADV1009588	9/17/2024	4.061	9/17/2025	100.8161958	100.5963431	100.3774637	100.159551	99.94259851	99.72659987	99.51154868	99.29743865	99.08426352
ADV1009589	9/17/2024	3.82	3/17/2026	102.5859629	101.8604918	101.1453	100.4401696	99.74488906	99.05925259	98.38306021	97.7161174	97.05823497
ADV1009590	9/17/2024	3.63	9/17/2026	104.4301556	103.1834564	101.9665636	100.7784165	99.61800437	98.48436324	97.37657351	96.29375726	95.23507595
ADV1009591	9/17/2024	3.571	9/17/2029	115.5718347	111.1231555	106.8735381	102.812938	98.93187779	95.22141246	91.6730953	88.27894732	85.03142832
ADV1009601	9/17/2024	4.143	9/17/2025	100.8224291	100.6026939	100.3839299	100.1661306	99.94928969	99.73340064	99.51845716	99.30445299	99.09138191
ADV1009610	9/18/2024	4.149	9/18/2025	100.8341155	100.6115945	100.3900688	100.1695314	99.94997583	99.73139536	99.51378347	99.29713366	99.0814395
ADV1009613	9/18/2024	3.635	9/20/2027	108.4056068	106.1188808	103.8922009	101.7235443	99.61097414	97.55263533	95.5467499	93.5916133	91.68559059
ADV1009619	9/18/2024	4.172	9/18/2025	100.8392337	100.6167048	100.395171	100.1746257	99.9550622	99.73647383	99.51885406	99.3021964	99.08649441
ADV1009620	9/18/2024	3.927	3/18/2026	102.6233109	101.8955844	101.1781978	100.4709314	99.77357173	99.08591144	98.4077488	97.73888767	97.07913732
ADV1009621	9/18/2024	3.762	9/18/2026	104.5170657	103.2683554	102.0495382	100.8595487	99.6973719	98.56203982	97.45262902	96.368258	95.30808489

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009625	9/18/2024	3.596	9/18/2029	115.6883992	111.2343834	106.9797518	102.9144383	99.02894588	95.31431102	91.76207001	88.36422802	85.11323009
ADV1009628	9/18/2024	3.804	3/18/2026	102.5848238	101.85659	101.1387133	100.4309734	99.73315647	99.04505442	98.36646507	97.69719178	97.03704332
ADV1009629	9/18/2024	3.639	9/18/2026	104.4523436	103.2027063	101.9830103	100.7921879	99.62922149	98.49314112	97.38302122	96.2979784	95.23716892
ADV1009631	9/18/2024	3.804	3/18/2026	102.5848238	101.85659	101.1387133	100.4309734	99.73315647	99.04505442	98.36646507	97.69719178	97.03704332
ADV1009637	9/18/2024	4.054	9/18/2025	100.8249183	100.6022829	100.3806446	100.1599968	99.94033267	99.72164562	99.50392904	99.28717641	99.07138126
ADV1009638	9/18/2024	3.651	9/18/2026	104.4671651	103.2174308	101.9976395	100.8067232	99.64366458	98.50749343	97.39728421	96.31215348	95.25125746
ADV1009640	9/18/2024	4.045	9/18/2025	100.8229154	100.600283	100.3786479	100.1580032	99.93834219	99.71965824	99.50194474	99.28519519	99.0694031
ADV1009641	9/18/2024	3.641	9/18/2026	104.4548139	103.2051604	101.9854485	100.7946104	99.63162867	98.49553317	97.38539839	96.30034091	95.23951701
ADV1009656	9/19/2024	4.077	9/19/2025	100.8279578	100.6026915	100.3784442	100.1552089	99.93297887	99.71174712	99.49150691	99.27225152	99.05397428
ADV1009658	9/19/2024	3.859	3/19/2026	102.5841266	101.8538028	101.1338949	100.424181	99.7244453	99.03447804	98.35407539	97.68303915	97.02117653
ADV1009662	9/19/2024	3.613	9/20/2027	108.3555933	106.0694349	103.843311	101.6751993	99.56316309	97.50534763	95.49997528	93.54534177	91.63981243
ADV1009663	9/19/2024	3.613	9/20/2027	108.3555933	106.0694349	103.843311	101.6751993	99.56316309	97.50534763	95.49997528	93.54534177	91.63981243
ADV1009675	9/19/2024	3.692	11/19/2026	105.1208233	103.7131213	102.3312108	100.9744428	99.64219005	98.33384534	97.04882126	95.78654915	94.54647845
ADV1009678	9/19/2024	3.707	10/19/2026	104.7923099	103.4664981	102.1675494	100.894657	99.6470467	98.42397518	97.22472853	96.04862073	94.89499229
ADV1009680	9/19/2024	4.076	9/19/2025	100.8277326	100.6024666	100.3782197	100.1549848	99.93275508	99.71152368	99.49128381	99.27202876	99.05375187
ADV1009688	9/19/2024	3.858	3/19/2026	102.5833996	101.8530787	101.1331737	100.4234627	99.7237298	99.03376536	98.3533655	97.68233202	97.02047214
ADV1009728	9/20/2024	3.503	9/20/2027	108.270277	105.9818628	103.7536074	101.5834821	99.46954485	97.40993533	95.40287087	93.44664239	91.53961069
ADV1009744	9/23/2024	3.597	10/23/2029	116.3462275	111.7702026	107.4031268	103.2343434	99.2537962	95.45199205	91.81996665	88.34925204	85.0318465
ADV1009746	9/23/2024	4.057	9/23/2025	100.8642213	100.6278195	100.3925345	100.1583584	99.92528332	99.6933015	99.46240519	99.23258676	99.00383862
ADV1009752	9/23/2024	3.597	9/23/2027	108.3519571	106.0573477	103.823173	101.6473904	99.52804435	97.46326203	95.451249	93.49028511	91.57872071
ADV1009762	9/23/2024	4.22	7/16/2025	100.2152898	100.1694202	100.1236096	100.0778581	100.0321653	99.9865313	99.94095587	99.89543893	99.84998035
ADV1009763	9/23/2024	4.131	8/20/2025	100.5710812	100.424604	100.2785554	100.1329337	99.9877367	99.8429627	99.69860975	99.55467599	99.41115954
ADV1009764	9/23/2024	4.064	9/19/2025	100.866901	100.6339509	100.4020561	100.1712092	99.9414032	99.71263097	99.4848855	99.25815981	99.032447
ADV1009770	9/23/2024	3.596	9/23/2027	108.3496942	106.0551108	103.8209617	101.645204	99.52588232	97.46112392	95.44913432	93.48819339	91.57665151
ADV1009789	9/24/2024	3.584	9/24/2027	108.3332708	106.0360474	103.7993882	101.6212439	99.49965267	97.43273589	95.41869356	93.45580035	91.54240171
ADV1009792	9/24/2024	4.101	8/25/2025	100.6177508	100.456916	100.2965891	100.1367676	99.97744906	99.8186311	99.66031135	99.50248746	99.34515708
ADV1009793	9/24/2024	3.611	3/24/2027	106.4005449	104.6333877	102.904335	101.2122192	99.55592107	97.93436702	96.34652676	94.79141103	93.26806956
ADV1009796	9/24/2024	3.931	9/24/2025	100.8570918	100.6177961	100.3796443	100.1426282	99.9067395	99.67197022	99.43831235	99.20575795	98.97429918
ADV1009802	9/24/2024	4.015	9/24/2025	100.864301	100.6251334	100.3871074	100.1502148	99.91444742	99.67979733	99.44625654	99.21381715	98.98247135
ADV1009804	9/24/2024	4.022	9/24/2025	100.8659737	100.6268033	100.3887746	100.1518793	99.91610922	99.68145644	99.44791296	99.21547089	98.98412243
ADV1009805	9/24/2024	3.791	3/24/2026	102.5858843	101.8417308	101.1083856	100.3856141	99.67318851	98.97088761	98.27849644	97.59580605	96.92261338
ADV1009813	9/24/2024	3.936	9/24/2025	100.8582867	100.618989	100.3808353	100.1438172	99.9079266	99.67315539	99.4394956	99.20693929	98.97547862
ADV1009833	9/25/2024	4.031	9/25/2025	100.878169	100.6362132	100.395424	100.155793	99.91731173	99.67997195	99.44376545	99.2086841	98.97471986

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009834	9/25/2024	3.664	9/25/2026	104.4727995	103.2048628	101.9677438	100.7603281	99.5815542	98.430411	97.30593432	96.20720445	95.13334358
ADV1009835	9/25/2024	3.941	9/25/2025	100.8694335	100.6273505	100.3864363	100.1466825	99.9080807	99.67062258	99.43429987	99.19910441	98.96502813
ADV1009836	9/25/2024	3.705	3/25/2026	102.5840686	101.8364762	101.0997904	100.3737737	99.65819519	98.95283073	98.25746252	97.57187891	96.89587422
ADV1009839	9/25/2024	3.939	9/25/2025	100.8689501	100.6268678	100.3859544	100.1462015	99.90760044	99.6701431	99.43382118	99.1986265	98.96455099
ADV1009840	9/25/2024	3.701	3/25/2026	102.5810936	101.8335134	101.0968398	100.3708351	99.65526848	98.94991578	98.25455921	97.56898713	96.89299385
ADV1009841	9/25/2024	3.577	9/25/2026	104.4522535	103.1830731	101.9447653	100.7362129	99.5563519	98.40416874	97.27869701	96.17901485	95.10424241
ADV1009842	9/25/2024	3.585	9/25/2026	104.4622878	103.1930409	101.9546676	100.7460508	99.56612649	98.41388106	97.28834806	96.18860561	95.11377384
ADV1009853	9/25/2024	3.941	9/25/2025	100.8694335	100.6273505	100.3864363	100.1466825	99.9080807	99.67062258	99.43429987	99.19910441	98.96502813
ADV1009857	9/25/2024	3.597	9/25/2026	104.4773394	103.2079925	101.969521	100.7608076	99.58078838	98.42844954	97.30282463	96.20299175	95.12807098
ADV1009867	9/26/2024	3.668	9/26/2029	116.0741606	111.5889917	107.3054132	103.2132031	99.30272022	95.56486734	91.99105724	88.5731806	85.30357641
ADV1009868	9/26/2024	3.558	9/27/2027	108.4704812	106.159918	103.9105021	101.7201559	99.58689106	97.508804	95.48407109	93.51094471	91.5877493
ADV1009872	9/26/2024	3.719	9/28/2026	104.5750862	103.2981079	102.0523594	100.8367045	99.65006151	98.49140002	97.35973797	96.25413879	95.17370882
ADV1009875	9/26/2024	3.644	9/27/2027	108.5017501	106.1941042	103.9474658	101.7597638	99.62901634	97.55332547	95.53087321	93.55991718	91.6387868
ADV1009876	9/26/2024	3.64	9/28/2026	104.5645724	103.2862708	102.0392558	100.8223884	99.63458418	98.47481037	97.34208253	96.23546187	95.15405266
ADV1009880	9/26/2024	3.727	9/28/2026	104.5851816	103.308136	102.0623213	100.8466013	99.65989428	98.50116983	97.36944585	96.26378574	95.1832958
ADV1009882	9/26/2024	3.658	9/1/2027	108.2672227	106.0286063	103.8489101	101.726138	99.65837974	97.64380571	95.68066326	93.7672725	91.90202258
ADV1009896	9/26/2024	3.656	9/27/2027	108.5290354	106.2210746	103.9741279	101.786124	99.65508084	97.57910032	95.55636426	93.58513013	91.66372717
ADV1009897	9/26/2024	3.687	9/26/2028	112.4765086	109.0915054	105.8276105	102.6797406	99.64306153	96.71297401	93.88510039	91.1552723	88.5195191
ADV1009908	9/27/2024	3.634	9/27/2027	108.4790124	106.1716289	103.9252474	101.737797	99.60729592	97.53184643	95.50963067	93.53890639	91.61800316
ADV1009916	9/27/2024	3.624	9/27/2029	115.8943064	111.4100885	107.1275782	103.0365403	99.12732173	95.39081456	91.81842167	88.40202478	85.1339547
ADV1009921	9/27/2024	3.546	9/27/2028	112.2646787	108.8743909	105.6056512	102.4533485	99.41262248	96.47884957	93.64762937	90.91477226	88.27628771
ADV1009927	9/27/2024	4.059	9/26/2025	100.9366797	100.683598	100.4317504	100.1811279	99.93172161	99.68352259	99.43652212	99.19071153	98.94608223
ADV1009930	9/27/2024	3.605	9/27/2027	108.413073	106.1064505	103.8608141	101.6740933	99.54430672	97.46955721	95.44802728	93.4779751	91.5577306
ADV1009933	9/27/2024	3.522	9/27/2027	108.3885588	106.0789419	103.8304525	101.6410135	99.50863722	97.43142057	95.40754046	93.43524978	91.51287344
ADV1009935	9/27/2024	3.525	9/27/2027	108.3953856	106.0856899	103.8371233	101.6476087	99.51515837	97.43786919	95.41391802	93.44155769	91.5191131
ADV1009937	9/27/2024	3.522	9/27/2027	108.3885588	106.0789419	103.8304525	101.6410135	99.50863722	97.43142057	95.40754046	93.43524978	91.51287344
ADV1009938	9/27/2024	3.676	9/29/2028	112.4717352	109.0782332	105.8064054	102.6511331	99.60754909	96.67102333	93.83714948	91.1017324	88.46077639
ADV1009939	9/27/2024	3.676	9/22/2028	112.3984098	109.0261294	105.7741675	102.637489	99.61130476	96.69105758	93.87240905	91.1512275	88.52357659
ADV1009941	9/27/2024	3.675	9/15/2028	112.3218259	108.9708047	105.7387529	102.6207185	99.61198951	96.70808097	93.90472185	91.19784348	88.58356838
ADV1009942	9/27/2024	3.674	9/8/2028	112.2452833	108.9154961	105.703338	102.6039389	99.61266367	96.72509861	93.9370395	91.24448007	88.64360122
ADV1009943	9/27/2024	4.023	9/29/2025	100.9164798	100.6634016	100.4115912	100.1610392	99.91173632	99.66367314	99.41684047	99.1712292	98.9268303
ADV1009958	9/30/2024	4.053	9/30/2025	100.93401	100.6781372	100.4235581	100.1702629	99.91824194	99.66748567	99.41798462	99.1697294	98.92271073
ADV1009965	9/30/2024	4.056	9/30/2025	100.9347761	100.6789021	100.4243216	100.1710251	99.9190029	99.66824535	99.41874302	99.17048653	98.9234666

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009970	9/30/2024	3.7	11/3/2028	112.9070766	109.4090721	106.0395633	102.7931589	99.66472243	96.64935852	93.74240054	90.93939865	88.23610851
ADV1009971	9/30/2024	3.7	11/10/2028	112.9799528	109.4607445	106.0714926	102.8067154	99.66119144	96.62994623	93.70823875	90.89154947	88.17556872
ADV1009973	9/30/2024	3.7	11/17/2028	113.05283	109.5123943	106.1033843	102.8202269	99.65761516	96.61049442	93.6740486	90.84368783	88.11503654
ADV1009975	9/30/2024	3.7	11/17/2028	113.05283	109.5123943	106.1033843	102.8202269	99.65761516	96.61049442	93.6740486	90.84368783	88.11503654
ADV1009984	9/30/2024	4.102	9/30/2025	100.9465235	100.6906295	100.4360292	100.1827129	99.93067098	99.6798938	99.43037192	99.18209596	98.93505664
ADV1009987	9/30/2024	3.6	9/30/2027	108.5991431	106.2785824	104.0196044	101.8201103	99.67809161	97.59162559	95.55887078	93.57806268	91.64750981
ADV1009989	9/30/2024	3.6	9/30/2027	108.5991431	106.2785824	104.0196044	101.8201103	99.67809161	97.59162559	95.55887078	93.57806268	91.64750981
ADV1010009	10/1/2024	3.613	10/1/2026	104.5674553	103.2813747	102.0266019	100.8020016	99.60649241	98.43904441	97.29867574	96.18444996	95.09547343
ADV1010014	10/1/2024	3.62	10/2/2028	112.3208577	108.9215247	105.6443574	102.4842141	99.43620544	96.49568001	93.6582106	90.91958198	88.27577905
ADV1010017	10/1/2024	3.694	10/1/2026	104.580658	103.2958948	102.0423827	100.8189891	99.62463532	98.45829396	97.31898545	96.20577556	95.11777271
ADV1010020	10/1/2024	4.045	10/1/2025	100.9467016	100.6880449	100.4307123	100.1746938	99.91997927	99.66655879	99.41442253	99.16356075	98.91396384
ADV1010021	10/1/2024	3.817	4/1/2026	102.6919115	101.9252283	101.1699971	100.4259625	99.69287668	98.97049931	98.25859686	97.55694259	96.86531627
ADV1010023	10/1/2024	3.703	10/1/2026	104.5920996	103.3072595	102.0536721	100.8302043	99.63577765	98.46936459	97.32998556	96.21670628	95.12863515
ADV1010032	10/30/2024	3.564	10/29/2027	108.6538528	106.2564485	103.9244046	101.655575	99.44789682	97.29938689	95.20813796	93.17231542	91.19015401
ADV1010033	10/30/2024	3.564	10/29/2027	108.6538528	106.2564485	103.9244046	101.655575	99.44789682	97.29938689	95.20813796	93.17231542	91.19015401
ADV1010040	10/2/2024	3.63	10/18/2027	108.6971317	106.3294344	104.0256076	101.7835263	99.60115161	97.47652643	95.40777146	93.39308157	91.43072227
ADV1010081	10/3/2024	4.114	10/10/2025	101.0584535	100.774724	100.4925996	100.2120668	99.93311179	99.65572135	99.3798822	99.10558126	98.83280558
ADV1010084	10/3/2024	3.638	10/4/2027	108.7329543	106.3998802	104.128955	101.9180719	99.76521359	97.66844806	95.62592364	93.63586516	91.69657003
ADV1010086	10/3/2024	3.641	10/3/2029	116.3519439	111.8317678	107.515725	103.3934286	99.455083	95.69144654	92.09379659	88.65389701	85.36396801
ADV1010107	10/3/2024	3.82	10/5/2026	104.7857876	103.4908453	102.2261952	100.9907753	99.78357294	98.60362207	97.45000051	96.32182752	95.21826144
ADV1010108	10/3/2024	3.82	10/5/2026	104.7857876	103.4908453	102.2261952	100.9907753	99.78357294	98.60362207	97.45000051	96.32182752	95.21826144
ADV1010118	10/4/2024	4.004	10/5/2026	105.0211253	103.7245784	102.4583496	101.2213762	100.0126451	98.83118949	97.67608657	96.54645503	95.44145263
ADV1010124	10/4/2024	3.91	10/4/2027	109.1904964	106.8554139	104.582442	102.3694774	100.2145064	98.11559993	96.07090927	94.07866198	92.13715798
ADV1010127	10/4/2024	4.326	10/6/2025	101.0738176	100.8010904	100.5298427	100.2600623	99.99173735	99.72485596	99.45940647	99.19537731	98.93275705
ADV1010129	10/4/2024	3.951	10/5/2026	105.0439409	103.745818	102.4780729	101.2396402	100.029504	98.84669513	97.69028848	96.55940051	95.45318694
ADV1010130	10/4/2024	3.864	10/4/2028	113.3932715	109.9646866	106.6594657	103.4724173	100.3986041	97.43332818	94.57211812	91.810716	89.14506578
ADV1010146	10/7/2024	3.988	10/7/2027	109.4042005	107.0583638	104.7750924	102.5522764	100.3878945	98.28000967	96.22676466	94.2263782	92.27714104
ADV1010149	10/7/2024	4.086	10/8/2026	105.1624074	103.8582863	102.5837637	101.3378305	100.1195232	98.92792178	97.762147	96.62135809	95.50475078
ADV1010157	10/7/2024	4.119	7/10/2026	104.0966677	103.0457036	102.0160157	101.0069618	100.0179252	99.04831369	98.09755817	97.16511166	96.25044816
ADV1010172	10/8/2024	4.484	10/8/2036	141.5507558	128.9236193	117.6072617	107.4562113	98.34194332	90.15082158	82.78230043	76.14735182	70.16708897
ADV1010179	10/8/2024	3.997	10/8/2027	109.4363848	107.0874156	104.8011541	102.5754882	100.4083945	98.29793336	96.24224513	94.23954571	92.28812305
ADV1010188	10/8/2024	4.34	9/2/2025	100.7425866	100.5585685	100.3752035	100.1924879	100.0104185	99.82899165	99.64820406	99.46805233	99.28853312
ADV1010199	10/9/2024	4.245	10/9/2025	101.0990024	100.8177526	100.5380798	100.2599707	99.98341221	99.70839115	99.43489465	99.16290996	98.89242447

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1010211	10/9/2024	4.122	8/14/2026	104.5293865	103.3783148	102.2526678	101.1516089	100.0743374	99.02008734	97.98812536	96.97774891	95.98828475
ADV1010214	10/9/2024	4.281	10/9/2025	101.1091246	100.8278561	100.5481648	100.2700372	99.99346029	99.7184209	99.44490615	99.17290329	98.90239971
ADV1010218	10/9/2024	4	10/9/2029	117.6428619	113.0875656	108.7380915	104.583979	100.6153603	96.82292334	93.19787661	89.73191731	86.41720104
ADV1010223	10/10/2024	4.254	10/10/2025	101.1123712	100.8283262	100.5458902	100.2650494	99.98579028	99.70809933	99.43196327	99.15736895	98.88430338
ADV1010225	10/10/2024	4.003	10/10/2029	116.9737339	112.5871857	108.3989584	104.3989725	100.5777141	96.92620011	93.43594596	90.09893526	86.90759161
ADV1010250	10/11/2024	3.987	10/13/2026	105.1853024	103.8685442	102.5802167	101.3193991	100.0852107	98.87680814	97.69338427	96.53416557	95.39841061
ADV1010259	10/11/2024	3.99	4/11/2029	115.6652789	111.6637695	107.8251386	104.1418308	100.6066864	97.21291859	93.95409147	90.82409961	87.81714908
ADV1010279	10/11/2024	4.218	10/14/2025	101.1455954	100.8504253	100.5569932	100.2652836	99.97528111	99.68697074	99.40033756	99.11536684	98.83204401
ADV1010330	10/15/2024	3.881	10/15/2027	109.4156302	107.0442208	104.7366133	102.4906759	100.3043641	98.17571639	96.10284998	94.08395724	92.117302
ADV1010335	10/15/2024	4.22	10/15/2025	101.1564444	100.8584682	100.5622627	100.2678122	99.97510076	99.68411303	99.39483364	99.10724744	98.82133949
ADV1010339	10/16/2024	3.955	1/18/2028	110.5132796	107.8673575	105.2993904	102.8066091	100.3863615	98.03610618	95.7534078	93.53593135	91.38143749
ADV1010340	10/15/2024	4.219	10/15/2025	101.1561468	100.8581711	100.5619663	100.2675163	99.97480545	99.68381828	99.39453945	99.10695382	98.82104642
ADV1010352	10/16/2024	4.269	10/16/2025	101.1598829	100.8593771	100.5606705	100.2637466	99.96858955	99.67518344	99.38351261	99.09356159	98.80531511
ADV1010353	10/16/2024	4.117	4/16/2026	103.0907712	102.2808104	101.4836046	100.698854	99.9262677	99.16556404	98.41646993	97.67872062	96.95205939
ADV1010398	10/18/2024	4.245	11/24/2025	101.5749054	101.1656531	100.7597051	100.3570215	99.957563	99.56129082	99.16816688	98.77815372	98.39121445
ADV1010402	10/18/2024	4.299	10/20/2025	101.2122539	100.9005909	100.5908594	100.2830414	99.97711926	99.6730753	99.37089219	99.07055277	98.77204014
ADV1010403	10/18/2024	4.038	10/19/2026	105.2298486	103.9009914	102.5990486	101.3232121	100.0727062	98.84678642	97.64473746	96.46587212	95.30952977
ADV1010404	10/18/2024	4.141	4/20/2026	103.1559198	102.3345966	101.5263797	100.7309568	99.94802528	99.17729223	98.41847369	97.6712945	96.93548795
ADV1010445	10/21/2024	4.121	4/21/2026	103.2080329	102.3829222	101.571032	100.7720459	99.98565767	99.21157051	98.44949702	97.6991587	96.96028556
ADV1010446	10/21/2024	4.363	9/22/2025	100.9652993	100.7237579	100.4833473	100.2440595	100.0058866	99.76882073	99.53285425	99.29797943	99.06418866
ADV1010447	10/21/2024	4.411	7/21/2025	100.2752586	100.2151352	100.1550975	100.0951455	100.0352788	99.97549725	99.91580075	99.85618907	99.79666204
ADV1010449	10/21/2024	3.958	10/21/2027	109.664139	107.2732262	104.9469954	102.6833014	100.4800851	98.33536889	96.24725335	94.21391322	92.23359411
ADV1010450	10/21/2024	4.021	10/21/2026	105.3246878	103.9892786	102.680359	101.3971555	100.1389248	98.90495264	97.69455228	96.50706302	95.34184906
ADV1010451	10/21/2024	4.34	10/21/2025	101.2355553	100.9210736	100.6085572	100.2979877	99.98934673	99.68261637	99.37777881	99.07481647	98.773712
ADV1010455	10/21/2024	4.042	10/21/2027	109.6907373	107.3029454	104.9796848	102.7188173	100.5182903	98.37613251	96.29045048	94.25942457	92.28130575
ADV1010470	10/22/2024	4.234	3/30/2026	102.9837046	102.2213288	101.4702532	100.7302277	100.0010096	99.28236328	98.5740599	97.87587719	97.18759922
ADV1010487	10/23/2024	4.191	7/23/2026	104.3301885	103.2416532	102.1758958	101.1322057	100.1099018	99.10833077	98.12686549	97.16490409	96.2218685
ADV1010488	10/23/2024	4.143	10/23/2026	105.4165516	104.0775655	102.7645409	101.4767431	100.2134655	98.97402809	97.75777601	96.56407868	95.39232845
ADV1010507	10/23/2024	4.276	10/23/2025	101.2602975	100.9399728	100.6216857	100.3054169	99.99114702	99.67885714	99.36852846	99.06014247	98.75368087
ADV1010522	10/25/2024	4.07	10/15/2027	109.6847519	107.3135938	105.0061492	102.7602914	100.5739807	98.44525988	96.37225055	94.35314905	92.38622293
ADV1010530	10/25/2024	4.072	10/25/2027	109.8076375	107.4074342	105.0723383	102.800203	100.5889659	98.43664541	96.34133691	94.30120919	92.31450117
ADV1010541	10/25/2024	4.141	10/25/2029	109.3438658	107.0462379	104.82454	102.675616	100.596465	98.58423244	96.63620176	94.74978686	92.92252491
ADV1010543	10/25/2024	4.153	10/26/2026	105.466255	104.1203042	102.7995908	101.5034361	100.2311858	98.982209	97.7558969	96.55166201	95.36893709

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1010586	10/29/2024	4.219	10/29/2026	105.5912919	104.2378385	102.9089086	101.6038796	100.3221499	99.06313756	97.82628006	96.61103313	95.41687014
ADV1010587	10/29/2024	4.204	10/29/2027	110.166202	107.7506905	105.4009272	103.1147544	100.8900981	98.72496425	96.61743538	94.56566686	92.56788386
ADV1010594	10/29/2024	4.246	10/1/2029	116.7889592	112.684557	108.7606744	105.0082876	101.4188732	97.98437765	94.69718914	91.55011075	88.53633581
ADV1010598	10/29/2024	4.188	10/29/2031	115.4314228	111.5564686	107.8704509	104.3623596	101.0219102	97.83949076	94.80611387	91.91337144	89.15339366
ADV1010603	10/30/2024	4.18	10/30/2029	118.6482706	114.0122612	109.5878854	105.3643662	101.3315303	97.47977181	93.80001711	90.28369298	86.92269641
ADV1010604	10/30/2024	4.127	10/30/2026	105.5751699	104.218115	102.8853878	101.5763829	100.2905148	99.02721674	97.78594033	96.56615459	95.36734533
ADV1010613	10/30/2024	4.207	10/30/2028	114.5821342	111.0671958	107.6807277	104.4173564	101.2719616	98.23966333	95.31580917	92.49596237	89.77589079
ADV1010630	10/31/2024	4.42	10/31/2025	101.3717297	101.0293205	100.6892204	100.3514061	100.0158546	99.68254341	99.35145007	99.02255257	98.69582916
ADV1010632	10/31/2024	4.195	10/31/2029	118.3481458	113.8588764	109.5749026	105.4856661	101.5812086	97.85213425	94.28957495	90.88515797	87.6309756
ADV1010643	10/31/2024	4.363	1/30/2026	102.3853687	101.7885017	101.1985977	100.6155352	100.0391959	99.46946368	98.90622554	98.34937084	97.79879145
ADV1010651	10/31/2024	4.321	10/31/2025	101.3630085	101.0203323	100.6799704	100.3418996	100.0060968	99.67253921	99.34120441	99.01207025	98.68511489
ADV1010655	10/31/2024	4.239	10/30/2026	105.6305593	104.2746204	102.9429669	101.634995	100.3501205	99.08777821	97.84742092	96.62851894	95.43055925
ADV1010656	11/1/2024	4.228	11/1/2029	118.8862705	114.2394727	109.8049796	105.5719737	101.5302438	97.67014771	93.98257797	90.45892939	87.09106882
ADV1010663	10/31/2024	4.483	7/31/2025	100.3899298	100.3011526	100.2125265	100.1240513	100.0357265	99.9475517	99.85952664	99.7716509	99.68392412
ADV1010689	11/1/2024	4.324	11/3/2025	101.4025216	101.0514738	100.7028602	100.3566555	100.0128347	99.67137335	99.33224706	98.99543191	98.6609043
ADV1010704	11/4/2024	4.171	12/15/2026	106.2273961	104.7381445	103.2774714	101.8446241	100.438876	99.05952548	97.70589447	96.37732777	95.07319199
ADV1010711	11/8/2024	4.255	6/15/2027	108.5855283	106.5665703	104.5958949	102.6720471	100.793626	98.95928207	97.16771516	95.41767218	93.70794511
ADV1010761	11/7/2024	4.317	11/9/2026	105.8707111	104.4855866	103.1253858	101.7894926	100.4773102	99.18826146	97.9217871	96.67734566	95.45441253
ADV1010774	11/7/2024	4.321	11/9/2026	105.8762283	104.4910638	103.1308239	101.7948921	100.4826719	99.19358589	97.9270749	96.68259743	95.45962885
ADV1010775	11/7/2024	4.274	11/8/2027	110.4610836	108.0137359	105.6336859	103.3187107	101.0666741	98.87552225	96.74328043	94.66804915	92.64800101
ADV1010794	11/8/2024	4.27	11/8/2027	110.4513577	108.0041184	105.6241745	103.3093035	101.0573689	98.86631708	96.73417335	94.65903826	92.63908446
ADV1010801	11/8/2024	4.385	4/9/2026	103.2223138	102.4311944	101.6522324	100.8851484	100.129672	99.38554049	98.65249945	97.9303018	97.21870783
ADV1010815	11/13/2024	4.286	10/1/2029	118.7959753	114.2385112	109.8857611	105.7273374	101.7534438	97.954837	94.32279243	90.84907151	87.52589154
ADV1010859	11/12/2024	4.402	11/12/2027	110.8180275	108.3549216	105.959811	103.6304406	101.3646431	99.16033554	97.01551533	94.92825663	92.89670699
ADV1010907	11/14/2024	4.497	7/14/2025	100.197747	100.1577824	100.117867	100.0780008	100.0381837	99.99841551	99.95869621	99.91902568	99.87940384
ADV1010912	11/14/2024	4.371	11/14/2025	101.5418911	101.1600395	100.7810742	100.4049623	100.0316717	99.66117041	99.29342716	98.92841107	98.56609172
ADV1010939	11/15/2024	4.383	11/15/2027	110.8110589	108.3394626	105.9363152	103.599339	101.3263456	99.11523198	96.96397638	94.87063498	92.83333821
ADV1010947	11/15/2024	4.391	10/20/2026	105.7094083	104.3750201	103.0673608	101.7856389	100.5290945	99.29699752	98.08864659	96.90336723	95.7405107
ADV1010982	11/18/2024	4.362	11/18/2025	101.5831714	101.19015	100.8001835	100.4132364	100.0292734	99.64826012	99.27016238	98.8949467	98.52258007
ADV1011003	11/19/2024	4.354	11/19/2025	101.5908645	101.1950698	100.8023724	100.4127359	100.0261246	99.64250311	99.26183671	98.88409121	98.50923296
ADV1011011	11/19/2024	4.532	8/19/2025	100.609419	100.4663083	100.3236094	100.1813206	100.0394401	99.89796602	99.75689663	99.61623015	99.4759648
ADV1011013	11/19/2024	4.412	5/19/2026	103.7373384	102.8328405	101.9441635	101.0708942	100.2126337	99.36899675	98.53961131	97.72411778	96.9221686
ADV1011015	11/19/2024	4.448	11/19/2025	101.6003896	101.2048915	100.8124844	100.423132	100.0367987	99.65344922	99.27304903	98.89556406	98.52096078

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1011018	11/19/2024	4.357	11/19/2026	106.0561587	104.6415677	103.2528872	101.8894651	100.5506707	99.23589393	97.9445443	96.67605037	95.42985882
ADV1011019	11/19/2024	4.313	11/19/2027	110.692333	108.2107773	105.7982473	103.452436	101.1711276	98.95219269	96.79358507	94.69333741	92.64955797
ADV1011040	11/20/2024	4.303	11/20/2026	106.093686	104.6743968	103.2811733	101.9133578	100.5703142	99.25142725	97.95610181	96.68376172	95.43384923
ADV1011071	11/21/2024	4.492	11/4/2025	101.4767648	101.1113901	100.7485731	100.3882871	100.0305054	99.67520221	99.32235169	98.97192851	98.62390769
ADV1011077	11/21/2024	4.823	12/15/2042	147.7017821	133.6116563	121.3220904	110.5738416	101.1477144	92.85805993	85.54737162	79.08178719	73.34733966
ADV1011092	11/22/2024	4.417	12/30/2025	102.0922318	101.5816162	101.0761108	100.5756391	100.0801263	99.58949882	99.10368466	98.62261321	98.14621525
ADV1011101	11/22/2024	4.419	11/24/2025	101.6738395	101.2640015	100.8574763	100.4542238	100.0542045	99.65737963	99.26371084	98.87316052	98.48569163
ADV1011108	11/25/2024	4.464	10/26/2026	105.8829158	104.5340296	103.2104312	101.9114405	100.636402	99.3846832	98.15567424	96.94878634	95.76345114
ADV1011109	11/25/2024	4.439	1/25/2027	107.0558971	105.4497128	103.8759374	102.3336596	100.8220023	99.34012016	97.88719901	96.46245387	95.06512778
ADV1011110	11/25/2024	4.414	5/25/2027	108.6237228	106.6632775	104.7484159	102.877803	101.050152	99.26422168	97.51881507	95.81277718	94.14499339
ADV1011135	11/25/2024	4.533	10/24/2025	101.3638009	101.0303969	100.6991319	100.3699853	100.042937	99.71796665	99.39505462	99.07418133	98.75532745
ADV1011162	11/25/2024	4.483	11/25/2025	101.6823806	101.2700859	100.8611407	100.4555042	100.0531364	99.65399768	99.25804935	98.86525316	98.47557154
ADV1011163	11/25/2024	4.303	11/24/2027	110.7310861	108.234789	105.8082918	103.4492495	101.1554099	98.92460961	96.75476966	94.64389201	92.59005572
ADV1011238	11/27/2024	4.257	11/29/2027	110.6815563	108.1716143	105.7322263	103.3610094	101.0556754	98.81402712	96.63395351	94.51342607	92.45049506
ADV1011274	11/29/2024	4.275	11/30/2026	106.0828822	104.6371921	103.2184928	101.8260923	100.459322	99.11753527	97.8001071	96.50643268	95.23592683
ADV1011275	11/29/2024	4.209	11/29/2027	110.5638321	108.0553478	105.6173859	103.2475644	100.9435961	98.7032846	96.52451975	94.40527386	92.34359797
ADV1011292	12/2/2024	4.237	12/4/2028	115.1031179	111.4790225	107.9908495	104.632767	101.3992255	98.28494258	95.28488836	92.39427221	89.60852993
ADV1011313	12/2/2024	4.377	12/2/2025	101.7514553	101.3192927	100.8908039	100.4659423	100.0446617	99.6269171	99.21266401	98.80185874	98.39445835
ADV1011321	12/2/2024	4.457	9/3/2025	100.7652573	100.579383	100.3941804	100.2096458	100.0257757	99.84256633	99.66001427	99.47811591	99.29686774
ADV1011380	12/5/2024	4.386	11/5/2025	101.4471975	101.0798831	100.7151617	100.3530057	99.99338818	99.63628248	99.28166231	98.92950176	98.57977526
ADV1011382	12/5/2024	4.47	7/7/2025	100.1141766	100.0942616	100.0743673	100.0544936	100.0346405	100.0148081	99.99499612	99.9752047	99.95543375
ADV1011392	12/18/2024	4.187	12/20/2027	110.7638134	108.1948148	105.6996359	103.2757264	100.9206397	98.63202895	96.40764152	94.24531501	92.14297292
ADV1011393	12/18/2024	4.187	12/20/2027	110.7638134	108.1948148	105.6996359	103.2757264	100.9206397	98.63202895	96.40764152	94.24531501	92.14297292
ADV1011411	12/6/2024	4.254	12/8/2025	101.7649386	101.3161237	100.8712796	100.4303533	99.99329326	99.56004854	99.13056919	98.70480612	98.28271108
ADV1011423	12/9/2024	4.266	12/9/2025	101.7812406	101.3296053	100.8819911	100.4383441	99.99861168	99.56274197	99.13068406	98.70238793	98.27780444
ADV1011430	12/9/2024	4.385	9/9/2025	100.8173503	100.6145086	100.4124749	100.2112441	100.0108114	99.81117208	99.61232132	99.41425439	99.21696661
ADV1011439	12/9/2024	4.261	12/9/2025	101.7789886	101.3273594	100.8797511	100.4361101	99.99638354	99.56051969	99.1284676	98.70017726	98.27559952
ADV1011440	12/9/2024	4.258	12/9/2025	101.7776375	101.3260118	100.8784071	100.4347696	99.99504665	99.55918632	99.12713773	98.69885086	98.27427658
ADV1011478	12/11/2024	4.231	12/11/2025	101.7874721	101.3302822	100.8772139	100.4282112	99.98321954	99.54218508	99.105055	98.67177745	98.24230145
ADV1011498	12/12/2024	4.326	12/12/2025	101.8096397	101.3500095	100.8945431	100.4431839	99.99587642	99.55256598	99.11319903	98.67772296	98.24608605
ADV1011504	12/12/2024	4.244	12/12/2025	101.8041104	101.3441138	100.8882894	100.4365802	99.9889305	99.54528556	99.10559159	98.66979579	98.23784629
ADV1011513	12/12/2024	4.263	12/14/2026	106.2443891	104.7593996	103.3028317	101.8739386	100.4719995	99.09631816	97.74622171	96.42105989	95.12020401
ADV1011514	12/12/2024	4.239	12/13/2027	110.8099619	108.2596988	105.7821802	103.3749116	101.0354995	98.76164679	96.55114808	94.40188561	92.3118251

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1011537	12/13/2024	4.483	12/6/2030	124.4054756	118.4714408	112.8661375	107.5695419	102.5629527	97.82889734	93.3510451	89.11412665	85.10385978
ADV1011538	12/13/2024	4.486	12/13/2030	124.4899192	118.5337955	112.9086778	107.5943377	102.5718875	97.82368475	93.33324354	89.08515313	85.0650023
ADV1011539	12/13/2024	4.486	12/13/2030	124.4899192	118.5337955	112.9086778	107.5943377	102.5718875	97.82368475	93.33324354	89.08515313	85.0650023
ADV1011540	12/13/2024	4.487	12/20/2030	124.5633935	118.5855119	112.9409014	107.6091287	102.5711195	97.80906132	93.30631328	89.04732325	85.01755107
ADV1011555	12/13/2024	4.369	1/13/2026	102.1954246	101.6461727	101.1028415	100.5653354	100.0335609	99.50742644	98.98684232	98.47172084	97.96197611
ADV1011557	12/13/2024	4.372	2/13/2026	102.5565357	101.9203232	101.2920223	100.671486	100.0585705	99.45313587	98.8550455	98.26416606	97.68036747
ADV1011571	12/16/2024	4.316	12/16/2026	106.3477821	104.8565536	103.3939644	101.9592596	100.5517104	99.17061304	97.81528741	96.48507636	95.17934462
ADV1011572	12/16/2024	4.36	12/16/2025	101.8706093	101.3997386	100.933236	100.4710404	100.0130924	99.55933332	99.10970571	98.66415313	98.22262018
ADV1011583	12/16/2024	4.309	12/16/2025	101.8790851	101.4078039	100.9408993	100.4783104	100.0199773	99.56584127	99.11584466	98.66993083	98.22804418
ADV1011591	12/16/2024	4.307	12/16/2025	101.8781461	101.4068674	100.9399654	100.477379	100.0190485	99.56491502	99.11492093	98.66900959	98.22712543
ADV1011635	12/17/2024	4.398	8/18/2025	100.5731586	100.4335226	100.2942815	100.1554338	100.0169776	99.87891128	99.74123319	99.60394161	99.46703488
ADV1011702	12/19/2024	4.404	7/21/2025	100.2631351	100.2034347	100.1438195	100.0842892	100.0248437	99.96548274	99.90620623	99.84701395	99.78790571
ADV1011712	12/19/2024	4.406	12/11/2025	101.8596029	101.3883555	100.9213647	100.4585729	99.99992364	99.54536129	99.09483132	98.64828016	98.20565517
ADV1011714	12/19/2024	4.391	12/10/2026	106.3803654	104.9052421	103.4581517	102.038363	100.6451696	99.2778889	97.93586137	96.61844934	95.32503617
ADV1011739	12/20/2024	4.365	12/21/2026	106.4839415	104.978051	103.5013304	102.0530046	100.6323253	99.23856993	97.8710408	96.52906374	95.21198723
ADV1011749	12/20/2024	4.385	12/22/2025	101.949878	101.4622028	100.9792056	100.5008191	100.0269773	99.55761566	99.09267058	98.63207983	98.17578227
ADV1011862	12/27/2024	4.32	6/29/2026	104.2337028	103.2115929	102.2095766	101.2270651	100.2634923	99.31831393	98.39100637	97.48106572	96.58800687
ADV1011868	12/27/2024	4.326	6/29/2026	104.2397622	103.2176194	102.2155707	101.2330271	100.2694228	99.32421324	98.39687494	97.48690395	96.59381517
ADV1011882	12/30/2024	4.383	12/31/2029	120.5920686	115.7254961	111.0889484	106.6702873	102.4580806	98.44155701	94.61056421	90.95553018	87.46742685
ADV1011884	12/30/2024	4.361	5/13/2026	103.6158458	102.728651	101.8566939	100.9995835	100.1569424	99.32840573	98.51362088	97.71224691	96.9239541
ADV1011885	12/30/2024	4.356	5/13/2026	103.61145	102.7242762	101.8523398	100.9952499	100.1526291	99.32411238	98.50934729	97.70799286	96.91971936
ADV1011886	12/30/2024	4.362	4/15/2026	103.2734874	102.4655613	101.6703109	100.8874391	100.1166579	99.35768821	98.61025966	97.87410994	97.14898466
ADV1011887	12/30/2024	4.362	4/15/2026	103.2734874	102.4655613	101.6703109	100.8874391	100.1166579	99.35768821	98.61025966	97.87410994	97.14898466
ADV1011888	12/30/2024	4.348	7/15/2026	104.3953467	103.3288028	102.284125	101.2606446	100.2577203	99.27473606	98.31110052	97.36624544	96.4396247
ADV1011889	12/30/2024	4.348	7/15/2026	104.3953467	103.3288028	102.284125	101.2606446	100.2577203	99.27473606	98.31110052	97.36624544	96.4396247
ADV1011890	12/30/2024	4.345	8/12/2026	104.7535875	103.6067813	102.4851741	101.3879405	100.314291	99.26346985	98.23475331	97.22744799	96.24088926
ADV1011891	12/30/2024	4.345	8/12/2026	104.7535875	103.6067813	102.4851741	101.3879405	100.314291	99.26346985	98.23475331	97.22744799	96.24088926
ADV1011892	12/30/2024	4.341	10/14/2026	105.5642057	104.2441115	102.9522006	101.6875712	100.44936	99.23674057	98.04892094	96.88514208	95.74467606
ADV1011893	12/30/2024	4.341	10/14/2026	105.5642057	104.2441115	102.9522006	101.6875712	100.44936	99.23674057	98.04892094	96.88514208	95.74467606
ADV1011901	12/30/2024	4.402	7/15/2025	100.1950456	100.1524827	100.1099735	100.0675177	100.0251154	99.98276647	99.9404707	99.89822805	99.85603839
ADV1011902	12/30/2024	4.382	8/15/2025	100.5351333	100.4042915	100.2737999	100.1436568	100.0138609	99.88441078	99.75530493	99.62654197	99.49812049
ADV1011903	12/30/2024	4.364	9/15/2025	100.8747775	100.6552852	100.436741	100.2191387	100.002472	99.78673495	99.57192145	99.35802551	99.14504119
ADV1011904	12/30/2024	4.357	10/15/2025	101.1999713	100.8943727	100.5905908	100.2886093	99.98841207	99.68998329	99.39330724	99.09836842	98.80515151

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1011905	12/30/2024	4.357	11/14/2025	101.5334312	101.1412568	100.7520507	100.3657794	99.98240939	99.60190816	99.22424346	98.84938354	98.47729716
ADV1011906	12/30/2024	4.43	12/29/2028	116.0720227	112.3610308	108.7916597	105.3577201	102.0533284	98.87288965	95.81108181	92.86284077	90.0233464
ADV1011916	12/30/2024	4.291	12/30/2027	111.331085	108.723342	106.1913386	103.7324286	101.3440749	99.02384491	96.76940493	94.57851587	92.4490286
ADV1011920	12/30/2024	4.273	6/30/2026	104.1984521	103.1737497	102.1692455	101.1843462	100.2184812	99.27110238	98.34168207	97.42971269	96.53470563
ADV1011926	12/30/2024	4.262	12/30/2026	106.5502724	105.0175923	103.5150852	102.0419366	100.597361	99.1806003	97.79092292	96.42762226	95.09001587
ADV1011927	12/30/2024	4.291	12/30/2027	111.331085	108.723342	106.1913386	103.7324286	101.3440749	99.02384491	96.76940493	94.57851587	92.4490286
ADV1011953	12/31/2024	4.577	9/13/2030	124.0439365	118.3619081	112.9827234	107.8885036	103.0625263	98.48914468	94.15371138	90.04250936	86.14268739
ADV1011954	12/31/2024	4.577	9/13/2030	124.0439365	118.3619081	112.9827234	107.8885036	103.0625263	98.48914468	94.15371138	90.04250936	86.14268739
ADV1011955	12/31/2024	4.579	9/20/2030	124.1304493	118.4256397	113.0258478	107.9130082	103.0702287	98.4817067	94.13265302	90.00922067	86.0984396
ADV1011956	12/31/2024	4.579	9/20/2030	124.1304493	118.4256397	113.0258478	107.9130082	103.0702287	98.4817067	94.13265302	90.00922067	86.0984396
ADV1011964	12/31/2024	4.347	7/14/2027	109.1373237	107.0315725	104.9777825	102.9743303	101.0196548	99.11225522	97.25068757	95.43356246	93.65954246
ADV1011966	12/31/2024	4.347	7/14/2027	109.1373237	107.0315725	104.9777825	102.9743303	101.0196548	99.11225522	97.25068757	95.43356246	93.65954246
ADV1011968	12/31/2024	4.35	8/10/2027	109.4879614	107.3038646	105.1749081	103.0993168	101.0753871	99.10148293	97.17603316	95.2975279	93.46451581
ADV1011969	12/31/2024	4.35	8/10/2027	109.4879614	107.3038646	105.1749081	103.0993168	101.0753871	99.10148293	97.17603316	95.2975279	93.46451581
ADV1011970	12/31/2024	4.35	8/10/2027	109.4879614	107.3038646	105.1749081	103.0993168	101.0753871	99.10148293	97.17603316	95.2975279	93.46451581
ADV1011974	12/31/2024	4.248	12/31/2026	106.5417326	105.0063901	103.5013225	102.0257113	100.5787674	99.15972886	97.76786066	96.40245292	95.06282
ADV1011979	12/31/2024	4.341	12/31/2025	102.0284585	101.5156828	101.0080596	100.5055116	100.007963	99.51533951	99.02756821	98.54457772	98.06629804
ADV1009328	1/16/2025	3.548	2/5/2027	105.7621343	104.1352514	102.5416022	100.9802359	99.45023785	97.95072787	96.48085835	95.03981289	93.62680483
ADV1009592	1/17/2025	3.644	1/20/2026	101.865027	101.297499	100.736305	100.1813391	99.63249776	99.08967987	98.55278643	98.02172064	97.49638782
ADV1009593	1/17/2025	3.43	1/19/2027	105.3875225	103.8114343	102.2669939	100.7533196	99.26956209	97.81490291	96.38855312	94.9897519	93.61776532
ADV1011076	1/30/2025	4.562	1/30/2032	128.8340219	121.5605794	114.7622457	108.4052247	102.4583024	96.8926367	91.68156462	86.80042667	82.22640623
ADV1011669	1/2/2025	4.337	1/2/2030	120.0594215	115.2095943	110.5890932	106.1858136	101.9883553	97.98597699	94.16855514	90.52654483	87.05094367
ADV1011670	1/2/2025	4.337	1/2/2030	120.0594215	115.2095943	110.5890932	106.1858136	101.9883553	97.98597699	94.16855514	90.52654482	87.05094367
ADV1011671	1/2/2025	4.337	1/2/2030	120.0594215	115.2095943	110.5890932	106.1858136	101.9883553	97.98597699	94.16855514	90.52654482	87.05094367
ADV1012359	1/15/2025	4.358	12/15/2025	101.8787115	101.3975469	100.9208344	100.4485123	99.98052006	99.5167982	99.05728837	98.60193326	98.15067662
ADV1012847	1/31/2025	4.294	1/29/2027	106.8755436	105.2599132	103.6770117	102.1259136	100.6057278	99.11559627	97.6546924	96.22221959	94.8174099
ADV1012503	1/21/2025	4.35	12/22/2025	101.9529488	101.451846	100.9555667	100.4640412	99.97720144	99.49498066	99.01731327	98.54413495	98.07538258
ADV1012768	1/29/2025	4.263	1/31/2028	111.661064	108.9599014	106.3390689	103.7956794	101.3269699	98.93029441	96.6031189	94.34301524	92.14765617
ADV1012843	1/31/2025	4.315	1/30/2026	102.3568724	101.7601015	101.1702928	100.5873249	100.0110792	99.44144002	98.87829409	98.32153085	97.77104218
ADV1012149	1/7/2025	4.383	7/7/2025	100.1054315	100.0856045	100.0657981	100.0460122	100.0262468	100.006502	99.98677757	99.96707358	99.94738996
ADV1012642	1/24/2025	4.241	1/26/2026	102.3094533	101.7233894	101.1440511	100.5713228	100.0050918	99.44524787	98.89168314	98.34429227	97.80297224
ADV1012803	1/30/2025	4.395	7/30/2025	100.3537467	100.2688197	100.1840349	100.0993921	100.0148909	99.9305309	99.8463118	99.76223325	99.67829491
ADV1012498	1/21/2025	4.373	10/21/2025	101.2679932	100.9459056	100.6258351	100.3077628	99.9916699	99.6775379	99.36534851	99.0550837	98.74672563

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012254	1/13/2025	4.414	10/14/2025	101.2097123	100.9072841	100.606638	100.3077581	100.0106288	99.71523458	99.4215602	99.12959056	98.83931076
ADV1012757	1/29/2025	4.42	7/29/2025	100.3451179	100.2630095	100.1810365	100.0991983	100.0174949	99.93592567	99.85449047	99.77318893	99.69202073
ADV1012264	1/13/2025	4.42	8/13/2025	100.5150276	100.3900794	100.265452	100.1411442	100.0171545	99.89348186	99.7701249	99.64708238	99.52435306
ADV1012278	1/13/2025	4.418	8/13/2025	100.514771	100.3898242	100.2651983	100.1408918	100.0169036	99.89323238	99.76987683	99.64683572	99.52410781
ADV1012361	1/15/2025	4.327	1/15/2026	102.1951241	101.6403371	101.0915907	100.5487864	100.0118279	99.48062084	98.95507287	98.43509369	97.92059489
ADV1012605	1/23/2025	4.327	1/23/2026	102.2851902	101.7079959	101.1373297	100.5730812	100.0151423	99.46340737	98.91777321	98.37813883	97.84440548
ADV1012490	1/21/2025	4.418	7/21/2025	100.2581809	100.1987113	100.1393264	100.0800263	100.0208105	99.96167907	99.90263169	99.84366821	99.78478844
ADV1012174	1/8/2025	4.344	9/8/2025	100.7924933	100.5932837	100.3948557	100.1972047	100.0003261	99.80421522	99.60886761	99.41427873	99.22044411
ADV1012604	1/23/2025	4.345	11/24/2025	101.635826	101.2159256	100.7994252	100.3862834	99.97645986	99.56991456	99.16660831	98.76650249	98.36955909
ADV1012395	1/16/2025	4.377	1/19/2027	106.8802197	105.2919302	103.7355052	102.210057	100.7147304	99.2487016	97.81117621	96.40138826	95.01859887
ADV1012115	1/6/2025	4.376	7/7/2025	100.1054149	100.0855861	100.065778	100.0459905	100.0262235	100.0064769	99.98675085	99.9670452	99.94735992
ADV1012452	1/17/2025	4.371	10/17/2025	101.2236013	100.9128677	100.6040149	100.2970256	99.9918829	99.68857018	99.38707087	99.08736864	98.78944737
ADV1012153	1/10/2025	4.442	1/10/2028	111.6725514	109.033759	106.4721503	103.9850043	101.5697139	99.22378003	96.94480684	94.73049642	92.57864419
ADV1012650	1/24/2025	4.503	1/24/2030	121.0689066	116.1336867	111.4340073	106.9573126	102.6917854	98.62629932	94.75037481	91.05413771	87.52828104
ADV1012751	1/29/2025	4.291	1/29/2026	102.331466	101.7375424	101.1505182	100.5702736	99.99669154	99.42965774	98.86906046	98.31479048	97.76674107
ADV1012441	1/17/2025	4.351	1/20/2026	102.265506	101.6966793	101.1341969	100.5779529	100.0278436	99.48376766	98.94562609	98.41332191	97.88676028
ADV1012226	1/10/2025	4.459	1/11/2027	106.9040692	105.3375066	103.8021295	102.2970801	100.8215317	99.37468701	97.95577716	96.56406031	95.19882041
ADV1012826	2/3/2025	4.332	2/3/2028	111.6935312	108.9871847	106.3614329	103.8133742	101.3402312	98.93934516	96.60816971	94.34426526	92.14529378
ADV1012846	1/31/2025	4.301	7/31/2026	104.5490289	103.4369265	102.3485453	101.2831315	100.2399631	99.21834783	98.21762205	97.2371491	96.27631797
ADV1012505	1/21/2025	4.31	1/21/2026	102.2529995	101.6814379	101.1162814	100.5574226	100.0047564	99.45817998	98.91759297	98.38289706	97.85399613
ADV1012230	1/10/2025	4.377	11/10/2025	101.4933828	101.1132173	100.7358448	100.3612343	99.98935555	99.62017869	99.25367426	98.88981322	98.52856697
ADV1012401	1/16/2025	4.532	1/16/2030	121.1123757	116.1989114	111.5190415	107.0603615	102.8111935	98.76053965	94.89803856	91.21392519	87.69899317
ADV1012221	1/10/2025	4.524	10/25/2027	110.8732382	108.4603958	106.1129287	103.8286821	101.6055859	99.44165103	97.3349658	95.28369211	93.2860623
ADV1012440	1/17/2025	4.387	8/15/2025	100.5328525	100.402286	100.2720688	100.1421995	100.0126766	99.88349878	99.7546645	99.62617239	99.49802103
ADV1012152	1/10/2025	4.442	1/10/2028	111.6725514	109.033759	106.4721503	103.9850043	101.5697139	99.22378003	96.94480684	94.73049642	92.57864419
ADV1012086	1/6/2025	4.349	9/8/2025	100.7938078	100.5945449	100.3960639	100.19836	100.0014287	99.80526534	99.60986547	99.41522453	99.22133807
ADV1012855	1/31/2025	4.406	7/29/2025	100.3435851	100.261502	100.1795542	100.0977414	100.0160631	99.93451902	99.85310893	99.77183246	99.69068928
ADV1012373	1/15/2025	4.361	12/11/2025	101.8345055	101.3649364	100.8996087	100.4384652	99.98144931	99.52850583	99.07958038	98.63461956	98.19357094
ADV1012398	1/16/2025	4.544	1/16/2030	121.1678177	116.253092	111.5720046	107.1121492	102.8618461	98.81009554	94.94653471	91.26139695	87.74547441
ADV1012534	1/21/2025	4.401	8/21/2025	100.6008697	100.4532623	100.3060938	100.1593623	100.0130659	99.86720247	99.72177018	99.57676705	99.43219115
ADV1012298	1/14/2025	4.361	1/14/2026	102.2025635	101.6505186	101.1044546	100.5642744	100.0298831	99.50118755	98.97809693	98.46052219	97.94837616
ADV1012610	1/23/2025	4.326	1/23/2026	102.2846157	101.7074233	101.136759	100.5725123	100.0145752	99.46284212	98.91720978	98.3775772	97.84384563
ADV1012501	1/21/2025	4.364	11/21/2025	101.610623	101.1992268	100.7910979	100.3861976	99.98448756	99.58593014	99.19048826	98.79812543	98.40880574

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012394	1/16/2025	4.327	1/16/2026	102.2063824	101.648794	101.0973068	100.5518206	100.0122377	99.47846226	98.95040077	98.42796154	97.91105489
ADV1012057	1/2/2025	4.35	11/28/2025	101.6852558	101.2527234	100.8237804	100.3983824	99.97648543	99.55804662	99.14302359	98.73137469	98.32305895
ADV1012722	1/28/2025	4.291	1/28/2026	102.3203062	101.7291819	101.1448946	100.5673261	99.99636095	99.43188628	98.87379178	98.32196962	97.77631441
ADV1012427	1/16/2025	4.327	7/16/2026	104.3883113	103.3189565	102.2715831	101.2455172	100.2401124	99.25474802	98.2888282	97.34178046	96.41305461
ADV1012550	1/22/2025	4.357	1/22/2027	106.8867613	105.2901869	103.7257369	102.1925121	100.6896468	99.21630668	97.77168776	96.35501486	94.96554036
ADV1012431	1/16/2025	4.348	10/16/2025	101.2056397	100.8977958	100.5917985	100.2876313	99.98527756	99.68472106	99.38594572	99.08893564	98.79367511
ADV1012611	1/23/2025	4.289	7/23/2026	104.5116736	103.4209731	102.3531072	101.3073634	100.2830583	99.2795366	98.29616943	97.33235309	96.38750781
ADV1012706	1/28/2025	4.292	1/28/2027	106.8598335	105.2470592	103.6669259	102.1185115	100.6009287	99.1133228	97.6548705	96.22477827	94.82228105
ADV1012228	1/10/2025	4.541	1/10/2028	111.9266706	109.2845889	106.7197652	104.229476	101.811112	99.46217217	97.18025852	94.96307119	92.80840373
ADV1012087	1/3/2025	4.464	1/3/2030	120.6525098	115.7864557	111.1504357	106.7323066	102.5206317	98.50463612	94.67416428	91.01964149	87.53203739
ADV1012510	1/21/2025	4.391	9/22/2025	100.9553985	100.7164008	100.478522	100.2417542	100.0060896	99.77152037	99.53803892	99.30563762	99.07430897
ADV1012814	1/30/2025	4.396	7/30/2025	100.3538355	100.2689081	100.184123	100.0994798	100.0149781	99.93061771	99.8463982	99.76231924	99.67838048
ADV1012397	1/16/2025	4.504	1/16/2029	116.5600376	112.78972	109.1647683	105.6787587	102.3255886	99.099459	95.99485713	93.00654081	90.12952348
ADV1012775	1/30/2025	4.239	1/31/2028	111.5978497	108.897523	106.2775075	103.7349169	101.2669884	98.87107688	96.54464867	94.28527615	92.09063256
ADV1012531	1/21/2025	4.36	12/9/2025	101.8105867	101.3471436	100.8878346	100.4326046	99.98139929	99.53416541	99.09085062	98.65140348	98.21577347
ADV1012424	1/16/2025	4.396	7/16/2025	100.2028398	100.1575285	100.1122757	100.067081	100.0219445	99.97686602	99.9318454	99.88688255	99.84197735
ADV1012566	1/22/2025	4.364	7/23/2026	104.5165469	103.4269418	102.3601301	101.315401	100.2920729	99.289492	98.30703103	97.34408772	96.40008368
ADV1012059	1/2/2025	4.345	12/29/2025	102.0319792	101.5094178	100.9920737	100.4798691	99.9727279	99.47057528	98.97333804	98.48094435	97.9933238
ADV1012302	1/14/2025	4.461	11/16/2026	106.1629809	104.7560407	103.3747337	102.0184181	100.6864729	99.37829755	98.09331048	96.83094884	95.59066754
ADV1012494	1/21/2025	4.4	8/21/2025	100.6007196	100.4531129	100.3059453	100.1592147	100.0129191	99.8670565	99.72162505	99.57662275	99.43204768
ADV1012581	1/22/2025	4.234	1/22/2026	102.2602655	101.6854244	101.1170619	100.5550685	99.9993374	99.44976413	98.90624651	98.36868464	97.83698078
ADV1012276	1/13/2025	4.426	7/14/2025	100.1827846	100.1431246	100.1035135	100.0639512	100.0244376	99.98497264	99.94555613	99.90618803	99.86686824
ADV1012396	1/16/2025	4.443	1/18/2028	111.7766712	109.1142602	106.5301781	104.0216442	101.5859949	99.22067842	96.92324895	94.6913616	92.52276751
ADV1012774	1/30/2025	4.391	1/30/2030	120.6150132	115.673172	110.9679967	106.4868321	102.2177699	98.1496001	94.27176664	90.57432507	87.047904
ADV1012825	2/3/2025	4.332	2/3/2028	111.6935312	108.9871847	106.3614329	103.8133742	101.3402312	98.93934516	96.60816971	94.34426526	92.14529378
ADV1012117	1/6/2025	4.52	1/7/2030	120.9546847	116.0704158	111.4173992	106.9834062	102.7569212	98.72709579	94.88370697	91.2171172	87.71823799
ADV1012374	1/15/2025	4.371	12/10/2026	106.3520716	104.8771532	103.4302642	102.0106733	100.6176742	99.2505846	97.90874489	96.59151754	95.29828599
ADV1012575	1/22/2025	4.316	1/22/2026	102.2676421	101.6932689	101.1253622	100.5638131	100.008515	99.45936365	98.9162573	98.37909629	97.8477832
ADV1012672	1/27/2025	4.303	7/27/2026	104.5007288	103.4000702	102.3226647	101.2677803	100.2347152	99.22279668	98.23137939	97.25984401	96.30759598
ADV1012288	1/14/2025	4.352	1/14/2026	102.1976141	101.6455849	101.0995365	100.5593717	100.0249957	99.49631533	98.97323979	98.45568001	97.94354883
ADV1008844	2/21/2025	4.012	8/21/2025	100.5379251	100.3911442	100.2448	100.0988903	99.95341312	99.80836663	99.66374882	99.51955777	99.37579155
ADV1009275	2/10/2025	3.681	6/12/2026	103.3380937	102.3689971	101.4181002	100.4848932	99.56888527	98.66960347	97.78659218	96.9194122	96.06764001
ADV1011667	2/3/2025	4.647	2/1/2035	138.9664421	128.1707157	118.3490499	109.4070791	101.2600865	93.83196973	87.05432306	80.86562054	75.21049055

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1011668	2/3/2025	4.647	2/1/2035	138.9664421	128.1707157	118.3490499	109.4070791	101.2600865	93.83196973	87.05432306	80.86562054	75.21049055
ADV1012737	2/28/2025	4.332	3/1/2028	112.0432505	109.2521336	106.5459356	103.9215233	101.3759026	98.90621047	96.50970895	94.18377811	91.92591024
ADV1012740	2/28/2025	4.418	3/1/2030	121.105078	116.0585913	111.2574969	106.688468	102.338978	98.19724763	94.25219617	90.49339564	86.91102866
ADV1012739	2/28/2025	4.418	3/1/2030	121.105078	116.0585913	111.2574969	106.688468	102.338978	98.19724763	94.25219617	90.49339564	86.91102866
ADV1013278	2/20/2025	4.355	2/25/2028	112.0418155	109.2653814	106.5730801	103.9618213	101.4286509	98.97074381	96.58539736	94.27002491	92.02215007
ADV1013496	2/26/2025	4.15	2/28/2028	111.5262487	108.7478945	106.0539851	103.4414094	100.907194	98.448496	96.06259587	93.74689136	91.4988914
ADV1013132	2/13/2025	4.418	11/10/2025	101.5036424	101.1248797	100.7488997	100.3756715	100.005165	99.63735034	99.27219829	98.90967988	98.5497666
ADV1013330	2/21/2025	4.335	2/23/2026	102.6475588	101.9833554	101.3277613	100.6806097	100.041738	99.41098789	98.78820508	98.17323909	97.56594325
ADV1012934	2/5/2025	4.277	3/5/2027	107.3297486	105.6062402	103.9190525	102.2671017	100.649347	99.06478917	97.5124678	95.99145971	94.50087707
ADV1013487	2/26/2025	4.205	2/28/2028	111.674897	108.8945211	106.1986371	103.5841325	101.0480325	98.5874927	96.19979233	93.88232783	91.63260695
ADV1012999	2/7/2025	4.289	2/9/2026	102.5025698	101.8770854	101.2592512	100.6489271	100.0459766	99.45026634	98.86166622	98.28004928	97.70529153
ADV1013086	2/12/2025	4.355	2/12/2026	102.5779761	101.9439028	101.3176876	100.6991848	100.0882521	99.48475103	98.88854622	98.29950567	97.71750053
ADV1012996	2/10/2025	4.395	2/10/2028	111.9515737	109.2209573	106.572098	104.0020332	101.5079288	99.08707223	96.73686674	94.4548252	92.23856487
ADV1013100	2/12/2025	4.52	9/27/2028	115.2329382	111.7998301	108.4892291	105.2959977	102.2152504	99.24233872	96.37283849	93.60253678	90.92742049
ADV1013229	2/18/2025	4.465	8/18/2025	100.5719963	100.4333582	100.2951122	100.1572568	100.0197901	99.88271048	99.74601632	99.60970591	99.4737776
ADV1012993	2/10/2025	4.426	2/12/2029	116.6210297	112.7700661	109.0700517	105.5141997	102.0960698	98.80954827	95.64882927	92.6083974	89.68301132
ADV1012953	2/5/2025	4.289	2/7/2028	111.631734	108.9143093	106.2780783	103.7201066	101.2375864	98.82783024	96.48826467	94.21642477	92.00994865
ADV1013087	2/12/2025	4.355	2/12/2026	102.5779761	101.9439028	101.3176876	100.6991848	100.0882521	99.48475103	98.88854622	98.29950567	97.71750053
ADV1013175	2/14/2025	4.435	8/14/2025	100.5229755	100.3956579	100.2686741	100.1420228	100.0157026	99.88971205	99.76404995	99.63871493	99.51370566
ADV1013396	2/24/2025	4.459	7/31/2025	100.3664349	100.2789069	100.1915279	100.1042977	100.0172157	99.93028171	99.84349529	99.7568561	99.67036377
ADV1013131	2/13/2025	4.396	1/13/2026	102.2254409	101.6616265	101.1039133	100.5522028	100.0063982	99.46640512	98.93213091	98.40348502	97.88037881
ADV1012991	2/10/2025	4.39	2/10/2027	107.20095	105.5467942	103.9265923	102.3393654	100.784172	99.26010642	97.76629693	96.30190416	94.8661196
ADV1012917	2/4/2025	4.348	11/4/2025	101.4124394	101.0507242	100.691541	100.3348633	99.98066502	99.62892031	99.27960374	98.93269021	98.58815496
ADV1013002	2/7/2025	4.296	4/7/2027	107.9142696	106.0921205	104.3099184	102.5664538	100.8605658	99.19113958	97.55710414	95.95743	94.39112726
ADV1012954	2/5/2025	4.347	11/5/2025	101.4229956	101.0584514	100.6964805	100.3370558	99.98015037	99.62573782	99.27379206	98.92428736	98.57719837
ADV1013130	2/13/2025	4.448	8/13/2025	100.5135729	100.3890711	100.2648889	100.1410251	100.0174784	99.89424752	99.77133123	99.64872826	99.52643737
ADV1012964	2/6/2025	4.388	9/8/2025	100.7967504	100.5981674	100.4003636	100.2033343	100.007075	99.811581	99.61684786	99.42287107	99.22964617
ADV1012997	2/11/2025	4.395	2/11/2028	111.9647311	109.2309621	106.5791096	104.0062027	101.5093993	99.08597919	96.73333867	94.44898397	92.23052609
ADV1012992	2/10/2025	4.408	2/10/2028	111.9860656	109.2549884	106.605679	104.0351744	101.54064	99.11936327	96.7687469	94.48630356	92.26965023
ADV1013280	2/20/2025	4.352	8/2/2027	109.3917144	107.2307725	105.1240087	103.0696942	101.0661685	99.11183704	97.20516712	95.3446855	93.52897542
ADV1012874	2/3/2025	4.354	2/3/2026	102.4308331	101.8227452	101.2218851	100.6281244	100.0413377	99.46140252	98.88819933	98.32161127	97.76152421
ADV1013135	2/14/2025	4.46	2/14/2029	116.7720449	112.9120715	109.2035706	105.639723	102.2140585	98.92043545	95.75302192	92.70627813	89.77493996
ADV1012919	2/4/2025	4.333	12/4/2025	101.7401864	101.2920494	100.8477816	100.407333	99.97065459	99.53769806	99.10841599	98.68276175	98.26068948

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013121	2/13/2025	4.42	2/16/2027	103.5969197	102.7465367	101.9114035	101.0910968	100.2852095	99.49334983	98.71514041	97.95021791	97.19823219
ADV1013276	2/20/2025	4.458	8/20/2025	100.5932714	100.4489911	100.3051331	100.1616955	100.0186763	99.87607374	99.7338859	99.59211096	99.45074708
ADV1013344	2/21/2025	4.455	7/21/2025	100.2554038	100.1961465	100.1369737	100.0778853	100.018881	99.9599607	99.90112417	99.84237124	99.78370174
ADV1013403	2/24/2025	4.301	1/21/2026	102.2473916	101.6758683	101.1107496	100.5519281	99.99929864	99.45275856	98.91220739	98.37754686	97.84868085
ADV1012994	2/11/2025	4.38	2/11/2027	107.1985731	105.5414026	103.9182868	102.3282424	100.7703236	99.24362074	97.74725832	96.28039339	94.84221409
ADV1013296	2/20/2025	4.278	2/22/2027	107.3023226	105.6088349	103.9506181	102.3266353	100.7358905	99.17742646	97.65032253	96.15369318	94.68668615
ADV1013453	2/25/2025	4.142	2/25/2026	102.5880499	101.9179386	101.2565913	100.6038369	99.95950854	99.32344362	98.69548382	98.07547479	97.46326609
ADV1013489	2/26/2025	4.135	2/26/2027	107.1170404	105.4130267	103.7446696	102.1109149	100.5107498	98.94320137	97.40733414	95.90224855	94.42707909
ADV1012951	2/5/2025	4.288	2/5/2027	106.9648746	105.3278829	103.7243062	102.1531887	100.613611	99.10468823	97.62556823	96.17543034	94.75348371
ADV1013005	2/7/2025	4.416	12/17/2029	120.2416227	115.4328209	110.8493236	106.4793475	102.311788	98.33617652	94.54264091	90.92186801	87.4650692
ADV1012942	2/5/2025	4.223	2/5/2026	102.4156379	101.8015319	101.1948017	100.5953147	100.0029417	99.41755634	98.83903542	98.26725851	97.70210801
ADV1013096	2/12/2025	4.498	2/12/2030	121.6366317	116.6200474	111.8453586	107.2995359	102.9703257	98.84619866	94.91630323	91.17042166	87.59892945
ADV1012871	2/3/2025	4.341	2/3/2026	102.4229579	101.8148969	101.2140636	100.6203295	100.0335691	99.45366003	98.88048273	98.31392034	97.75385874
ADV1013557	2/28/2025	4.218	2/27/2026	102.613777	101.9386637	101.2724399	100.6149309	99.96596641	99.32538059	98.69301186	98.06870279	97.45229994
ADV1012952	2/5/2025	4.29	10/5/2026	105.3878208	104.0887939	102.8201276	101.5807581	100.3696708	99.18589794	98.02851572	96.89664174	95.78943277
ADV1013000	2/7/2025	4.3	8/7/2026	104.7209718	103.5871101	102.4778798	101.3924833	100.3301575	99.29017128	98.27182432	97.27444526	96.2973903
ADV1013457	2/25/2025	4.246	2/25/2026	102.6107511	101.9411511	101.2802998	100.6280266	99.9841651	99.34855319	98.72103293	98.10145042	97.48965559
ADV1013395	2/24/2025	4.304	4/1/2026	103.0601387	102.2919068	101.5351426	100.7895906	100.0550029	99.33113858	98.61776405	97.91465228	97.22158281
ADV1013093	2/12/2025	4.364	2/12/2026	102.5836503	101.9495568	101.3233216	100.7047989	100.0938466	99.49032596	98.89410181	98.30504208	97.72301792
ADV1013254	2/19/2025	4.374	2/19/2026	102.6266481	101.9735894	101.3288596	100.6922998	100.0637551	99.44307459	98.83011117	98.22472129	97.62676498
ADV1013275	2/20/2025	4.479	7/21/2025	100.2570862	100.1978159	100.1386301	100.0795286	100.0205113	99.96157805	99.90272855	99.84396268	99.78528025
ADV1012998	2/11/2025	4.426	2/12/2029	116.6208643	112.7698939	109.0698731	105.5140151	102.0958795	98.80935267	95.64862868	92.60819213	89.68280166
ADV1013347	2/21/2025	4.402	9/22/2025	100.9531856	100.7150504	100.47803	100.2421166	100.0073024	99.77357968	99.54094078	99.30937814	99.07888427
ADV1012995	2/11/2025	4.395	2/11/2028	111.9647311	109.2309621	106.5791096	104.0062027	101.5093993	99.08597919	96.73333867	94.44898397	92.23052609
ADV1013452	2/25/2025	4.222	2/25/2026	102.5947689	101.9252285	101.2644364	100.6122218	99.9684184	99.33286403	98.7054008	98.08587479	97.47413596
ADV1012944	2/5/2025	4.223	2/5/2026	102.4156379	101.8015319	101.1948017	100.5953147	100.0029417	99.41755634	98.83903542	98.26725851	97.70210801
ADV1013253	2/19/2025	4.462	8/19/2025	100.5827152	100.4412555	100.300203	100.1595559	100.0193122	99.87947039	99.74002855	99.60098497	99.46233789
ADV1013327	2/21/2025	4.249	2/22/2028	111.9147534	109.1446635	106.4584105	103.8529204	101.3252541	98.87260044	96.49227011	94.18168886	91.93839193
ADV1013136	2/14/2025	4.486	2/14/2030	121.2454291	116.2423972	111.4806835	106.9472863	102.6299781	98.51725444	94.59828735	90.86288147	87.3014336
ADV1012976	2/6/2025	4.28	2/6/2030	120.5399926	115.5676473	110.8346229	106.3280612	102.0358666	97.94665678	94.04971617	90.33495342	86.79286141
ADV1013277	2/20/2025	4.352	3/25/2027	107.7134203	105.9316739	104.188353	102.4822794	100.8123236	99.17740194	97.57647488	96.00854413	94.47265082
ADV1013142	2/13/2025	4.436	9/15/2025	100.8834483	100.6650258	100.4475468	100.231005	100.0153944	99.80070885	99.58694234	99.37408893	99.16214269
ADV1012935	2/5/2025	4.306	1/5/2026	102.0862655	101.5456266	101.0105964	100.4810879	99.95701589	99.43829706	98.92484968	98.41659371	97.91345074

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012888	2/3/2025	4.394	9/3/2025	100.7424457	100.5580401	100.3743009	100.1912245	100.0088072	99.82704558	99.64593599	99.46547494	99.28565894
ADV1012945	2/5/2025	4.302	2/5/2026	102.4216156	101.8080229	101.2017926	100.6027924	100.0108933	99.42596965	98.84789834	98.27655936	97.71183546
ADV1012950	2/5/2025	4.283	4/5/2027	107.7357817	105.9232449	104.1503137	102.4157825	100.718495	99.05734101	97.43125436	95.83921077	94.28022564
ADV1013095	2/12/2025	4.444	10/21/2025	101.287268	100.9658592	100.6464632	100.3290613	100.0136345	99.70016451	99.38863306	99.07902212	98.77131391
ADV1012943	2/5/2025	4.223	2/5/2026	102.4156379	101.8015319	101.1948017	100.5953147	100.0029417	99.41755634	98.83903542	98.26725851	97.70210801
ADV1013279	2/20/2025	4.357	2/20/2026	102.6272276	101.9713952	101.3239615	100.6847657	100.0536511	99.43046472	98.81505776	98.20728494	97.60700464
ADV1013494	2/26/2025	4.199	2/26/2030	120.0333462	115.0209066	110.2521504	105.7138551	101.3935911	97.27966969	93.36109405	89.62751466	86.06918726
ADV1013345	2/21/2025	4.428	8/21/2025	100.5999303	100.4528486	100.3062043	100.1599954	100.01422	99.86887615	99.72396185	99.57947517	99.4354142
ADV1013089	2/12/2025	4.416	1/14/2026	102.2328096	101.680669	101.13451	100.5942355	100.0597506	99.53096221	99.00777947	98.4901133	97.97787655
ADV1012882	2/3/2025	4.268	2/3/2026	102.4206212	101.8120402	101.2107001	100.6164723	100.0292308	99.44885302	98.87521887	98.30821123	97.74771563
ADV1012873	2/3/2025	4.351	2/3/2026	102.4290157	101.820934	101.2200801	100.6263255	100.0395449	99.45961579	98.88641858	98.31983644	97.75975525
ADV1013134	2/14/2025	4.46	2/14/2029	116.7720449	112.9120715	109.2035706	105.639723	102.2140585	98.92043545	95.75302192	92.70627813	89.77493996
ADV1012962	2/6/2025	4.378	10/6/2025	101.1058998	100.8273241	100.5502623	100.274702	100.000631	99.7280372	99.45690862	99.1872334	98.91899984
ADV1013173	2/14/2025	4.435	8/14/2025	100.5229755	100.3956579	100.2686741	100.1420228	100.0157026	99.88971205	99.76404995	99.63871493	99.51370566
ADV1013055	2/11/2025	4.462	9/25/2029	119.485494	114.9307534	110.5797425	106.4221589	102.4482849	98.64894973	95.01549585	91.53974648	88.21397599
ADV1013328	2/21/2025	4.304	2/21/2030	120.8324316	115.8061419	111.0236209	106.4716692	102.1378772	98.01057327	94.07877536	90.33214638	86.76095256
ADV1013177	2/14/2025	4.386	11/14/2025	101.5377232	101.1475679	100.7603658	100.3760831	99.99468696	99.61614478	99.24042452	98.8674946	98.49732393
ADV1009311	3/3/2025	3.668	4/3/2026	102.5982709	101.826444	101.0662342	100.3173803	99.57962912	98.852735	98.13645935	97.43057059	96.73484383
ADV1009444	3/3/2025	3.417	3/12/2027	105.939209	104.2089026	102.5153982	100.8575864	99.23440233	97.64482415	96.08787025	94.56259749	93.06809922
ADV1013398	4/1/2025	4.341	4/1/2030	121.0785399	115.944879	111.0647298	106.4241128	102.0099019	97.80976706	93.81212068	90.00606871	86.38136484
ADV1013399	4/1/2025	4.267	3/31/2028	112.2360458	109.3589363	106.5714881	103.8703044	101.2521437	98.71391161	96.2526527	93.86554299	91.54988312
ADV1013400	4/1/2025	4.267	3/31/2028	112.2360458	109.3589363	106.5714881	103.8703044	101.2521437	98.71391161	96.2526527	93.86554299	91.54988312
ADV1013401	4/1/2025	4.253	3/31/2028	112.1969453	109.3203841	106.5334711	103.8328099	101.2151595	98.67742592	96.21665398	93.83002012	91.51482532
ADV1013465	3/17/2025	4.172	3/17/2028	111.8019789	108.969728	106.2247979	103.5639198	100.9839723	98.48197349	96.05507356	93.70054779	91.41579007
ADV1013466	3/17/2025	4.214	3/19/2029	116.2591109	112.3117438	108.5226387	104.8845127	101.3904648	98.03395346	94.80877514	91.70904463	88.72917654
ADV1013468	3/17/2025	4.216	3/18/2030	120.3263663	115.2500582	110.4229291	105.831323	101.4624124	97.30414223	93.34517915	89.57486376	85.98316655
ADV1013478	3/17/2025	4.219	3/18/2030	120.3407358	115.2640891	110.4366336	105.8447128	101.4754985	97.31693528	93.35768929	89.58710071	85.99513959
ADV1013479	3/17/2025	4.216	3/19/2029	116.2666632	112.3191546	108.5299123	104.8916531	101.3974758	98.04083887	94.81553856	91.71568953	88.73570627
ADV1014920	4/25/2025	3.88	4/26/2027	107.2618583	105.3943632	103.5687541	101.7838308	100.0384359	98.33145279	96.66180414	95.02845004	93.43038654
ADV1014337	4/3/2025	3.959	4/3/2026	102.8759053	102.1021876	101.3401205	100.5894421	99.84989811	99.12124208	98.40323457	97.6956432	96.9982423
ADV1014411	4/4/2025	3.676	4/4/2028	110.8321977	107.9587969	105.1754851	102.4788517	99.86564112	97.33274412	94.87719028	92.49614051	90.18688017
ADV1014622	4/15/2025	4.467	7/14/2025	100.1691965	100.1299713	100.0907945	100.051666	100.0125856	99.97355321	99.93456883	99.89563233	99.8567436
ADV1014618	4/15/2025	3.954	4/15/2027	107.2671426	105.4306471	103.6347938	101.8783816	100.1602551	98.47930279	96.83445496	95.22468146	93.64899005

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013937	3/17/2025	4.453	7/7/2025	100.095635	100.0759667	100.0563189	100.0366914	100.0170843	99.99749754	99.97793105	99.95838482	99.93885881
ADV1014795	4/22/2025	3.888	10/22/2026	105.1597923	103.8233286	102.5130905	101.2283238	99.96830314	98.73233121	97.51973696	96.32987452	95.16212198
ADV1014210	3/28/2025	4.011	3/28/2028	111.4826943	108.6243892	105.8550237	103.1712357	100.5698163	98.0477019	95.6019659	93.22981172	90.9285658
ADV1014361	4/3/2025	3.853	4/2/2027	106.9323014	105.1356214	103.3780784	101.6584701	99.97564359	98.32849325	96.71595787	95.13701853	93.59069646
ADV1014746	4/21/2025	4.441	4/23/2035	127.0987889	119.7476656	112.9807771	106.7451248	100.9929349	95.68110998	90.77074133	86.22667459	82.01712307
ADV1014374	4/3/2025	3.746	4/3/2028	111.0181147	108.1449597	105.3617907	102.6651994	100.0519327	97.51888384	95.0630853	92.68170088	90.37201895
ADV1015013	4/29/2025	3.821	4/30/2029	115.2143906	111.1668133	107.2860833	103.5644553	99.9945835	96.56949885	93.28258771	90.127572	87.09849039
ADV1013958	3/18/2025	4.13	3/18/2027	107.2378261	105.479518	103.7588363	102.0746379	100.425826	98.8113485	97.23019515	95.68139562	94.16401745
ADV1014364	4/3/2025	4.11	3/28/2031	123.3403398	117.1117543	111.2457659	105.719192	100.5104612	95.59949236	90.9675833	86.59730805	82.47242284
ADV1014661	4/17/2025	4.454	7/17/2025	100.2016995	100.1540683	100.1064998	100.0589938	100.0115502	99.96416891	99.91684975	99.86959262	99.82239738
ADV1014934	4/25/2025	3.933	10/26/2026	105.171511	103.8276367	102.5089641	101.2148156	99.94453771	98.69750055	97.47309622	96.27073804	95.08985963
ADV1014646	4/16/2025	3.89	11/16/2026	105.463408	104.0599972	102.6821837	101.3293262	100.0008045	98.69601833	97.41438695	96.15534803	94.91835708
ADV1014910	4/25/2025	4.448	7/25/2025	100.2889293	100.2188992	100.1489767	100.0791615	100.0094536	99.93985245	99.870358	99.80096996	99.73168807
ADV1014957	4/28/2025	4.3	10/28/2025	101.3066323	100.9684295	100.6324637	100.2987127	99.96715476	99.63776829	99.31053201	98.98542495	98.66242639
ADV1014717	4/21/2025	4.484	7/18/2025	100.2137351	100.1633183	100.1129692	100.0626876	100.0124735	99.96232672	99.91224708	99.86223446	99.81228872
ADV1013608	3/3/2025	4.164	3/3/2026	102.6269706	101.940742	101.2637009	100.5956635	99.93645095	99.28588904	98.64380814	98.01004304	97.3844328
ADV1013830	3/12/2025	4.026	9/14/2026	104.8817106	103.6404622	102.4286721	101.2452992	100.0893512	98.9598812	97.85598586	96.77680234	95.72150634
ADV1013641	3/4/2025	4.098	3/4/2027	107.0129693	105.2949779	103.613156	101.9664257	100.3537521	98.77414102	97.22663728	95.71032252	94.22431347
ADV1014042	3/21/2025	4.023	3/14/2028	111.356758	108.5389932	105.8079363	103.1603492	100.5931395	98.10335263	95.68816436	93.34487417	91.07089871
ADV1014907	4/25/2025	4.449	7/25/2025	100.2890012	100.2189709	100.1490482	100.0792329	100.0095247	99.93992346	99.87042883	99.80104061	99.73175856
ADV1014200	3/28/2025	3.988	9/28/2026	105.0039271	103.7226918	102.4727931	101.2530906	100.0624986	98.89998287	97.76455779	96.65528336	95.57126266
ADV1013624	3/4/2025	4.256	12/4/2025	101.7023064	101.2558808	100.8133096	100.3745432	99.93953241	99.50822936	99.08058673	98.65655807	98.23609771
ADV1013927	3/17/2025	4.13	5/31/2029	116.760305	112.5961005	108.6066611	104.7837189	101.1194413	97.6064053	94.23757419	91.00627521	87.90617889
ADV1013596	3/14/2025	4.111	3/14/2029	115.8148961	111.8898514	108.1217767	104.5034698	101.0281047	97.68920966	94.48064636	91.39659033	88.43151287
ADV1014142	3/27/2025	4.266	3/22/2030	120.6063286	115.5121133	110.6683644	106.0613305	101.6780957	97.5065242	93.53520775	89.75341798	86.1510617
ADV1014358	4/3/2025	3.849	4/3/2028	111.1018754	108.2320979	105.4520983	102.7584794	100.1479986	97.61755935	95.16420322	92.78510288	90.47755499
ADV1014377	4/3/2025	3.828	4/5/2027	106.9229683	105.1179199	103.3523381	101.6250214	99.93481718	98.28061878	96.66136363	95.07603076	93.52363879
ADV1014321	4/2/2025	4.157	4/2/2026	102.9630426	102.1924454	101.4333968	100.6856384	99.94891957	99.22299687	98.50763408	97.80260182	97.10767731
ADV1014860	4/24/2025	3.975	10/26/2026	105.2279312	103.8836614	102.5646001	101.2700695	99.99941606	98.75200959	97.52724204	96.32452657	95.14329665
ADV1014650	4/16/2025	4.374	9/10/2025	100.805426	100.6028249	100.4010425	100.2000737	99.99991364	99.80055731	99.60199983	99.40423634	99.20726202
ADV1014963	4/28/2025	3.956	4/28/2026	103.1504562	102.306204	101.4757863	100.6588649	99.85511251	99.06421225	98.28585747	97.51975116	96.76560563
ADV1014391	4/4/2025	3.661	4/4/2028	110.5853585	107.7199925	104.9443958	102.2551726	99.64908122	97.12302578	94.67404835	92.2993217	89.99614244
ADV1014470	4/8/2025	3.82	4/10/2028	111.0976318	108.2079387	105.4091828	102.6979369	100.0709278	97.52502708	95.05724425	92.66471937	90.34471632

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015016	4/29/2025	4.101	4/29/2031	123.5569044	117.2297853	111.2759604	105.6713755	100.3936466	95.42193599	90.73683799	86.32027349	82.15539296
ADV1014413	4/4/2025	3.784	4/4/2030	118.781571	113.6824811	108.8366267	104.2300011	99.84945348	95.682631	91.71792591	87.94442598	84.35186875
ADV1014917	4/25/2025	4.902	4/25/2040	155.7408165	138.7753114	124.0105792	111.1411748	99.90592725	90.08129759	81.47576314	73.92506599	67.28818849
ADV1014902	4/25/2025	4.116	4/27/2026	103.2147002	102.3737251	101.5464744	100.7326138	99.93181986	99.1437794	98.36818924	97.60475576	96.85319449
ADV1015079	4/30/2025	3.7	7/30/2027	107.9765628	105.8391092	103.7551802	101.7230725	99.74115025	97.80784174	95.92163638	94.08108178	92.2847811
ADV1015048	4/30/2025	3.727	4/30/2027	107.0245502	105.1480372	103.3138238	101.520711	99.76754128	98.05319722	96.37659943	94.7367052	93.13250701
ADV1014504	4/10/2025	4.073	4/10/2026	102.9881972	102.1953105	101.4146562	100.6459521	99.88892513	99.14331015	98.40885014	97.68529574	96.97240497
ADV1014203	3/28/2025	3.94	3/29/2027	107.1626739	105.3727257	103.6216121	101.9081347	100.2311453	98.58954272	96.98227071	95.40831535	93.866703
ADV1014369	4/3/2025	3.869	4/3/2030	118.8180011	113.7322182	108.8985547	104.3030828	99.93272515	95.77519757	91.81895613	88.05314808	84.4675664
ADV1013722	3/7/2025	4.25	11/19/2025	101.5364195	101.1332518	100.733244	100.3363588	99.94255977	99.55181089	99.16407675	98.77932248	98.39751375
ADV1013727	3/7/2025	4.007	3/7/2028	111.235079	108.4383828	105.7272712	103.098568	100.5492386	98.07638245	95.67722647	93.34911792	91.0895184
ADV1013630	3/18/2025	4.037	9/18/2029	117.5785389	113.0845203	108.7911981	104.6884519	100.7667335	97.01703053	93.43083259	90.00010052	86.71723714
ADV1014073	3/24/2025	4.382	9/9/2025	100.7994896	100.5991613	100.3996307	100.2008932	100.0029439	99.80577817	99.6093912	99.41377835	99.218935
ADV1013691	3/6/2025	4.226	1/6/2026	102.0510747	101.5097006	100.9739737	100.4438059	99.91911093	99.3998044	98.88580361	98.37702756	97.87339688
ADV1013689	3/6/2025	4.101	4/15/2027	107.5352024	105.6962563	103.8979975	102.1392232	100.4187772	98.73554653	97.08846036	95.47648745	93.89863448
ADV1014145	3/27/2025	4.031	3/27/2028	111.7309354	108.8674198	106.0930017	103.4043135	100.7981407	98.2714144	95.82120312	93.44470538	91.139243
ADV1013756	3/17/2025	4.041	9/17/2026	104.849517	103.6014276	102.383135	101.19358	100.0317532	98.89669179	97.78747722	96.70323261	95.64312033
ADV1014838	4/23/2025	4.209	2/11/2026	102.4294868	101.7992962	101.1768753	100.5620807	99.95477274	99.35481491	98.76207415	98.17642056	97.59772737
ADV1014855	4/24/2025	3.917	1/18/2028	110.4137091	107.7690953	105.2024071	102.7108762	100.2918512	97.94279173	95.6612632	93.44493136	91.29155764
ADV1014346	4/3/2025	3.906	4/3/2030	118.99689	113.9068556	109.0690942	104.4696713	100.0955031	95.93429903	91.97450942	88.20527593	84.61638626
ADV1014293	4/1/2025	3.972	4/15/2027	107.3018993	105.4651653	103.6690771	101.9124332	100.1940783	98.51290079	96.86783061	95.25783756	93.68192929
ADV1013600	3/3/2025	4.374	9/3/2025	100.7343214	100.5505485	100.3674398	100.1849915	100.0032001	99.82206208	99.64157388	99.46173199	99.28253294
ADV1014283	4/1/2025	4.09	4/1/2030	119.8663728	114.7614879	109.909075	105.2952012	100.9067846	96.73153659	92.75790945	88.97504665	85.37273759
ADV1013810	3/11/2025	4.32	9/25/2025	100.9638696	100.7178078	100.472934	100.2292397	99.98671628	99.74535541	99.50514866	99.26608777	99.02816453
ADV1014916	4/25/2025	4.82	4/25/2039	151.5271928	135.8143156	122.0289876	109.9184318	99.26451673	89.87883533	81.59850534	74.28258195	67.80899116
ADV1014852	4/24/2025	3.938	2/16/2027	106.5363109	104.8696694	103.2374882	101.6387643	100.0725335	98.5378687	97.03387786	95.55970256	94.11451625
ADV1014331	4/3/2025	3.804	10/5/2026	104.8559509	103.5591135	102.2926334	101.0554456	99.8465348	98.66493234	97.50971356	96.37999539	95.27493399
ADV1013892	3/14/2025	4.371	8/14/2025	100.510185	100.3833309	100.2568094	100.1306191	100.0047587	99.87922687	99.75402222	99.62914345	99.50458925
ADV1014992	4/29/2025	3.756	10/12/2027	108.9216117	106.5676899	104.2768864	102.0470858	99.8762599	97.7624638	95.70383139	93.69857162	91.74496486
ADV1015031	4/29/2025	4.453	7/29/2025	100.3331087	100.2518812	100.1707876	100.0898274	100.0090005	99.92830636	99.84774481	99.76731549	99.68701807
ADV1013867	3/13/2025	4.102	3/15/2027	103.6867802	102.7514296	101.8332787	100.9318441	100.0466609	99.17728184	98.32327664	97.4842309	96.65974551
ADV1014076	3/24/2025	4.156	3/26/2029	116.1179028	112.1535442	108.3488403	104.6964107	101.189264	97.8207748	94.58466172	91.47496734	88.48603915
ADV1014245	3/31/2025	4.363	6/1/2032	128.5616633	120.943003	113.8449006	107.2287961	101.0591819	95.30334655	89.93114057	84.91476369	80.22857037

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014831	4/23/2025	3.882	4/23/2027	107.3623342	105.4999748	103.679271	101.8990182	100.1580556	98.4552644	96.78956567	95.15991887	93.56532006
ADV1014140	3/27/2025	4.265	3/15/2030	120.5276713	115.4550958	110.631084	106.042036	101.6751754	97.51849396	93.56070108	89.79117645	86.19992633
ADV1013723	3/7/2025	4.198	1/14/2026	102.1140502	101.562325	101.0165776	100.4767112	99.9426308	99.41424346	98.8914583	98.3741863	97.86234038
ADV1013774	3/17/2025	4.096	3/15/2030	119.7213442	114.6677361	109.8620115	105.2906008	100.9407561	96.80049627	92.85855649	89.10434086	85.52787885
ADV1015008	4/29/2025	4.474	7/10/2025	100.1224039	100.0944445	100.0665165	100.0386197	100.0107543	99.98291997	99.95511682	99.92734475	99.8996037
ADV1014723	4/21/2025	4.292	10/21/2025	101.2288178	100.9102667	100.5937107	100.2791308	99.96650864	99.65582584	99.34706434	99.04020627	98.73523401
ADV1015012	4/29/2025	3.756	4/28/2028	111.1107616	108.1695447	105.3222885	102.565486	99.89578101	97.30996038	94.80494739	92.37779501	90.02567975
ADV1014926	4/25/2025	4.083	4/27/2026	103.1871453	102.3462961	101.5191697	100.7054321	99.90475963	99.11683934	98.34136802	97.57805206	96.82660702
ADV1014252	3/31/2025	4.271	3/31/2031	124.3010853	118.0365349	112.1366887	106.5782152	101.339406	96.40005403	91.74134071	87.34573287	83.19688774
ADV1013629	3/18/2025	4.037	9/18/2029	117.5785389	113.0845203	108.7911981	104.6884519	100.7667335	97.01703053	93.43083259	90.00010052	86.71723714
ADV1014775	4/22/2025	4.147	4/19/2030	120.3251444	115.1569962	110.2466747	105.5799096	101.1432968	96.92424089	92.91090256	89.09214859	85.45750619
ADV1013605	3/3/2025	4.368	9/3/2025	100.7332132	100.5494458	100.3663425	100.1838997	100.0021138	99.8209812	99.64049841	99.46066192	99.28146824
ADV1013764	3/18/2025	4.011	9/20/2027	109.2533602	106.9569299	104.7207479	102.5427855	100.4211	98.3538307	96.3391944	94.37548139	92.46105179
ADV1013897	3/14/2025	4.089	3/14/2028	111.5389981	108.7187081	105.9851857	103.3351911	100.7656299	98.27354573	95.85611272	93.5106287	91.23450874
ADV1014260	3/31/2025	4.005	3/31/2028	111.4998883	108.6330392	105.855607	103.1642029	100.5555929	98.02668981	95.57454521	93.19634178	90.88938655
ADV1015045	4/30/2025	4.595	4/30/2037	144.0115824	130.6937045	118.8146958	108.2084401	98.72891546	90.24766574	82.65160312	75.84109468	69.72829601
ADV1014748	4/21/2025	3.844	4/21/2027	107.1371856	105.2849704	103.4740513	101.7032286	99.97134644	98.27729138	96.61999021	94.99840819	93.41154738
ADV1013875	3/13/2025	4.103	9/5/2029	117.7186467	113.2593555	108.9977079	104.9238139	101.0283376	97.30246271	93.73785991	90.32665732	87.06141235
ADV1013724	3/7/2025	4.17	2/11/2026	102.40756	101.7774343	101.155078	100.5403478	99.93310376	99.33320962	98.74053225	98.15494175	97.57631135
ADV1013777	3/12/2025	4.022	8/31/2028	113.2836322	109.9600237	106.7529969	103.657758	100.6697429	97.78460379	94.99819755	92.30657481	89.70596931
ADV1014434	4/7/2025	4.163	11/25/2025	101.5608618	101.1421924	100.7269343	100.3150457	99.90648598	99.50121474	99.09919243	98.70038008	98.30473936
ADV1014367	4/3/2025	3.84	2/5/2027	106.2380454	104.6071772	103.0096142	101.4444039	99.91062955	98.40740919	96.93389345	95.48926422	94.07273322
ADV1014405	4/4/2025	3.679	2/4/2028	110.1761235	107.4828156	104.87	102.3347708	99.87434755	97.48606836	95.16738428	92.91585354	90.72913625
ADV1014396	4/4/2025	3.643	4/4/2030	118.0983287	113.0155066	108.1853309	103.5938214	99.22785216	95.07509409	91.12396192	87.36356478	83.78366046
ADV1013799	3/11/2025	4.331	9/11/2025	100.8133255	100.6070569	100.4016336	100.1970504	99.99330201	99.79038336	99.58828927	99.38701465	99.18655446
ADV1014259	3/31/2025	3.999	9/30/2027	109.3446854	107.0187895	104.754509	102.5497463	100.4024943	98.31083154	96.27291753	94.28698868	92.35135425
ADV1014793	4/22/2025	3.968	10/22/2026	105.1719692	103.8368999	102.5280062	101.2445357	99.98576533	98.75099928	97.53956825	96.35082799	95.18415809
ADV1014564	4/14/2025	4.451	7/14/2025	100.1686959	100.1294675	100.0902875	100.0511557	100.012072	99.97303646	99.93404886	99.89510913	99.85621719
ADV1014908	4/25/2025	4.135	3/25/2026	102.8518416	102.1038318	101.3667203	100.64027	99.92425032	99.21843763	98.5226145	97.83656968	97.16009781
ADV1014616	4/15/2025	3.87	4/15/2027	107.2450658	105.4064424	103.6085478	101.8501771	100.1301717	98.44741697	96.80083991	95.18940758	93.61212497
ADV1014404	4/4/2025	3.977	4/6/2026	102.8686307	102.0873454	101.3179444	100.5601577	99.81372342	99.07838757	98.35390365	97.64003242	96.93654165
ADV1014319	4/2/2025	4.078	4/2/2026	102.9560724	102.1847922	101.4250812	100.6766803	99.93933823	99.21281091	98.49686149	97.79126	97.09578309
ADV1014044	3/21/2025	4.047	10/10/2028	113.8194797	110.373101	107.0510518	103.8481125	100.7593165	97.77993623	94.90546983	92.13162882	89.45432658

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013765	3/18/2025	4.018	3/20/2028	111.4121524	108.5769951	105.8294988	103.1663725	100.5844742	98.08080273	95.6524904	93.29679568	91.01109673
ADV1013728	3/7/2025	4.081	3/7/2029	115.6256601	111.7237663	107.9772804	104.3791031	100.9225041	97.60110071	94.40883734	91.33996655	88.38903133
ADV1013631	3/14/2025	3.983	9/14/2027	109.1189735	106.84112	104.6226833	102.4616759	100.3561939	98.30441306	96.30458462	94.35503129	92.45414377
ADV1014089	3/24/2025	4.38	9/17/2025	100.8874103	100.6643889	100.4423546	100.2213007	100.0012208	99.78210822	99.56395665	99.34675967	99.13051096
ADV1014442	4/7/2025	4.018	4/7/2026	102.9117032	102.1274607	101.3551898	100.5946177	99.84547962	99.10751881	98.38048614	97.66413983	96.95824522
ADV1013699	3/6/2025	4.07	3/6/2028	111.395215	108.5990984	105.8884634	103.2601406	100.7111018	98.23845291	95.83942617	93.51137417	91.25176345
ADV1013669	3/5/2025	4.078	9/8/2026	104.7864105	103.563899	102.3699922	101.2036931	100.0640511	98.95015848	97.86114851	96.79619296	95.75450004
ADV1014868	4/24/2025	3.835	4/26/2027	107.3116372	105.4412791	103.6129096	101.8253243	100.0773619	98.36790222	96.69586449	95.06020552	93.45991821
ADV1014292	4/1/2025	3.976	4/1/2027	107.1393479	105.3436021	103.5869181	101.8680923	100.185971	98.53944778	96.92746101	95.34899164	93.80306092
ADV1014751	4/21/2025	4.192	12/22/2025	101.8629857	101.3676383	100.8770589	100.3911787	99.90993055	99.43324825	98.96106705	98.49332335	98.02995477
ADV1014263	3/31/2025	4.051	3/31/2026	102.9080758	102.1425328	101.3883877	100.6453871	99.91328522	99.19184353	98.48083028	97.78002045	97.08919544
ADV1014375	4/3/2025	3.845	4/5/2027	106.9533613	105.1480335	103.3821776	101.6545919	99.96412348	98.30966566	96.69015572	95.10457255	93.55193468
ADV1014492	4/9/2025	3.963	5/1/2028	111.7418761	108.7831313	105.9190745	103.1461731	100.4610457	97.86045444	95.34129869	92.90060799	90.53553608
ADV1014007	3/20/2025	4.041	4/11/2028	111.730687	108.8291627	106.018957	103.2966319	100.6589025	98.10262972	95.62481215	93.22257921	90.89318438
ADV1014857	4/24/2025	3.935	7/14/2028	112.4762102	109.2990171	106.2298984	103.264558	100.398897	97.62900317	94.95114138	92.36174438	89.85740419
ADV1014952	4/28/2025	4.305	10/28/2025	101.3083076	100.9700964	100.6341222	100.3003629	99.96879669	99.63940202	99.31215761	98.98704246	98.66403586
ADV1013811	3/11/2025	4.097	3/25/2026	102.8257713	102.0778993	101.3409236	100.614607	99.8987191	99.19303629	98.49734117	97.81142252	97.13507504
ADV1014436	4/7/2025	4.02	3/25/2026	102.7690904	102.0214599	101.2847231	100.5586429	99.84298912	99.13753801	98.44207225	97.75638068	97.08025804
ADV1015058	4/30/2025	3.648	4/30/2027	107.0111887	105.13239	103.2959832	101.5007659	99.74557687	98.02929534	96.35083872	94.70916125	93.1032525
ADV1014247	3/31/2025	4.102	3/29/2030	119.8893571	114.7923628	109.9470633	105.3395849	100.9569009	96.78677385	92.81770333	89.0388769	85.44012476
ADV1014851	4/24/2025	3.948	1/13/2027	106.1315682	104.5657999	103.0312761	101.5271344	100.0525441	98.60670407	97.18884183	95.79821212	94.43409574
ADV1014299	4/1/2025	3.996	10/30/2026	105.3067598	103.9531499	102.6237853	101.3180633	100.0354007	98.77523339	97.53701518	96.32021734	95.12432776
ADV1014041	3/21/2025	4.022	1/18/2028	110.6859735	108.0377962	105.4676254	102.9726902	100.5503367	98.19802239	95.91331029	93.69386407	91.53744309
ADV1014574	4/14/2025	4.189	6/14/2030	121.099122	115.7524728	110.6801273	105.8665201	101.2970498	96.95801467	92.83655247	88.9205847	85.19876486
ADV1014472	4/8/2025	3.997	4/8/2030	119.4859025	114.3697439	109.5076501	104.8855797	100.4903466	96.30956342	92.33158807	88.54547462	84.94092772
ADV1014370	4/3/2025	3.82	4/5/2027	106.9086658	105.1037487	103.3382959	101.6111059	99.92102598	98.26694967	96.64781441	95.06259932	93.51032308
ADV1014614	4/15/2025	4.324	10/15/2025	101.1740014	100.8722404	100.5722732	100.2740838	99.97765631	99.68297504	99.39002449	99.09878936	98.80925451
ADV1013591	3/3/2025	4.194	3/3/2026	102.6474725	101.9611658	101.2840474	100.6159334	99.95664492	99.30600783	98.66385245	98.03001356	97.40433021
ADV1014372	4/3/2025	3.873	4/3/2030	118.8373404	113.7510979	108.9169914	104.3210924	99.95032276	95.79239773	91.8357727	88.06959434	84.48365503
ADV1013599	3/14/2025	4.101	3/14/2029	115.7772727	111.8529303	108.0855371	104.4678916	100.9931687	97.65489734	94.44693987	91.36347246	88.39896705
ADV1014861	4/24/2025	3.924	4/26/2027	107.3432035	105.4749401	103.6485771	101.8629138	100.1167923	98.40909579	96.73874648	95.10470414	93.50596449
ADV1013570	3/3/2025	4.214	3/3/2026	102.6611404	101.9747817	101.2976117	100.6294466	99.97010756	99.31942035	98.67721532	98.04332724	97.41759515
ADV1013771	3/18/2025	4.009	3/20/2028	111.3872981	108.5524858	105.8053262	103.1425288	100.5609518	98.05759427	95.62958864	93.27419365	90.9887877

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015021	4/29/2025	3.755	4/29/2027	107.0651646	105.1910792	103.3591873	101.5682899	99.81722947	98.10488885	96.43018921	94.79208862	93.18958049
ADV1013750	3/10/2025	4.126	3/10/2026	102.6786851	101.9728704	101.276779	100.5902107	99.91297057	99.24486921	98.58572218	97.93534999	97.29357796
ADV1014157	3/27/2025	4.125	3/27/2026	102.9188617	102.16436	101.4209376	100.6883516	99.9663659	99.25475151	98.55328583	97.86175266	97.17994188
ADV1015072	4/30/2025	3.71	4/28/2028	110.9785862	108.0392831	105.1938931	102.4389106	99.77098099	97.18689255	94.68356995	92.2580675	89.907563
ADV1013725	3/7/2025	4.102	4/8/2026	102.9886727	102.201335	101.4260578	100.6625653	99.9105898	99.16987182	98.44015953	97.72120862	97.01278196
ADV1015043	4/30/2025	3.791	12/16/2026	105.5678628	104.0827079	102.6260851	101.1972427	99.79545459	98.42001985	97.07026111	95.74552377	94.44517503
ADV1013717	3/7/2025	4.132	3/19/2026	102.7848161	102.0537222	101.3330516	100.622582	99.92209758	99.23138856	98.55025097	97.87848648	97.21590223
ADV1014996	4/30/2025	3.837	10/30/2026	105.0875959	103.7355101	102.4076435	101.1033941	99.82217941	98.56343602	97.32661841	96.11119843	94.91666462
ADV1015020	4/29/2025	3.81	12/29/2026	105.743544	104.2217436	102.7298373	101.2670202	99.83251579	98.42557493	97.04547419	95.69151501	94.36302259
ADV1013575	3/3/2025	4.376	9/3/2025	100.7346908	100.5509161	100.3678055	100.1853554	100.0035622	99.82242237	99.64193236	99.46208868	99.28288784
ADV1013772	3/18/2025	4.095	3/15/2030	119.7164107	114.6629182	109.857305	105.2860017	100.9362605	96.79610049	92.85425702	89.10013434	85.52376206
ADV1013753	3/10/2025	4.022	3/10/2027	106.9554175	105.2215125	103.524373	101.8628941	100.2360152	98.64271817	97.08202494	95.55299566	94.05472671
ADV1015060	4/30/2025	3.707	4/30/2029	115.0603906	111.0079807	107.1228407	103.3971973	99.82367834	96.39529028	93.10539663	89.94769792	86.91621284
ADV1014412	4/4/2025	4.429	7/3/2025	100.0478338	100.0394268	100.0310276	100.0226362	100.0142525	100.0058766	99.99750849	99.98914809	99.98079542
ADV1014402	4/4/2025	3.778	4/3/2030	118.3774646	113.3021401	108.4785556	103.8928006	99.53181357	95.3833258	91.43580781	87.6784206	84.1009702
ADV1013956	3/18/2025	4.148	11/18/2026	105.7499953	104.3404553	102.9566903	101.5980525	100.2639159	98.95367444	97.66674188	96.40255061	95.16055107
ADV1015092	4/30/2025	3.784	10/30/2026	105.0160112	103.6644334	102.3370661	101.0333074	99.75257523	98.49430633	97.25795539	96.04299449	94.84891234
ADV1014448	4/7/2025	3.876	4/7/2027	107.0319081	105.2201913	103.4481821	101.7146791	100.0185287	98.35862353	96.73389934	95.1433333	93.58594178
ADV1014336	4/3/2025	4.08	3/19/2026	102.7476034	102.0166753	101.2961688	100.5858616	99.88553792	99.19498797	98.51400782	97.84239918	97.17996922
ADV1014288	4/1/2025	4.451	7/1/2025	100.0263612	100.0235583	100.0207577	100.0179596	100.015164	100.0123707	100.00958	100.0067916	100.0040057
ADV1013755	3/14/2025	4.101	3/14/2030	119.7356146	114.6844908	109.8810019	105.3115984	100.9635515	96.82489723	92.88438665	89.13143844	85.55609543
ADV1014796	4/22/2025	3.832	4/22/2027	107.2586207	105.4000686	103.5830399	101.8063305	100.0687803	98.36927142	96.70672621	95.08010547	93.48840678
ADV1014617	4/15/2025	4.092	4/15/2026	103.0594046	102.2523525	101.4579674	100.6759522	99.9060191	99.14788924	98.40129224	97.66596595	96.94165611
ADV1014967	4/28/2025	3.855	10/28/2026	105.0893871	103.7416885	102.4186953	101.1197677	99.84428795	98.59165933	97.36130518	96.15266814	94.96520931
ADV1014373	4/3/2025	3.761	4/5/2027	106.9313454	105.1239411	103.3560922	101.6265936	99.934289	98.27806863	96.65686674	95.06965945	93.51546258
ADV1014745	4/21/2025	4.258	4/23/2035	120.3238805	114.9265211	109.8823397	105.1639484	100.7463311	96.60661959	92.7238935	89.07899924	85.65438754
ADV1014362	4/3/2025	4.059	4/3/2026	102.8990728	102.1259725	101.3645026	100.6144021	99.87541746	99.14730265	98.42981896	97.72273456	97.02582436
ADV1013768	3/17/2025	4.018	3/17/2028	111.377975	108.5515928	105.8123927	103.1571105	100.582629	98.08597042	95.66428886	93.31486336	91.03509141
ADV1014490	4/9/2025	4.008	4/9/2026	102.9809123	102.1900933	101.4114424	100.6446799	99.88953464	99.14574362	98.41305177	97.69121163	96.97998302
ADV1013671	3/5/2025	4.087	3/5/2027	107.0064654	105.2857941	103.6013918	101.9521762	100.337108	98.75518907	97.20546043	95.68700012	94.1989215
ADV1013972	3/18/2025	4.1	3/15/2028	111.5802433	108.7566148	106.0199227	103.366918	100.7944977	98.29969744	95.87968389	93.53174775	91.25329746
ADV1013598	3/14/2025	4.061	3/14/2028	111.4621374	108.6429081	105.9104214	103.2614383	100.6928652	98.20174639	95.78525679	93.44069485	91.16547633
ADV1015010	4/29/2025	4.016	4/29/2026	103.1529713	102.306742	101.474411	100.6556377	99.8500927	99.05745704	98.27742205	97.50968879	96.75396774

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015073	4/30/2025	3.79	4/30/2029	115.0935412	111.0482996	107.1698333	103.4503997	99.88265581	96.45963507	93.17472629	90.02165369	86.99445817
ADV1014828	4/23/2025	4.407	9/19/2025	100.9111672	100.683256	100.4563773	100.230524	100.005689	99.7818654	99.55904635	99.33722502	99.11639467
ADV1014643	4/16/2025	3.921	4/16/2027	107.2190717	105.3802007	103.582076	101.8234968	100.1033077	98.42039731	96.7736952	95.1621707	93.58483073
ADV1014913	4/25/2025	4.617	4/25/2036	141.9916035	129.7925417	118.8142748	108.926045	100.0118078	91.96850537	84.70455037	78.13849358	72.19785257
ADV1013633	3/4/2025	4.006	3/4/2027	106.8566879	105.1400658	103.4595884	101.8141783	100.2028013	98.62446401	97.07821175	95.56312678	94.0783264
ADV1014836	4/23/2025	4.447	8/26/2025	100.6492406	100.4891227	100.3295173	100.1704221	100.0118346	99.85375227	99.69617282	99.5390938	99.3825128
ADV1014047	3/21/2025	3.942	3/21/2028	111.4155954	108.5731401	105.8187336	103.1490645	100.5609714	98.05143512	95.6175707	93.25662057	90.96594777
ADV1013621	3/4/2025	4.006	9/17/2026	104.8079133	103.5601447	102.3421667	101.1529201	99.99139561	98.85663078	97.74770721	96.66374819	95.60391628
ADV1014718	4/21/2025	4.484	7/18/2025	100.2137351	100.1633183	100.1129692	100.0626876	100.0124735	99.96232672	99.91224708	99.86223446	99.81228872
ADV1013895	3/14/2025	4.113	9/14/2026	104.9016422	103.6616003	102.4509645	101.2686962	100.1138056	98.98534802	97.8824222	96.80416734	95.749761
ADV1013766	3/18/2025	4.072	3/19/2029	115.7227424	111.785416	108.0060538	104.377384	100.8925167	97.54492033	94.32840138	91.23708398	88.26539169
ADV1014430	4/7/2025	3.734	10/7/2026	104.7881263	103.4873216	102.216373	100.9742519	99.75997688	98.57261101	97.41125925	96.27506616	95.16321372
ADV1013896	3/14/2025	4.097	3/15/2027	107.144489	105.3952306	103.6832764	102.0074976	100.366811	98.7601772	97.18659812	95.64511484	94.13480572
ADV1013715	3/7/2025	3.924	3/8/2027	106.886917	105.1569592	103.4636332	101.8058401	100.1825253	98.59267602	97.03531961	95.50952109	94.0143815
ADV1013775	3/18/2025	4.095	3/15/2030	119.7164107	114.6629182	109.857305	105.2860017	100.9362605	96.79610049	92.85425702	89.10013434	85.52376206
ADV1014423	4/7/2025	3.683	4/7/2027	106.8143072	105.0023085	103.2300682	101.4963819	99.800094	98.14009456	96.5153173	94.92473733	93.36736915
ADV1014713	4/21/2025	4.478	7/22/2025	100.2581826	100.1965391	100.1349851	100.0735206	100.0121453	99.95085906	99.88966165	99.82855288	99.76753256
ADV1015053	4/30/2025	3.77	4/30/2030	118.9588286	113.7801513	108.8620539	104.1900561	99.75055487	95.53076704	91.51867576	87.70298082	84.07305236
ADV1015093	4/30/2025	3.784	10/30/2026	105.0160112	103.6644334	102.3370661	101.0333074	99.75257523	98.49430633	97.25795539	96.04299449	94.84891234
ADV1015009	4/29/2025	3.761	4/29/2027	107.0762861	105.2020948	103.3700991	101.5790997	99.8279393	98.11550049	96.44070444	94.80250918	93.19990806
ADV1013634	3/4/2025	3.989	3/6/2028	111.1746522	108.3815553	105.6738691	103.0484266	100.5022019	98.03230274	95.63596345	93.31053854	91.05349637
ADV1013754	3/14/2025	4.021	3/15/2027	107.0130832	105.2649961	103.5541917	101.8795418	100.2399639	98.63441906	97.06190976	95.52147759	94.01220142
ADV1014781	4/22/2025	4.469	7/22/2025	100.2574426	100.195808	100.134263	100.0728074	100.0114411	99.95016373	99.88897522	99.82787534	99.76686389
ADV1014409	4/4/2025	3.767	4/15/2027	106.9288342	105.0955416	103.3028307	101.5495019	99.83440158	98.15641983	96.51448831	94.90757836	93.33469914
ADV1015011	4/29/2025	3.757	4/29/2027	107.0688718	105.194751	103.3628246	101.5718932	99.82079941	98.10842606	96.43369429	94.79556214	93.19302301
ADV1013752	3/10/2025	4.046	9/10/2026	104.7716382	103.5436205	102.3444685	101.1731719	100.0287667	98.91033345	97.81699391	96.7479092	95.70227747
ADV1013672	3/5/2025	4.085	3/6/2028	111.4360599	108.6393842	105.9282031	103.2993468	100.749787	98.27662887	95.87710445	93.54856595	91.28847957
ADV1013971	3/18/2025	4.103	9/9/2027	109.3253608	107.0594022	104.8522454	102.7019345	100.6065957	98.5644331	96.57372421	94.63281677	92.74012501
ADV1014566	4/14/2025	4.11	4/1/2030	117.7300114	113.2005611	108.8890001	104.7834992	100.872936	97.14684932	93.59539603	90.20931161	86.97987302
ADV1013812	3/11/2025	4.062	6/25/2026	103.8576111	102.8497058	101.8614028	100.8921337	99.94135178	99.00853124	98.09316602	97.1947689	96.31287068
ADV1014702	4/21/2025	4.485	7/21/2025	100.2474188	100.1885819	100.1298289	100.0711596	100.0125739	99.95407154	99.89565238	99.83731623	99.77906291
ADV1013807	3/11/2025	4.024	9/11/2026	104.7569046	103.5261859	102.3244628	101.150718	100.0039812	98.88332688	97.78787111	96.71676968	95.66921573
ADV1014912	4/25/2025	4.561	4/25/2035	138.8004213	127.7738963	117.7636993	108.6694011	100.4010284	92.87792418	86.02773886	79.78553434	74.09298921

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014829	4/23/2025	4.223	1/16/2026	102.1475045	101.5901389	101.0388722	100.4936045	99.95423797	99.42067692	98.89282776	98.37059889	97.85390064
ADV1014772	4/22/2025	4.144	4/5/2030	120.1653683	115.0417005	110.1718591	105.5418296	101.1384518	96.94936302	92.96294461	89.16827305	85.55507412
ADV1014435	4/7/2025	4.12	12/26/2025	101.8723369	101.3649687	100.8625889	100.3651243	99.87250298	99.38465452	98.90150982	98.4230011	97.9490619
ADV1013767	3/17/2025	4.011	9/17/2027	109.2173493	106.9298479	104.702186	102.5323552	100.4184322	98.35857423	96.35101523	94.39406152	92.48608834
ADV1015069	4/30/2025	3.633	4/30/2027	106.9833254	105.1047924	103.2686464	101.4736849	99.71874706	98.00271206	96.32449749	94.68305771	93.07738242
ADV1014141	3/27/2025	4.05	9/28/2026	105.082203	103.800445	102.5500326	101.3298249	100.1387362	98.97573199	97.83982637	96.73007914	95.64559317
ADV1013814	3/11/2025	4.034	3/11/2027	106.9878824	105.2509543	103.5508983	101.8866046	100.2570084	98.66108719	97.09785897	95.56638011	94.0657434
ADV1014390	4/4/2025	3.661	4/4/2028	110.5853585	107.7199925	104.9443958	102.2551726	99.64908122	97.12302578	94.67404835	92.2993217	89.99614244
ADV1014842	4/23/2025	4.468	7/23/2025	100.2683749	100.2039406	100.1396017	100.0753581	100.0112095	99.94715579	99.88319666	99.81933194	99.75556141
ADV1014010	3/20/2025	4.058	7/11/2028	112.8221921	109.6480101	106.5815424	103.6185176	100.7548593	97.98667668	95.31025439	92.72204362	90.21865366
ADV1014462	4/8/2025	4.035	4/8/2026	102.9908425	102.2027558	101.4267518	100.6625538	99.90989353	99.16851066	98.43815278	97.7185749	97.00953928
ADV1013954	3/18/2025	4.214	5/18/2026	103.5484127	102.647599	101.7624991	100.8927037	100.0378178	99.19745965	98.37126067	97.55886454	96.75992688
ADV1015098	4/30/2025	3.629	4/30/2027	106.9758952	105.097433	103.2613566	101.4664633	99.71159244	97.99562319	96.31747316	94.67609677	93.07048373
ADV1014877	4/24/2025	4.048	4/19/2030	119.8418633	114.685309	109.7861587	105.1301613	100.7039306	96.49488847	92.49121167	88.6817824	85.05614251
ADV1013721	3/7/2025	4.125	3/10/2026	102.6784547	101.9726615	101.2765912	100.5900435	99.91282356	99.24474194	98.58561421	97.93526092	97.2935074
ADV1013770	3/18/2025	4.019	3/18/2027	107.0449957	105.2884143	103.5694277	101.8868935	100.2397159	98.6268436	97.04726711	95.50001686	93.98416116
ADV1013776	3/18/2025	4.095	3/15/2030	119.7164107	114.6629182	109.857305	105.2860017	100.9362605	96.79610049	92.85425702	89.10013434	85.52376206
ADV1014882	4/24/2025	4.424	8/25/2025	100.6341789	100.4769147	100.320147	100.1638734	100.0080917	99.85279938	99.69799426	99.54367399	99.38983628
ADV1013906	3/14/2025	4.05	9/14/2026	104.9110907	103.6696516	102.457674	101.2741168	100.1179873	98.98833879	97.88426776	96.80491131	95.74944505
ADV1014294	4/1/2025	4.009	9/17/2029	117.4503413	112.9620514	108.6741203	104.5764498	100.6595123	96.91431433	93.33236326	89.90563639	86.62655183
ADV1014862	4/24/2025	3.927	4/24/2028	111.5566546	108.6204281	105.7776427	103.0248045	100.3585712	97.77574413	95.27326176	92.84819245	90.49772832
ADV1013579	3/3/2025	4.126	9/3/2026	104.7830818	103.5745735	102.3940162	101.2404471	100.1129475	99.01063986	97.9326857	96.87828338	95.84666613
ADV1013757	3/17/2025	4.021	3/17/2028	111.3862349	108.5597382	105.8204266	103.1650353	100.5904474	98.09368476	95.67190155	93.32237669	91.04250762
ADV1014009	3/20/2025	4.041	4/11/2028	111.730687	108.8291627	106.018957	103.2966319	100.6589025	98.10262972	95.62481215	93.22257921	90.89318438
ADV1013965	3/18/2025	4.368	9/18/2025	100.8967831	100.6707733	100.4457756	100.2217832	99.99878931	99.77678712	99.55577	99.33573134	99.11666459
ADV1015081	4/30/2025	3.756	4/30/2027	107.0783833	105.2013573	103.3666405	101.5730337	99.81937927	98.10455931	96.42749424	94.78714114	93.18249226
ADV1014209	3/28/2025	4.023	3/29/2027	107.182464	105.3945794	103.6454472	101.9338728	100.258711	98.61886385	97.01327801	95.44094231	93.90088574
ADV1014822	4/23/2025	3.953	4/23/2027	107.3606687	105.5007028	103.6822995	101.9042578	100.1654205	98.46467209	96.80093701	95.17317773	93.58039323
ADV1013726	3/7/2025	4.123	3/9/2026	102.6658027	101.9628212	101.2694855	100.5855977	99.91096543	99.24540127	98.58872298	97.94075318	97.30131917
ADV1013891	3/14/2025	4.41	7/14/2025	100.1721197	100.132748	100.0934248	100.0541501	100.0149237	99.97574554	99.93661552	99.89753356	99.85849956
ADV1013760	3/17/2025	4.089	9/17/2029	117.7905756	113.2949688	108.9999624	104.8954482	100.971889	97.22028215	93.63212647	90.19939097	86.91448593
ADV1014249	3/31/2025	4.102	3/29/2030	119.8893571	114.7923628	109.9470633	105.3395849	100.9569009	96.78677385	92.81770333	89.0388769	85.44012476
ADV1014535	4/11/2025	4.134	4/13/2026	103.0706874	102.2691395	101.4800857	100.7032352	99.9383059	99.18502451	98.44312599	97.71235329	96.99245707

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013644	3/4/2025	4.088	3/5/2029	115.6296962	111.7333315	107.9919614	104.3985147	100.9462873	97.6289206	94.4403815	91.37494349	88.42716904
ADV1014964	4/28/2025	3.796	4/28/2028	111.2257043	108.2828239	105.4339446	102.6755581	100.004307	97.41697688	94.9104899	92.48189792	90.12837637
ADV1013593	3/3/2025	4.105	3/1/2030	119.6250381	114.613174	109.8454694	105.3086517	100.990246	96.87852214	92.96244572	89.23163292	85.6763083
ADV1013576	3/3/2025	4.019	3/3/2027	106.9890794	105.2719255	103.5909155	101.9449729	100.3330641	98.75419632	97.20741549	95.69180441	94.20648089
ADV1014129	3/26/2025	4.132	3/26/2026	102.9126408	102.1609399	101.4202387	100.6902965	99.97087998	99.26176239	98.56272343	97.87354908	97.19403134
ADV1014365	4/3/2025	4.112	4/3/2031	123.4029818	117.1554977	111.2726035	105.7309452	100.5087938	95.58592332	90.94349788	86.56396882	82.43097954
ADV1014378	4/3/2025	3.808	4/4/2028	110.9980947	108.1269309	105.3456751	102.6509273	100.0394414	97.50811731	95.05399323	92.67423808	90.36614483
ADV1014363	4/3/2025	3.852	4/5/2027	106.965876	105.1604333	103.3944645	101.666768	99.97619078	98.32162614	96.70201128	95.11632506	93.56358593
ADV1014527	4/11/2025	4.449	7/9/2025	100.1135595	100.0883442	100.0631565	100.0379964	100.0128637	99.98775852	99.9626807	99.93763022	99.91260703
ADV1013769	3/17/2025	4.085	9/17/2029	117.7734425	113.2781981	108.9835421	104.8793671	100.956136	97.20484686	93.61699881	90.18456129	86.89994495
ADV1014437	4/7/2025	4.283	10/7/2025	101.0814829	100.8021709	100.5243934	100.2481377	99.97339125	99.70014163	99.42837658	99.15808397	98.88925177
ADV1015084	4/30/2025	3.699	4/30/2027	106.9725735	105.0965558	103.2628284	101.4701924	99.7174908	98.00360625	96.32745961	94.68800843	93.08424539
ADV1014953	4/28/2025	3.812	4/28/2027	107.1592903	105.2871258	103.4570576	101.6678858	99.91845305	98.20764213	96.5343746	94.89760909	93.29633979
ADV1014147	3/27/2025	4.132	3/27/2026	102.9241059	102.1695825	101.4261386	100.6935313	99.97152458	99.25988934	98.55840303	97.86684944	97.18501844
ADV1014388	4/4/2025	3.661	4/4/2028	110.5853585	107.7199925	104.9443958	102.2551726	99.64908122	97.12302578	94.67404835	92.2993217	89.99614244
ADV1014240	3/31/2025	4.117	3/30/2029	116.0135649	112.0399689	108.2268116	104.5666569	101.0524623	97.67755443	94.43560786	91.32062412	88.32691261
ADV1014204	3/28/2025	3.947	3/29/2027	107.1750536	105.3849927	103.6337684	101.9201824	100.2430863	98.60137898	96.99400407	95.41994763	93.87823597
ADV1014998	4/29/2025	4.458	7/29/2025	100.3335228	100.2522943	100.1711997	100.0902385	100.0094105	99.92871543	99.84815287	99.76772254	99.68742412
ADV1014850	4/24/2025	4.21	1/13/2026	102.113408	101.5549629	101.0025611	100.4561047	99.91549804	99.38064747	98.85146134	98.32784995	97.80972547
ADV1013626	3/14/2025	4.024	9/14/2028	113.4502943	110.0837619	106.8364999	103.7035509	100.6801976	97.76194935	94.94452963	92.22386425	89.59607024
ADV1014360	4/3/2025	3.842	4/3/2028	111.0822672	108.2127654	105.433035	102.7396789	100.1294548	97.59926616	95.1461549	92.76729382	90.45997977
ADV1014354	4/3/2025	3.769	4/3/2028	111.0826059	108.208543	105.4244879	102.7270314	100.1129198	97.5790458	95.12244117	92.74026911	90.42981744
ADV1013589	3/3/2025	4.374	9/3/2025	100.7343214	100.5505485	100.3674398	100.1849915	100.0032001	99.82206208	99.64157388	99.46173199	99.28253294
ADV1014119	3/26/2025	4.393	8/13/2025	100.4999853	100.3761265	100.2525856	100.1293615	100.0064528	99.88385831	99.76157678	99.63960696	99.5179476
ADV1014621	4/15/2025	4.468	7/15/2025	100.1804016	100.1383704	100.0963923	100.054467	100.0125945	99.97077458	99.92900725	99.88729236	99.8456298
ADV1013969	3/18/2025	4.227	3/18/2026	102.8406305	102.1120295	101.3937773	100.6856539	99.98744579	99.29894543	98.61995095	97.95026609	97.28969997
ADV1014081	3/24/2025	4.114	3/24/2028	111.7231751	108.872595	106.1104056	103.4332774	100.8380323	98.3216352	95.8811865	93.51391469	91.21716975
ADV1014615	4/15/2025	3.923	10/15/2026	105.1247925	103.8040233	102.5111869	101.2453993	100.0058142	98.79162096	97.60204231	96.4363331	95.29377836
ADV1014395	4/4/2025	3.57	4/4/2028	110.5346973	107.6654888	104.886269	102.1936307	99.58432117	97.05523435	94.60340262	92.22598962	89.92028336
ADV1014400	4/4/2025	3.729	4/5/2027	106.7454128	104.9419792	103.1779822	101.4522214	99.76354458	98.11084619	96.49306432	94.90917874	93.35820878
ADV1014368	4/3/2025	3.816	7/1/2027	107.8981973	105.8411637	103.8343928	101.8763369	99.96550727	98.10047094	96.27984858	94.5023119	92.76658143
ADV1014239	3/31/2025	4.064	3/31/2028	111.6646037	108.7954441	106.0157564	103.3221501	100.7113895	98.18038586	95.72618902	93.34598024	91.03706511
ADV1014639	4/16/2025	3.954	4/14/2028	111.520284	108.6131553	105.7977753	103.0706951	100.4286186	97.86839504	95.38701086	92.98158321	90.64935314

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014438	4/7/2025	4.433	7/7/2025	100.0916467	100.0720298	100.0524333	100.0328571	100.0133012	99.99376556	99.97425018	99.954755	99.93527999
ADV1015075	4/30/2025	3.706	4/30/2027	106.9855677	105.1094262	103.2755772	101.482822	99.73000342	98.01600399	96.33974457	94.70018262	93.09631079
ADV1014318	4/2/2025	4.165	4/2/2026	102.9691752	102.1985522	101.439478	100.6916943	99.95495036	99.22900285	98.51361552	97.80855897	97.11361041
ADV1014516	4/10/2025	4.462	7/10/2025	100.1252395	100.0972155	100.0692229	100.0412618	100.0133319	99.98543331	99.95756593	99.9297297	99.90192456
ADV1013928	3/17/2025	4.092	3/17/2028	111.5817171	108.7525149	106.0105614	103.3525903	100.7754823	98.27625761	95.85206852	93.50019224	91.21802453
ADV1014389	4/4/2025	3.661	4/4/2028	110.5853585	107.7199925	104.9443958	102.2551726	99.64908122	97.12302578	94.67404835	92.2993217	89.99614244
ADV1014036	3/21/2025	4.005	3/21/2028	111.3872046	108.5496133	105.7998318	103.1345605	100.5506496	98.04509027	95.61500784	93.25765418	90.97040133
ADV1015002	4/29/2025	4.453	7/28/2025	100.3219885	100.2435695	100.1652775	100.0871123	100.0090735	99.93116084	99.853374	99.77571268	99.6981766
ADV1014380	4/3/2025	3.876	4/4/2030	118.8614705	113.7717734	108.9345057	104.3357207	99.9623227	95.80200997	91.84322204	88.07509043	84.48739317
ADV1013786	3/10/2025	4.395	3/1/2035	128.0456078	120.1971638	112.9849905	106.350984	100.2427767	94.61313593	89.41942763	84.62314011	80.1894594
ADV1014043	3/21/2025	4.043	9/12/2028	113.4881246	110.1267388	106.884263	103.7557625	100.7365413	97.82212843	95.00826594	92.29089682	89.66615422
ADV1013759	3/17/2025	4.076	3/19/2029	115.7380011	111.8003953	108.0207618	104.3918285	100.906705	97.55885981	94.3420989	91.25054623	88.27862512
ADV1014401	4/4/2025	3.693	4/4/2028	110.6750805	107.8084514	105.0316218	102.3411949	99.73392809	97.2067246	94.75662564	92.38080314	90.07655293
ADV1014947	4/28/2025	4.462	7/28/2025	100.3228745	100.2444441	100.1661408	100.0879643	100.0099142	99.93199021	99.8541921	99.77651954	99.69897222
ADV1014218	3/31/2025	4.03	3/30/2029	115.6824152	111.7150708	107.9079784	104.2537089	100.7452266	97.37586478	94.13930405	91.02955189	88.04092336
ADV1013773	3/17/2025	4.096	3/15/2030	119.7213442	114.6677361	109.8620115	105.2906008	100.9407561	96.80049627	92.85855649	89.10434086	85.52787885
ADV1014300	4/1/2025	3.979	5/3/2027	107.5318624	105.6423616	103.7956039	101.9903731	100.2254951	98.49983623	96.8123021	95.16183547	93.54741494
ADV1014011	3/20/2025	4.06	8/8/2028	113.1448477	109.8876427	106.74298	103.7063066	100.7732831	97.93977178	95.20182646	92.55568175	89.99774384
ADV1013886	3/14/2025	4.169	3/16/2026	102.7765028	102.053704	101.3410954	100.6384621	99.9455954	99.26229226	98.58835528	97.92359246	97.26781702
ADV1014832	4/23/2025	4.141	4/23/2026	103.1897428	102.3599517	101.5435317	100.7401609	99.94952798	99.1713313	98.40527872	97.6510872	96.90848244
ADV1014342	4/3/2025	3.856	4/3/2028	111.1214836	108.2514303	105.4711615	102.7772799	100.1665425	97.63585255	95.18225155	92.80291193	90.49513021
ADV1013595	3/14/2025	4.07	3/14/2028	111.4868426	108.6672724	105.9344528	103.2851445	100.7162538	98.22482475	95.80803191	93.46317359	91.18766532
ADV1013597	3/14/2025	4.091	3/15/2027	107.1341148	105.3849489	103.6730855	101.9973958	100.3567967	98.75024892	97.17675431	95.63535401	94.12512643
ADV1013670	3/7/2025	4.134	3/7/2030	119.8230903	114.7896656	110.0021243	105.4470612	101.1118792	96.98473572	93.05449306	89.31067204	85.7434094
ADV1014914	4/25/2025	4.677	4/27/2037	144.9547008	131.5914902	119.669617	109.0228703	99.50512831	90.98783281	83.3577924	76.51527069	70.37232094
ADV1013986	3/19/2025	4.413	7/23/2025	100.2704784	100.2057796	100.1411766	100.0766693	100.0122574	99.94794068	99.883719	99.81959211	99.75555981
ADV1014774	4/22/2025	4.147	4/19/2030	120.3251444	115.1569962	110.2466747	105.5799096	101.1432968	96.92424089	92.91090256	89.09214859	85.45750619
ADV1015076	4/30/2025	3.797	4/30/2029	115.1207903	111.075023	107.196047	103.4761191	99.90789562	96.48440953	93.19904908	90.04553798	87.01791662
ADV1014431	4/7/2025	3.672	4/7/2027	106.7945689	104.9827524	103.2106908	101.47718	99.78106432	98.12123404	96.49662292	94.90620614	93.34899829
ADV1013779	3/14/2025	4.017	7/31/2028	112.9207855	109.6894365	106.5691706	103.5555193	100.6442222	97.83121563	95.11262259	92.48474269	89.94404302
ADV1013758	3/17/2025	4.047	9/18/2028	113.5708	110.190813	106.9309016	103.7860598	100.7515249	97.82276413	94.99546147	92.26550576	89.62897948
ADV1013622	3/4/2025	4.008	3/4/2030	119.19387	114.1836122	109.417933	104.8835133	100.5678356	96.45913139	92.54633121	88.81901955	85.26739212
ADV1014848	4/24/2025	4.062	4/24/2030	118.2955457	113.5552973	109.0484699	104.7621617	100.684254	96.80335953	93.1087747	89.59043481	86.23887263

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013761	3/18/2025	4.115	3/18/2026	102.7594978	102.0312234	101.3132943	100.6054908	99.90759948	99.21941274	98.54072881	97.87135148	97.21108991
ADV1013714	3/7/2025	3.924	3/8/2027	106.886917	105.1569592	103.4636332	101.8058401	100.1825253	98.59267602	97.03531961	95.50952109	94.0143815
ADV1015096	4/30/2025	3.629	4/30/2027	106.9758952	105.097433	103.2613566	101.4664633	99.71159244	97.99562319	96.31747316	94.67609677	93.07048373
ADV1013594	3/14/2025	4.091	3/15/2027	107.1341148	105.3849489	103.6730855	101.9973958	100.3567967	98.75024892	97.17675431	95.63535401	94.12512643
ADV1015062	4/30/2025	4.475	7/31/2025	100.3571268	100.2702866	100.1835942	100.0970493	100.0106516	99.92440063	99.83829612	99.75233768	99.66652494
ADV1013908	3/14/2025	4.115	3/16/2026	102.7879646	102.0644635	101.3511715	100.6478733	99.95435946	99.27042647	98.59587635	97.93051659	97.27415992
ADV1014649	4/16/2025	4.403	8/27/2025	100.6544329	100.4913793	100.3288548	100.1668569	100.005383	99.84443047	99.68399689	99.52407972	99.36467646
ADV1013577	3/3/2025	4.099	3/3/2027	107.0030752	105.2879121	103.6088168	101.9647158	100.3545786	98.77741509	97.2322739	95.71824032	94.23443452
ADV1014944	4/28/2025	4.462	7/28/2025	100.3228745	100.2444441	100.1661408	100.0879643	100.0099142	99.93199021	99.8541921	99.77651954	99.69897222
ADV1013673	3/5/2025	4.165	3/5/2030	119.9500914	114.9193382	110.1340537	105.5808701	101.2472243	97.12130491	93.19200262	89.44886438	85.88205077
ADV1013970	3/18/2025	4.123	3/18/2027	107.2256656	105.4674664	103.7468916	102.0627981	100.4140893	98.79971306	97.21865915	95.66995732	94.15267516
ADV1014410	4/4/2025	3.73	4/4/2029	114.8793836	110.9054038	107.0928004	103.4340765	99.92213116	96.55023589	93.31201217	90.2014111	87.21269409
ADV1015022	4/29/2025	3.747	10/29/2027	109.0863896	106.6838018	104.3466853	102.0728909	99.86035234	97.70708349	95.61117411	93.57078673	91.58415337
ADV1013751	3/10/2025	4.046	3/10/2026	102.6715957	101.9651716	101.2684882	100.5813448	99.90354607	99.23490188	98.57522737	97.92434258	97.28207235
ADV1014371	4/3/2025	3.805	4/3/2028	110.9786237	108.1105795	105.3322718	102.6403049	100.0314373	97.50257355	95.05075663	92.67316025	90.36708219
ADV1013762	3/18/2025	4.021	3/18/2027	107.0484701	105.2918576	103.5728405	101.8902763	100.2430693	98.63016801	97.05056311	95.50328495	93.98740181
ADV1014915	4/25/2025	4.745	4/26/2038	148.0292036	133.5056771	120.6579035	109.2792388	99.18970275	90.2324076	82.27048124	75.18441429	68.86977088
ADV1013718	3/7/2025	4.215	1/7/2026	102.0561938	101.5120393	100.9735917	100.4407615	99.91346127	99.39160513	98.8751091	98.36389086	97.85786983
ADV1013632	3/18/2025	4.037	9/18/2029	117.5785389	113.0845203	108.7911981	104.6884519	100.7667335	97.01703053	93.43083259	90.00010052	86.71723714
ADV1014143	3/27/2025	4.047	9/28/2026	105.0784154	103.7966827	102.5462952	101.326112	100.1350473	98.97206671	97.83618434	96.72645999	95.64199654
ADV1013933	3/17/2025	4.166	8/31/2029	117.9298941	113.4806635	109.2280161	105.1621452	101.2737919	97.55421028	93.99513651	90.58875881	87.32769017
ADV1014008	3/20/2025	4.041	4/11/2028	111.730687	108.8291627	106.018957	103.2966319	100.6589025	98.10262972	95.62481215	93.22257921	90.89318438
ADV1014752	4/21/2025	4.423	8/21/2025	100.5896906	100.4436554	100.2980546	100.1528861	100.008148	99.86383828	99.71995512	99.57649655	99.43346065
ADV1014491	4/9/2025	3.958	4/17/2028	111.5671147	108.6507891	105.8267286	103.0914705	100.4417048	97.87426607	95.38612631	92.97438788	90.63627701
ADV1015017	4/29/2025	4.2	4/29/2032	127.1604672	119.6814784	112.7083168	106.2039159	100.1341111	94.46739864	89.17471566	84.22923945	79.60620416
ADV1014921	4/25/2025	3.873	4/26/2028	111.4246266	108.4845907	105.6382871	102.8822144	100.2130223	97.62750417	95.12258986	92.69533922	90.34293576
ADV1014151	3/27/2025	4.117	4/5/2028	111.8725478	108.986183	106.1901874	103.4811467	100.8558016	98.31103855	95.8438828	93.45149049	91.13114215
ADV1014441	4/7/2025	4.254	10/7/2025	101.0734311	100.7941594	100.516422	100.2402061	99.9654993	99.69228911	99.42056327	99.15030965	98.88151624
ADV1014264	3/31/2025	3.924	3/31/2027	107.1579326	105.3625502	103.6062092	101.8877021	100.2058715	98.55960812	96.94784757	95.36956851	93.82379022
ADV1014830	4/23/2025	3.962	4/23/2027	107.3772027	105.5170808	103.6985244	101.9203324	100.1813476	98.48045438	96.81657711	95.18867818	93.59575651
ADV1014281	4/1/2025	4.073	4/2/2029	115.88416	111.9045159	108.0858862	104.4208028	100.9021924	97.52335247	94.27792943	91.15989791	88.16354168
ADV1014163	3/31/2025	4.207	3/29/2030	120.3954473	115.2864565	110.4295932	105.8109646	101.4175254	97.23702093	93.2579343	89.4694374	85.86134559
ADV1014534	4/11/2025	4.136	4/13/2026	103.0722809	102.270726	101.4816653	100.704808	99.93987192	99.18658386	98.44467873	97.7138995	96.99399682

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014901	4/25/2025	3.911	4/26/2027	107.3190652	105.4510278	103.6248868	101.8394415	100.0935341	98.38604798	96.71590538	95.0820662	93.48352625
ADV1014208	3/28/2025	4.046	9/28/2026	104.9877368	103.7080054	102.4595507	101.2412352	100.0519758	98.89074106	97.75654763	96.64845784	95.56557691
ADV1014317	4/2/2025	4.027	4/3/2028	111.6006357	108.7238545	105.9370184	103.2367247	100.6197257	98.08291967	95.62334367	93.2381657	90.92467803
ADV1015015	4/29/2025	3.904	4/29/2030	119.2356027	114.0646896	109.1534176	104.4873789	100.053038	95.83767427	91.8293292	88.01675664	84.38937702
ADV1014471	4/8/2025	3.91	4/9/2029	115.336854	111.3473709	107.5201356	103.8476204	100.322693	96.93859275	93.68890941	90.56756228	87.56878135
ADV1014575	4/14/2025	4.214	7/30/2030	121.6860614	116.1937215	110.9891061	106.0555395	101.3774029	96.94006148	92.72979694	88.73374529	84.93983899
ADV1014776	4/22/2025	4.075	4/22/2026	103.1241608	102.2974342	101.4839876	100.6835023	99.89567008	99.12019214	98.35677917	97.60515081	96.86503533
ADV1015059	4/30/2025	3.646	4/28/2028	111.0048247	108.0604069	105.2101613	102.4505695	99.77826456	97.19002309	94.68275875	92.25351548	89.89946122
ADV1013625	3/4/2025	4.136	3/4/2026	102.6184885	101.9295219	101.2498182	100.5791914	99.91746013	99.26444823	98.61998395	97.98390007	97.35603373
ADV1014833	4/23/2025	3.966	4/23/2027	107.3845512	105.52436	103.7057354	101.9274767	100.1884263	98.48746873	96.82352826	95.19556727	93.60258463
ADV1014379	4/3/2025	3.852	4/4/2029	115.0618863	111.0920311	107.2831646	103.6278164	100.11891	96.74973964	93.51394799	90.40550599	87.41869353
ADV1015044	4/30/2025	3.876	4/29/2030	119.0980478	113.9304659	109.0224017	104.3594528	99.92808911	95.71559512	91.71001698	87.90011312	84.27530825
ADV1013930	3/17/2025	4.029	3/17/2027	107.1750569	105.4178636	103.6982661	102.0151229	100.3673386	98.7538626	97.17368583	95.62583923	94.10939151
ADV1014366	4/3/2025	3.84	4/5/2027	106.9444222	105.1391766	103.3734013	101.6458947	99.95550398	98.30112246	96.68168746	95.09617791	93.54361236
ADV1014296	4/1/2025	4.111	4/1/2026	102.9164826	102.1488555	101.3926903	100.6477315	99.91373117	99.19044873	98.47765051	97.77510962	97.08260566
ADV1014647	4/16/2025	3.9	4/17/2028	111.401368	108.4873612	105.6655645	102.9325172	100.2849108	97.71958164	95.23350327	92.82377954	90.48763815
ADV1014154	3/27/2025	4.111	3/29/2027	107.337996	105.548696	103.7981747	102.0852365	100.4087356	98.76757343	97.16069593	95.58709131	94.04578795
ADV1014924	4/25/2025	3.886	7/26/2028	112.4547306	109.2445189	106.1443683	103.1498658	100.2568033	97.4611659	94.75912269	92.14701646	89.6213549
ADV1014539	4/11/2025	4.473	7/11/2025	100.1365877	100.1057612	100.0749702	100.0442146	100.0134943	99.98280919	99.95215927	99.92154445	99.89096468
ADV1013627	3/14/2025	4.038	9/14/2029	117.5400377	113.0584203	108.7765015	104.6842347	100.7721394	97.03126575	93.45316143	90.02984078	86.75375614
ADV1014853	4/24/2025	3.914	10/15/2027	109.3223572	106.9554654	104.6521967	102.4104269	100.228119	98.10331838	96.03414897	94.01880945	92.05556962
ADV1014883	4/24/2025	4.095	4/24/2026	103.163093	102.3306538	101.511672	100.7058229	99.91279202	99.13227498	98.36397692	97.60761216	96.86290391
ADV1014432	4/7/2025	3.684	4/7/2028	110.8874728	108.0047142	105.2125621	102.5075926	99.88653613	97.34626941	94.8838076	92.49629705	90.18100856
ADV1015089	4/30/2025	4.384	9/24/2025	100.9606564	100.7188054	100.4781105	100.2385633	100.0001555	99.76287915	99.52672607	99.29168829	99.05775789
ADV1014773	4/22/2025	4.146	4/12/2030	120.2476629	115.1017096	110.2115804	105.5631333	101.1430866	96.93896183	92.93903032	89.13226409	85.50828997
ADV1014045	3/21/2025	4.051	11/14/2028	114.2259721	110.6740628	107.2535166	103.9587792	100.784561	97.72582323	94.77776415	91.93580704	89.19558832
240308A00010	5/22/2025	3.88	6/24/2026	103.6617246	102.6576514	101.6730602	100.7073874	99.760091	98.83064955	97.91856114	97.02334255	96.14452838
240503A00030	5/22/2025	4.46	7/17/2026	104.53965	103.4667097	102.415875	101.3864667	100.3778332	99.38934901	98.42041363	97.4704502	96.53890443
240508A00008	5/8/2025	4.42	5/10/2027	108.4403377	106.522915	104.6492319	102.818032	101.0281031	99.27827549	97.56741993	95.89444614	94.25830117
ADV1014350	5/19/2025	3.87	5/21/2029	115.6222121	111.5082426	107.5660795	103.7876409	100.1652673	96.69169767	93.36004637	90.16378184	87.09670652
ADV1014357	5/19/2025	3.916	5/17/2030	119.4627037	114.2358867	109.2738774	104.5618526	100.0858942	95.83292922	91.79067431	87.94758422	84.29280366
ADV1014348	5/2/2025	3.91	5/2/2030	119.2972091	114.1164313	109.1961708	104.521954	100.0801844	95.85808458	91.84364324	88.02556522	84.39322541
ADV1014355	5/2/2025	3.88	5/2/2029	115.4686403	111.4106626	107.5201247	103.7892449	100.2106432	96.7773189	93.4826285	90.32026608	87.28424427

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014352	5/19/2025	3.823	5/19/2028	111.528897	108.5234667	105.6157495	102.8020419	100.0788015	97.44263921	94.89031161	92.41871383	90.02487287
ADV1014571	6/2/2025	3.994	6/1/2028	112.1774949	109.126514	106.1757581	103.3213871	100.5597301	97.8872765	95.30066869	92.79669397	90.37227766
ADV1014345	5/2/2025	3.831	5/2/2028	111.3735438	108.4173673	105.5559212	102.7856673	100.1032193	97.50533485	94.988909	92.55096737	90.18866001
ADV1013790	6/5/2025	4.53	6/5/2036	141.3074667	129.0334379	118.0000194	108.07307	99.13367896	91.07636371	83.8074881	77.24387482	71.31158635
ADV1014359	5/19/2025	3.916	5/17/2030	119.4627037	114.2358867	109.2738774	104.5618526	100.0858942	95.83292922	91.79067431	87.94758422	84.29280366
ADV1014573	6/2/2025	3.994	6/1/2028	112.1774949	109.126514	106.1757581	103.3213871	100.5597301	97.8872765	95.30066869	92.79669397	90.37227766
ADV1013783	5/1/2025	3.979	5/1/2028	111.7891447	108.829735	105.9650307	103.1914984	100.5057561	97.90456559	95.38482558	92.94356516	90.5779376
ADV1014244	6/20/2025	4.285	6/20/2031	125.0983181	118.5787371	112.4517615	106.6915511	101.2740996	96.17709512	91.37979213	86.86289366	82.608443
ADV1014356	5/19/2025	3.874	5/21/2029	115.6380185	111.5237396	107.5812767	103.8025474	100.1798919	96.70604883	93.37413221	90.17761018	87.1102849
ADV1014347	5/2/2025	3.876	5/2/2029	115.4530429	111.3953664	107.5051206	103.774524	100.1961971	96.76313943	93.46870782	90.30659663	87.27081879
ADV1013780	5/1/2025	4.084	5/1/2030	120.1429391	114.9445529	110.0071567	105.316266	100.8582728	96.62038862	92.59059097	88.75757359	85.11070036
ADV1014567	6/2/2025	4.172	5/31/2030	120.8740197	115.5735299	110.5430225	105.7672911	101.2320638	96.92394121	92.83033882	88.93943299	85.24011129
ADV1014353	5/2/2025	3.914	5/2/2030	119.316871	114.1356184	109.2149005	104.5402429	100.0980484	95.8755388	91.86070218	88.04224274	84.40953477
ADV1014568	6/2/2025	4.172	5/31/2030	120.8740197	115.5735299	110.5430225	105.7672911	101.2320638	96.92394121	92.83033882	88.93943299	85.24011129
ADV1013781	5/1/2025	3.979	5/1/2028	111.7891447	108.829735	105.9650307	103.1914984	100.5057561	97.90456559	95.38482558	92.94356516	90.5779376
ADV1014349	5/2/2025	3.834	5/3/2027	107.261184	105.3742625	103.5300357	101.7272885	99.96484798	98.24158209	96.55639744	94.90823801	93.29608354
ADV1014569	6/2/2025	3.994	6/1/2028	112.1774949	109.126514	106.1757581	103.3213871	100.5597301	97.8872765	95.30066869	92.79669397	90.37227766
ADV1014572	6/2/2025	3.994	6/1/2028	112.1774949	109.126514	106.1757581	103.3213871	100.5597301	97.8872765	95.30066869	92.79669397	90.37227766
ADV1013784	5/1/2025	3.985	5/1/2028	111.8064204	108.8467614	105.9818137	103.2080439	100.5220698	97.92065304	95.40069206	92.95921583	90.59337746
ADV1016844	6/27/2025	3.926	12/28/2026	105.9080383	104.3876494	102.8970737	101.4355098	100.0021847	98.59635204	97.21729156	95.8643075	94.53672775
ADV1015450	5/13/2025	4.148	1/15/2027	106.4698603	104.8958563	103.3533156	101.8413672	100.3591717	98.90592017	97.48083257	96.08315645	94.71216576
ADV1015630	5/19/2025	4.478	8/19/2025	100.5704888	100.4305497	100.2910134	100.151878	100.0131419	99.87480321	99.73686024	99.59931124	99.46215448
ADV1016814	6/26/2025	4.494	7/28/2025	100.3156019	100.2377365	100.1599973	100.0823838	100.0048959	99.92753324	99.85029551	99.77318243	99.69619369
ADV1016190	6/4/2025	4.48	6/6/2033	132.5690189	123.7513109	115.6109579	108.0918348	101.1427561	94.71701677	88.77197885	83.26869744	78.17158322
ADV1016660	6/23/2025	3.991	12/23/2026	105.9480475	104.4409055	102.963066	101.5137477	100.0921964	98.69768449	97.32950885	95.98699045	94.66947308
ADV1015729	5/21/2025	4.411	11/21/2025	101.6117966	101.2060768	100.8035793	100.4042658	100.0080985	99.61504039	99.2250548	98.83810579	98.45415792
ADV1015141	5/1/2025	3.883	11/2/2026	105.1893824	103.8287992	102.4923915	101.1795691	99.88976072	98.6224131	97.37699018	96.15297261	94.94985698
ADV1016893	6/30/2025	4.522	7/7/2025	100.0792969	100.0598803	100.0404839	100.0211076	100.0017514	99.98241531	99.96309922	99.94380312	99.92452699
ADV1016357	6/11/2025	4.498	7/11/2025	100.1270895	100.0964935	100.0659326	100.0354069	100.0049161	99.97446037	99.94403952	99.91365352	99.88330229
ADV1015742	5/21/2025	4.452	9/17/2025	100.8942545	100.6727218	100.4521696	100.2325912	100.0139803	99.79633029	99.57963487	99.36388766	99.14908239
ADV1016020	5/29/2025	4.043	6/29/2027	108.3309612	106.2749769	104.269101	102.3117947	100.4015773	98.53702377	96.71676211	94.93947099	93.20387751
ADV1015401	5/12/2025	4.486	8/12/2025	100.4925837	100.3722031	100.2521249	100.1323479	100.0128709	99.89369269	99.77481216	99.65622814	99.53793947
ADV1016268	6/6/2025	4.466	9/8/2025	100.7930835	100.5972919	100.4022685	100.2080087	100.0145081	99.82176202	99.62976611	99.43851593	99.24800707

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016576	6/18/2025	4.498	7/18/2025	100.2047052	100.1546481	100.1046581	100.0547353	100.0048795	99.95509043	99.90536807	99.85571226	99.80612285
ADV1016006	5/29/2025	4.023	8/30/2027	109.0251292	106.7908637	104.6140284	102.4927345	100.4251714	98.40960253	96.44436152	94.52784899	92.65852905
ADV1016090	6/2/2025	4.495	7/2/2025	100.0272883	100.0217241	100.0161649	100.0106107	100.0050615	99.99951727	99.99397802	99.98844375	99.98291444
ADV1016572	6/18/2025	4.479	9/18/2025	100.9071793	100.6835746	100.4609712	100.2393624	100.0187415	99.79910168	99.58043649	99.36273936	99.14600379
ADV1015235	5/6/2025	4.477	8/6/2025	100.4243981	100.3207864	100.217397	100.1142292	100.0112823	99.90855552	99.80604815	99.70375945	99.60168869
ADV1015607	5/16/2025	4.227	5/18/2026	103.5603486	102.6594861	101.7743378	100.9044945	100.049561	99.20915567	98.38290987	97.5704673	96.77148357
ADV1016861	6/27/2025	3.858	12/28/2026	105.9127954	104.3905919	102.8982645	101.4350093	100.0000509	98.59264118	97.21205759	95.85760254	94.52860209
ADV1016523	6/27/2025	3.998	6/27/2028	112.480113	109.3503035	106.3257025	103.4021815	100.5757987	97.84278916	95.19955581	92.64266088	90.16881794
ADV1015592	5/16/2025	4.047	5/16/2028	112.1518489	109.1455801	106.2367293	103.4216148	100.6967146	98.05865867	95.50422154	93.03031502	90.63398175
ADV1016363	6/11/2025	4.03	12/13/2027	110.2902767	107.7465589	105.2754406	102.8744317	100.5411431	98.27328179	96.06864628	93.92512262	91.84068016
ADV1015879	5/27/2025	4.472	8/27/2025	100.659091	100.4968136	100.3350629	100.1738362	100.013131	99.85294478	99.69327499	99.53411915	99.37547476
ADV1016887	6/30/2025	4.521	7/31/2025	100.3509887	100.2647961	100.1787502	100.0928508	100.0070974	99.92148965	99.83602729	99.7507099	99.66553713
ADV1016825	6/27/2025	4.511	7/28/2025	100.3167589	100.238902	100.1611713	100.0835664	100.006087	99.92873279	99.85150354	99.77439892	99.69741863
ADV1016674	6/23/2025	4.239	4/23/2026	103.2704934	102.4403378	101.6235573	100.8198302	100.0288449	99.25029975	98.48390257	97.72937022	96.98642834
ADV1016859	6/27/2025	3.825	12/27/2027	109.9312867	107.3535988	104.8505891	102.4196574	100.0583103	97.7641568	95.5349026	93.36834605	91.26237365
ADV1016835	6/27/2025	4.467	9/26/2025	100.9942654	100.748416	100.5037653	100.2603048	100.0180257	99.77691932	99.53697729	99.29819113	99.0605525
ADV1016573	6/18/2025	4.479	9/18/2025	100.9071793	100.6835746	100.4609712	100.2393624	100.0187415	99.79910168	99.58043649	99.36273936	99.14600379
ADV1016187	6/4/2025	4.008	6/4/2029	116.3198132	112.152798	108.1612378	104.3368071	100.6716195	97.15820268	93.78947418	90.55871898	87.45956855
ADV1016483	6/16/2025	4.506	7/14/2025	100.1603275	100.1213996	100.0825197	100.0436876	100.0049034	99.96616684	99.9274779	99.88883646	99.85024245
ADV1016695	6/24/2025	3.904	6/26/2028	112.1841419	109.0616845	106.0441323	103.1273719	100.3074757	97.58069208	94.94343645	92.39228302	89.92395659
ADV1016758	6/25/2025	4.257	3/25/2026	102.9425526	102.1941695	101.4566885	100.7298724	100.0134908	99.30731972	98.61114185	97.92474582	97.24792622
ADV1016370	6/13/2025	4.12	6/13/2030	120.741788	115.4068679	110.3456265	105.5425386	100.9830402	96.65346448	92.54098136	88.63354237	84.91982889
ADV1016016	5/29/2025	4.043	5/28/2027	107.944213	105.982275	104.0661566	102.1945107	100.3660389	98.57948927	96.83365436	95.12736941	93.45951046
ADV1015680	5/20/2025	4.141	11/24/2026	105.8156531	104.3888024	102.988318	101.6135308	100.2637939	98.93848171	97.63698886	96.35872968	95.10313723
ADV1016748	6/25/2025	4.336	1/26/2026	102.3243749	101.7387635	101.1598656	100.5875661	100.0217524	99.46231457	98.90914522	98.36213925	97.82119392
ADV1016303	6/10/2025	4.187	6/10/2030	121.0491161	115.7153047	110.6545725	105.8514563	101.2914489	96.9609347	92.84713065	88.93803087	85.22235551
ADV1015859	5/27/2025	4.005	5/27/2027	107.9983517	106.0360468	104.1195539	102.2475267	100.4186673	98.63172449	96.88549143	95.17880394	93.51053862
ADV1015394	5/12/2025	4.488	8/12/2025	100.4928261	100.3724449	100.2523661	100.1325884	100.0131108	99.89393202	99.77505089	99.65646627	99.538177
ADV1015499	5/14/2025	4.48	8/14/2025	100.5142382	100.3882718	100.2626356	100.1373284	100.0123488	99.88769535	99.76336686	99.63936198	99.51567939
ADV1016280	6/6/2025	4.493	7/7/2025	100.0828104	100.0633358	100.0438815	100.0244473	100.0050333	99.98563944	99.96626566	99.94691192	99.92757821
ADV1015732	5/21/2025	4.45	9/22/2025	100.9505489	100.7149011	100.4803565	100.2469073	100.0145458	99.78326439	99.55305549	99.3239116	99.09582532
ADV1016073	5/30/2025	4.033	11/16/2026	105.6612977	104.2564931	102.8773102	101.5231069	100.1932624	98.88717586	97.60426585	96.34396948	95.10574172
ADV1016112	6/2/2025	3.955	6/2/2027	107.9771594	105.9984712	104.0663401	102.179387	100.3362831	98.53574751	96.77654524	95.05748529	93.37741874

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016205	6/4/2025	4.058	12/4/2026	105.8225983	104.3680215	102.9407996	101.5402264	100.1656197	98.81632007	97.49168992	96.19111266	94.9139918
ADV1016864	6/27/2025	4.101	6/29/2026	103.9413571	102.9218611	101.9224006	100.9423885	99.98126093	99.0384753	98.11350975	97.20586204	96.31504868
ADV1016437	6/13/2025	4.393	12/15/2025	101.8734921	101.4005859	100.9320554	100.46784	100.0078801	99.55211735	99.10049429	98.65295465	98.20944313
ADV1015404	5/12/2025	4.306	1/12/2026	102.1521704	101.5973861	101.0485749	100.5056407	99.96848933	99.43702874	98.91116877	98.39082113	97.87589944
ADV1015293	5/7/2025	4.468	8/20/2025	100.58237	100.4394137	100.2968758	100.1547545	100.0130477	99.8717537	99.73087064	99.5903967	99.45033004
ADV1016693	6/24/2025	3.834	6/26/2028	112.194859	109.0670519	106.0444404	103.1228958	100.2984757	97.56741505	94.92611642	92.37114185	89.89920471
ADV1015886	5/27/2025	4.473	8/27/2025	100.6592532	100.4969755	100.3352243	100.1739972	100.0132916	99.85310498	99.69343479	99.53427854	99.37563375
ADV1016896	6/30/2025	4.52	7/15/2025	100.169821	100.128181	100.0865935	100.0450583	100.0035754	99.9621447	99.92076604	99.87943934	99.83816448
ADV1016886	6/30/2025	4.027	6/30/2026	103.9493491	102.926002	101.9228342	100.9392528	99.97468777	99.02859119	98.10043595	97.1897148	96.29593952
ADV1016095	6/2/2025	4.492	7/1/2025	100.0160274	100.0132456	100.0104662	100.0076892	100.0049146	100.0021425	99.99937275	99.99660544	99.99384052
ADV1016563	6/18/2025	4.497	7/18/2025	100.2046548	100.1545977	100.1046078	100.054685	100.0048292	99.9550402	99.90531788	99.85566211	99.80607274
ADV1015205	5/5/2025	4.159	5/5/2026	103.3473238	102.4835635	101.6342691	100.7990789	99.97764317	99.16962384	98.37469372	97.59253625	96.82284498
ADV1015990	5/29/2025	4.007	5/1/2028	111.7817514	108.8364639	105.987014	103.2297448	100.5611598	97.97791543	95.47681328	93.05479279	90.70892463
ADV1015577	5/16/2025	4.282	2/17/2026	102.544885	101.8976488	101.2585999	100.6275835	100.0044486	99.38904778	98.78123758	98.18087791	97.58783214
ADV1016677	6/23/2025	4.5	7/23/2025	100.2602706	100.1963169	100.132458	100.0686937	100.0050237	99.94144774	99.87796574	99.81457744	99.75128263
ADV1015333	5/8/2025	4.077	11/9/2026	105.5395292	104.1567909	102.7989354	101.4653475	100.1554319	98.86861207	97.60432999	96.36204512	95.14123379
ADV1016469	6/16/2025	4.505	7/15/2025	100.1715636	100.1298511	100.0881911	100.0465836	100.0050284	99.96352551	99.92207475	99.88067604	99.83932926
ADV1015773	5/22/2025	4.095	9/22/2028	113.773502	110.3786957	107.1048097	103.9467878	100.8998208	97.9593322	95.12096506	92.38057003	89.7341938
ADV1015722	5/21/2025	4.092	5/21/2027	107.9560565	106.0131455	104.1152075	102.260932	100.4490553	98.67835872	96.94766632	95.25584339	93.60179462
ADV1015921	5/28/2025	4.051	1/26/2028	110.8538013	108.1812752	105.5879258	103.0709213	100.6275506	98.25521688	95.95143257	93.71381338	91.54007354
ADV1015448	5/13/2025	4.146	1/22/2027	106.5537479	104.9599407	103.3982077	101.8676514	100.3674071	98.89664197	97.4545533	96.0403671	94.65333691
ADV1016566	6/18/2025	4.019	6/18/2027	108.1516497	106.1285712	104.1540905	102.226737	100.3450947	98.50780007	96.71353963	94.96104757	93.24910383
ADV1016760	6/25/2025	3.877	9/25/2029	117.2881393	112.7707795	108.4562738	104.3343393	100.3952777	96.62993771	93.02968095	89.58634977	86.29223738
ADV1016436	6/13/2025	4.056	12/14/2026	106.0439044	104.5587441	103.1020371	101.6730353	100.2710165	98.89528327	97.54516147	96.21999975	94.91916834
ADV1015923	5/28/2025	4.048	3/29/2028	111.5972111	108.7345371	105.960998	103.2732216	100.6679897	98.14222955	95.69300632	93.31751555	91.01307623
ADV1016757	6/25/2025	4.294	2/25/2026	102.6427157	101.9729962	101.3120266	100.6596362	100.0156585	99.3799315	98.75229721	98.13260168	97.52069485
ADV1016076	5/30/2025	4.472	8/29/2025	100.6812905	100.51345	100.3461686	100.1794435	100.0132718	99.84765086	99.68257795	99.51805035	99.35406538
ADV1016606	6/20/2025	4.481	9/22/2025	100.953052	100.7182461	100.4845394	100.2519242	100.0203929	99.78993771	99.56055125	99.33222601	99.10495459
ADV1016671	6/23/2025	4.498	7/10/2025	100.1137976	100.0860273	100.0582882	100.0305801	100.0029031	99.97525708	99.94764198	99.92005774	99.89250432
ADV1015755	5/22/2025	4.489	7/18/2025	100.2087886	100.1585639	100.1084067	100.0583168	100.0082941	99.95833846	99.9084497	99.8586277	99.80887233
ADV1016838	6/27/2025	4.511	7/28/2025	100.3167589	100.238902	100.1611713	100.0835664	100.006087	99.92873279	99.85150354	99.77439892	99.69741863
ADV1015622	5/19/2025	4.184	5/19/2026	103.5959869	102.6913023	101.8024586	100.9290417	100.070652	99.22690337	98.39742292	97.58185036	96.77983741
ADV1016804	6/26/2025	4.514	7/7/2025	100.0798241	100.0603978	100.0409917	100.0216057	100.0022399	99.98289411	99.96356837	99.94426263	99.92497687

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Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016690	6/24/2025	4.017	6/24/2030	120.3283738	114.9719009	109.891968	105.0727902	100.4995663	96.1584123	92.03629972	88.12099856	84.40102422
ADV1016250	6/5/2025	4.672	6/15/2035	140.2933912	129.0542957	118.8626002	109.6136006	101.2136206	93.57879671	86.63400285	80.31189747	74.55207924
ADV1016560	6/18/2025	4.48	9/17/2025	100.8959675	100.6751753	100.4553603	100.2365159	100.0186358	99.8017133	99.58574222	99.37071619	99.15662896
ADV1015716	5/21/2025	4.107	11/23/2026	105.8556434	104.4296803	103.0300449	101.6560697	100.3071092	98.98253907	97.68175551	96.4041741	95.14922917
ADV1015980	5/29/2025	4.489	7/29/2025	100.3310995	100.2501652	100.1693642	100.0886963	100.0081611	99.92775821	99.84748743	99.76734839	99.68734078
ADV1016945	6/30/2025	4.539	7/3/2025	100.0341278	100.0258097	100.0174993	100.0091967	100.0009017	99.99261439	99.98433476	99.97606279	99.96779847
ADV1015149	5/1/2025	4.498	8/1/2025	100.3703984	100.2807574	100.1912764	100.1019548	100.0127923	99.92378845	99.83494283	99.74625502	99.65772461
ADV1016264	6/6/2025	4.316	3/6/2026	102.7655336	102.0704619	101.3848107	100.7083891	100.0410114	99.38249694	98.73266964	98.09135817	97.45839569
ADV1016856	6/27/2025	3.926	12/28/2026	105.9080383	104.3876494	102.8970737	101.4355098	100.0021847	98.59635204	97.21729156	95.8643075	94.53672775
ADV1015979	5/29/2025	4.492	7/18/2025	100.2077658	100.1575845	100.1074705	100.0574238	100.0074443	99.9575317	99.90768597	99.85790694	99.80819449
ADV1015259	5/6/2025	4.011	5/1/2030	119.7834043	114.5936714	109.6646099	104.9817496	100.5314963	96.3010747	92.27847443	88.45240097	84.81222928
ADV1016612	6/20/2025	4.5	7/21/2025	100.2382527	100.1798499	100.1215304	100.0632941	100.0051406	99.94706993	99.88908181	99.83117609	99.77335259
ADV1015513	5/14/2025	4.48	8/14/2025	100.5142382	100.3882718	100.2626356	100.1373284	100.0123488	99.88769535	99.76336686	99.63936198	99.51567939
ADV1016173	6/4/2025	3.966	6/4/2027	108.02207	106.0372646	104.0992872	102.206747	100.3583036	98.55266534	96.78858696	95.06486768	93.38034923
ADV1016305	6/9/2025	4.397	11/10/2025	101.4784683	101.1049576	100.7341909	100.3661379	100.0007689	99.63805449	99.2779657	98.92047402	98.56555136
ADV1015602	5/16/2025	4.132	12/16/2026	106.0751536	104.5860315	103.1255117	101.6928406	100.2872904	98.908158	97.55476444	96.22645338	94.92259039
ADV1016023	5/29/2025	4.018	10/29/2027	109.726716	107.3164644	104.9718484	102.6907136	100.4709893	98.31068455	96.20788484	94.16074847	92.1675034
ADV1016602	6/20/2025	3.899	6/20/2028	112.3250912	109.2124693	106.2039582	103.2954944	100.4831968	97.76335738	95.13243272	92.5870354	90.12392631
ADV1016688	6/24/2025	3.925	10/24/2028	113.563665	110.0825768	106.728348	103.495665	100.3794664	97.37493055	94.47746193	91.68267969	88.98640622
ADV1016802	6/26/2025	4.519	7/3/2025	100.0346471	100.0263249	100.0180103	100.0097035	100.0014044	99.99311293	99.98482916	99.97655305	99.96828459
ADV1016423	6/13/2025	4.5	7/14/2025	100.1605983	100.121656	100.0827618	100.0439154	100.0051168	99.96636597	99.92766275	99.88900705	99.85039879
ADV1016797	6/26/2025	3.929	12/28/2026	105.912582	104.3921572	102.9015463	101.4399479	100.0065887	98.60072269	97.22162937	95.86861302	94.54100152
ADV1015501	5/14/2025	4.215	11/16/2026	105.8189604	104.4145401	103.0357095	101.681828	100.3522759	99.04645358	97.76378064	96.50369525	95.26565331
ADV1015920	5/28/2025	4.122	2/24/2027	106.9475319	105.2531437	103.594101	101.9693626	100.3779282	98.8188365	97.2911631	95.79401895	94.32654847
ADV1015733	5/21/2025	4.45	9/22/2025	100.9505489	100.7149011	100.4803565	100.2469073	100.0145458	99.78326439	99.55305549	99.3239116	99.09582532
ADV1016812	6/26/2025	4.483	8/26/2025	100.6446291	100.4857481	100.3273757	100.1695096	100.0121472	99.85528623	99.69892416	99.54305865	99.38768731
ADV1015364	5/9/2025	4.487	7/11/2025	100.1323242	100.1016031	100.0709173	100.0402667	100.0096513	99.97907101	99.94852579	99.91801555	99.88754023
ADV1015739	5/21/2025	4.182	11/23/2026	105.8611163	104.4367312	103.0386207	101.6661193	100.3185833	98.99539007	97.69593739	96.41964241	95.16594095
ADV1016754	6/25/2025	4.454	10/29/2025	101.3606985	101.0217828	100.6851253	100.3507035	100.0184953	99.68847874	99.36063221	99.03493439	98.71136425
ADV1015209	5/5/2025	4.156	5/5/2026	103.3447502	102.481002	101.6317195	100.796541	99.97511687	99.16710901	98.37219024	97.59004398	96.8203638
ADV1016142	6/3/2025	4.494	7/3/2025	100.0383575	100.0300114	100.0216731	100.0133424	100.0050195	99.99670435	99.98839686	99.98009706	99.97180492
ADV1016641	6/23/2025	4.498	7/22/2025	100.2488871	100.1877202	100.1266421	100.0656529	100.0047521	99.94393974	99.8832155	99.82257922	99.7620307
ADV1015967	5/29/2025	4.478	8/28/2025	100.6710994	100.5060479	100.3415392	100.1775705	100.0141391	99.85124259	99.68887817	99.52704328	99.36573534

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016890	6/30/2025	3.814	1/12/2028	110.0797811	107.4561074	104.9094275	102.4370203	100.0362788	97.70470453	95.43990226	93.23957495	91.10151915
ADV1016651	6/23/2025	3.956	6/25/2029	116.335268	112.1074922	108.0602503	104.1848518	100.4730718	96.91712384	93.50963357	90.24361499	87.11244777
ADV1016051	5/30/2025	4.151	10/30/2026	105.5117059	104.1566111	102.8257875	101.5186315	100.2345594	98.97300627	97.73342539	96.51528733	95.31807941
ADV1016396	6/12/2025	4.499	7/14/2025	100.1607278	100.1217807	100.0828816	100.0440305	100.0052271	99.96647148	99.92776347	99.889103	99.85048996
ADV1016827	6/27/2025	4.511	7/28/2025	100.3167589	100.238902	100.1611713	100.0835664	100.006087	99.92873279	99.85150354	99.77439892	99.69741863
ADV1016901	6/30/2025	4.521	7/31/2025	100.3509887	100.2647961	100.1787502	100.0928508	100.0070974	99.92148965	99.83602729	99.7507099	99.66553713
ADV1016402	6/12/2025	4.293	3/12/2026	102.8187896	102.106892	101.4048768	100.7125389	100.0296788	99.35610235	98.6916209	98.03605075	97.38921313
ADV1015461	5/15/2025	4.208	5/15/2030	120.8907985	115.6348408	110.6444184	105.9046957	101.4017416	97.12246958	93.05458236	89.18652042	85.50741401
ADV1015283	5/7/2025	3.886	5/8/2028	111.5963123	108.6203142	105.7401537	102.9522331	100.2531094	97.63948716	95.10821118	92.65625972	90.28073816
ADV1015800	5/23/2025	3.993	5/24/2027	107.9400501	105.9865425	104.0784705	102.2145037	100.3933599	98.61380214	96.87463769	95.17471556	93.51292498
ADV1016515	6/17/2025	4.38	6/13/2031	125.6114871	119.0970037	112.9733629	107.2149289	101.7978789	96.70006626	91.90089364	87.38119727	83.12313994
ADV1016003	5/29/2025	4.704	7/13/2035	140.8297402	129.486491	119.2069157	109.8840024	101.4220842	93.73558004	86.74788278	80.39037357	74.60155002
ADV1016719	6/24/2025	4.502	7/24/2025	100.2714973	100.2047647	100.1381328	100.0716014	100.0051702	99.93883911	99.87260781	99.80647609	99.74044373
ADV1015254	5/6/2025	3.881	5/1/2028	111.5060932	108.5507569	105.6900259	102.9203703	100.2384112	97.64091324	95.12477819	92.68703787	90.32484822
ADV1016938	6/30/2025	3.748	12/29/2028	113.9120277	110.2325118	106.6939466	103.2901581	100.0152779	96.86372596	93.83019494	90.90963511	88.09724041
ADV1015986	5/29/2025	4.41	11/28/2025	101.6889998	101.2637288	100.841987	100.4237305	100.0089164	99.59750236	99.18944677	98.78470866	98.38324776
ADV1016702	6/24/2025	4.367	12/24/2025	101.961731	101.4638428	100.9707987	100.4825282	99.99896221	99.52003301	99.04567409	98.57582025	98.11040751
ADV1016430	6/13/2025	4.5	7/14/2025	100.1605983	100.121656	100.0827618	100.0439154	100.0051168	99.96636597	99.92766275	99.88900705	99.85039879
ADV1015561	5/15/2025	4.166	4/15/2030	120.3772113	115.2194393	110.3184335	105.6599933	101.2307809	97.01826442	93.01066464	89.19690544	85.56656808
ADV1015633	5/19/2025	4.236	5/19/2026	103.5796198	102.6758897	101.787971	100.9154508	100.0579303	99.21502454	98.38636154	97.57158192	96.7703383
ADV1015719	5/21/2025	4.449	9/22/2025	100.9503144	100.7146674	100.4801236	100.2466752	100.0143145	99.78303382	99.55282569	99.32368258	99.09559707
ADV1015267	5/6/2025	4.295	5/1/2035	121.43576	115.6567123	110.2679819	105.2386766	100.5406181	96.14808425	92.03757655	88.18761174	84.57853412
ADV1016015	5/29/2025	4.251	5/29/2026	103.7125422	102.7804028	101.8650527	100.9660407	100.0829318	99.21530638	98.36275945	97.52489999	96.70135043
ADV1015933	5/28/2025	4.495	7/2/2025	100.028142	100.0225743	100.0170117	100.011454	100.0059013	100.0003537	99.99481098	99.98927327	99.98374052
ADV1015595	5/16/2025	4.191	8/17/2026	104.6445712	103.4843939	102.3500224	101.2406015	100.1553133	99.09337516	98.05403825	97.03658539	96.04032948
ADV1016330	6/10/2025	4.468	9/10/2025	100.8156616	100.6143428	100.4138374	100.2141407	100.0152474	99.81715288	99.61985212	99.42334032	99.22761269
ADV1016308	6/9/2025	4.469	9/9/2025	100.8046052	100.606073	100.4083314	100.2113757	100.0152012	99.81980323	99.62517703	99.43131802	99.2382216
ADV1016039	5/30/2025	4.474	8/29/2025	100.6816258	100.5137845	100.3465023	100.1797763	100.0136038	99.84798204	99.6829083	99.51837989	99.35439409
ADV1016768	6/25/2025	3.988	12/28/2026	106.0023943	104.4812668	102.9899651	101.5276875	100.0936604	98.68713738	97.30739776	95.95374553	94.62550828
ADV1016046	5/30/2025	4.425	10/30/2025	101.3661583	101.0233724	100.6828871	100.3446794	100.0087264	99.67500568	99.3434952	99.01417304	98.68701764
ADV1015883	5/28/2025	4.118	2/19/2030	119.5702328	114.5903958	109.8518995	105.341693	101.0475048	96.95779211	93.06169293	89.34898219	85.8100307
ADV1016873	6/27/2025	3.824	12/27/2029	117.9917807	113.195082	108.6253277	104.2705505	100.1194777	96.16148743	92.38656767	88.78527768	85.34871256
ADV1015871	5/27/2025	4.07	5/27/2027	107.9846303	106.0250249	104.1111251	102.2415889	100.4151227	98.63047905	96.88645492	95.18188966	93.51566326

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016054	5/30/2025	3.973	5/28/2027	107.9480904	105.9835528	104.0649395	102.1908992	100.3601292	98.57137384	96.82342192	95.11510515	93.44529624
ADV1015546	5/15/2025	4.256	4/15/2026	103.1909518	102.38332	101.5883616	100.8057794	100.0352855	99.27660095	98.52945521	97.79358604	97.06873908
ADV1016219	6/5/2025	3.94	3/5/2027	106.8783622	105.1566931	103.4713514	101.8212521	100.2053535	98.62265513	97.07219575	95.55305136	94.06433332
ADV1016644	6/23/2025	4.815	6/23/2039	153.0576635	137.014876	122.9615349	110.6339103	99.80480871	90.27832812	81.88538991	74.47992916	67.93564371
ADV1016552	6/17/2025	4.289	4/17/2026	103.2409894	102.4275922	101.6270445	100.8390428	100.0632936	99.29951206	98.54742236	97.80675706	97.07725679
ADV1016225	6/5/2025	4.493	7/10/2025	100.1167071	100.0888747	100.0610734	100.0333033	100.0055643	99.97785637	99.95017942	99.92253342	99.89491829
ADV1016467	6/16/2025	4.504	7/16/2025	100.1828002	100.1383024	100.0938619	100.0494786	100.0051524	99.96088316	99.91667075	99.87251507	99.82841601
ADV1016525	6/17/2025	4.479	9/17/2025	100.8959073	100.6750885	100.455247	100.2363762	100.0184698	99.8015212	99.58552409	99.37047215	99.15635911
ADV1016867	6/27/2025	4.467	9/29/2025	101.0284562	100.7741607	100.5211412	100.269388	100.0188918	99.76964306	99.52163261	99.27485123	99.02928984
ADV1016004	5/29/2025	4.695	5/15/2035	140.2746869	129.1225008	119.001584	109.8096429	101.4550739	93.85579519	86.93821098	80.63629354	74.89076853
ADV1016902	6/30/2025	4.521	7/29/2025	100.3283528	100.2477369	100.1672539	100.0869033	100.006685	99.92659845	99.84664349	99.76681976	99.68712695
ADV1016918	6/30/2025	4.524	8/1/2025	100.3627334	100.2737547	100.1849348	100.0962732	100.0077695	99.91942327	99.8312341	99.74320157	99.65532527
ADV1015932	5/28/2025	4.284	5/28/2026	103.7310124	102.8015537	101.8887878	100.9922675	100.1115613	99.24625309	98.39594118	97.56023771	96.73876812
ADV1016252	6/5/2025	4.103	12/7/2026	105.9242402	104.4607375	103.0249047	101.6160238	100.2334012	98.87636651	97.54427181	96.23649053	94.95241668
ADV1016581	6/18/2025	4.499	7/10/2025	100.1146739	100.0868863	100.0591299	100.0314045	100.0037102	99.97604695	99.94841461	99.92081316	99.89324254
ADV1016646	6/23/2025	4.499	7/23/2025	100.2602065	100.1962529	100.132394	100.0686297	100.0049597	99.94138387	99.87790192	99.81451368	99.75121892
ADV1015604	5/16/2025	4.108	2/16/2027	106.8187005	105.1496107	103.5150254	101.9139403	100.3453901	98.80844636	97.30221611	95.82583981	94.3784899
ADV1015851	5/27/2025	4.476	8/27/2025	100.6597399	100.4974609	100.3357086	100.1744803	100.0137734	99.85358558	99.69391417	99.53475672	99.37611073
ADV1016185	6/4/2025	4.008	6/4/2029	116.3198132	112.152798	108.1612378	104.3368071	100.6716195	97.15820268	93.78947418	90.55871898	87.45956855
ADV1015596	5/16/2025	4.16	5/16/2030	120.6629187	115.4096876	110.4220656	105.6852032	101.185157	96.9088293	92.84391287	88.97883922	85.3027306
ADV1016476	6/16/2025	4.505	7/16/2025	100.1828452	100.1383474	100.0939068	100.0495235	100.0051972	99.96092794	99.91671549	99.87255978	99.82846068
ADV1016014	5/29/2025	4.387	12/31/2025	102.0549754	101.5354409	101.0211455	100.5120104	100.0079583	99.50891355	99.01480201	98.52555091	98.04108894
ADV1015781	5/22/2025	4.479	8/22/2025	100.6042281	100.4559099	100.3080397	100.1606155	100.0136352	99.86709688	99.72099844	99.57533789	99.43011323
ADV1016732	6/24/2025	3.886	10/24/2028	113.4322756	109.9533934	106.6013107	103.3707157	100.2565493	97.2539916	94.35844906	91.56554258	88.87109626
ADV1016663	6/23/2025	3.993	12/23/2026	105.9510492	104.4438838	102.9660212	101.5166802	100.0951067	98.70057285	97.33237568	95.98983612	94.67229794
ADV1015171	5/2/2025	4.534	7/3/2025	100.0442378	100.0358579	100.0274858	100.0191214	100.0107648	100.002416	99.99407487	99.98574146	99.97741575
ADV1016192	6/4/2025	4.65	6/4/2035	139.9878638	128.7943915	118.6415083	109.425465	101.0534095	93.44219015	86.51729501	80.21191266	74.46609917
ADV1016615	6/20/2025	4.482	9/22/2025	100.9532854	100.7184789	100.4847716	100.2521559	100.0206239	99.79016818	99.56078113	99.3324553	99.1051833
ADV1015266	5/6/2025	3.883	5/1/2028	111.5118513	108.5564319	105.6956198	102.925885	100.2438486	97.64627526	95.13006655	92.6922543	90.32999437
ADV1016038	5/30/2025	4.486	7/31/2025	100.3531202	100.2665985	100.1802241	100.0939967	100.0079159	99.92198136	99.83619271	99.75054958	99.66505163
ADV1016340	6/10/2025	4.186	6/10/2030	121.0440925	115.7104051	110.6497921	105.8467909	101.2868941	96.95648657	92.84278533	88.93378468	85.21820495
ADV1016791	6/26/2025	3.847	6/28/2027	107.9229921	105.8740405	103.8749797	101.9242795	100.0204672	98.16212573	96.34789034	94.57644679	92.8465289
ADV1015497	5/14/2025	4.171	5/14/2030	118.6806097	114.0191507	109.5868622	105.3710219	101.3596853	97.54163438	93.90632949	90.44386438	87.14492492

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015786	5/22/2025	4.18	5/22/2026	103.628473	102.7152826	101.8182253	100.9368756	100.0708229	99.21967102	98.3830371	97.56055144	96.75185681
ADV1016218	6/5/2025	3.866	12/6/2027	109.9847021	107.4603448	105.0076016	102.6240322	100.3072946	98.05514015	95.86540971	93.73602911	91.66500547
ADV1016439	6/13/2025	4.475	9/15/2025	100.8728255	100.6575282	100.4431607	100.2297171	100.0171914	99.80557743	99.5948694	99.3850614	99.17614759
ADV1015402	5/12/2025	4.486	8/12/2025	100.4925837	100.3722031	100.2521249	100.1323479	100.0128709	99.89369269	99.77481216	99.65622814	99.53793947
ADV1016078	5/30/2025	4.146	8/31/2026	104.7653833	103.565365	102.3929056	101.2470627	100.1269367	99.03166803	97.96043499	96.91245185	95.88696682
ADV1015874	5/27/2025	4.125	5/28/2030	120.6056751	115.3200803	110.3033904	105.5404798	101.0171513	96.72007448	92.63672822	88.75534753	85.06487412
ADV1016862	6/27/2025	4.031	6/29/2026	103.9418416	102.9213167	101.9208635	100.9398937	99.97784181	99.03416394	98.10833695	97.19985737	96.30824054
ADV1015677	5/20/2025	4.484	7/9/2025	100.1079396	100.0828433	100.0577745	100.0327331	100.007719	99.98273231	99.95777284	99.93284057	99.90793547
ADV1015379	5/9/2025	4.487	7/9/2025	100.1098821	100.0847516	100.0596485	100.0345729	100.0095246	99.98450374	99.95951016	99.93454382	99.90960468
ADV1016326	6/10/2025	4.495	7/10/2025	100.1159171	100.0881018	100.0603178	100.0325649	100.0048431	99.97715232	99.94949253	99.92186365	99.89426563
ADV1016709	6/24/2025	4.472	9/22/2025	100.9503163	100.7156312	100.4820447	100.2495492	100.018137	99.78780035	99.55853188	99.33032409	99.10316957
ADV1016845	6/27/2025	3.853	6/28/2027	107.9351151	105.8860384	103.886855	101.9360344	100.0321042	98.173647	96.3592981	94.58774316	92.85771597
ADV1016228	6/5/2025	4.493	8/5/2025	100.4097164	100.309281	100.2090545	100.109036	100.0092249	99.90962061	99.81022239	99.71102959	99.61204155
ADV1015720	5/21/2025	4.41	11/21/2025	101.6113959	101.2056781	100.8031826	100.4038711	100.0077058	99.61464965	99.22466601	98.83771893	98.45377298
ADV1016909	6/30/2025	4.514	8/29/2025	100.6832745	100.5160615	100.3494055	100.1833036	100.0177532	99.85275149	99.68829573	99.52438324	99.36101134
ADV1015715	5/21/2025	4.48	8/21/2025	100.5931743	100.4476484	100.3025554	100.1578933	100.01366	99.86985363	99.72647232	99.58351411	99.4409771
ADV1015606	5/16/2025	4.099	3/16/2027	107.1598528	105.4077149	103.692986	102.0145326	100.3712671	98.76214589	97.18616691	95.64236748	94.12982244
ADV1016520	6/17/2025	4.498	8/1/2025	100.3625845	100.2734639	100.1845024	100.0956994	100.0070545	99.91856739	99.83023758	99.74206466	99.65404822
ADV1016222	6/5/2025	4.055	6/5/2030	120.3375928	115.0357914	110.0049468	105.2297508	100.6958391	96.38972798	92.29875609	88.41103002	84.71537387
ADV1016833	6/27/2025	4.41	12/3/2025	101.7415744	101.3035737	100.8693291	100.4387924	100.0119163	99.58865426	99.16896058	98.7527903	98.34009918
ADV1015581	5/16/2025	4.138	5/18/2026	103.5435792	102.6419271	101.7560165	100.8854371	100.0297929	99.18870122	98.3617925	97.5487096	96.74910726
ADV1016659	6/23/2025	4.132	6/23/2026	103.9017775	102.8991574	101.9159321	100.951542	100.0054492	99.07713556	98.16610287	97.27187114	96.39397808
ADV1016049	5/30/2025	4.473	8/29/2025	100.6814582	100.5136173	100.3463355	100.1796099	100.0134378	99.84781645	99.68274313	99.51821512	99.35422974
ADV1015992	5/29/2025	4.109	5/1/2030	119.3592424	114.3847558	109.6591873	105.1686397	100.9000659	96.84121219	92.98056634	89.30730849	85.8112661
ADV1016522	6/27/2025	4.104	6/27/2030	120.7978811	115.4210691	110.3221237	105.4851636	100.8952986	96.5385628	92.40185183	88.47286576	84.74005532
ADV1016182	6/4/2025	4.395	12/4/2025	101.749867	101.3078386	100.8696266	100.4351818	100.0044558	99.57740087	99.15397037	98.73411824	98.31779926
ADV1016118	6/3/2025	4.124	4/25/2030	120.2777623	115.0934483	110.1685765	105.4887707	101.0405253	96.81114902	92.78871064	88.9619902	85.32043274
ADV1016594	6/20/2025	4.506	7/7/2025	100.0806896	100.0612488	100.0418282	100.0224278	100.0030474	99.98368719	99.964347	99.94502684	99.92572665
ADV1016480	6/16/2025	4.481	9/16/2025	100.8850693	100.6670354	100.4499549	100.2338216	100.0186292	99.80437138	99.59104213	99.3786353	99.16714486
ADV1015609	5/16/2025	4.477	8/14/2025	100.5135307	100.3875962	100.261992	100.1367165	100.0117685	99.88714672	99.76284975	99.6388763	99.51522506
ADV1016698	6/24/2025	4.497	7/8/2025	100.0910877	100.0688786	100.0466932	100.0245314	100.0023933	99.9802787	99.95818762	99.93612002	99.91407585
ADV1016019	5/29/2025	4.167	8/31/2026	104.7904084	103.5902334	102.4176196	101.2716248	100.1513491	99.05593287	97.98455447	96.9364281	95.91080187
ADV1016604	6/20/2025	4.497	7/31/2025	100.3505863	100.2642882	100.1781371	100.0921325	100.0062742	99.92056169	99.83499474	99.74957294	99.66429594

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016759	6/25/2025	4.224	4/22/2026	103.2460448	102.4187896	101.6048199	100.8038173	100.0154731	99.23948869	98.47557452	97.72345019	96.98284386
ADV1015462	5/15/2025	4.1	10/25/2027	109.8750403	107.474069	105.13822	102.865346	100.6533841	98.5003525	96.40434602	94.36353315	92.37615245
ADV1016753	6/25/2025	4.514	7/25/2025	100.283431	100.213919	100.1445138	100.0752153	100.006023	99.93693688	99.8679566	99.79908193	99.73031264
ADV1016341	6/10/2025	4.35	1/12/2026	102.1720312	101.6189742	101.0718717	100.5306279	99.99514898	99.46534309	98.94112037	98.42239283	97.90907433
ADV1015383	5/9/2025	4.029	5/9/2030	120.3237421	115.0867576	110.1140572	105.3908995	100.9034402	96.63867251	92.58437298	88.72904991	85.0618961
ADV1015504	5/14/2025	4.454	9/15/2025	100.8730895	100.6570139	100.4418716	100.2276565	100.0143625	99.80198371	99.59051405	99.37994768	99.17027873
ADV1016100	6/2/2025	4.108	12/2/2026	105.8714878	104.4219805	102.9996343	101.6037506	100.2336544	98.88869285	97.56823504	96.27167056	94.99840888
ADV1015864	5/27/2025	4.346	2/27/2026	102.7000309	102.0245776	101.3580173	100.7001752	100.050881	99.40996865	98.77727667	98.15264752	97.53592772
ADV1015785	5/22/2025	4.032	3/29/2027	107.326296	105.5348684	103.7823019	102.0673973	100.3890057	98.74602533	97.13739923	95.56211285	94.01919195
ADV1016774	6/25/2025	4.048	6/25/2026	103.911818	102.9025775	101.91298	100.9424556	99.99045614	99.05645426	98.13994253	97.24043244	96.35745353
ADV1015397	5/12/2025	4.492	7/14/2025	100.165683	100.1265861	100.0875374	100.0485368	100.0095841	99.97067943	99.93182253	99.89301335	99.85425179
ADV1016796	6/26/2025	4.091	6/26/2026	103.8957696	102.8848643	101.8936712	100.9216171	99.96815101	99.03274297	98.11488289	97.21407977	96.3298608
ADV1015917	5/28/2025	4.088	5/28/2027	108.0314136	106.0686029	104.1516286	102.2791431	100.4498476	98.66248955	96.91586125	95.20879747	93.54017385
ADV1016784	6/26/2025	4.5	7/28/2025	100.3160693	100.2382035	100.1604638	100.08285	100.0053617	99.92799857	99.85076044	99.77364694	99.69665779
ADV1016614	6/20/2025	4.502	7/16/2025	100.1820349	100.1375594	100.0931411	100.04878	100.004476	99.96022882	99.91603852	99.87190492	99.8278279
ADV1015956	5/29/2025	4.484	8/18/2025	100.5583186	100.4213564	100.2847817	100.1485927	100.0127878	99.87736532	99.7423236	99.607661	99.47337588
ADV1015774	5/22/2025	4.149	5/22/2029	116.7356088	112.5970471	108.6311892	104.8299111	101.1855138	97.69069869	94.33854477	91.1224869	88.03629582
ADV1016518	6/27/2025	4.037	6/28/2027	108.3068885	106.2539743	104.2510288	102.2965195	100.3889717	98.52696607	96.70913606	94.93416544	93.20078621
ADV1015137	5/1/2025	4.039	5/1/2026	103.1993453	102.3473798	101.5094967	100.685349	99.87460055	99.07692643	98.29201198	97.51955263	96.75925341
ADV1015243	5/6/2025	4.04	8/26/2026	104.5825054	103.3976212	102.2396512	101.107685	100.0008527	98.91832297	97.85930083	96.82302558	95.80876908
ADV1016935	6/30/2025	4.525	7/31/2025	100.351333	100.2651401	100.1790939	100.0931942	100.0074405	99.92183249	99.83636983	99.75105215	99.66587909
ADV1015649	5/19/2025	4.422	10/21/2025	101.2656112	100.9479263	100.6322311	100.3185066	100.0067345	99.69689651	99.38897458	99.08295092	98.77880793
ADV1015420	5/12/2025	4.387	11/12/2025	101.5013102	101.1208712	100.7432696	100.3684738	99.99645225	99.62717431	99.26060958	98.89672814	98.53550051
ADV1016438	6/13/2025	4.308	3/13/2026	102.8411673	102.1264096	101.4216123	100.7265681	100.041075	99.36493673	98.69796239	98.03996618	97.39076735
ADV1016639	6/23/2025	4.586	6/23/2036	142.9233496	130.4656099	119.2723932	109.2063516	100.1458059	91.9828816	84.62187529	77.97782226	71.97523887
ADV1016395	6/12/2025	4.499	7/14/2025	100.1607278	100.1217807	100.0828816	100.0440305	100.0052271	99.96647148	99.92776347	99.889103	99.85048996
ADV1015670	5/20/2025	4.447	9/22/2025	100.950003	100.714329	100.4797582	100.246283	100.0138956	99.78258837	99.55235379	99.32318436	99.09507265
ADV1016895	6/30/2025	4.522	7/15/2025	100.1699043	100.1282643	100.0866767	100.0451415	100.0036586	99.96222785	99.92084915	99.87952241	99.83824752
ADV1016883	6/30/2025	4.521	7/30/2025	100.3396709	100.2562669	100.1730027	100.0898778	100.0068919	99.9240448	99.84133603	99.75876529	99.67633223
ADV1016816	6/26/2025	4.51	7/3/2025	100.0345708	100.0262485	100.017934	100.0096272	100.0013281	99.99303664	99.98475288	99.97647679	99.96820835
ADV1016574	6/18/2025	4.394	12/16/2025	101.8846333	101.4091552	100.9381024	100.4714132	100.009027	99.55088439	99.09692706	98.64709775	98.20134025
ADV1016858	6/27/2025	3.855	6/25/2027	107.9043997	105.8641144	103.8733126	101.9304826	100.0341695	98.18297261	96.37554332	94.61058243	92.8868381
ADV1016711	6/24/2025	4.5	7/24/2025	100.2713635	100.204631	100.1379993	100.071468	100.0050369	99.93870592	99.87247473	99.80634312	99.74031087

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015190	5/2/2025	4.507	8/4/2025	100.405344	100.3072904	100.2094337	100.1117734	100.0143089	99.91703952	99.8199647	99.72308381	99.62639628
ADV1015634	5/19/2025	4.191	5/20/2030	120.8557718	115.586576	110.5842769	105.8339245	101.321483	97.0337696	92.95839851	89.08372899	85.39881661
ADV1016485	6/16/2025	4.483	9/16/2025	100.8855032	100.6674682	100.4503867	100.2342523	100.0190587	99.80479988	99.59146954	99.37906164	99.16757013
ADV1015598	5/16/2025	4.174	9/16/2026	105.0009943	103.7547134	102.5381135	101.3501419	100.1897951	99.05611631	97.94819222	96.865151	95.80615978
ADV1016565	6/18/2025	4.051	6/18/2030	120.4428074	115.1008209	110.0337098	105.2258358	100.662532	96.33003713	92.21543523	88.30659927	84.59213891
ADV1016470	6/16/2025	4.385	12/16/2025	101.8807029	101.4051326	100.9339884	100.4672086	100.0047326	99.54650112	99.09245569	98.64253908	98.19669506
ADV1015576	5/16/2025	4.282	1/16/2026	102.1813895	101.623881	101.0724729	100.5270653	99.98756032	99.45386229	98.92587756	98.40351451	97.88668344
ADV1015262	5/6/2025	4.311	4/30/2032	127.9406067	120.4325882	113.432055	106.9018289	100.8076413	95.1178921	89.80342909	84.83734647	80.19480124
ADV1015586	5/16/2025	4.221	5/18/2026	103.5549873	102.6541509	101.7690283	100.8992104	100.0443019	99.20392141	98.3777001	97.56528174	96.76632193
ADV1016468	6/16/2025	4.504	7/15/2025	100.1715214	100.1298089	100.088149	100.0465415	100.0049864	99.9634835	99.92203277	99.88063409	99.83928735
ADV1015962	5/29/2025	4.415	11/28/2025	101.691099	101.2658174	100.8440651	100.4257982	100.0109738	99.59954955	99.19148381	98.78673564	98.38526476
ADV1016691	6/24/2025	3.834	6/26/2028	112.194859	109.0670519	106.0444404	103.1228958	100.2984757	97.56741505	94.92611642	92.37114185	89.89920471
ADV1016433	6/13/2025	4.501	7/14/2025	100.1606378	100.1216955	100.0828012	100.0439548	100.0051562	99.96640533	99.92770207	99.88904634	99.85043805
ADV1015922	5/28/2025	4.049	2/23/2028	111.1914621	108.4324926	105.7570737	103.1621407	100.6447634	98.2021396	95.83158833	93.53054339	91.2965478
ADV1015268	5/6/2025	4.346	11/6/2025	101.4203632	101.0568115	100.6958473	100.3374431	99.98157161	99.62820613	99.27732015	98.92888761	98.58288278
ADV1016769	6/25/2025	3.838	6/25/2027	108.0157974	105.9716225	103.9770681	102.0306169	100.1308088	98.27623825	96.46555172	94.69744553	92.97066356
ADV1016610	6/20/2025	4.497	7/31/2025	100.3505863	100.2642882	100.1781371	100.0921325	100.0062742	99.92056169	99.83499474	99.74957294	99.66429594
ADV1016670	6/23/2025	4.27	3/23/2026	102.929236	102.1864402	101.4543884	100.7328483	100.0215943	99.32040716	98.62907406	97.94738794	97.27514758
ADV1016270	6/6/2025	4.493	7/8/2025	100.0940532	100.0717943	100.0495592	100.0273478	100.00516	99.98299584	99.96085526	99.9387382	99.91664463
ADV1015540	5/15/2025	4.446	9/23/2025	100.9618915	100.723248	100.4857335	100.24934	100.0140595	99.77988412	99.5468061	99.31481767	99.08391117
ADV1016248	6/5/2025	4.4	8/13/2032	129.4489541	121.5927653	114.2864404	107.4882544	101.1598684	95.2660377	89.77434604	84.65496448	79.8804317
ADV1016882	6/30/2025	3.862	12/31/2026	105.953608	104.4229293	102.9224433	101.4513339	100.008814	98.59412395	97.20653063	95.84532614	94.50982673
ADV1015246	5/6/2025	4.119	5/6/2026	103.324721	102.4582889	101.6064156	100.768736	99.944897	99.13455724	98.33738645	97.55306508	96.78128385
ADV1016892	6/30/2025	3.845	1/10/2029	114.1200399	110.410154	106.8432317	103.4129695	100.1133783	96.93876555	93.88371896	90.94309093	88.1119841
ADV1016703	6/24/2025	4.123	6/24/2026	103.9046015	102.8991883	101.913276	100.9463007	99.99771987	99.06701159	98.15367358	97.25722221	96.3771917
ADV1015724	5/22/2025	4.091	5/24/2027	107.9900543	106.0386046	104.1324969	102.2704048	100.4510497	98.67319855	96.93566174	95.23729157	93.57698035
ADV1016860	6/27/2025	3.816	6/27/2028	111.9273554	108.8059499	105.7895404	102.8740058	100.0554108	97.32999721	94.69417409	92.14450974	89.67772347
ADV1016807	6/26/2025	3.906	12/28/2026	105.8777475	104.3575974	102.8672563	101.4059229	99.97282431	98.56721436	97.1883728	95.835604	94.50823594
ADV1016559	6/18/2025	4.494	8/20/2025	100.5792294	100.4370024	100.2951915	100.1537951	100.0128111	99.87223781	99.73207336	99.59231593	99.45296371
ADV1016888	6/30/2025	3.82	11/17/2027	109.4743849	107.0134602	104.6209316	102.2945172	100.0320248	97.83134782	95.69046153	93.60741923	91.5803488
ADV1015743	5/21/2025	4.484	7/23/2025	100.2647587	100.200544	100.1364244	100.0723998	100.0084699	99.94463448	99.88089336	99.81724633	99.75369317
ADV1016338	6/10/2025	4.412	11/5/2025	101.4275839	101.0682721	100.7114967	100.3572309	100.0054483	99.65612279	99.30922863	98.96474051	98.62263341
ADV1015256	5/6/2025	3.881	5/1/2028	111.5060932	108.5507569	105.6900259	102.9203703	100.2384112	97.64091324	95.12477819	92.68703787	90.32484822

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016649	6/23/2025	4.5	7/22/2025	100.2490098	100.1878428	100.1267647	100.0657753	100.0048745	99.94406196	99.88333762	99.82270124	99.76215263
ADV1015291	5/7/2025	4.356	11/3/2025	101.3905197	101.0355247	100.6829937	100.332901	99.9852214	99.63993009	99.29700248	98.95641438	98.61814189
ADV1015593	5/16/2025	4.227	5/18/2026	103.5603486	102.6594861	101.7743378	100.9044945	100.049561	99.20915567	98.38290987	97.5704673	96.77148357
ADV1015766	5/22/2025	4.232	5/22/2030	121.0794272	115.7991347	110.7864993	106.0265155	101.5050958	97.20901001	93.12582867	89.24387045	85.55215347
ADV1015717	5/21/2025	4.028	5/21/2027	107.9715605	106.025966	104.1254493	102.2686955	100.454437	98.6814512	96.94855854	95.25462082	93.59853944
ADV1016834	6/27/2025	4.509	7/3/2025	100.0343912	100.02607	100.0177565	100.0094507	100.0011526	99.99286224	99.98457953	99.97630447	99.96803707
ADV1016188	6/4/2025	4.06	6/4/2030	120.3528534	115.0535672	110.0249587	105.2517439	100.7195807	96.4150058	92.32537642	88.4388163	84.74416517
ADV1016636	6/23/2025	4.049	12/23/2026	106.0350966	104.5272741	103.0487659	101.5987904	100.1765934	98.78144669	97.41264695	96.06951484	94.75139391
ADV1015418	5/12/2025	4.456	9/12/2025	100.8406378	100.6329666	100.4261583	100.2202074	100.0151085	99.81085618	99.60744523	99.40487036	99.20312634
ADV1015654	5/19/2025	4.05	7/21/2028	112.9103317	109.7069283	106.6129343	103.6239797	100.7358959	97.94470589	95.24661322	92.63799325	90.11538406
ADV1016294	6/9/2025	4.495	7/9/2025	100.1048384	100.079804	100.0547971	100.0298174	100.0048651	99.97993997	99.95504206	99.9301713	99.90532763
ADV1016747	6/25/2025	4.515	7/25/2025	100.2835006	100.2139886	100.1445833	100.0752847	100.0060924	99.9370062	99.86802586	99.79915114	99.73038179
ADV1016300	6/9/2025	4.241	6/9/2026	103.840843	102.8774676	101.9320143	101.0039857	100.0929027	99.1983033	98.31974257	97.45679128	96.60903545
ADV1016273	6/6/2025	4.493	7/25/2025	100.2851446	100.2154696	100.1459017	100.0764406	100.0070861	99.93783793	99.86869589	99.79965971	99.73072916
ADV1015961	5/29/2025	4.492	7/31/2025	100.3538097	100.2672764	100.1808905	100.0946515	100.0085591	99.92261308	99.83681292	99.75115831	99.66564889
ADV1015559	5/15/2025	4.453	9/15/2025	100.8727153	100.6566668	100.4415514	100.2273632	100.0140959	99.80174367	99.59030049	99.37976049	99.1701178
ADV1015506	5/14/2025	4.482	7/14/2025	100.1649389	100.1258524	100.086814	100.0478237	100.0088814	99.96998696	99.93114034	99.89234142	99.85359011
ADV1016650	6/23/2025	4.5	7/23/2025	100.2602706	100.1963169	100.132458	100.0686937	100.0050237	99.94144774	99.87796574	99.81457744	99.75128263
ADV1016642	6/23/2025	4.731	6/23/2038	149.2833154	134.4640659	121.3747659	109.7996027	99.5509317	90.46546041	82.40096713	75.23347644	68.85482639
ADV1015763	5/22/2025	4.481	8/22/2025	100.6045252	100.4562062	100.3083353	100.1609103	100.0139293	99.86739025	99.72129108	99.57562979	99.4304044
ADV1016836	6/27/2025	4.51	7/31/2025	100.3505423	100.2643182	100.178241	100.0923102	100.0065255	99.92088655	99.83539299	99.75004447	99.66484061
ADV1015253	5/6/2025	3.88	5/1/2028	111.5032141	108.5479194	105.687229	102.917613	100.2356924	97.63823223	95.12213401	92.68442966	90.32227514
ADV1016828	6/27/2025	4.465	9/29/2025	101.0279509	100.7736568	100.5206386	100.2688867	100.0183917	99.7691443	99.52113513	99.27435502	99.0287949
ADV1016540	6/17/2025	4.243	6/17/2026	103.9394705	102.9533272	101.9859486	101.0368019	100.1053746	99.19117289	98.29372139	97.41256205	96.54725338
ADV1015286	5/7/2025	3.896	4/10/2028	111.3121358	108.419414	105.6177017	102.9035697	100.2737424	97.72508919	95.25461761	92.85946567	90.53689537
ADV1015725	5/21/2025	4.181	11/21/2029	118.8955012	114.1904311	109.7028739	105.421616	101.3360798	97.43628453	93.71280942	90.15675937	86.75973296
ADV1015805	5/23/2025	4.469	9/23/2025	100.9660875	100.7276575	100.4903556	100.2541736	100.0191037	99.78513792	99.55226849	99.32048768	99.08978783
ADV1016254	6/5/2025	4.022	6/7/2027	108.0267826	106.0360552	104.0924448	102.1945469	100.3410088	98.53052669	96.76184406	95.03374924	93.34507368
ADV1015744	5/21/2025	4.106	11/23/2026	105.8542251	104.4282725	103.0286474	101.6546824	100.3057318	98.98117159	97.6803977	96.4028258	95.14789022
ADV1016516	6/17/2025	4.384	6/20/2031	125.6989643	119.1616307	113.0176778	107.2412245	101.8082259	96.69633387	91.8847689	87.35420198	83.08664624
ADV1016000	5/29/2025	4.707	5/29/2035	140.5027301	129.3010612	119.1385485	109.9117768	101.5281744	93.9048235	86.96740732	80.64927602	74.89061886
ADV1015997	5/29/2025	4.411	5/14/2032	128.7469836	121.1724702	114.1120307	107.5278343	101.3850252	95.65147464	90.29755396	85.29592839	80.62136837
ADV1016846	6/27/2025	3.807	6/27/2028	111.9000212	108.7790313	105.7630269	102.8478872	100.0296774	97.30463937	94.66918269	92.11987589	89.65343858

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015672	5/20/2025	4.407	11/18/2025	101.5765983	101.1793854	100.7852645	100.3941997	100.0061553	99.62109639	99.23898855	98.85979785	98.48349088
ADV1016865	6/27/2025	4.508	7/7/2025	100.0795361	100.0601123	100.0407086	100.0213251	100.0019617	99.98261838	99.9632951	99.94399181	99.92470849
ADV1015977	5/29/2025	4.496	7/7/2025	100.0842315	100.0647375	100.0452637	100.0258102	100.0063768	99.98696356	99.96757044	99.9481974	99.92884439
ADV1015505	5/14/2025	4.428	10/14/2025	101.1952259	100.8971213	100.6007733	100.3061662	100.0132847	99.72211348	99.43263751	99.14484192	98.858712
ADV1016904	6/30/2025	4.521	7/31/2025	100.3509887	100.2647961	100.1787502	100.0928508	100.0070974	99.92148965	99.83602729	99.7507099	99.66553713
ADV1016002	5/29/2025	4.698	5/29/2035	140.4134571	129.2160777	119.0575634	109.834522	101.4544029	93.83430772	86.89993719	80.58465754	74.82867274
ADV1016309	6/9/2025	4.495	7/9/2025	100.1048384	100.079804	100.0547971	100.0298174	100.0048651	99.97993997	99.95504206	99.9301713	99.90532763
ADV1015417	5/12/2025	4.489	7/14/2025	100.1655608	100.1264641	100.0874156	100.0484152	100.0094628	99.97055828	99.93170158	99.8928926	99.85413125
ADV1016012	5/29/2025	4.475	8/29/2025	100.6819553	100.5140929	100.3467897	100.1800428	100.0138495	99.84820692	99.68311248	99.51856343	99.35455707
ADV1015783	5/22/2025	4.464	9/22/2025	100.9536741	100.7180439	100.4835168	100.250085	100.0177408	99.78647668	99.55628496	99.32715817	99.09908891
ADV1015594	5/16/2025	4.118	5/16/2029	116.5481233	112.4300358	108.4831786	104.6995269	101.0714741	97.59180752	94.25368629	91.05061998	87.97644894
ADV1016183	6/4/2025	3.966	10/4/2028	113.4864877	110.0623425	106.7612532	103.5780465	100.5078023	97.54583869	94.68769926	91.9291402	89.26611872
ADV1016789	6/26/2025	4.499	7/28/2025	100.3159914	100.2381257	100.1603861	100.0827723	100.005284	99.92792102	99.85068295	99.77356952	99.69658044
ADV1015503	5/14/2025	4.48	8/14/2025	100.5142382	100.3882718	100.2626356	100.1373284	100.0123488	99.88769535	99.76336686	99.63936198	99.51567939
ADV1016342	6/10/2025	4.469	9/10/2025	100.8158621	100.6145428	100.414037	100.2143397	100.015446	99.81735092	99.62004965	99.42353736	99.22780924
ADV1016799	6/26/2025	4.498	7/28/2025	100.3159135	100.2380478	100.1603083	100.0826946	100.0052064	99.92784346	99.85060546	99.7734921	99.69650309
ADV1016472	6/16/2025	4.505	7/16/2025	100.1828452	100.1383474	100.0939068	100.0495235	100.0051972	99.96092794	99.91671549	99.87255978	99.82846068
ADV1016777	6/25/2025	3.853	6/26/2028	112.029237	108.909129	105.8938673	102.9793402	100.1616221	97.43696313	94.80178048	92.25265003	89.78629816
ADV1016767	6/25/2025	4.467	9/25/2025	100.9831841	100.7400893	100.4981681	100.2574122	100.0178132	99.77936258	99.54205221	99.30587388	99.07081947
ADV1016045	5/30/2025	4.347	1/30/2026	102.3758717	101.7790368	101.1891647	100.606134	100.0298262	99.46012547	98.89691862	98.34009503	97.78954659
ADV1016464	6/16/2025	4.502	8/6/2025	100.420222	100.317129	100.2142572	100.1116058	100.0091743	99.9069618	99.8049676	99.70319096	99.60163117
ADV1015250	5/6/2025	4.4	10/6/2025	101.0982535	100.8225814	100.5484074	100.2757193	100.004505	99.7347525	99.46644992	99.19958557	98.93414784
ADV1015872	5/27/2025	4.016	5/30/2028	112.2162088	109.1702192	106.2241106	103.3740632	100.6164247	97.94770247	95.3645555	92.86378681	90.44233651
ADV1016392	6/12/2025	3.89	6/12/2028	112.208913	109.1209469	106.1355421	103.2487247	100.4566979	97.75583268	95.14266009	92.61386265	90.16626704
ADV1016607	6/20/2025	4.497	7/31/2025	100.3505863	100.2642882	100.1781371	100.0921325	100.0062742	99.92056169	99.83499474	99.74957294	99.66429594
ADV1016317	6/9/2025	4.246	6/9/2026	103.845617	102.8822169	101.9367394	101.0086868	100.0975801	99.20295737	98.32437357	97.46139949	96.61362116
ADV1016399	6/12/2025	4.168	7/13/2026	104.183554	103.1237227	102.0855149	101.0682727	100.0713647	99.09418451	98.13614992	97.19670129	96.27530067
ADV1016655	6/23/2025	3.885	6/25/2029	116.3510576	112.1146155	108.0592848	104.1763385	100.4575177	96.89500396	93.48139327	90.20967179	87.07319319
ADV1016645	6/23/2025	4.495	8/4/2025	100.3955332	100.2981118	100.2008862	100.1038556	100.0070196	99.91037738	99.81392851	99.71767234	99.62160827
ADV1015978	5/29/2025	4.494	7/11/2025	100.1291655	100.0985201	100.0679099	100.0373349	100.006795	99.97629011	99.94582018	99.91538515	99.88498495
ADV1016534	6/17/2025	4.498	8/18/2025	100.5571225	100.4204779	100.2842199	100.1483468	100.0128568	99.87774836	99.74301982	99.60866951	99.47469579
ADV1016251	6/5/2025	4.209	6/5/2026	103.7619815	102.8101439	101.8758086	100.9584954	100.0577419	99.1731018	98.30414512	97.4504569	96.61163676
ADV1015848	5/27/2025	4.477	8/27/2025	100.6599022	100.4976228	100.33587	100.1746413	100.013934	99.85374577	99.69407397	99.53491611	99.37626972

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015211	5/5/2025	4.238	2/10/2026	102.438959	101.8114836	101.1917102	100.5794975	99.97470755	99.37720561	98.78686033	98.20354345	97.62712977
ADV1015148	5/1/2025	4.498	8/1/2025	100.3703984	100.2807574	100.1912764	100.1019548	100.0127923	99.92378845	99.83494283	99.74625502	99.65772461
ADV1016701	6/24/2025	4.501	7/24/2025	100.2714304	100.2046979	100.138066	100.0715347	100.0051036	99.93877252	99.87254127	99.8064096	99.7403773
ADV1015984	5/29/2025	4.189	5/29/2026	103.7202094	102.7871206	101.8708518	100.9709508	100.0869814	99.21852294	98.36516935	97.52652865	96.70222234
ADV1016733	6/24/2025	3.903	1/24/2029	114.4789338	110.7235571	107.1140214	103.6438422	100.3068616	97.09722983	94.00938764	91.0380504	88.17819272
ADV1015603	5/16/2025	4.118	1/19/2027	106.4720095	104.8870578	103.3339113	101.8116838	100.319522	98.8566034	97.42213508	96.01535253	94.63551821
ADV1015745	5/21/2025	4.106	11/23/2026	105.8542251	104.4282725	103.0286474	101.6546824	100.3057318	98.98117159	97.6803977	96.4028258	95.14789022
ADV1016022	5/29/2025	4.03	8/30/2027	109.0404997	106.8060626	104.6290592	102.5076006	100.4398762	98.42414922	96.45875324	94.54208877	92.67261987
ADV1016811	6/26/2025	4.23	3/24/2026	102.9104534	102.1649939	101.4303558	100.7063043	99.99261145	99.2890558	98.59542216	97.91150142	97.2370903
ADV1015599	5/16/2025	4.011	5/17/2027	107.8917188	105.9578843	104.0686289	102.2226591	100.4187273	98.65563024	96.93220665	95.24733582	93.59993577
ADV1015658	5/19/2025	4.045	11/26/2027	110.1273811	107.6328437	105.2082488	102.8512411	100.5595589	98.33102944	96.16356546	94.05516086	92.00388715
ADV1015405	5/12/2025	4.383	11/10/2025	101.4774633	101.1027248	100.7307393	100.3614764	99.99490635	99.63099957	99.26972706	98.91106021	98.55497082
ADV1016366	6/11/2025	3.987	6/11/2027	108.1476801	106.1417778	104.1836527	102.2718713	100.4050534	98.58186916	96.80103712	95.061322	93.36153275
ADV1016755	6/25/2025	4.419	11/26/2025	101.6662093	101.2479805	100.8331805	100.4217673	100.0136996	99.60893652	99.20743822	98.80916529	98.41407899
ADV1016766	6/25/2025	4.516	7/25/2025	100.2835702	100.2140581	100.1446528	100.0753541	100.0061618	99.93707552	99.86809512	99.79922035	99.73045094
ADV1015269	5/6/2025	4.453	5/1/2035	128.7925982	120.7988039	113.4618011	106.7208362	100.5212227	94.81369821	89.55385371	84.70162518	80.22084178
ADV1016798	6/26/2025	4.498	7/28/2025	100.3159135	100.2380478	100.1603083	100.0826946	100.0052064	99.92784346	99.85060546	99.7734921	99.69650309
ADV1015927	5/28/2025	4.476	8/28/2025	100.6709314	100.5058605	100.3413324	100.1773443	100.0138937	99.85097795	99.68859438	99.5267404	99.36541344
ADV1016772	6/25/2025	3.854	5/25/2027	107.6837984	105.7300767	103.8218638	101.9578256	100.136676	98.3571747	96.6181256	94.91837457	93.25680788
ADV1015564	5/15/2025	4.453	9/15/2025	100.8727153	100.6566668	100.4415514	100.2273632	100.0140959	99.80174367	99.59030049	99.37976049	99.1701178
ADV1016941	6/30/2025	4.387	12/31/2025	102.0503654	101.5328049	101.0204636	100.5132629	100.011126	99.5139774	99.02174326	98.53435109	98.05172986
ADV1016455	6/16/2025	4.504	7/15/2025	100.1715214	100.1298089	100.088149	100.0465415	100.0049864	99.9634835	99.92203277	99.88063409	99.83928735
ADV1016863	6/27/2025	4.451	10/22/2025	101.2800818	100.961037	100.6440067	100.3289718	100.0159135	99.70481303	99.39565209	99.08841251	98.78307636
ADV1015131	5/1/2025	3.81	5/3/2027	107.2165493	105.3300639	103.4862648	101.6839372	99.92190855	98.19904683	96.51425893	94.86648903	93.25471708
ADV1015119	5/1/2025	4.022	5/1/2026	103.1849464	102.3330473	101.4952299	100.671147	99.86046275	99.06285204	98.2780003	97.50560295	96.74536505
ADV1016871	6/27/2025	3.766	12/27/2028	113.9555453	110.2808098	106.7466283	103.3468535	100.0756421	96.92743711	93.89695298	90.97916015	88.16927148
ADV1016714	6/24/2025	3.953	9/24/2026	104.9119124	103.642478	102.4038342	101.1948695	100.0145252	98.86179264	97.73570999	96.63535968	95.55986587
ADV1016266	6/6/2025	4.493	7/8/2025	100.0940532	100.0717943	100.0495592	100.0273478	100.00516	99.98299584	99.96085526	99.9387382	99.91664463
ADV1016842	6/27/2025	4.466	9/26/2025	100.9940211	100.7481723	100.5035223	100.2600623	100.0177838	99.77667805	99.53673662	99.29795106	99.06031302
ADV1016327	6/10/2025	4.173	12/10/2026	106.0627888	104.5900726	103.1453475	101.7278835	100.3369752	98.97194123	97.63212304	96.31688394	95.02560826
ADV1016708	6/24/2025	4.471	9/24/2025	100.9729004	100.732588	100.4934242	100.2554009	100.0185098	99.7827429	99.54809212	99.31454955	99.08210731
ADV1016249	6/5/2025	4.672	6/15/2035	140.2933912	129.0542957	118.8626002	109.6136006	101.2136206	93.57879671	86.63400285	80.31189747	74.55207924
ADV1016916	6/30/2025	4.527	7/14/2025	100.1587738	100.1199136	100.0811012	100.0423367	100.0036198	99.9649506	99.9263289	99.88775462	99.84922769

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016897	6/30/2025	4.52	7/15/2025	100.169821	100.128181	100.0865935	100.0450583	100.0035754	99.9621447	99.92076604	99.87943934	99.83816448
ADV1016906	6/30/2025	4.521	7/31/2025	100.3509887	100.2647961	100.1787502	100.0928508	100.0070974	99.92148965	99.83602729	99.7507099	99.66553713
ADV1016359	6/11/2025	4.472	9/11/2025	100.8277289	100.6236211	100.4203498	100.2179098	100.0162959	99.81550296	99.61552599	99.4163599	99.21799971
ADV1016808	6/26/2025	3.859	6/26/2029	115.952246	111.7292739	107.6868381	103.8162401	100.1092479	96.55806846	93.15532165	89.89401636	86.76752765
ADV1015991	5/29/2025	4.007	5/1/2028	111.7817514	108.8364639	105.987014	103.2297448	100.5611598	97.97791543	95.47681328	93.0547928	90.70892463
ADV1016832	6/27/2025	3.751	6/27/2028	111.9530201	108.8260337	105.8043399	102.8838017	100.0604695	97.33057109	94.6905025	92.13681969	89.66623036
ADV1016094	6/2/2025	4.49	8/12/2025	100.4896142	100.3695441	100.2497756	100.1303075	100.0111387	99.89226791	99.77369402	99.65541587	99.53743231
ADV1015206	5/5/2025	4.044	11/5/2026	105.444607	104.073773	102.7274297	101.4049759	100.1058296	98.82942726	97.57522325	96.34268881	95.13131161
ADV1016658	6/23/2025	4.493	8/25/2025	100.6352966	100.4791559	100.3235082	100.1683512	100.0136824	99.85949965	99.70580055	99.55258284	99.39984423
ADV1015624	5/19/2025	4.184	5/19/2026	103.5959869	102.6913023	101.8024586	100.9290417	100.070652	99.22690337	98.39742292	97.58185036	96.77983741
ADV1016697	6/24/2025	4.321	1/26/2026	102.3157979	101.7302169	101.151349	100.5790791	100.0132949	99.45388619	98.90074568	98.35376826	97.81285121
ADV1016176	6/4/2025	4.396	12/4/2025	101.7503033	101.3082726	100.8700585	100.4356115	100.0048833	99.57782632	99.15439371	98.73453949	98.31821845
ADV1016756	6/25/2025	4.373	12/24/2025	101.9645326	101.4666887	100.9736884	100.4854614	100.0019385	99.52305187	99.04873517	98.57892314	98.11355182
ADV1015613	5/16/2025	4.068	1/7/2028	110.6762892	108.0587111	105.5176109	103.0502985	100.6541959	98.32683187	96.06583666	93.86893724	91.73395263
ADV1015829	5/27/2025	4.492	7/25/2025	100.2867452	100.2169838	100.1473297	100.0777826	100.0083422	99.93900823	99.86978053	99.80065883	99.73164289
ADV1016793	6/26/2025	4.498	7/28/2025	100.3159135	100.2380478	100.1603083	100.0826946	100.0052064	99.92784346	99.85060546	99.7734921	99.69650309
ADV1015335	5/8/2025	4.101	11/9/2026	105.5726313	104.1896536	102.831563	101.4977439	100.1876009	98.9005576	97.63605569	96.39355458	95.17253051
ADV1016715	6/24/2025	4.5	7/31/2025	100.3501798	100.2639243	100.1778158	100.0918537	100.0060378	99.92036764	99.83484297	99.74946337	99.66422851
ADV1015600	5/16/2025	4.143	11/16/2026	105.7179602	104.3142684	102.9361541	101.5829769	100.2541174	98.94897627	97.66697351	96.40754753	95.17015453
ADV1016021	5/29/2025	4.036	7/29/2027	108.6736234	106.5314233	104.4427856	102.4060079	100.4194554	98.48155701	96.59080295	94.74574138	92.94497591
ADV1016429	6/13/2025	4.5	7/14/2025	100.1605983	100.121656	100.0827618	100.0439154	100.0051168	99.96636597	99.92766275	99.88900705	99.85039879
ADV1015240	5/6/2025	4.443	9/8/2025	100.7935358	100.5970153	100.401266	100.2062831	100.0120621	99.81859857	99.62588797	99.43392586	99.24270784
ADV1016940	6/30/2025	4.486	9/30/2025	101.044231	100.7872013	100.5314732	100.2770368	100.0238824	99.77200023	99.52138093	99.27201498	99.02389305
ADV1015846	5/27/2025	4.48	8/20/2025	100.58083	100.43822	100.2960274	100.1542503	100.0128868	99.87193506	99.73139327	99.5912596	99.45153223
ADV1016689	6/24/2025	3.969	6/25/2029	116.3877558	112.1589236	108.1106587	104.2342692	100.5215292	96.96465083	93.5562586	90.28936543	87.15734993
ADV1016831	6/27/2025	4.487	8/27/2025	100.6564883	100.4948247	100.3336858	100.1730689	100.0129715	99.85339112	99.69432524	99.53577136	99.37772701
ADV1016362	6/11/2025	4.497	7/11/2025	100.1270583	100.0964622	100.0659014	100.0353757	100.004885	99.97442923	99.94400841	99.91362243	99.88327123
ADV1016868	6/27/2025	3.855	6/28/2027	107.9391561	105.8900377	103.8908134	101.9399527	100.0359832	98.17748743	96.36310068	94.59150862	92.861445
ADV1016894	6/30/2025	3.852	2/14/2029	114.5296192	110.7106979	107.0420516	103.5169062	100.1288342	96.87173473	93.73981496	90.72757247	87.82977886
ADV1015931	5/28/2025	4.406	11/28/2025	101.6874682	101.2621548	100.8403708	100.4220726	100.0072171	99.59576202	99.18766569	98.78288719	98.38138621
ADV1016571	6/18/2025	4.5	7/2/2025	100.0245866	100.0190335	100.0134853	100.0079422	100.002404	99.99687078	99.99134255	99.98581929	99.98030097
ADV1016647	6/23/2025	4.501	7/23/2025	100.2603347	100.196381	100.1325221	100.0687577	100.0050876	99.94151161	99.87802955	99.8146412	99.75134634
ADV1016524	6/27/2025	4.055	6/27/2029	116.7573765	112.5153771	108.4546641	104.5665012	100.8426211	97.27519711	93.85681783	90.5804624	87.43947794

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016903	6/30/2025	4.538	7/3/2025	100.0341195	100.0258014	100.017491	100.0091883	100.0008934	99.99260606	99.98432643	99.97605446	99.96779014
ADV1015500	5/14/2025	4.306	2/17/2026	102.5606723	101.9133885	101.2742922	100.6432288	100.020047	99.40459971	98.79674327	98.19633764	97.60324618
ADV1016696	6/24/2025	4.476	9/24/2025	100.9740948	100.7337793	100.4946126	100.2565862	100.0196921	99.78392224	99.54926849	99.31572297	99.08327779
ADV1015207	5/5/2025	3.969	5/5/2027	107.5356722	105.6406397	103.7885882	101.9782912	100.2085649	98.47826689	96.78629379	95.13158012	93.51309658
ADV1016564	6/18/2025	4.48	10/8/2025	101.1363379	100.8563805	100.5779775	100.3011161	100.0257833	99.75196633	99.47965276	99.20883009	98.93948605
ADV1015587	5/16/2025	4.038	5/16/2028	112.1255642	109.1196803	106.2112049	103.3964566	100.6719138	98.0342068	95.48011024	93.00653625	90.61052776
ADV1016749	6/25/2025	4.515	7/25/2025	100.2835006	100.2139886	100.1445833	100.0752847	100.0060924	99.9370062	99.86802586	99.79915114	99.73038179
ADV1016040	5/30/2025	4.483	8/7/2025	100.4324329	100.3263261	100.220454	100.1148158	100.0094106	99.90423754	99.79929595	99.69458499	99.59010386
ADV1016269	6/6/2025	4.082	6/6/2029	116.9374271	112.7442502	108.7279379	104.8800806	101.1927137	97.65829138	94.26966262	91.02004808	87.90301899
ADV1016186	6/4/2025	3.95	6/5/2028	112.0910605	109.0299312	106.0697372	103.2065965	100.4367986	97.75679611	95.16319646	92.65275425	90.22236404
ADV1015557	5/15/2025	4.479	7/15/2025	100.1758472	100.13397	100.0921456	100.0503739	100.0086548	99.9669881	99.92537377	99.8838117	99.84230176
ADV1016770	6/25/2025	4.459	10/15/2025	101.2034513	100.9040844	100.606497	100.3106733	100.0165975	99.72425407	99.43362764	99.14470303	98.85746521
ADV1016786	6/26/2025	3.848	6/18/2027	107.8093592	105.7898072	103.8187839	101.8948207	100.0165036	98.18247085	96.39141075	94.6420592	92.93319778
ADV1015699	5/20/2025	4.337	12/30/2025	102.0194565	101.5023929	100.9905176	100.483753	99.9820229	99.48525273	98.99336932	98.50630093	98.02397722
ADV1016191	6/4/2025	4.582	6/5/2034	136.4313158	126.4240564	117.2671204	108.8828372	101.2010373	94.15829083	87.69722844	81.76593271	76.31739399
ADV1016302	6/9/2025	4.496	7/9/2025	100.1048642	100.0798298	100.0548228	100.0298432	100.0048908	99.97996566	99.95506773	99.93019694	99.90535325
ADV1016764	6/25/2025	4.516	7/16/2025	100.1818154	100.1373672	100.0929763	100.0486425	100.0043657	99.96014576	99.91598264	99.87187618	99.82782628
ADV1016072	5/30/2025	4.059	9/30/2026	105.1180615	103.8304681	102.5744931	101.3489813	100.1528332	98.98500154	97.84448856	96.73034275	95.64165641
ADV1015533	5/15/2025	4.477	8/15/2025	100.5255719	100.3968068	100.2683861	100.1403086	100.0125727	99.88517704	99.75812024	99.63140087	99.50501756
ADV1015181	5/2/2025	4.006	11/2/2026	105.3565243	103.9947395	102.6571508	101.3431677	100.0522181	98.78374838	97.53722186	96.31211871	95.10793506
ADV1015241	5/6/2025	4.479	8/6/2025	100.4246076	100.3209953	100.2176054	100.1144371	100.0114897	99.90876243	99.80625454	99.70396532	99.60189404
ADV1015723	5/21/2025	4.077	5/22/2028	112.3068789	109.2817073	106.3550521	103.5231712	100.7824858	98.12957215	95.56115418	93.07409604	90.66539544
ADV1015647	5/19/2025	4.455	9/9/2025	100.8051893	100.6061539	100.4079112	100.2104565	100.0137849	99.81789173	99.62277234	99.42842208	99.23483635
ADV1016900	6/30/2025	4.521	7/7/2025	100.0792775	100.0598609	100.0404645	100.0210882	100.001732	99.98239589	99.9630798	99.94378371	99.92450758
ADV1016403	6/12/2025	4.499	7/14/2025	100.1607278	100.1217807	100.0828816	100.0440305	100.0052271	99.96647148	99.92776347	99.889103	99.85048996
ADV1016891	6/30/2025	3.811	2/16/2028	110.4693394	107.7408332	105.0945564	102.5275106	100.0368284	97.61976642	95.27369893	92.99611208	90.78459811
ADV1016640	6/23/2025	4.655	6/23/2037	146.0109768	132.3779066	120.2338733	109.4050172	99.73875288	91.10106113	83.37413892	76.45435714	70.25048506
ADV1016728	6/24/2025	4.472	9/24/2025	100.9731393	100.7328263	100.4936619	100.255638	100.0187463	99.78297877	99.5483274	99.31478423	99.08234141
ADV1016312	6/9/2025	4.4	11/10/2025	101.4795771	101.1060617	100.7352904	100.3672328	100.0018592	99.63914016	99.27904683	98.92155065	98.56662352
ADV1016931	6/30/2025	4.527	7/14/2025	100.1587738	100.1199136	100.0811012	100.0423367	100.0036198	99.9649506	99.9263289	99.88775462	99.84922769
ADV1016599	6/20/2025	4.507	7/3/2025	100.0355715	100.027243	100.0189223	100.0106092	100.0023039	99.99400625	99.98571629	99.97743399	99.96915935
ADV1015135	5/1/2025	4.3	11/5/2025	101.3936086	101.0327732	100.674485	100.318717	99.96544263	99.61463582	99.26627069	98.92032178	98.57676401
ADV1015208	5/5/2025	4.2	3/10/2026	102.731153	102.0251541	101.32888	100.6421305	99.96471071	99.29643114	98.63710735	97.98655985	97.34461394

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016537	6/17/2025	4.497	8/19/2025	100.5684028	100.4289581	100.2899149	100.1512712	100.0130253	99.8751754	99.73771986	99.6006569	99.4639848
ADV1016712	6/24/2025	3.988	12/24/2026	105.9552239	104.4453126	102.9648077	101.5129239	100.0889033	98.69201429	97.32155045	95.97682934	94.65719151
ADV1016365	6/11/2025	4.006	6/11/2029	116.6881342	112.485415	108.4606165	104.6052482	100.911271	97.3710699	93.97742956	90.72351126	87.60283114
ADV1016098	6/2/2025	4.234	6/2/2026	103.7497036	102.806277	101.8800428	100.9705338	100.0772994	99.1999054	98.33793259	97.49097659	96.65864706
ADV1016442	6/13/2025	4.477	9/12/2025	100.839864	100.6329923	100.42698	100.2218218	100.0175124	99.81404629	99.61141831	99.40962319	99.20865573
ADV1015489	5/14/2025	4.396	11/10/2025	101.481982	101.1073089	100.7353883	100.36619	99.9996839	99.63584068	99.27463126	98.91602704	98.55999983
ADV1015730	5/21/2025	4.257	5/21/2026	103.6226275	102.7131262	101.819632	100.9417243	100.0789972	99.23105886	98.39753068	97.57804702	96.7722545
ADV1015574	5/16/2025	4.475	8/18/2025	100.5592056	100.422027	100.2852365	100.1488323	100.0128129	99.87717648	99.74192143	99.60704609	99.47254882
ADV1016189	6/4/2025	4.281	6/4/2031	124.9361302	118.4676095	112.3859586	106.6658929	101.2839092	96.21815157	91.44828728	86.95539347	82.72185236
ADV1016060	5/30/2025	4.486	7/30/2025	100.3419043	100.2581818	100.1745995	100.0911571	100.0078543	99.92469078	99.84166611	99.75878	99.6760321
ADV1016546	6/17/2025	4.498	7/14/2025	100.1598432	100.1209204	100.0820456	100.0432186	100.0044394	99.96570795	99.92702406	99.88838768	99.84979871
ADV1016291	6/9/2025	4.471	9/8/2025	100.7935782	100.5978561	100.402902	100.2087113	100.0152794	99.82260182	99.63067415	99.43949193	99.24905077
ADV1015558	5/15/2025	4.478	8/15/2025	100.5257013	100.3969359	100.2685149	100.140437	100.0127008	99.88530482	99.75824769	99.631528	99.50514437
ADV1016775	6/25/2025	3.956	12/28/2026	105.9539253	104.4331799	102.9422536	101.4803448	100.0466801	98.64051342	97.26112408	95.90781626	94.57991772
ADV1015463	5/15/2025	4.098	5/15/2028	112.2895279	109.2840172	106.3758006	103.5612046	100.8367148	98.19896821	95.6447461	93.17096654	90.77467808
ADV1016746	6/25/2025	4.475	9/25/2025	100.985117	100.7420172	100.5000912	100.2593305	100.0197265	99.78127114	99.54395597	99.30777286	99.07271371
ADV1016301	6/9/2025	4.175	12/9/2026	106.0535283	104.5836024	103.1415653	101.7266909	100.3382775	98.97564735	97.63814532	96.32513799	95.03601279
ADV1015182	5/2/2025	4.348	11/3/2025	101.3884516	101.0332607	100.6805351	100.3302492	99.98237773	99.63689587	99.29377901	98.95300294	98.61454377
ADV1016081	5/30/2025	4.402	11/28/2025	101.6854935	101.2602903	100.8386156	100.4204258	100.0056778	99.59432936	99.1863388	98.7816652	98.38026828
ADV1015966	5/29/2025	4.253	5/29/2026	103.7143893	102.7822407	101.8668814	100.9678604	100.0847426	99.21710842	98.36455281	97.52668478	96.70312675
ADV1016071	5/30/2025	4.014	5/28/2027	107.8879631	105.9265899	104.0110254	102.1399229	100.3119843	98.52595792	96.78063659	95.07485582	93.4074919
ADV1015955	5/29/2025	4.485	8/14/2025	100.5124108	100.3866756	100.26127	100.1361927	100.0114424	99.88701772	99.76291737	99.63914003	99.51568439
ADV1016345	6/10/2025	4.403	11/10/2025	101.4805364	101.1070611	100.7363296	100.3683115	100.0029772	99.64029716	99.28024253	98.92278476	98.56789577
ADV1016519	6/27/2025	3.998	6/27/2028	112.480113	109.3503035	106.3257025	103.4021815	100.5757987	97.84278916	95.19955581	92.64266088	90.16881794
ADV1016397	6/12/2025	4.473	9/12/2025	100.8392	100.6323049	100.4262694	100.2210881	100.0167556	99.81326651	99.61061566	99.40879776	99.20780762
ADV1016934	6/30/2025	4.083	6/30/2026	103.9346812	102.912444	101.9103486	100.9278034	99.96424002	99.01911183	98.09189303	97.18207767	96.28917869
ADV1015252	6/2/2025	4.019	5/31/2030	120.1096207	114.8278834	109.8154317	105.0570912	100.5386202	96.24664796	92.16861704	88.2927295	84.6078973
ADV1016911	6/30/2025	4.523	7/7/2025	100.0793163	100.0598998	100.0405033	100.021127	100.0017709	99.98243473	99.96311864	99.94382254	99.9245464
ADV1015242	5/6/2025	4.484	7/15/2025	100.177579	100.1356549	100.0937836	100.0519651	100.0101992	99.96848581	99.92682483	99.88521617	99.8436597
ADV1015326	5/8/2025	4.482	7/31/2025	100.3564188	100.2696625	100.183054	100.0965928	100.0102786	99.92411108	99.83808984	99.75221452	99.66648477
ADV1016884	6/30/2025	3.862	12/31/2026	105.953608	104.4229293	102.9224433	101.4513339	100.008814	98.59412395	97.20653063	95.84532614	94.50982673
ADV1015775	5/22/2025	4.253	5/22/2026	103.6309417	102.7186247	101.8224118	100.9418787	100.0766159	99.22622815	98.39033355	97.56856333	96.76056113
ADV1016839	6/27/2025	4.103	6/29/2026	103.9433762	102.9238692	101.9243978	100.9443752	99.98323704	99.04044104	98.11546525	97.20780745	96.31698412

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016427	6/13/2025	4.486	8/22/2025	100.6016802	100.4537613	100.3062892	100.159262	100.0126775	99.8665338	99.72082877	99.57556045	99.43072683
ADV1016390	6/12/2025	4.29	3/12/2026	102.8166659	102.1047766	101.4027697	100.71044	100.027588	99.3540196	98.68954612	98.03398386	97.38715405
ADV1016001	5/29/2025	4.187	5/29/2026	103.7183617	102.7852821	101.8690224	100.9691304	100.08517	99.21672031	98.36337541	97.52474329	96.70044546
ADV1016857	6/27/2025	3.846	12/27/2028	113.9767155	110.3082813	106.78	103.3857482	100.1197045	96.976333	93.95036754	91.03679693	88.23085121
ADV1016561	6/18/2025	4.497	7/18/2025	100.2046548	100.1545977	100.1046078	100.054685	100.0048292	99.9550402	99.90531788	99.85566211	99.80607274
ADV1015189	5/2/2025	4.512	7/30/2025	100.3487777	100.2647599	100.1808829	100.0971462	100.0135497	99.93009283	99.84677536	99.76359694	99.68055723
ADV1016847	6/27/2025	3.868	6/27/2029	115.9991972	111.7724091	107.7264298	103.8525422	100.1424968	96.5884842	93.1831094	89.91936719	86.79061962
ADV1015747	5/21/2025	4.106	11/23/2026	105.8542251	104.4282725	103.0286474	101.6546824	100.3057318	98.98117159	97.6803977	96.4028258	95.14789022
ADV1015575	5/16/2025	4.388	11/17/2025	101.5585396	101.1640235	100.7725573	100.3841059	99.99863443	99.61610852	99.23649445	98.85975897	98.48586935
ADV1016373	6/11/2025	4.496	7/11/2025	100.127027	100.096431	100.0658702	100.0353445	100.0048538	99.97439808	99.94397729	99.91359134	99.88324016
ADV1015508	5/14/2025	4.179	5/14/2026	103.5322524	102.6417636	101.7666323	100.9064629	100.0608735	99.2294951	98.41197091	97.60795615	96.81711738
ADV1016848	6/27/2025	4.465	9/29/2025	101.0279509	100.7736568	100.5206386	100.2688867	100.0183917	99.7691443	99.52113513	99.27435502	99.0287949
ADV1015771	5/22/2025	4.478	8/22/2025	100.6040796	100.4557617	100.3078919	100.160468	100.0134882	99.86695019	99.72085213	99.57519194	99.42996765
ADV1016601	6/20/2025	4.497	7/31/2025	100.3505863	100.2642882	100.1781371	100.0921325	100.0062742	99.92056169	99.83499474	99.74957294	99.66429594
ADV1015261	5/6/2025	4.011	4/30/2030	119.7738869	114.5871887	109.6608779	104.9805075	100.5325047	96.30411341	92.28334146	88.45891081	84.82021165
ADV1015949	5/28/2025	4.489	7/28/2025	100.3200414	100.2418959	100.1638769	100.0859843	100.0082176	99.93057667	99.8530611	99.77567061	99.69840492
ADV1016304	6/9/2025	4.496	7/23/2025	100.2623597	100.1982948	100.1343249	100.0704497	100.006669	99.94298252	99.87939015	99.81589165	99.75248679
ADV1016424	6/13/2025	4.212	6/15/2026	103.8853431	102.9050515	101.9433108	100.9995974	100.0734068	99.16425363	98.2716701	97.39520548	96.53442525
ADV1016638	6/23/2025	4.525	6/25/2035	139.712431	128.431974	118.2080969	108.9347273	100.5170091	92.87006161	85.91788233	79.59237504	73.83248906
ADV1016826	6/27/2025	4.511	7/28/2025	100.3167589	100.238902	100.1611713	100.0835664	100.006087	99.92873279	99.85150354	99.77439892	99.69741863
ADV1016471	6/16/2025	4.148	6/16/2026	103.9034117	102.9192617	101.9538027	101.006505	100.0768589	99.16437362	98.26857644	97.38901182	96.52524075
ADV1015468	5/13/2025	4.234	5/13/2026	103.5067756	102.6200459	101.748549	100.8918941	100.0497038	99.22161326	98.40727004	97.60633322	96.81847314
ADV1016778	6/25/2025	4.525	7/2/2025	100.0235338	100.0179854	100.0124421	100.0069038	100.0013704	99.99584202	99.99031859	99.98480012	99.9792866
ADV1015963	5/29/2025	4.481	8/22/2025	100.6033849	100.4551937	100.3074501	100.1601522	100.0132978	99.86688494	99.72091163	99.57537582	99.43027553
ADV1016074	5/30/2025	4.01	12/30/2026	106.1670158	104.6373696	103.1378428	101.6676226	100.2259248	98.81199274	97.42509606	96.06452948	94.72961178
ADV1015336	5/8/2025	4.448	9/18/2025	100.906771	100.6820639	100.458363	100.2356617	100.013953	99.7932304	99.57348717	99.35471676	99.13691266
ADV1015117	5/1/2025	4.477	8/1/2025	100.3684859	100.2788497	100.1893734	100.1000565	100.0108988	99.92189964	99.83305874	99.74437563	99.65584992
ADV1016325	6/10/2025	4.496	7/10/2025	100.1159456	100.0881303	100.0603463	100.0325934	100.0048715	99.97718073	99.94952092	99.92189202	99.89429398
ADV1015403	5/12/2025	4.486	8/12/2025	100.4925837	100.3722031	100.2521249	100.1323479	100.0128709	99.89369269	99.77481216	99.65622814	99.53793947
ADV1015873	5/27/2025	4.086	5/29/2029	116.5617415	112.4070022	108.4264548	104.6118679	100.955443	97.44978872	94.08789809	90.86312599	87.76916876
ADV1016217	6/5/2025	4.471	9/5/2025	100.7599516	100.5725679	100.3858851	100.1998993	100.0146067	99.83000312	99.64608488	99.46284809	99.28028893
ADV1016654	6/23/2025	4.413	11/19/2025	101.58515	101.1867073	100.7913875	100.3991537	100.0099699	99.62380055	99.24061057	98.86036553	98.48303151
ADV1015740	5/21/2025	4.181	5/22/2026	103.6295363	102.716344	101.8192847	100.9379329	100.0718781	99.22072394	98.38408775	97.56159977	96.75290275

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016716	6/24/2025	3.913	12/21/2026	105.9139647	104.4107852	102.936758	101.4911076	100.0730859	98.68197017	97.31706277	95.97768954	94.66319903
ADV1015721	5/22/2025	4.171	11/23/2026	105.8453648	104.4210931	103.0230943	101.6507027	100.3032748	98.98018794	97.68084004	96.40464824	95.15104839
ADV1016052	5/30/2025	4.064	4/30/2027	107.6501376	105.7676611	103.927598	102.1287458	100.3699442	98.6500726	96.96804868	95.32282701	93.71339737
ADV1016092	6/2/2025	4.495	7/2/2025	100.0272883	100.0217241	100.0161649	100.0106107	100.0050615	99.99951727	99.99397802	99.98844375	99.98291444
ADV1016384	6/12/2025	4.498	7/14/2025	100.1606883	100.1217412	100.0828422	100.043991	100.0051877	99.96643209	99.92772412	99.88906368	99.85045068
ADV1015809	5/23/2025	4.473	8/25/2025	100.6372111	100.4804791	100.324242	100.1684974	100.0132429	99.85847622	99.70419507	99.55039712	99.3970801
ADV1015691	5/20/2025	4.451	9/18/2025	100.9055426	100.681161	100.4577843	100.2354056	100.0140181	99.79361529	99.57419042	99.35573696	99.13824841
ADV1016582	6/18/2025	4.335	2/18/2026	102.5902519	101.9400799	101.2981664	100.6643544	100.0384909	99.42042683	98.81001686	98.20711917	97.61159545
ADV1016908	6/30/2025	4.526	7/25/2025	100.2834246	100.2139554	100.144593	100.0753371	100.0061875	99.93714397	99.8682062	99.79937398	99.73064707
ADV1016050	5/30/2025	4.429	10/30/2025	101.3675163	101.0247247	100.6842337	100.3460203	100.0100617	99.67633542	99.34481941	99.01549175	98.68833089
ADV1015985	5/29/2025	4.428	10/29/2025	101.3560677	101.0160741	100.6783459	100.3428605	100.0095957	99.67852955	99.34964032	99.02290665	98.69830741
ADV1016914	6/30/2025	4.525	7/31/2025	100.351333	100.2651401	100.1790939	100.0931942	100.0074405	99.92183249	99.83636983	99.75105215	99.66587909
ADV1016593	6/20/2025	4.149	6/22/2026	103.9767582	102.9755198	101.9936106	101.030474	100.0855748	99.15839761	98.24844673	97.35524459	96.47833119
ADV1016734	6/24/2025	3.927	6/25/2029	116.2176973	111.9922724	107.947308	104.0741165	100.3644758	96.81060203	93.40512335	90.14105617	87.01178244
ADV1016196	6/4/2025	4.498	7/7/2025	100.0832523	100.0637728	100.0443135	100.0248745	100.0054555	99.98605675	99.96667806	99.94731942	99.92798081
ADV1016810	6/26/2025	4.075	6/26/2026	103.8797504	102.8689313	101.8778232	100.905853	99.95246979	99.01714345	98.09936398	97.19864042	96.31449999
ADV1016181	6/4/2025	4.203	6/4/2026	103.7441784	102.7952146	101.8636487	100.9490048	100.0508244	99.16866533	98.30210121	97.45072064	96.61412663
ADV1016487	6/16/2025	4.501	8/18/2025	100.5576962	100.421034	100.2847583	100.1488676	100.0133602	99.87823427	99.74348832	99.60912065	99.47512963
ADV1015928	5/28/2025	4.403	11/28/2025	101.6862086	101.2609016	100.8391239	100.420832	100.0059827	99.59453377	99.18644357	98.78167113	98.38017618
ADV1016795	6/26/2025	3.856	12/28/2026	105.9097646	104.3875851	102.8952811	101.432049	99.99711336	98.5897259	97.20916424	95.85473074	94.52575148
ADV1016077	5/30/2025	4.309	2/27/2026	102.674866	101.9995244	101.3330746	100.6753419	100.0261558	99.38535046	98.75276437	98.12824	97.51162389
ADV1016765	6/25/2025	4.521	7/9/2025	100.1027787	100.0777939	100.0528365	100.0279063	100.0030034	99.9781276	99.953279	99.92845748	99.90366301
ADV1016763	6/25/2025	4.513	8/1/2025	100.36259	100.2735567	100.1846822	100.0959661	100.007408	99.91900748	99.83076411	99.74267748	99.65474718
ADV1016773	6/25/2025	4.124	6/25/2026	103.9173617	102.9091023	101.9204509	100.9508389	99.99971949	99.0665667	98.15087433	97.25215503	96.36993948
ADV1015918	5/28/2025	4.33	3/25/2026	102.9963378	102.247754	101.5100742	100.7830611	100.0664842	99.36011968	98.66375008	97.97716402	97.30015609
ADV1015929	5/28/2025	4.346	2/27/2026	102.7000309	102.0245776	101.3580173	100.7001752	100.050881	99.40996865	98.77727667	98.15264752	97.53592772
ADV1016053	5/30/2025	4.004	5/30/2028	112.1803874	109.1349284	106.1893378	103.3397963	100.5826519	97.91441239	95.33173713	92.83142946	90.41042983
ADV1015965	5/29/2025	4.13	5/29/2030	120.6402897	115.3510417	110.3310095	105.5650428	101.0389218	96.73929485	92.65362165	88.77011944	85.07771356
ADV1016577	6/18/2025	4.499	8/4/2025	100.3967524	100.29927	100.2019835	100.1048921	100.0079954	99.91129276	99.81478349	99.71846704	99.62234281
ADV1016853	6/27/2025	3.86	6/28/2027	107.9492587	105.900036	103.9007094	101.9497485	100.0456807	98.18708849	96.37260715	94.60092227	92.87076756
ADV1016829	6/27/2025	4.511	7/28/2025	100.3167589	100.238902	100.1611713	100.0835664	100.006087	99.92873279	99.85150354	99.77439892	99.69741863
ADV1016643	6/23/2025	4.497	7/23/2025	100.2600782	100.1961247	100.132266	100.0685018	100.0048319	99.94125614	99.8777743	99.81438615	99.7510915
ADV1016942	6/30/2025	4.078	6/30/2026	103.9296201	102.9074105	101.9053422	100.9228238	99.95928681	99.01418468	98.08699159	97.1772016	96.28432766

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016383	6/12/2025	4.328	1/15/2026	102.1958424	101.6410586	101.0923152	100.549514	100.0125583	99.48135405	98.95580878	98.43583222	97.92133596
ADV1016265	6/6/2025	4.178	6/6/2030	120.9639103	115.6438023	110.5955189	105.8037004	101.2539346	96.9326934	92.82727374	88.92574339	85.21689012
ADV1016005	5/29/2025	4.489	7/29/2025	100.3310995	100.2501652	100.1693642	100.0886963	100.0081611	99.92775821	99.84748743	99.76734839	99.68734078
ADV1016919	6/30/2025	4.524	7/31/2025	100.3512469	100.2650541	100.179008	100.0931083	100.0073547	99.92174678	99.8362842	99.75096659	99.6657936
ADV1015804	5/23/2025	4.242	5/26/2026	103.6690404	102.745444	101.8383414	100.9472932	100.0718753	99.21167859	98.36630809	97.53538239	96.71853307
ADV1016851	6/27/2025	3.909	6/27/2030	119.8092147	114.4570149	109.3817557	104.5675989	99.99969473	95.66411556	91.54779355	87.63846316	83.92460779
ADV1016905	6/30/2025	4.521	7/31/2025	100.3509887	100.2647961	100.1787502	100.0928508	100.0070974	99.92148965	99.83602729	99.7507099	99.66553713
ADV1016521	6/27/2025	4.055	6/27/2029	116.7573765	112.5153771	108.4546641	104.5665012	100.8426211	97.27519711	93.85681783	90.5804624	87.43947794
ADV1016091	6/2/2025	4.495	7/2/2025	100.0272883	100.0217241	100.0161649	100.0106107	100.0050615	99.99951727	99.99397802	99.98844375	99.98291444
ADV1015803	5/23/2025	4.487	7/17/2025	100.1972964	100.1498726	100.1025112	100.0552121	100.0079751	99.96080012	99.91368701	99.86663566	99.81964594
ADV1016184	6/4/2025	4.001	6/4/2027	107.9495933	105.9681204	104.0333552	102.1439114	100.2984533	98.49569357	96.73439117	95.01334922	93.33141325
ADV1016723	6/25/2025	3.875	9/27/2027	109.0274339	106.7137203	104.461141	102.267621	100.1311748	98.04990112	96.02197853	94.04566147	92.11927623
ADV1016017	5/29/2025	4.251	5/29/2026	103.7125422	102.7804028	101.8650527	100.9660407	100.0829318	99.21530638	98.36275945	97.52489999	96.70135043
ADV1015681	5/20/2025	4.07	5/21/2027	107.9139251	105.9714275	104.0738951	102.2200174	100.4085312	98.63821767	96.90790133	95.2164476	93.56276135
ADV1016731	6/24/2025	4.507	7/1/2025	100.0123154	100.0095412	100.0067694	100.004	100.001233	99.99846846	99.9957063	99.99294655	99.99018919
ADV1015734	5/21/2025	4.483	7/21/2025	100.242276	100.1836567	100.125121	100.0666687	100.0082997	99.95001378	99.89181071	99.83369034	99.7756525
ADV1016179	6/4/2025	4.498	7/8/2025	100.0945086	100.0722441	100.0500034	100.0277864	100.005593	99.98342319	99.961277	99.93915434	99.91705518
ADV1016313	6/9/2025	4.387	12/9/2025	101.8025573	101.3465619	100.8946343	100.44672	100.0027658	99.56271917	99.12652865	98.69414364	98.26551442
ADV1015385	5/9/2025	3.931	5/10/2027	107.6578476	105.7454887	103.8768254	102.0506013	100.2656042	98.52066451	96.81465318	95.1464801	93.51509249
ADV1016289	6/9/2025	4.496	7/7/2025	100.0823615	100.0628941	100.043447	100.02402	100.0046132	99.9852265	99.96585989	99.94651333	99.92718678
ADV1016193	6/4/2025	4.77	6/4/2037	146.2784783	132.738558	120.6681794	109.8967192	100.2743213	91.66926732	83.96569242	77.06159925	70.8671295
ADV1015393	5/12/2025	4.106	5/12/2027	107.8753735	105.9578998	104.0843022	102.2533169	100.463725	98.71434999	97.00405646	95.33174819	93.6963666
ADV1015317	5/8/2025	4.08	5/8/2026	103.3749905	102.5019317	101.6436501	100.7997724	99.96993759	99.15379678	98.35101253	97.56125844	96.78421865
ADV1015850	5/27/2025	4.476	8/29/2025	100.6824466	100.5145425	100.3471978	100.1804094	100.0141748	99.84849114	99.68335569	99.51876577	99.35471867
ADV1016608	6/20/2025	4.497	7/31/2025	100.3505863	100.2642882	100.1781371	100.0921325	100.0062742	99.92056169	99.83499474	99.74957294	99.66429594
ADV1016762	6/25/2025	4.47	9/25/2025	100.983909	100.7408122	100.4988893	100.2581316	100.0185307	99.78007829	99.54276612	99.306586	99.07152981
130416A00025	4/16/2013	2.27	4/18/2028	100.1617879	100.075711	99.81782439	98.9686445	97.73020247	96.39038261	95.06588592	93.77191167	92.50785201
151223A00007	12/23/2015	3.76	12/23/2030	100.2561405	100.1980999	100.1063081	99.59982006	97.66838604	94.44350713	90.60418861	86.75676554	83.09674937
161012A00020	10/11/2016	2.96	10/14/2031	100.2211846	100.1350567	99.68746946	97.69547579	94.16206464	89.90340601	85.59033094	81.49102185	77.63401053
170515A00052	5/15/2017	3.78	5/15/2042	100.0021811	99.99948196	99.72269643	97.37006022	92.81313161	87.18264346	81.47379926	76.1611568	71.34207876
170519A00006	5/19/2017	3	5/19/2032	100.2246279	100.138497	99.97043305	98.93279397	96.70570049	93.86894285	90.9403651	88.12206352	85.43460314
170705A00037	7/5/2017	2.85	7/6/2032	105.0960472	103.2070548	101.1690566	98.79898353	96.02191733	92.99817079	89.98166542	87.09678447	84.35277707
170802A00074	8/2/2017	2.92	8/2/2027	99.99384131	99.99117591	99.96710485	99.43309889	98.17930943	96.56988506	94.90214812	93.26929477	91.67549243

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	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
170809A00042	8/9/2017	2.35	8/9/2027	100.1686745	100.0825917	99.89022454	99.22150025	98.25133955	97.20500322	96.16884579	95.15285624	94.15663721
171004A00022	10/4/2017	2.74	10/4/2027	100.2022466	100.1161349	99.99253413	99.29190424	97.8897799	96.13960164	94.34391521	92.58948731	90.87972023
171005A00047	10/5/2017	3.29	10/5/2032	100.2495917	100.1634394	99.94581657	98.54315915	95.52125338	91.61079712	87.51966061	83.60489947	79.92661313
180105A00005	1/5/2018	3.07	1/5/2028	100.2306537	100.1445176	100.0531369	99.72203809	98.85417682	97.69499943	96.47174843	95.26890891	94.09215162
180105A00006	1/5/2018	3.07	1/5/2028	100.2306537	100.1445176	100.0531369	99.7220381	98.85417682	97.69499943	96.47174843	95.26890891	94.09215162
180130A00087	1/30/2018	2.92	1/31/2028	100.2177413	100.1316164	100.0324963	99.61947286	98.68386088	97.49922325	96.27395134	95.07172868	93.89564552
180302A00003	3/2/2018	3.89	3/2/2033	100.301241	100.2150443	100.1050473	99.33950041	96.78831229	92.81305289	88.2145262	83.66745891	79.40011924
180315A00030	3/15/2018	3.76	3/15/2033	100.0020465	99.9993217	99.95424225	98.92828578	95.91788419	91.60138855	86.83597558	82.20372661	77.8697557
180504A00024	5/4/2018	3.62	5/4/2028	100.0017099	99.99900212	99.99629593	99.86032819	98.78392241	96.81385807	94.40292762	91.97090558	89.6122933
180627A00005	6/27/2018	3.63	6/30/2033	100.2788597	100.1926822	100.1007354	99.60389905	97.79708411	94.92197708	91.64491757	88.42147357	85.36027349
180703A00033	7/3/2018	3.4	7/3/2028	100.2532344	100.1671387	100.0811894	99.84210019	99.00755116	97.72694196	96.29683264	94.88043265	93.49843504
190111A00040	1/11/2019	3.74	1/11/2034	100.0019395	99.99919804	99.94940479	98.88528579	95.88318944	91.67361696	87.09516553	82.67268426	78.54339391
190116A00015	1/16/2019	3.61	1/17/2034	100.2713106	100.1851994	100.078731	99.39242084	97.26377541	94.11741006	90.63900867	87.25335713	84.05044387
190204A00054	2/4/2019	3.98	2/6/2034	100.2874045	100.2170206	100.0883665	99.10602943	96.19438855	91.84075244	86.91735179	82.0892966	77.58603462
190222A00023	2/22/2019	3.66	2/22/2034	102.5060585	101.6305226	100.3919996	98.11329645	94.22966177	89.20730263	83.88386839	78.79591175	74.08093677
190301A00015	3/1/2019	3.86	3/1/2034	102.5455837	101.7772859	100.7215792	98.74731984	95.23268452	90.45190478	85.21674222	80.14870324	75.44232972
190409A00016	4/9/2019	2.91	4/9/2029	100.2168805	100.1307563	99.99839278	99.1246421	97.20446589	94.691443	92.0600482	89.50404003	87.04296809
190409A00017	4/9/2019	3.01	4/9/2029	100.2254887	100.1393571	100.013596	99.18494873	97.19881989	94.50370279	91.631786	88.83594842	86.14756263
190430A00020	4/30/2019	3.41	4/28/2034	102.5980696	101.5456022	99.98154591	97.13983217	92.69062572	87.33436289	81.873063	76.72708478	71.974509
190520A00018	5/20/2019	3.7	5/20/2044	99.99609957	99.99238596	99.24453131	96.01284359	90.72740041	84.60266753	78.57890425	73.0428152	68.05996318
190530A00044	5/30/2019	2.85	5/30/2034	100.2117156	100.1255958	99.69420285	97.85012369	94.72684819	91.12175124	87.54375978	84.15346875	80.95812762
190807A00041	8/7/2019	2.27	8/7/2034	100.1617879	99.97435684	98.72002655	95.89193418	92.25281935	88.50838669	84.93083942	81.56292916	78.39369323
190807A00044	8/7/2019	2.27	8/7/2034	100.1617879	99.97435684	98.72002655	95.89193418	92.25281935	88.50838669	84.93083942	81.56292916	78.39369323
190827A00044	8/27/2019	1.9	8/27/2029	100.1299375	100.0169847	99.38551281	97.93390245	96.08033855	94.17251809	92.31287007	90.51088313	88.76455225
190930A00079	9/30/2019	2.04	10/1/2029	100.141989	100.0398103	99.51703864	98.14360325	96.29181785	94.34999875	92.45213132	90.61377064	88.8330834
190930A00083	9/30/2019	2.04	10/1/2029	100.141989	100.0398103	99.51703864	98.14360325	96.29181785	94.34999875	92.45213132	90.61377064	88.8330834
191007A00012	10/7/2019	2	10/5/2029	100.1327264	100.0210692	99.39543941	97.91660765	96.007022	94.03394376	92.11075127	90.2488911	88.44623623
191007A00013	10/7/2019	2	10/5/2029	100.1327264	100.0210692	99.39543941	97.91660765	96.007022	94.03394376	92.11075127	90.2488911	88.44623623
191028A00015	10/28/2019	2.49	10/27/2034	100.180726	100.0499234	99.10146732	96.53785427	92.96262254	89.16697791	85.50940196	82.06558021	78.82791404
191031A00036	10/31/2019	2.9	10/31/2039	100.2101959	99.97687627	98.35740993	94.60468703	89.61763454	84.40663025	79.47844023	74.95315202	70.81131152
191031A00037	10/31/2019	2.59	10/30/2034	100.1835119	100.0579611	99.16109172	96.65201847	93.10564921	89.31799981	85.6612885	82.21721827	78.9790419
191220A00029	12/20/2019	2.57	12/19/2031	100.1817904	100.0927141	99.67310075	98.10510105	95.61084412	92.81984845	90.0660124	87.42904219	84.90876291
200108A00009	1/8/2020	2.4	1/8/2035	99.99826434	99.92150069	98.64998629	95.63072211	91.71712988	87.67483161	83.81826034	80.20268909	76.81574677

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Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
200108A00040	1/8/2020	2.52	1/8/2030	100.1774865	100.0823895	99.56788067	97.73439788	94.8280335	91.54464999	88.28864582	85.16947984	82.18952249
200110A00012	1/10/2020	2.57	1/10/2035	100.1817904	100.0475099	99.0613592	96.43174756	92.78098688	88.91140832	85.186705	81.6841136	78.3955437
200115A00023	1/15/2020	2.16	1/15/2030	100.1464988	100.0455775	99.52524962	98.09793312	96.13491625	94.06165106	92.03492144	90.07536275	88.18100356
200306A00021	3/6/2020	1.16	3/6/2030	100.0460096	99.51328203	97.98979614	95.90528174	93.73334641	91.61937117	89.57822075	87.60754709	85.70432344
200309A00013	3/9/2020	1.1	3/8/2030	100.0364689	99.45046298	97.87212339	95.76887899	93.59671492	91.48552122	89.44726694	87.47939662	85.57888559
200316A00030	3/16/2020	1.35	3/15/2030	100.0825924	99.74106795	98.46196316	96.4786681	94.31230461	92.18391029	90.12738656	88.14193886	86.22453301
200316A00032	3/16/2020	1.35	3/15/2030	100.0825924	99.74106795	98.46196316	96.4786681	94.31230461	92.18391029	90.12738656	88.14193886	86.22453301
200318A00015	3/18/2020	1.69	3/18/2030	99.99634048	99.91074664	98.9538738	97.10432666	94.91044284	92.70825759	90.57717209	88.52200379	86.539537
200326A00035	3/26/2020	1.68	3/26/2030	100.1051817	99.90401318	98.89122885	97.0525322	94.91335451	92.7773064	90.70966965	88.71336291	86.78542223
200423A00008	4/23/2020	1.59	4/23/2030	99.99607585	99.60837818	97.66128318	94.39246538	90.65931818	86.96398402	83.43258521	80.07177394	76.87270892
200423A00009	4/23/2020	1.59	4/23/2030	99.99607585	99.60837818	97.66128318	94.39246538	90.65931818	86.96398402	83.43258521	80.07177394	76.87270892
200423A00010	4/23/2020	1.59	4/23/2030	99.99607585	99.60837818	97.66128318	94.39246538	90.65931818	86.96398402	83.43258521	80.07177394	76.87270892
200430A00021	4/30/2020	1.2	4/30/2030	100.0514412	99.54172262	98.02949346	95.92396698	93.71736239	91.56836082	89.49431931	87.49295486	85.56110671
200505A00010	5/5/2020	0.89	5/6/2030	100.0095648	99.25224245	97.49686686	95.28415162	93.04285089	90.87256174	88.77974789	86.76131948	84.81399804
200512A00023	5/12/2020	1.78	5/11/2035	99.90496338	98.53848577	94.96532239	90.0504442	84.84110669	79.87148316	75.27021385	71.02938779	67.11820874
200609A00003	6/9/2020	1.66	6/8/2035	99.77821989	97.66896529	93.39354711	87.871469	82.1804334	76.81515722	71.88235566	67.36396621	63.22236032
200612A00001	6/12/2020	0.75	6/12/2030	99.9624004	99.04073627	97.14152907	94.86758816	92.59620877	90.40175242	88.28691864	86.24830815	84.28251832
201022A00008	10/22/2020	1.02	10/22/2035	99.74451615	97.55996702	93.84910023	89.58315305	85.41055232	81.49348264	77.83678901	74.42160133	71.22897661
201029A00008	10/29/2020	0.92	10/29/2030	100.1241984	99.11272493	97.17500676	94.78553269	92.37995892	90.05720008	87.82310718	85.67384317	83.60543826
201030A00025	10/30/2020	2.02	10/28/2050	99.23927083	95.56169133	89.33491438	81.82501011	74.31505446	67.47901519	61.50056457	56.31407433	51.80310047
201116A00019	11/16/2020	1.32	11/15/2030	100.3181285	99.04928318	96.40309219	92.75852592	88.92601731	85.22873633	81.71932977	78.39176358	75.2354987
201118A00015	11/18/2020	1.66	11/18/2036	101.3179675	96.8272324	91.14087483	84.71574416	78.31288997	72.37213577	66.98490975	62.1152732	57.7095334
201118A00017	11/18/2020	1.66	11/18/2036	101.3179675	96.8272324	91.14087483	84.71574416	78.31288997	72.37213577	66.98490975	62.1152732	57.7095334
201118A00018	11/18/2020	1.85	11/18/2036	101.8273117	97.48996719	91.95266004	85.61821319	79.22010522	73.24525487	67.81779058	62.90987591	58.46835569
201202A00016	12/2/2020	1.32	12/3/2035	100.110827	98.16099747	94.70232275	90.46411376	86.22206641	82.22196979	78.4887741	75.00505704	71.75107202
201202A00017	12/2/2020	1.32	12/3/2035	100.110827	98.16099747	94.70232275	90.46411376	86.22206641	82.22196979	78.4887741	75.00505704	71.75107202
201229A00003	12/29/2020	1.28	12/30/2030	100.3424706	98.92294648	96.13902652	92.39941381	88.50400401	84.75771552	81.2060278	77.84164335	74.65349973
201230A00018	12/30/2020	1.52	12/28/2035	101.29811	96.84206571	91.28180615	85.05862124	78.88416424	73.14547929	67.91499251	63.15941989	58.83214602
210108A00007	1/8/2021	1.65	1/8/2036	99.97100127	97.30954973	92.71131152	86.95407249	81.08070741	75.57373919	70.5332611	65.9353009	61.73766387
210225A00010	2/25/2021	2.02	2/25/2041	100.5549178	98.23481542	94.08644771	88.63343883	82.94749418	77.59966612	72.72364982	68.29778055	64.27516054
210405A00013	4/5/2021	1.82	4/7/2036	101.0753757	99.36219447	96.43894475	92.39866464	88.05106798	83.86829236	79.95815401	76.31548593	72.91931448
210622A00004	6/22/2021	2.42	6/20/2036	101.7201757	99.54977198	95.947059	90.78400383	84.90004082	79.11435149	73.75523967	68.86980871	64.42062264
210623A00024	6/23/2021	1.56	6/23/2026	99.99020388	99.93016401	99.33348409	98.43531355	97.50443835	96.58909628	95.69085527	94.809249	93.94381859

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
210910A00009	9/10/2021	1.77	9/10/2036	101.6849877	99.50296017	96.2638392	92.05252031	87.56705425	83.26186476	79.24667827	75.5152589	72.04466759
210924A00016	9/24/2021	1.91	9/24/2036	101.9379732	99.87091683	96.79816448	92.70563836	88.23822077	83.90850036	79.86247599	76.10182548	72.6040586
211019A00005	10/19/2021	2.49	10/20/2036	102.5564076	100.1089919	96.37358792	91.19563508	85.24271933	79.33546365	73.85342291	68.863764	64.32999575
211110A00017	11/10/2021	2.01	11/10/2036	102.3870166	100.2063239	97.10170479	93.01660337	88.51332631	84.12294223	80.01680895	76.20321942	72.65943171
211116A00012	11/16/2021	2.22	12/18/2034	102.8193483	100.9920287	98.54277026	95.24505793	91.42405963	87.5837884	83.93680926	80.51119047	77.29351061
211124A00008	11/24/2021	2.62	11/22/2041	103.0521936	100.5944555	96.96775293	91.98085402	86.23935369	80.54661475	75.2839461	70.51260103	66.19347303
211215A00020	12/15/2021	1.85	12/15/2031	102.4915491	100.8482755	98.83343526	96.30283827	93.48506284	90.67692774	87.98119324	85.40559298	82.94401954
211227A00012	12/27/2021	2.39	12/29/2036	105.8698163	101.1751828	95.6846195	89.49383267	83.01814259	76.76613115	71.01720663	65.81393528	61.11008861
220217A00024	2/17/2022	2.43	2/17/2027	99.9925029	99.98984174	99.83432546	98.97309531	97.65891903	96.21169951	94.7753935	93.3674777	91.98738697
220617A00069	6/17/2022	4.06	6/17/2027	100.3100454	100.2239008	100.1379028	100.0402063	99.62069989	98.5449885	97.03658409	95.44272262	93.88067987
220831A00108	8/31/2022	4.07	8/31/2027	101.2105502	100.870366	100.530957	100.1599589	99.5337235	98.34103301	96.70315288	94.98641592	93.30787442
221212A00004	12/12/2022	4.36	12/10/2032	110.0462995	107.7112381	105.3832172	102.9947471	100.4566207	97.69487795	94.67804328	91.57207219	88.57513556
221214A00057	12/14/2022	4.65	12/14/2027	102.5436707	101.930653	101.3237429	100.7112785	100.0072463	98.92880755	97.17013665	95.05140092	92.94193896
221222A00137	12/22/2022	5.4	12/22/2037	112.8638153	110.2498905	107.5746661	104.7314236	101.5428527	97.86144947	93.59992409	88.98025623	84.4636475
240403A00012	4/3/2024	4.82	4/3/2029	109.0182223	107.1035882	105.2196327	103.3388379	101.3952645	99.28935611	96.86806775	94.16157833	91.44705561
ADV1007645	7/5/2024	4.781	7/5/2029	109.2776612	107.3072295	105.3683329	103.4329131	101.4392291	99.30650824	96.90673115	94.25944937	91.60362048
ADV1007841	7/12/2024	0	7/12/2029	98.89288155	96.13168211	92.56558932	88.96968692	85.5161179	82.21194755	79.05033258	76.0244265	73.1277329
ADV1007842	7/12/2024	0	7/12/2029	98.89288155	96.13168211	92.56558932	88.96968692	85.5161179	82.21194755	79.05033258	76.0244265	73.1277329
ADV1007970	7/17/2024	0	7/17/2029	98.89456828	96.11839838	92.53867185	88.93155238	85.46795589	82.1546005	78.98456493	75.95094807	73.04720286
ADV1008036	7/19/2024	0	7/19/2029	98.89523209	96.11307631	92.5279044	88.91630425	85.44870035	82.13167447	78.95827461	75.92157779	73.01501681
ADV1008090	7/23/2024	0	7/23/2029	98.89654102	96.10241976	92.50636917	88.88581807	85.41020513	82.08584428	78.90572266	75.86287336	72.95068915
ADV1008152	7/24/2024	0	7/24/2029	98.89686482	96.09975297	92.50098558	88.87819861	85.40058464	82.0743913	78.89259064	75.84820478	72.9346165
ADV1008200	7/25/2024	0	7/25/2029	98.89718749	96.0970851	92.49560208	88.87057998	85.39096546	82.06294013	78.87946101	75.8335392	72.91854754
ADV1008212	7/26/2024	0	7/26/2029	98.89750902	96.09441613	92.49021867	88.86296219	85.3813476	82.05149079	78.86633376	75.81887663	72.90248229
ADV1008308	7/31/2024	0	7/31/2029	98.89811416	96.08073895	92.46326128	88.82488408	85.33327811	81.99427142	78.80073334	75.74560887	72.82221148
ADV1008367	8/1/2024	0	8/1/2029	98.84919314	96.06009866	92.45520509	88.81705807	85.32358899	81.98275472	78.78754349	75.73089057	72.80609861
ADV1008427	8/2/2024	0	8/2/2029	98.84953198	96.05740684	92.44976914	88.80937369	85.31390281	81.97123988	78.77435606	75.71617531	72.78998947
ADV1008515	8/6/2024	0	8/6/2029	98.8508654	96.04662853	92.42802378	88.77864433	85.27517157	81.92519902	78.72163049	75.65734463	72.7255902
ADV1008530	8/7/2024	0	8/7/2029	98.8511944	96.04393115	92.42258744	88.77096403	85.26549213	81.91369343	78.70845514	75.64264455	72.7094997
ADV1008591	8/9/2024	0	8/9/2029	98.85184765	96.038533	92.4117148	88.75560587	85.24613727	81.8906878	78.68211168	75.61325349	72.67732987
ADV1008654	8/13/2024	0	8/13/2029	98.85313498	96.02772736	92.38996939	88.72489938	85.20744371	81.84469872	78.62945373	75.55450775	72.61303487
ADV1008769	8/19/2024	0	8/20/2029	98.85533068	96.00878962	92.35191864	88.67119589	85.13978173	81.76428895	78.53739515	75.45181932	72.50066179
ADV1008780	8/19/2024	0	8/20/2029	98.85533068	96.00878962	92.35191864	88.67119589	85.13978173	81.76428895	78.53739515	75.45181932	72.50066179

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1008881	8/22/2024	0	8/22/2029	98.85594715	96.00337209	92.34104838	88.6558598	85.12046182	81.74133134	78.51111438	75.422507	72.46858863
ADV1008893	8/23/2024	0	8/23/2029	98.8562538	96.00066217	92.33561348	88.64819305	85.11080388	81.7298553	78.49797761	75.40785538	72.45255762
ADV1008894	8/23/2024	0	8/23/2029	98.8562538	96.00066217	92.33561348	88.64819305	85.11080388	81.7298553	78.49797761	75.40785538	72.45255762
ADV1008939	8/26/2024	0	8/27/2029	98.85746936	95.98981456	92.31387519	88.61753469	85.07218554	81.68396959	78.44545459	75.34927912	72.38847065
ADV1008940	8/26/2024	0	8/27/2029	98.85746936	95.98981456	92.31387519	88.61753469	85.07218554	81.68396959	78.44545459	75.34927912	72.38847065
ADV1009099	8/27/2024	0	8/27/2029	98.85746936	95.98981456	92.31387519	88.61753469	85.07218554	81.68396959	78.44545459	75.34927912	72.38847065
ADV1009133	8/28/2024	0	8/28/2029	98.85777044	95.98710064	92.30844092	88.60987225	85.06253431	81.67250276	78.43232985	75.33464261	72.37245818
ADV1009166	8/29/2024	0	8/29/2029	98.85794399	95.98435399	92.30300239	88.60221046	85.05288442	81.66103779	78.41920751	75.32000911	72.35644941
ADV1009167	8/29/2024	0	8/29/2029	98.85794399	95.98435399	92.30300239	88.60221046	85.05288442	81.66103779	78.41920751	75.32000911	72.35644941
ADV1009212	8/30/2024	0	8/30/2029	98.85809521	95.98159156	92.29756152	88.59454945	85.04323587	81.64957465	78.40608758	75.30537864	72.34044435
ADV1009568	9/17/2024	0	9/17/2029	98.81389025	95.91520844	92.19724178	88.45583383	84.86820465	81.44138409	78.16772694	75.03961446	72.04983385
ADV1009810	9/24/2024	0	9/24/2029	98.81626492	95.89650224	92.15929617	88.40200348	84.80022092	81.3605357	78.07518565	74.93646372	71.93707662
ADV1009878	9/26/2024	0	9/26/2029	98.81693402	95.89115287	92.14845687	88.38663143	84.78080929	81.33745304	78.0487673	74.90701973	71.90489418
ADV1010064	10/2/2024	0	10/2/2029	98.76952635	95.8565236	92.11277543	88.34004562	84.72245692	81.26830923	77.96985682	74.81929695	71.80924641
ADV1010067	10/2/2024	0	10/2/2029	98.76952635	95.8565236	92.11277543	88.34004562	84.72245692	81.26830923	77.96985682	74.81929695	71.80924641
ADV1010068	10/2/2024	0	10/2/2029	98.76952635	95.8565236	92.11277543	88.34004562	84.72245692	81.26830923	77.96985682	74.81929695	71.80924641
ADV1010126	10/4/2024	4.138	10/4/2029	109.0806981	106.8936938	104.7298842	102.5403503	100.2412769	97.75501241	95.03320507	92.21895423	89.485476
ADV1010140	10/7/2024	0	10/9/2029	98.77081241	95.836194	92.07321575	88.28513626	84.65409894	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010151	10/7/2024	0	10/9/2029	98.77081241	95.836194	92.07321575	88.28513626	84.65409894	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010158	10/7/2024	0	10/9/2029	98.77081241	95.836194	92.07321575	88.28513626	84.65409894	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010203	10/9/2024	0	10/9/2029	98.77099071	95.836194	92.07321575	88.28513626	84.65409894	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010205	10/9/2024	0	10/9/2029	98.77099071	95.836194	92.07321575	88.28513626	84.65409894	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010208	10/9/2024	0	10/9/2029	98.77099071	95.836194	92.07321575	88.28513626	84.65409894	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010209	10/9/2024	0	10/9/2029	98.77099071	95.836194	92.07321575	88.28513626	84.65409894	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010210	10/9/2024	0	10/9/2029	98.77099071	95.836194	92.07321575	88.28513626	84.65409893	81.18786483	77.87857152	74.71833956	71.69971087
ADV1010261	10/11/2024	0	10/11/2029	98.771654	95.8303738	92.06191262	88.26945527	84.63458058	81.16489756	77.85251157	74.68952121	71.66844715
ADV1010356	10/16/2024	0	10/16/2029	98.77238676	95.81579987	92.03365634	88.23026795	84.585809	81.1075121	77.78740362	74.61752706	71.59035026
ADV1010407	10/18/2024	0	10/18/2029	98.77294998	95.80996064	92.02235431	88.21459937	84.56631008	81.084571	77.76137719	74.58875008	71.55913647
ADV1010414	10/18/2024	0	10/18/2029	98.77294998	95.80996064	92.02235431	88.21459937	84.56631008	81.084571	77.76137719	74.58875008	71.55913647
ADV1010416	10/18/2024	0	10/18/2029	98.77294998	95.80996064	92.02235431	88.21459937	84.56631008	81.084571	77.76137719	74.58875008	71.55913647
ADV1010510	10/24/2024	0	10/24/2029	98.77389996	95.79240951	91.98844879	88.16761532	84.50784662	81.0157925	77.6833553	74.50248992	71.46558054
ADV1010633	10/31/2024	5.44	10/29/2049	121.812394	117.0469272	112.1052499	106.8973695	101.287686	95.16677133	88.6378678	82.00796376	75.75838022
ADV1012378	1/15/2025	0	1/15/2030	98.63788654	95.48678858	91.50310226	87.50907569	83.69108678	80.05635334	76.59567122	73.29987635	70.16031264

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012454	1/17/2025	0	1/17/2030	98.63899762	95.4806098	91.4914571	87.49308355	83.6712685	80.0330753	76.56926306	73.27064178	70.12853161
ADV1012574	1/22/2025	0	1/22/2030	98.63879478	95.46513471	91.46234928	87.45312012	83.62174845	79.97491466	76.50328677	73.19760993	70.04914529
ADV1012601	1/23/2025	0	1/23/2030	98.63892135	95.46203756	91.45652855	87.44513034	83.61184884	79.96328843	76.49009907	73.18301292	70.03327937
ADV1012603	1/23/2025	0	1/23/2030	98.63892135	95.46203756	91.45652855	87.44513034	83.61184884	79.96328843	76.49009907	73.18301292	70.03327937
ADV1012608	1/23/2025	0	1/23/2030	98.63892135	95.46203756	91.45652855	87.44513034	83.61184884	79.96328843	76.49009907	73.18301292	70.03327937
ADV1012631	1/24/2025	0	1/24/2030	98.63962209	95.45894186	91.45070809	87.43714154	83.60195069	79.95166417	76.47691389	73.16841902	70.01741724
ADV1012660	1/27/2025	0	1/28/2030	98.63924916	95.44653822	91.42742897	87.40519611	83.56237277	79.90518679	76.42419836	73.11007457	69.95400648
ADV1012688	1/27/2025	4.945	1/15/2030	107.6951852	106.0979937	104.5125427	102.8922478	101.1098613	98.96656369	96.15739625	92.71844586	89.17644265
ADV1013119	2/13/2025	0	2/13/2030	98.59693471	95.38382227	91.33582329	87.27863877	83.40246924	79.71500103	76.20665699	72.86787396	69.68962777
ADV1013181	2/14/2025	0	2/14/2030	98.59858205	95.38117442	91.33034138	87.27076554	83.39246183	79.70306564	76.19298123	72.85263048	69.67297549
ADV1013281	2/20/2025	4.459	3/15/2028	111.3717253	108.7983748	106.2950399	103.8531697	101.4574133	99.08781516	96.71878121	94.36316537	92.06523855
ADV1013282	2/20/2025	5	1/7/2030	107.6295599	106.0612109	104.5052113	102.9182284	101.179811	99.09859877	96.36323822	92.96747516	89.43899772
ADV1013283	2/20/2025	0	2/20/2030	98.60039641	95.36521067	91.29746035	87.22354721	83.33244886	79.63149673	76.11098339	72.76124096	69.57314945
ADV1013471	2/25/2025	4.715	3/2/2032	121.9789482	116.8470806	111.8255336	106.8777048	101.9573173	97.05137662	92.12365143	87.25170127	82.60276342
ADV1013551	2/28/2025	0	2/28/2030	98.60748032	95.34540645	91.25387311	87.16065883	83.25251574	79.53618713	76.00180408	72.63957833	69.44028154
ADV1015005	4/29/2025	0	4/29/2030	98.51668336	95.11032041	90.88610696	86.66867044	82.64835424	78.83170406	75.2079862	71.76657473	68.4974579
ADV1013643	3/4/2025	0	3/4/2030	98.56015227	95.3132382	91.22672111	87.12772404	83.21230853	79.48928814	75.9488969	72.58129328	69.37719548
ADV1014406	4/4/2025	0	4/4/2030	98.51506904	95.19231944	91.03697612	86.87409902	82.90104848	79.12630928	75.53963011	72.13073127	68.88992686
ADV1014512	4/10/2025	0	4/10/2030	98.51474899	95.17268427	91.00076562	86.82473771	82.84031295	79.05548663	75.45988755	72.04315339	68.79551886
ADV1014034	3/21/2025	0	3/21/2030	98.56203467	95.25755447	91.1243653	86.9888051	83.04171593	79.2903284	75.72449828	72.33414131	69.1097528
ADV1014513	4/10/2025	0	4/10/2030	98.51474899	95.17268427	91.00076562	86.82473771	82.84031295	79.05548663	75.45988755	72.04315339	68.79551886
ADV1013661	3/5/2025	0	3/5/2030	98.5602319	95.30999222	91.22070911	87.11954605	83.20226151	79.47756845	75.93567651	72.56672986	69.36143341
ADV1013623	3/4/2025	0	3/4/2030	98.56015227	95.3132382	91.22672111	87.12772404	83.21230853	79.48928814	75.9488969	72.58129328	69.37719548
ADV1015175	5/2/2025	5.176	5/2/2045	121.7242759	116.644249	111.4461333	106.090938	100.4815988	94.61057748	88.57265456	82.61211985	77.03681593
ADV1015172	5/2/2025	5.176	5/2/2045	121.7242759	116.644249	111.4461333	106.090938	100.4815988	94.61057748	88.57265457	82.61211985	77.03681593
ADV1015129	5/1/2025	0	5/1/2030	98.47086239	95.08499485	90.87088419	86.65189173	82.62806987	78.80815241	75.18154004	71.73758037	68.46623423
ADV1016790	6/26/2025	0	6/26/2030	98.42086682	94.86688578	90.51587786	86.18142879	82.05622681	78.14640563	74.44025835	70.92623008	67.59345312
ADV1015176	5/2/2025	5.173	5/2/2045	121.7085749	116.628478	111.4299119	106.0739607	100.4634546	94.59116376	88.55244268	82.5920977	77.01777267
ADV1015173	5/2/2025	5.176	5/2/2045	121.7242759	116.644249	111.4461333	106.090938	100.4815988	94.61057748	88.57265457	82.61211985	77.03681593
211124A00005	11/26/2021	4.76	11/26/2025	100.0717982	100.0681926	100.063717	100.0583904	100.0522312	100.0452571	100.037486	100.0289349	100.0196206
211124A00006	11/26/2021	4.81	11/25/2026	100.1917846	100.0073265	100.0200405	100.0243699	100.0207446	100.0095715	99.99123729	99.96610849	99.93453322
220608A00012	6/8/2022	5.14	6/8/2029	100.8888157	100.7660953	100.7875336	100.7806724	100.7479757	100.6917142	100.6139809	100.5167045	100.4016634
220929A00039	9/29/2022	5.18	9/28/2029	100.9982969	100.9365132	100.9585206	100.9506254	100.9154116	100.8552643	100.7723864	100.6688109	100.5464155

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
221115A00039	11/15/2022	4.96	11/16/2026	100.309543	100.2185367	100.2294156	100.2320127	100.22675	100.2140276	100.1942256	100.1677043	100.134806
221216A00018	12/16/2022	4.96	12/16/2026	100.3339955	100.2144564	100.2272474	100.231436	100.2274709	100.2157771	100.196758	100.1707955	100.1382524
230215A00013	2/15/2023	4.84	8/21/2025	100.0541909	100.0507032	100.0470614	100.0432666	100.0393201	100.0352226	100.0309756	100.02658	100.0220367
230307A00025	3/7/2023	4.96	3/7/2028	100.6320153	100.195201	100.2176143	100.2216038	100.2083382	100.1789181	100.1343811	100.0757043	100.0038093
230313A00111	3/13/2023	5.11	2/13/2026	100.2686423	100.2649832	100.2599968	100.2537205	100.2461907	100.2374425	100.2275101	100.2164265	100.2042236
230313A00120	3/13/2023	5.11	4/13/2026	100.302133	100.2987502	100.2936346	100.2868469	100.2784455	100.2684863	100.2570236	100.2441089	100.2297921
230313A00124	3/13/2023	5.11	5/13/2026	100.3221754	100.3189617	100.3138141	100.3068075	100.2980136	100.2875007	100.2753346	100.2615779	100.2462908
230410A00022	4/10/2023	5.07	4/10/2028	100.7490511	100.4967423	100.5158852	100.5155477	100.4970285	100.4615475	100.4102506	100.344214	100.2644489
230511A00058	5/11/2023	5.03	5/11/2028	100.7132078	100.3877301	100.408235	100.408405	100.3896966	100.3534708	100.3009996	100.2334716	100.151998
230816A00019	8/16/2023	5.01	8/16/2028	100.6849571	100.3072709	100.3337511	100.3377243	100.3208238	100.2845748	100.2304027	100.1596386	100.073527
230914A00009	9/14/2023	4.93	9/14/2028	100.6059676	100.0435722	100.075969	100.0853428	100.0733519	100.0415463	99.99137477	99.92419177	99.8412638
230922A00036	9/22/2023	4.9	9/22/2028	100.579936	99.94403952	99.97827805	99.98934535	99.9789057	99.94851479	99.89962744	99.8336037	99.75171569
231025A00027	10/25/2023	4.93	10/25/2028	100.6002997	100.0250121	100.0680137	100.0923925	100.0995628	100.0908402	100.0674495	100.0305298	99.98114195
231106A00009	11/6/2023	4.9	10/15/2026	100.2293119	100.1361868	100.1432273	100.1472833	100.1484655	100.1468797	100.1426281	100.1358082	100.1265142
231115A00005	11/15/2023	4.89	11/16/2026	100.2464573	100.1215269	100.1331854	100.1365419	100.1320171	100.1200098	100.1008988	100.0750434	100.042785
231215A00007	12/15/2023	4.88	12/1/2026	100.2531503	100.1049882	100.1173078	100.1212307	100.1171976	100.1056257	100.0869106	100.0614268	100.0295298
240112A00017	1/12/2024	4.95	1/12/2029	100.5985209	100.0521013	100.0909642	100.105352	100.097125	100.0680145	100.0196321	99.95347756	99.87094735
240116A00030	1/16/2024	4.83	1/15/2027	100.2432001	100.0056092	100.0225597	100.0302008	100.028987	100.0193498	100.0016999	99.97642739	99.94390381
240215A00011	2/15/2024	4.81	2/16/2027	100.2697791	99.96801066	99.98252149	99.98676343	99.98121123	99.96631765	99.94251504	99.91021576	99.86981376
240314A00006	3/14/2024	4.91	3/14/2029	100.5697899	99.90252566	99.9398124	99.95088167	99.93777045	99.9023737	99.84645487	99.7716545	99.67949938
240315A00011	3/15/2024	4.79	3/15/2027	100.2871848	99.92783582	99.94136633	99.94371627	99.93542221	99.91699531	99.8889232	99.85167045	99.80568039
240327A00032	3/27/2024	4.77	3/26/2027	100.2810194	99.88605456	99.900799	99.90391043	99.89594996	99.87745225	99.84892723	99.81086082	99.76371665
240328A00053	3/28/2024	4.9	3/28/2029	100.5552942	99.85870377	99.89785383	99.91020276	99.89784694	99.86273557	99.8066816	99.73137074	99.63837098
240415A00006	4/15/2024	4.76	4/15/2027	100.2915681	99.85708249	99.87187391	99.8744701	99.86551736	99.84562872	99.81538624	99.77534209	99.72602072
240417A00013	4/17/2024	5.09	4/17/2031	100.2810699	100.1087219	100.1575096	100.1649284	100.1354109	100.0729653	99.98121669	99.86344235	99.72260551
240515A00015	5/15/2024	4.75	5/17/2027	100.3073802	99.81836399	99.83422631	99.8369645	99.82735204	99.80611894	99.77395481	99.73151066	99.67940171
ADV1006428	5/28/2024	4.762	5/28/2027	100.3210648	99.83330194	99.84978894	99.85274835	99.84299337	99.82129072	99.78836398	99.7448955	99.69152954
ADV1006699	6/3/2024	4.781	6/3/2027	100.3375791	99.8667852	99.8831133	99.88571653	99.87542932	99.85303801	99.81928426	99.77486715	99.72044632
ADV1006870	6/10/2024	4.797	6/10/2027	100.3543592	99.89540088	99.91137209	99.91339619	99.90233121	99.87898518	99.84411972	99.79845229	99.7426594
ADV1007038	6/14/2024	4.804	6/14/2027	100.3625945	99.90787531	99.92371086	99.92547072	99.91402679	99.89019984	99.85476319	99.80844502	99.7519317
ADV1007043	6/14/2024	4.864	6/14/2029	100.4909907	99.68295554	99.72647189	99.74081517	99.72850523	99.69186375	99.63303054	99.55397736	99.45652196
ADV1007203	6/20/2024	4.803	6/21/2027	100.3669381	99.9038588	99.91972521	99.92127462	99.90940321	99.88495415	99.84872136	99.80145199	99.74384985
ADV1007514	7/1/2024	4.825	7/1/2027	100.3831692	99.9246348	99.94034687	99.94140869	99.92874557	99.90322754	99.86567333	99.81685301	99.75749157

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1007965	7/17/2024	4.812	7/19/2027	100.3900488	99.90627106	99.92378446	99.92654831	99.91545499	99.89134553	99.85501315	99.80720564	99.74862859
ADV1008702	8/15/2024	4.843	8/16/2027	100.4278366	99.9544869	99.97390954	99.97829754	99.96852374	99.94541285	99.90974468	99.86225616	99.80364444
ADV1008824	8/21/2024	4.843	8/23/2027	100.4313978	99.95088895	99.97100057	99.97598422	99.96671495	99.94401972	99.90868069	99.86143718	99.80298876
ADV1009264	9/4/2024	4.86	9/7/2027	100.4543233	99.98210393	100.0027169	100.0080275	99.9989157	99.97621377	99.94070914	99.89314651	99.83423088
ADV1010016	10/1/2024	4.848	10/1/2026	100.1705713	100.0578006	100.0617696	100.0668897	100.0730143	100.0800079	100.0877462	100.0961142	100.1050059
ADV1010293	10/15/2024	4.877	10/15/2027	100.4914836	100.0107048	100.0382367	100.0534943	100.0572211	100.0501185	100.0328485	100.0060356	99.97026976
ADV1010616	10/30/2024	4.848	10/30/2026	100.1949339	100.070334	100.0859848	100.0956566	100.09968	100.0983674	100.0920143	100.0809004	100.0652903
ADV1010836	11/12/2024	4.888	11/12/2027	100.5135581	100.0271843	100.0562374	100.072906	100.0779974	100.0722692	100.056433	100.0311568	99.99706815
ADV1010941	11/15/2024	4.893	11/15/2027	100.5195731	100.0385168	100.0674715	100.0840328	100.0890078	100.0831541	100.0671834	100.0417637	100.0075227
ADV1011265	11/29/2024	4.592	12/1/2025	100.0498978	100.0471871	100.0441322	100.0407399	100.0370169	100.0329696	100.0286044	100.0239273	100.0189445
ADV1011500	12/12/2024	4.866	12/13/2027	100.5082746	99.96403417	99.99545207	100.0143188	100.0214418	100.0175799	100.0034462	99.97971114	99.94700521
ADV1012110	1/6/2025	4.861	1/6/2028	100.5093272	99.94037333	99.97432794	99.99539234	100.0043866	100.0020818	99.98920373	99.96643522	99.93441901
ADV1013208	2/18/2025	4.81	2/18/2028	100.4943224	99.79936296	99.83462645	99.85574282	99.86360278	99.85904573	99.84286327	99.81580138	99.77856372
ADV1014071	3/24/2025	4.637	11/24/2025	100.0197543	100.011201	100.0010873	99.98944519	99.97630604	99.96170044	99.94565865	99.9282099	99.90938309
ADV1013888	3/14/2025	4.817	3/14/2028	100.5111807	99.80771076	99.83620981	99.84588323	99.83792648	99.81346543	99.77356101	99.7192125	99.65136175
ADV1014315	4/2/2025	4.679	6/2/2026	99.98226647	99.93469285	99.93451769	99.93353325	99.93177211	99.92926518	99.9260422	99.92213119	99.9175591
ADV1014403	4/4/2025	4.738	8/4/2026	100.0519558	99.96502778	99.96818526	99.97211661	99.97675558	99.98204018	99.98791288	99.99431963	100.0012102
ADV1014613	4/15/2025	4.907	4/17/2028	100.5916494	100.0458692	100.0781808	100.0947907	100.0967808	100.0851653	100.0608949	100.0248607	99.97789813
ADV1014146	3/27/2025	4.846	3/27/2028	100.5348268	99.8803336	99.90879588	99.91793744	99.90899617	99.88313736	99.84145858	99.78499312	99.71471445
ADV1015395	5/12/2025	4.863	5/12/2028	100.5566256	99.90966367	99.93752671	99.94484063	99.93307214	99.90359151	99.85767961	99.79653329	99.72127166
ADV1016297	6/9/2025	4.657	4/10/2026	99.96482598	99.94186974	99.93851229	99.93351253	99.92692739	99.91881146	99.90921755	99.89819611	99.88579587
ADV1016466	6/16/2025	4.671	6/16/2026	99.98215031	99.91938833	99.91654947	99.9114589	99.90421654	99.89491713	99.88365103	99.87050379	99.85555697
ADV1009630	9/18/2024	5.005	9/18/2029	100.1508031	100.0097149	100.0069424	100.0041723	100.0014046	99.99863924	99.9958763	99.91265648	99.81765127
ADV1010025	10/1/2024	5.026	10/1/2029	100.1390875	100.0097284	100.0069263	100.0041265	100.0013292	99.99853431	99.99574181	99.94034483	99.8486388
ADV1010137	10/7/2024	5.009	10/9/2029	100.1418402	100.0096848	100.0068849	100.0040875	100.0012926	99.99850002	99.99570987	99.91865502	99.82366567
ADV1010509	10/24/2024	5.026	10/24/2029	100.1626525	100.0097394	100.006946	100.004155	100.0013664	99.99858025	99.99579649	99.96602543	99.87781866
ADV1010723	11/5/2024	5.086	11/5/2029	100.1129689	100.009912	100.0071226	100.0043356	100.0015509	99.9987687	99.99598888	99.99321146	99.99043644
ADV1010727	11/5/2024	4.895	8/5/2026	100.0121805	100.0093894	100.0066007	100.0038145	100.0010306	99.99824916	99.9954701	99.99269346	99.9899192
ADV1010729	11/5/2024	4.885	5/5/2026	100.0121528	100.0093617	100.0065731	100.0037868	100.001003	99.99822162	99.99544261	99.99266601	99.9898918
ADV1010935	11/15/2024	5.039	5/15/2029	100.1003532	100.0097942	100.0070087	100.0042256	100.0014449	99.9986666	99.99589071	99.99311722	99.95645059
ADV1010936	11/15/2024	4.965	2/15/2028	100.0123767	100.0095891	100.0068038	100.004021	100.0012405	99.99846252	99.99568689	99.99291367	99.94228167
ADV1010937	11/15/2024	4.945	11/15/2027	100.0123212	100.0095336	100.0067484	100.0039657	100.0011853	99.99840736	99.99563181	99.98247038	99.92699706
ADV1010971	11/18/2024	4.911	2/16/2027	100.0122274	100.009441	100.0066571	100.0038756	100.0010964	99.99831972	99.99554539	99.99055861	99.95605863

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1011039	11/20/2024	5.046	11/20/2029	100.1653753	100.0098076	100.0070241	100.0042429	100.0014642	99.99868787	99.99591394	99.9931424	99.92701342
ADV1011270	11/29/2024	5.026	11/20/2029	100.1604186	100.0097521	100.0069687	100.0041876	100.0014089	99.99863267	99.9958588	99.95452954	99.86417931
ADV1011569	12/16/2024	5.031	12/14/2029	100.159719	100.0097787	100.0070051	100.0042339	100.0014651	99.99869867	99.99593463	99.96123086	99.87096383
ADV1011573	12/16/2024	5.019	9/14/2029	100.1513049	100.009752	100.0069784	100.0042071	100.0014383	99.99867179	99.9959077	99.95593074	99.86478083
ADV1011770	12/23/2024	5.001	6/21/2029	100.1025112	100.0097105	100.0069394	100.0041708	100.0014045	99.99864068	99.9958792	99.93075433	99.83446616
ADV1012634	1/24/2025	5.004	1/24/2030	100.1578758	100.0920104	100.048364	100.0305808	100.0271978	100.02214	99.97148402	99.85594685	99.75858789
ADV1012369	1/15/2025	4.987	7/16/2029	100.1364039	100.1110854	100.0231148	100.0199885	100.0168664	100.0137486	99.99027819	99.8823299	99.78812965
ADV1012496	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012665	1/27/2025	4.937	1/29/2029	100.0982706	100.0245473	99.98474654	100.0059155	100.0008606	99.97091612	99.91208474	99.81932605	99.74177468
ADV1012173	1/8/2025	5.022	11/21/2029	100.1629492	100.1464126	100.0833474	100.0679076	100.0629413	100.0597729	100.0440495	99.94246822	99.8489168
ADV1012341	1/15/2025	4.93	4/17/2028	100.0952818	100.0238794	100.0207548	100.0176345	100.0145183	100.0114065	99.98299035	99.90847254	99.83567543
ADV1012552	1/22/2025	4.967	1/22/2029	100.0970275	100.0892926	100.0276261	100.0243839	100.0211319	100.0178705	99.99520433	99.90846692	99.82862994
ADV1012499	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012365	1/15/2025	5.008	1/15/2030	100.157173	100.0993119	100.0237855	100.0206591	100.0175368	100.0144188	99.98745195	99.87235347	99.77696175
ADV1012639	1/24/2025	4.983	4/24/2029	100.0961572	100.0986294	100.0328641	100.0295076	100.0261248	100.0227161	99.99676275	99.90046696	99.80968291
ADV1012350	1/15/2025	4.963	1/16/2029	100.0957987	100.0830425	100.0221211	100.0189974	100.0158777	100.0127624	99.98984866	99.89972932	99.8194831
ADV1012360	1/15/2025	4.838	1/15/2027	100.0231806	99.99553834	99.98469439	99.9912381	99.98919644	99.97899251	99.95791378	99.92386843	99.89312574
ADV1012593	1/23/2025	5.002	1/23/2030	100.1571836	100.0880116	100.051945	100.0293474	100.0259957	100.0224754	99.96425579	99.84898178	99.75343904
ADV1012408	1/16/2025	4.799	10/16/2026	100.0222081	99.97685868	99.9652589	99.96923328	99.97073747	99.96624758	99.95503978	99.93333776	99.91655691
ADV1012349	1/15/2025	4.882	7/15/2027	100.0250116	100.0255914	100.0132854	100.0156522	100.0082408	99.98316769	99.94570753	99.88899543	99.83085409
ADV1012351	1/15/2025	4.917	1/18/2028	100.0783506	100.0233398	100.0202166	100.0170976	100.0139828	100.0108723	99.98513782	99.92287678	99.86124167
ADV1012446	1/17/2025	4.754	4/17/2026	100.0207315	99.98577009	99.97915955	99.97237332	99.96346541	99.95242978	99.93928574	99.92437089	99.90733817
ADV1012486	1/21/2025	4.897	10/20/2027	100.0301993	100.030599	100.0193186	100.0205289	100.0172866	99.99853724	99.95924249	99.89832182	99.8404055
ADV1012355	1/15/2025	4.793	7/15/2026	100.021308	99.99595452	99.98512914	99.98175783	99.97693187	99.96933561	99.9565857	99.93907394	99.92153479
ADV1012562	1/22/2025	4.839	1/22/2027	100.0284528	99.99557651	99.98266842	99.98959777	99.98743328	99.97678044	99.9553698	99.92152793	99.88941981
ADV1012668	1/27/2025	4.848	7/26/2027	100.0385036	99.98096783	99.95102634	99.94885454	99.93781333	99.91425286	99.87763554	99.82460755	99.76687154
ADV1012345	1/15/2025	5.008	1/15/2030	100.157173	100.0993119	100.0237855	100.0206591	100.0175368	100.0144188	99.98745195	99.87235347	99.77696175
ADV1012406	1/16/2025	4.933	7/17/2028	100.1013741	100.0250059	100.0218587	100.0187136	100.0155705	100.013447	99.96142401	99.87896585	99.80225357
ADV1012477	1/21/2025	4.989	10/22/2029	100.1512175	100.0890634	100.0287083	100.0254644	100.0222107	100.0215968	99.96528864	99.84998081	99.75713029
ADV1012485	1/21/2025	4.913	1/20/2028	100.0664555	100.0278701	100.0246448	100.0214101	100.0181655	100.0152071	99.9764138	99.91365103	99.85210216
ADV1012596	1/23/2025	4.932	4/24/2028	100.0965903	100.0318383	100.0285378	100.025216	100.0218724	100.0185075	99.9847034	99.9096989	99.83677479
ADV1012358	1/15/2025	4.838	1/15/2027	100.0231806	99.99553834	99.98469439	99.9912381	99.98919644	99.97899251	99.95791378	99.92386843	99.89312574
ADV1012344	1/15/2025	5.008	1/15/2030	100.157173	100.0993119	100.0237855	100.0206591	100.0175368	100.0144188	99.98745195	99.87235347	99.77696175

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012368	1/15/2025	5.008	1/15/2030	100.157173	100.0993119	100.0237855	100.0206591	100.0175368	100.0144188	99.98745195	99.87235347	99.77696175
ADV1012475	1/21/2025	4.86	4/20/2027	100.0281463	100.0176673	99.99886874	99.9999128	99.98717449	99.96397798	99.92884033	99.88207124	99.82913798
ADV1012474	1/21/2025	4.837	1/20/2027	100.0268702	99.99350114	99.98085895	99.98733518	99.98531909	99.97483081	99.95364147	99.92005296	99.88881537
ADV1012364	1/15/2025	4.9	10/15/2027	100.0257606	100.0226341	100.0195127	100.0163956	100.0132825	100.0052503	99.96543544	99.90450965	99.84632516
ADV1012480	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012348	1/15/2025	5.008	1/15/2030	100.157173	100.0993119	100.0237855	100.0206591	100.0175368	100.0144188	99.98745195	99.87235347	99.77696175
ADV1012554	1/22/2025	4.966	1/22/2029	100.096768	100.0906935	100.0275709	100.0243288	100.021077	100.0178157	99.99364072	99.90586194	99.82600797
ADV1012353	1/15/2025	4.765	4/15/2026	100.0201428	99.99270028	99.9887379	99.98196966	99.97304197	99.96199228	99.94883987	99.93476702	99.91776073
ADV1012363	1/15/2025	4.969	4/16/2029	100.1228183	100.0865692	100.0223696	100.0192452	100.0161249	100.013009	99.96633153	99.86116722	99.77275516
ADV1012502	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012367	1/15/2025	4.862	4/15/2027	100.0241793	100.019146	100.0033517	100.0060342	99.99249642	99.96981664	99.93523939	99.88847344	99.83561951
ADV1012560	1/22/2025	5.004	1/22/2030	100.1560984	100.0916465	100.0316679	100.0283638	100.0250424	100.0226602	99.97263272	99.85638981	99.75974603
ADV1012218	1/10/2025	5.011	7/10/2029	100.0983944	100.0210922	100.018075	100.0150683	100.0120721	100.0090862	100.0061108	99.95577351	99.86189792
ADV1012346	1/15/2025	5.008	1/15/2030	100.157173	100.0993119	100.0237855	100.0206591	100.0175368	100.0144188	99.98745195	99.87235347	99.77696175
ADV1012447	1/17/2025	4.835	1/19/2027	100.0245516	99.99065291	99.97840143	99.98487282	99.98292717	99.9725963	99.95160131	99.91806232	99.88964211
ADV1012482	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012559	1/22/2025	4.899	10/22/2027	100.0321148	100.0317791	100.0222046	100.022292	100.0189837	100.0019954	99.9628362	99.90183708	99.84428943
ADV1012594	1/23/2025	4.885	7/23/2027	100.0321199	100.0266282	100.0159866	100.0210041	100.0123415	99.98759221	99.9489185	99.89303005	99.83480055
ADV1012473	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012476	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012357	1/15/2025	4.812	10/15/2026	100.0220986	99.99247071	99.98162161	99.98580843	99.98755611	99.98166307	99.96868232	99.94800976	99.93127173
ADV1012640	1/24/2025	5.004	1/24/2030	100.1578758	100.0920104	100.048364	100.0305808	100.0271978	100.02214	99.97148402	99.85594685	99.75858789
ADV1012557	1/22/2025	4.954	10/20/2028	100.0859954	100.0301393	100.0269084	100.023668	100.0204178	100.0171582	99.98783898	99.90370238	99.8248869
ADV1012352	1/15/2025	4.917	1/18/2028	100.0783506	100.0233398	100.0202166	100.0170976	100.0139828	100.0108723	99.98513782	99.92287678	99.86124167
ADV1012370	1/15/2025	4.93	4/17/2028	100.0952818	100.0238794	100.0207548	100.0176345	100.0145183	100.0114065	99.98299035	99.90847254	99.83567543
ADV1012362	1/15/2025	4.953	10/16/2028	100.1084215	100.0248341	100.0217071	100.0185844	100.0154658	100.0123515	99.98655815	99.90114314	99.82217246
ADV1012366	1/15/2025	5.008	1/15/2030	100.157173	100.0993119	100.0237855	100.0206591	100.0175368	100.0144188	99.98745195	99.87235347	99.77696175
ADV1012492	1/21/2025	4.804	10/20/2026	100.0250391	99.98080816	99.97065481	99.97552367	99.9756536	99.96919538	99.95609615	99.93279811	99.91368042
ADV1012491	1/21/2025	4.783	7/20/2026	100.0238739	99.98660493	99.97268721	99.96988666	99.96592885	99.95918339	99.94683052	99.93002911	99.91313921
ADV1012558	1/22/2025	4.954	10/20/2028	100.0859954	100.0301393	100.0269084	100.023668	100.0204178	100.0171582	99.98783898	99.90370238	99.8248869
ADV1012479	1/21/2025	4.897	10/20/2027	100.0301993	100.030599	100.0193186	100.0205289	100.0172866	99.99853724	99.95924249	99.89832182	99.8404055
ADV1012478	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012342	1/15/2025	4.942	7/17/2028	100.1024997	100.0243775	100.0212517	100.0181301	100.0150127	100.0118996	99.9827537	99.90127315	99.82398587

Classification | Public

	Parallel-Shift Sensitivity Analysis											
6/30/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012553	1/22/2025	4.954	10/20/2028	100.0859954	100.0301393	100.0269084	100.023668	100.0204178	100.0171582	99.98783898	99.90370238	99.8248869
ADV1012671	1/27/2025	4.848	7/26/2027	100.0385036	99.98096783	99.95102634	99.94885454	99.93781333	99.91425286	99.87763554	99.82460755	99.76687154
ADV1012563	1/22/2025	5.004	1/22/2030	100.1560984	100.0916465	100.0316679	100.0283638	100.0250424	100.0226602	99.97263272	99.85638981	99.75974603
ADV1012147	1/7/2025	5.003	10/29/2029	100.1596927	100.1113019	100.0528908	100.0340173	100.0305468	100.027035	100.002213	99.89532011	99.80034562
ADV1012663	1/27/2025	4.89	4/25/2028	100.0938394	100.0065394	99.97190722	99.98070306	99.96951665	99.93858498	99.88668851	99.81004541	99.73633234
ADV1012489	1/21/2025	4.897	10/20/2027	100.0301993	100.030599	100.0193186	100.0205289	100.0172866	99.99853724	99.95924249	99.89832182	99.8404055
ADV1012472	1/21/2025	4.952	10/20/2028	100.1074345	100.0300286	100.026798	100.0235578	100.0203079	100.0170486	99.98374231	99.89800607	99.81984592
ADV1012445	1/17/2025	4.984	1/17/2030	100.1540399	100.0377995	100.0012824	100.0228104	100.0245998	99.98193682	99.90652258	99.78988481	99.69533266
ADV1012471	1/21/2025	4.991	10/22/2029	100.1514581	100.0934053	100.0288187	100.0255745	100.0223206	100.0234238	99.97183686	99.85676852	99.76280027
ADV1012556	1/22/2025	4.966	1/22/2029	100.096768	100.0906935	100.0275709	100.0243288	100.021077	100.0178157	99.99364072	99.90586194	99.82600797
ADV1013290	2/20/2025	4.927	1/15/2030	100.1648969	99.88851901	99.79303429	99.80414777	99.79955517	99.76533126	99.6992762	99.58777175	99.4939365
ADV1013288	2/20/2025	4.927	1/22/2030	100.1687702	99.89087102	99.78980316	99.79991247	99.79487292	99.76034591	99.69726732	99.58215826	99.48901012
ADV1013289	2/20/2025	4.917	7/16/2029	100.1640828	99.94789806	99.87286459	99.88350606	99.87146971	99.83167371	99.75930712	99.660271	99.56483057
ADV1013162	2/14/2025	4.943	2/14/2030	100.150721	99.92910207	99.85224321	99.85187917	99.84277879	99.80315962	99.72553799	99.61348322	99.51473734
ADV1013251	2/19/2025	4.948	2/19/2030	100.1620685	99.9440866	99.8694648	99.87127491	99.86408996	99.81658615	99.73696087	99.62463915	99.52548672
ADV1014605	4/15/2025	5.041	1/15/2030	100.2101572	100.1736576	100.1341175	100.1288705	100.1238831	100.1096686	100.0762586	99.98131794	99.89214273
ADV1014597	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014821	4/23/2025	5.061	4/22/2030	100.2154495	100.1920633	100.1477491	100.1378602	100.1333466	100.1182766	100.0804317	99.97942375	99.87546421
ADV1014712	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014611	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014736	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014466	4/8/2025	4.981	8/15/2028	100.1974207	100.1500268	100.1365958	100.1276965	100.1208231	100.101465	100.0620094	99.98313847	99.91188688
ADV1014608	4/15/2025	5.031	10/15/2029	100.2081799	100.1748553	100.1334951	100.1266179	100.1214896	100.1062514	100.0773302	99.98391767	99.89649515
ADV1014733	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1013687	3/6/2025	4.859	2/15/2028	100.1329983	99.95260862	99.91074234	99.91808208	99.91040746	99.88744139	99.84261382	99.77993332	99.71497668
ADV1014720	4/21/2025	5.046	7/20/2029	100.1898991	100.1807502	100.1407877	100.1353864	100.1298753	100.1226162	100.1036167	100.0465519	99.96559459
ADV1014728	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014710	4/21/2025	4.979	4/20/2028	100.149479	100.1554444	100.1200959	100.1147561	100.1086381	100.0979402	100.0757471	100.0093969	99.94399713
ADV1014730	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014739	4/21/2025	5.047	4/20/2029	100.1944565	100.1772545	100.1410966	100.1356944	100.1297292	100.1225755	100.1071886	100.063238	99.99138347
ADV1014740	4/21/2025	5.047	4/20/2029	100.1944565	100.1772545	100.1410966	100.1356944	100.1297292	100.1225755	100.1071886	100.063238	99.99138347
ADV1014484	4/9/2025	5.099	4/17/2028	100.2000152	100.1589929	100.1544079	100.1490356	100.1428885	100.1359811	100.1283182	100.1199239	100.1088834
ADV1014820	4/23/2025	4.956	4/24/2028	100.169656	100.1284064	100.1130929	100.1091941	100.102878	100.0811342	100.0373399	99.96152281	99.88948353

Classification | Public

Parallel-Shift Sensitivity Analysis

6/30/2025

				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014819	4/23/2025	4.928	10/25/2027	100.1330762	100.0952906	100.0844643	100.0928869	100.0874985	100.0590416	100.0194664	99.95760449	99.89948952
ADV1014738	4/21/2025	5.086	1/22/2030	100.230182	100.1945879	100.1516554	100.1462367	100.1414775	100.133072	100.1201203	100.0897593	100.0252651
ADV1014612	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014869	4/24/2025	4.891	5/7/2027	100.1230043	100.0577892	100.0475885	100.0500901	100.0373347	100.0121787	99.97427177	99.9215725	99.86741832
ADV1014607	4/15/2025	5.031	10/15/2029	100.2081799	100.1748553	100.1334951	100.1266179	100.1214896	100.1062514	100.0773302	99.98391767	99.89649515
ADV1014735	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014609	4/15/2025	4.974	7/17/2028	100.1809308	100.1415038	100.1164644	100.1104382	100.1046486	100.0880827	100.0542391	99.97482781	99.90327649
ADV1014771	4/22/2025	5.09	4/22/2030	100.220044	100.2064952	100.1538673	100.1485076	100.1434431	100.1366004	100.1145706	100.0610885	99.97239751
ADV1014734	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014721	4/21/2025	5.046	7/20/2029	100.1898991	100.1807502	100.1407877	100.1353864	100.1298753	100.1226162	100.1036167	100.0465519	99.96559459
ADV1013887	3/14/2025	4.933	10/15/2029	100.1672422	99.94876919	99.87499946	99.89216772	99.8844345	99.84470549	99.77030565	99.66552792	99.57032565
ADV1014729	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014709	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014598	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014707	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1013957	3/18/2025	4.898	10/17/2028	100.1548989	99.96876324	99.91350934	99.92601638	99.91829764	99.89000687	99.84111233	99.75496093	99.67585336
ADV1014724	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014726	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014610	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014708	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014737	4/21/2025	5.072	1/22/2030	100.2287533	100.2055984	100.148157	100.1428345	100.1376816	100.1307197	100.1108674	100.0632456	99.98509979
ADV1014601	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014711	4/21/2025	4.965	1/20/2028	100.1418036	100.1382297	100.1162829	100.1104453	100.1043401	100.0933924	100.0707193	100.0127651	99.95755206
ADV1014599	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014714	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014602	4/15/2025	5.05	4/15/2030	100.204175	100.1745122	100.1376863	100.1308208	100.1260553	100.1032406	100.0578759	99.94768787	99.83933701
ADV1014727	4/21/2025	5.072	1/22/2030	100.2285647	100.2055582	100.1473318	100.1419258	100.1371875	100.1303305	100.110592	100.0632175	99.98509222
ADV1014604	4/15/2025	4.944	1/18/2028	100.1445379	100.1116255	100.09839	100.101486	100.0959347	100.0755945	100.0389758	99.97422235	99.91601835
ADV1014032	3/21/2025	4.929	4/20/2029	100.1729549	99.99896638	99.94687245	99.9616717	99.94867473	99.92269125	99.83654537	99.73898465	99.64942327
ADV1014716	4/21/2025	5.031	4/20/2029	100.1864748	100.1705703	100.1361552	100.1307677	100.1250999	100.1171757	100.0963968	100.0301503	99.94980024
ADV1015945	5/28/2025	5.04	5/24/2030	100.2452803	100.1496112	100.1436825	100.1527465	100.1357494	100.0834744	100.0060705	99.88240828	99.77355407
ADV1016174	6/4/2025	4.931	7/3/2028	100.2040747	100.0472316	100.027912	100.0396198	100.0305079	99.99499431	99.93553714	99.85254489	99.77657249
ADV1016465	6/16/2025	4.922	7/3/2028	100.1997381	100.0279551	100.0041256	100.015566	100.0060191	99.97159406	99.91221921	99.83225641	99.75396499

Classification | Public

	Parallel-Shift Sensitivity Analysis												
6/30/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015924	5/28/2025	5.04	5/28/2030	100.232657	100.1539373	100.1408815	100.147819	100.13383	100.0809813	100.0054133	99.88077118	99.77239565
ADV1016172	6/4/2025	4.931	7/3/2028	100.2040747	100.0472316	100.027912	100.0396198	100.0305079	99.99499431	99.93553714	99.85254489	99.77657249
ADV1015174	5/2/2025	4.963	6/1/2028	100.1924023	100.1333513	100.1242839	100.1270123	100.1200163	100.087432	100.0420947	99.96233946	99.8882758
ADV1016175	6/4/2025	4.931	7/3/2028	100.2040747	100.0472316	100.027912	100.0396198	100.0305079	99.99499431	99.93553714	99.85254489	99.77657249
ADV1015757	5/22/2025	4.942	6/1/2028	100.1804575	100.0962822	100.0880572	100.0993605	100.091448	100.050772	99.99863041	99.91478657	99.83810538

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