

Federal Home Loan Bank of Des Moines Monthly Price Report

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

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

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

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

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
060308A00014	3/8/2006	5.44	3/16/2026	101.61941	101.3230859	101.0285101	100.7356622	100.4445271	100.1550895	99.86733466	99.58124769	99.29681406
060808A00022	8/8/2006	5.57	6/15/2026	103.10181	102.547856	101.9998784	101.457783	100.9214754	100.3908627	99.86585452	99.34636198	98.83229827
070518A00023	5/18/2007	5.46	5/18/2027	105.68295	104.6673492	103.6689446	102.6873059	101.7220213	100.7726926	99.83893469	98.92037488	98.01665258
110505A00022	5/5/2011	4.59	5/15/2026	102.15819	101.6935103	101.233074	100.7768232	100.3247008	99.87665079	99.43261811	98.99254872	98.55638951
110701A00011	7/1/2011	3.87	7/1/2026	101.46166	101.0893419	100.7203746	100.3547039	99.99228122	99.63305904	99.27699082	98.92403096	98.57413478
110719A00017	7/19/2011	3.68	7/20/2026	101.41496	101.0365426	100.6616239	100.2901503	99.92206919	99.55732908	99.1958796	98.83767146	98.48265639
110805A00014	8/5/2011	4.06	8/17/2026	103.01185	102.2822791	101.5630638	100.8539849	100.1548289	99.4653882	98.7854609	98.11485073	97.45336677
110824A00006	8/24/2011	2.69	8/24/2026	102.14255	101.3844301	100.6374147	99.90126082	99.17573315	98.46060299	97.75564824	97.06065304	96.37540763
110909A00006	9/9/2011	2.26	9/9/2026	101.08055	100.6201731	100.1650361	99.71504365	99.27009942	98.83010941	98.39498212	97.96462844	97.53896152
111007A00007	10/7/2011	3.92	10/7/2031	120.70819	115.172457	109.9496069	105.0197947	100.3645499	95.96667268	91.81014041	87.8800203	84.16238966
111216A00001	12/16/2011	3.95	12/30/2031	125.0877	118.4015485	112.1258177	106.2330125	100.6976254	95.49598108	90.60609578	86.0075473	81.68135626
120113A00012	1/13/2012	3.62	1/15/2027	104.39077	103.2308763	102.0967933	100.9876638	99.90267001	98.84102938	97.80199302	96.78484373	95.78889442
120113A00013	1/13/2012	3.87	1/15/2032	124.7259	118.005222	111.6997895	105.7816136	100.2247386	95.00508537	90.10030578	85.48964914	81.15383979
120127A00018	1/27/2012	3.64	2/1/2027	104.61957	103.4101971	102.2288081	101.0744392	99.94617061	98.84312396	97.76445981	96.70937566	95.6771039
120127A00019	1/27/2012	3.87	1/30/2032	124.85277	118.0855525	111.7387841	105.7839632	100.1946759	94.94642912	90.01650055	85.38380115	81.02874923
120410A00005	4/10/2012	2.35	4/12/2027	102.41634	101.5040829	100.6061813	99.72230646	98.85213578	97.99535656	97.15166573	96.32076942	95.50238262
120411A00013	4/11/2012	3.59	4/15/2027	105.40648	104.0022938	102.6236771	101.2699907	99.94061561	98.63495273	97.35242227	96.09246294	94.8545312
120621A00009	6/21/2012	3.18	6/21/2032	116.20257	111.0007381	106.107531	101.5020452	97.16493431	93.07828065	89.22548104	85.59114263	82.16098749
120709A00016	7/9/2012	3.2	7/15/2027	105.79658	104.1366275	102.5109931	100.9186786	99.35872459	97.83020854	96.33224291	94.86397345	93.42457763
120806A00015	8/6/2012	2.38	8/6/2027	102.43413	101.4991569	100.581467	99.68056831	98.79599227	97.92728823	97.07402256	96.23577777	95.41215181
120807A00026	8/7/2012	2.42	8/9/2027	102.4721	101.5366528	100.6184979	99.71714488	98.8321249	97.96298692	97.10929697	96.27063725	95.44660538
120808A00006	8/8/2012	2.06	8/9/2027	102.19995	101.2660343	100.3493976	99.44955157	98.56602733	97.69837373	96.84615671	96.00895845	95.18637653
120827A00048	8/27/2012	2.01	8/27/2027	102.9607	101.6960314	100.4562647	99.24068251	98.04859339	96.87933288	95.73226213	94.60676665	93.50225505
120827A00052	8/27/2012	2.01	8/27/2027	102.9607	101.6960314	100.4562647	99.24068251	98.04859339	96.87933288	95.73226213	94.60676665	93.50225505
121116A00022	11/16/2012	2.78	11/16/2029	112.74096	108.5779225	104.5930965	100.7779121	97.12425629	93.62444716	90.27120872	87.05764723	83.97722907
121120A00010	11/20/2012	1.93	11/22/2027	103.44781	101.922435	100.4318638	98.97504185	97.55095751	96.15863731	94.79714403	93.46557514	92.1630612
121120A00011	11/20/2012	2.22	11/22/2027	105.06004	103.1024414	101.1929974	99.3301985	97.51259047	95.7387754	94.00740907	92.31719846	90.66689935
121217A00009	12/17/2012	2.02	12/17/2027	102.61319	101.5100563	100.4325041	99.37972812	98.35095149	97.34542816	96.36244143	95.40130251	94.46134926
130107A00002	1/7/2013	3.22	1/18/2028	107.71958	105.5227823	103.3820814	101.2956451	99.26172072	97.27862606	95.34474645	93.45853119	91.61849051
130206A00004	2/6/2013	2.14	2/7/2028	103.12495	101.8642253	100.6317052	99.42648312	98.24768698	97.09448167	95.96606691	94.86167549	93.78057151
130206A00009	2/6/2013	2.83	2/7/2028	106.28359	104.2766158	102.3213916	100.4162001	98.55939219	96.74938673	94.98466743	93.26377948	91.58532651
130211A00017	2/11/2013	3.27	2/15/2028	108.12034	105.8391796	103.6178253	101.4542663	99.3465781	97.29291669	95.29151474	93.34067761	91.43877962
130405A00007	4/5/2013	2.91	4/17/2028	108.05749	105.5987315	103.2086307	100.884888	98.62529618	96.42773417	94.29016364	92.21062507	90.18723422

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11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
130424A00005	4/24/2013	3.07	4/24/2030	115.36668	110.6919503	106.2355744	101.9862138	97.93317885	94.06638646	90.3763226	86.85400721	83.4909616
130531A00021	5/31/2013	3.22	5/30/2028	109.24096	106.647483	104.1296719	101.684875	99.3105511	97.00426368	94.76367574	92.58654511	90.47071994
130913A00018	9/13/2013	3.72	9/13/2028	107.45918	105.5382527	103.6679442	101.8465479	100.072425	98.34400414	96.65977744	95.01829792	93.41817638
130926A00009	9/26/2013	4	10/2/2028	112.7607	109.7647245	106.8649248	104.057702	101.339611	98.70735347	96.15777126	93.68783938	91.29465973
131217A00024	12/17/2013	4.34	1/2/2029	114.70148	111.4195853	108.2506887	105.1902307	102.2338683	99.37746013	96.61705505	93.94888275	91.36934394
140219A00005	2/19/2014	3.13	2/20/2029	106.04395	104.2916497	102.5864691	100.9267557	99.31092571	97.73746275	96.20491478	94.71189075	93.25705754
140423A00036	4/23/2014	4.03	4/23/2029	115.06499	111.4536919	107.9770666	104.6293723	101.4051435	98.29917606	95.30651302	92.42243154	89.64243056
140521A00019	5/21/2014	3.43	5/22/2028	109.69133	107.11427	104.6117361	102.1811422	99.8200061	97.52594653	95.29667878	93.13001002	91.02383498
140626A00036	6/26/2014	3.55	6/26/2029	114.34671	110.5580479	106.917321	103.4179221	100.0535775	96.81832854	93.70651433	90.71275464	87.83193444
140717A00027	7/17/2014	3.14	7/17/2026	102.27131	101.5677209	100.8740039	100.1899532	99.5153661	98.85004593	98.19380123	97.54644586	96.90779876
140815A00032	8/15/2014	3.59	10/15/2029	115.38691	111.2705217	107.325894	103.5449651	99.92008943	96.44401819	93.10987664	89.91114279	86.84162756
140911A00033	9/11/2014	3.02	9/13/2027	105.42329	103.7600624	102.1335331	100.5426648	98.98645513	97.46393615	95.97417335	94.51626408	93.08933634
140917A00030	9/17/2014	3.23	9/17/2029	112.31677	108.7815784	105.3877729	102.1288468	98.99862621	95.99125472	93.10117493	90.3231117	87.65205624
140924A00057	9/24/2014	3.25	9/25/2028	110.15656	107.3090717	104.5534541	101.8862253	99.30405186	96.80374508	94.3822542	92.03665943	89.76416558
141117A00011	11/17/2014	3.81	11/17/2034	132.42699	122.4451011	113.3225972	104.9802593	97.34657295	90.35694485	83.95300049	78.08195565	72.69605453
150203A00027	2/3/2015	2.26	2/4/2030	105.90675	103.6400738	101.4483652	99.32851275	97.27756099	95.29269818	93.37124821	91.51066305	89.70851572
150319A00012	3/19/2015	3.13	3/19/2029	111.61997	108.1671915	104.8404155	101.6343422	98.5439279	95.56436937	92.69109075	89.91973151	87.24613491
150319A00013	3/19/2015	3.25	3/19/2030	115.51005	110.9449715	106.5884449	102.4298255	98.45906697	94.66668737	91.04373428	87.58175225	84.27275246
150427A00014	4/27/2015	2.98	4/27/2035	115.16482	109.8644541	104.9091812	100.2726307	95.93067477	91.86121942	88.04401824	84.46050458	81.09364
150601A00261	6/1/2015	3.19	2/11/2033	113.02966	109.0080818	105.1950686	101.5777325	98.14408004	94.88294799	91.78393968	88.83736722	86.03419826
150601A00270	6/1/2015	3.12	3/21/2031	109.59619	106.7079485	103.9349525	101.2715787	98.71252376	96.25278061	93.88761987	91.61257254	89.42341386
150601A00396	6/1/2015	3.61	1/3/2029	106.22336	104.5820585	102.9837189	101.4268628	99.91007409	98.43199641	96.99132967	95.58682749	94.21729454
150601A00405	6/1/2015	4.63	1/17/2034	136.44464	127.1742069	118.6313641	110.7545123	103.4875913	96.7795571	90.5839075	84.85825542	79.56394416
150601A00411	6/1/2015	3.38	1/24/2029	105.86325	104.2244047	102.6285317	101.0741472	99.55983241	98.08422841	96.64603282	95.24399719	93.87692428
150601A00426	6/1/2015	3.37	2/21/2029	106.00319	104.3202785	102.6823232	101.0877524	99.53505999	98.02280402	96.54960352	95.1141354	93.71513156
150601A00440	6/1/2015	3.27	3/16/2029	105.9899	104.26509	102.5872029	100.9545742	99.36561101	97.81878892	96.31264867	94.84579275	93.41688235
150601A00450	6/1/2015	3.28	4/27/2029	106.1611	104.3909054	102.6697905	100.9959908	99.36781802	97.78365709	96.24196244	94.74125449	93.28011629
150601A00460	6/1/2015	3.05	5/16/2029	105.90572	104.0968604	102.3390583	100.6304537	98.96926714	97.3537971	95.78241596	94.2535663	92.76575727
150601A00475	6/1/2015	3.04	6/1/2029	105.89141	104.081669	102.3230634	100.6137246	98.95186854	97.33578924	95.76385508	94.23450485	92.74624417
150601A00477	6/1/2015	3.21	6/1/2029	106.44522	104.5916775	102.7908912	101.0409276	99.33993856	97.68615709	96.07789333	94.51353056	92.99152151
150601A00506	6/1/2015	3.14	7/6/2029	106.35255	104.4536814	102.6102979	100.8203214	99.08176527	97.39273193	95.75140807	94.15606035	92.60503127
150601A00512	6/1/2015	3.79	7/16/2029	114.96961	111.1200995	107.4224563	103.8698141	100.4556633	97.17382599	94.01843689	90.9839254	88.06499899
150601A00523	6/1/2015	4.55	7/25/2031	126.7533	120.478122	114.5629141	108.9849744	103.7231535	98.75774273	94.07036872	89.64389529	85.46233355

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
150601A00528	6/1/2015	3.08	7/27/2029	106.24626	104.347421	102.5041284	100.7143002	98.97594476	97.28716011	95.64612877	94.05111357	92.50045348
150601A00559	6/1/2015	3.06	8/31/2029	106.35181	104.4088138	102.5236498	100.694117	98.91811282	97.19363002	95.51875203	93.89164798	92.31056828
150601A00664	6/1/2015	3.78	1/16/2032	123.8353	117.1388821	110.85683	104.9611892	99.42603562	94.22732097	89.34272688	84.75153159	80.43448739
150601A00665	6/1/2015	3.82	1/14/2033	127.00722	119.161413	111.8688077	105.0872305	98.77794265	92.90534268	87.43669666	82.34189269	77.59321776
150601A00666	6/1/2015	3.88	1/16/2035	132.98122	122.8063413	113.5208478	105.0415114	97.29332553	90.20865288	83.72646558	77.79166705	72.35448671
150601A00667	6/1/2015	3.88	1/16/2036	135.46618	124.1451201	113.9067096	104.6404412	96.24766638	88.64026631	81.73947714	75.47485139	69.78333971
150601A00668	6/1/2015	3.89	1/16/2037	137.60721	125.1611375	114.0060526	103.9993469	95.01492538	86.94121221	79.67940926	73.14197081	67.25126775
150601A00736	6/1/2015	2.87	5/1/2030	107.05255	104.7590381	102.5431689	100.4016518	98.33136094	96.3293253	94.39271986	92.51885736	90.70518063
150601A00851	6/1/2015	7.12	4/30/2027	105.34601	104.5898741	103.8468943	103.1167076	102.3989623	101.6933203	100.9994562	100.3170568	99.64582035
150601A00864	6/1/2015	7.37	3/31/2028	109.32721	108.0471057	106.7945302	105.5686568	104.368688	103.1938573	102.0434275	100.9166893	99.81296021
150601A00868	6/1/2015	7.08	6/5/2028	109.95769	108.5370762	107.1489872	105.792408	104.4663627	103.1699138	101.9021606	100.6622366	99.4493088
150601A00871	6/1/2015	6.74	7/31/2028	109.82507	108.3589632	106.9272044	105.5286977	104.162395	102.8272901	101.5224165	100.2468454	98.99968419
150601A00872	6/1/2015	7.42	7/31/2028	110.79837	109.3186228	107.8735359	106.4620107	105.0829892	103.7354559	102.4184354	101.1309901	99.87221924
150601A00875	6/1/2015	7.14	9/29/2028	111.07728	109.5028378	107.9668084	106.4679386	105.0050237	103.576908	102.1824822	100.8206814	99.49048269
150601A00883	6/1/2015	6.21	11/30/2028	110.25645	108.6039658	106.9934685	105.4235467	103.8928477	102.4000745	100.9439831	99.52338004	98.13711991
150601A00888	6/1/2015	5.92	3/1/2029	110.64083	108.8466853	107.1008509	105.4016235	103.7473774	102.1365565	100.5676708	99.0392928	97.55005466
150601A00889	6/1/2015	6.55	3/2/2029	112.04557	110.1841538	108.3737051	106.6124112	104.8985348	103.230414	101.606458	100.0251436	98.48501199
150601A00893	6/1/2015	6.49	4/6/2029	112.25085	110.3397414	108.4819573	106.6755717	104.9187454	103.2097195	101.5468106	99.92840719	98.35296626
150601A00897	6/1/2015	6.15	5/28/2029	111.92612	109.9735885	108.0766143	106.2331654	104.4412957	102.6991449	101.0049337	99.35695998	97.75359444
150601A00899	6/1/2015	7.07	6/14/2029	113.28026	111.3373548	109.4498318	107.615649	105.8328575	104.0995947	102.4140795	100.7746084	99.17955116
150601A00905	6/1/2015	6.14	10/29/2029	113.38519	111.1752697	109.033935	106.9584938	104.9463762	102.9951316	101.1024224	99.26601829	97.48379003
150601A00906	6/1/2015	6.2	11/1/2029	113.5147	111.3019844	109.1579522	107.0799061	105.0652718	103.111595	101.2165344	99.3778562	97.5934279
150601A00912	6/1/2015	5.96	11/30/2029	113.28848	111.0343039	108.8512733	106.7365562	104.6874509	102.7013826	100.7758968	98.9086525	97.09741631
150601A00916	6/1/2015	7.27	4/5/2030	133.04481	128.0484141	123.2776999	118.7212099	114.3681304	110.2082502	106.2319241	102.4300383	98.79397859
150601A00927	6/1/2015	6.08	8/7/2030	115.4197	112.8169277	110.3067516	107.8850624	105.5479673	103.2917742	101.1129802	99.00825992	96.97445592
150601A00928	6/1/2015	5.94	8/21/2030	115.08895	112.4908	109.9851586	107.5679159	105.23518	102.9832598	100.8086533	98.70803643	96.67825299
150601A00929	6/1/2015	5.91	8/30/2030	115.74549	113.0181688	110.389722	107.8557126	105.4119385	103.0544155	100.7793654	98.58320315	96.46252592
150601A00935	6/1/2015	6.46	11/21/2030	118.13295	115.2049474	112.3876592	109.6759367	107.0649095	104.5499681	102.1267482	99.79111554	97.53915281
150601A00939	6/1/2015	5.79	1/17/2031	116.8189	113.8300665	110.9573603	108.1952497	105.5385088	102.9821975	100.5216443	98.15242907	95.87036858
150601A00943	6/1/2015	6.44	5/9/2031	119.9365	116.6728519	113.5428045	110.5396918	107.6572339	104.8895088	102.2309292	99.67622139	97.22040542
150601A00948	6/1/2015	6.04	10/22/2031	118.75147	115.4616769	112.3117534	109.2944338	106.4028848	103.630678	100.9717634	98.42044407	95.97135336
150601A01024	6/1/2015	5.33	2/27/2026	101.31071	101.0622007	100.8149087	100.5688259	100.3239433	100.0802524	99.83774431	99.59641056	99.35624263
150601A01041	6/1/2015	5.99	10/2/2036	136.20431	129.0046228	122.3396528	116.1631352	110.4332272	105.1120518	100.1652918	95.56182907	91.2734213

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
150603A00012	6/3/2015	2.77	6/3/2030	107.62457	105.1463731	102.7553241	100.4476154	98.21963704	96.06796226	93.98933676	91.98066886	90.03902019
150604A00039	6/4/2015	2.82	6/4/2030	107.74907	105.26796	102.8740969	100.5636747	98.33307911	96.17887901	94.09781608	92.08679478	90.14287313
150610A00008	6/10/2015	3.58	6/10/2030	118.13512	113.2641976	108.6260398	104.2082607	99.99919779	95.98786827	92.16392575	88.51761984	85.03975866
150714A00003	7/14/2015	3.76	7/12/2030	110.28872	107.7039045	105.2113638	102.8070133	100.4869822	98.24759839	96.08537688	93.99700877	91.97935123
150721A00027	7/21/2015	3.74	7/22/2030	118.95887	113.9585403	109.201607	104.674864	100.3658971	96.26303113	92.35528178	88.63231062	85.08438347
150803A00033	8/3/2015	3.41	8/2/2030	115.29469	110.8821853	106.6796847	102.6758272	98.85993972	95.22198799	91.75253468	88.4427	85.28412534
150803A00036	8/3/2015	3.41	8/2/2030	115.29469	110.8821853	106.6796847	102.6758272	98.85993972	95.22198799	91.75253468	88.4427	85.28412534
150803A00037	8/3/2015	3.41	8/2/2030	115.29469	110.8821853	106.6796847	102.6758272	98.85993972	95.22198799	91.75253468	88.4427	85.28412534
150803A00038	8/3/2015	3.41	8/2/2030	115.29469	110.8821853	106.6796847	102.6758272	98.85993972	95.22198799	91.75253468	88.4427	85.28412534
150803A00039	8/3/2015	3.01	8/2/2030	108.20075	105.6269938	103.1462688	100.754412	98.44748099	96.22173743	94.07363525	91.99980932	89.99706496
150803A00041	8/3/2015	3.01	8/2/2030	108.20075	105.6269938	103.1462688	100.754412	98.44748099	96.22173743	94.07363525	91.99980932	89.99706496
150803A00042	8/3/2015	3.01	8/2/2030	108.20075	105.6269938	103.1462688	100.754412	98.44748099	96.22173743	94.07363525	91.99980932	89.99706496
150817A00099	8/17/2015	3.19	8/17/2027	106.11181	104.3588415	102.6434621	100.9645301	99.3209481	97.71166337	96.13566509	94.59198245	93.07968257
150819A00013	8/19/2015	3.51	8/19/2030	118.13124	113.0709181	108.2605772	103.6864589	99.33564251	95.19598829	91.25608567	87.50520503	83.93325299
150826A00038	8/26/2015	2.94	8/26/2026	102.33349	101.5808979	100.8393689	100.1086591	99.38853284	98.67876123	97.97912203	97.28939926	96.60938308
150826A00039	8/26/2015	3.22	8/27/2029	113.74177	109.7895571	105.9976989	102.3587406	98.86562579	95.51166882	92.29053291	89.19620941	86.2229986
151030A00026	10/30/2015	3.29	10/30/2030	115.58571	110.969134	106.5820666	102.4116359	98.44576647	94.67312447	91.08306801	87.66560109	84.41133087
151106A00011	11/6/2015	3.1	1/15/2026	100.38717	100.2594265	100.1320195	100.004952	99.87822235	99.75182933	99.62577153	99.50004756	99.37465607
151120A00019	11/20/2015	2.72	11/20/2030	108.16692	105.4563877	102.8482973	100.3378898	97.9206603	95.59234517	93.34890737	91.18652287	89.10156791
151204A00011	12/4/2015	2.28	12/4/2025	100.02525	100.0141334	100.0030265	99.99193024	99.98084465	99.96976971	99.95870538	99.94765165	99.9366085
151209A00024	12/9/2015	2.22	12/9/2025	100.05531	100.0303032	100.0053191	99.98036246	99.95543325	99.93053142	99.90565689	99.88080963	99.85598957
151223A00072	12/23/2015	2.81	12/23/2025	100.1798	100.1158653	100.0520231	99.98827589	99.92462334	99.86106528	99.79760148	99.73423175	99.67095586
151223A00074	12/23/2015	3.01	12/23/2027	107.17117	105.0488951	102.9796308	100.961699	98.99348702	97.07344508	95.20008326	93.37196873	91.58772309
151223A00077	12/23/2015	3.57	12/24/2035	133.53104	122.3263332	112.1918869	103.0187406	94.70958956	87.17748247	80.34467043	74.14158897	68.50595745
151223A00078	12/23/2015	2.28	12/23/2025	100.14519	100.0812841	100.0174701	99.95375092	99.89012642	99.82659636	99.76316053	99.69981872	99.63657071
151228A00013	12/28/2015	2.27	12/29/2025	100.17598	100.0981829	100.0205131	99.94296958	99.86555194	99.78825991	99.71109319	99.63405147	99.55713445
151229A00026	12/29/2015	2.28	12/29/2025	100.18307	100.1024954	100.0220545	99.9417464	99.86157097	99.78152784	99.70161668	99.62183718	99.54218901
151229A00079	12/29/2015	3	12/30/2025	100.24372	100.1603832	100.0771841	99.99412405	99.91120289	99.82842022	99.74577573	99.66326906	99.58089989
151229A00080	12/29/2015	3.49	12/30/2030	119.24737	113.7787399	108.5983749	103.6895075	99.0364336	94.62444135	90.43974276	86.46941093	82.70132158
151229A00081	12/29/2015	3.76	12/31/2035	134.70525	123.4655955	113.2977783	104.092735	95.75306964	88.19174836	81.33094706	75.10103263	69.43966154
160106A00042	1/6/2016	2.43	1/6/2026	100.22381	100.1293833	100.0351442	99.94108805	99.84721428	99.75352235	99.66001172	99.56668185	99.47353219
160115A00011	1/15/2016	2.18	1/15/2026	100.2286	100.1216897	100.0150221	99.90859778	99.80241574	99.69647515	99.59077512	99.48531478	99.38009328
160119A00019	1/19/2016	2.95	1/19/2027	103.66605	102.4993055	101.3588049	100.2436663	99.15305026	98.08615398	97.04220936	96.0204812	95.02026538

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
160119A00025	1/19/2016	3.05	1/19/2028	107.36008	105.1645148	103.0250794	100.9399463	98.90735905	96.9256326	94.99314925	93.10835555	91.2697592
160119A00026	1/19/2016	3.14	1/19/2029	111.07736	107.8053891	104.6478953	101.6001985	98.65783633	95.81655691	93.07230714	90.42122216	87.85961525
160119A00027	1/19/2016	3.25	1/18/2030	114.93252	110.556023	106.3728708	102.373442	98.54865247	94.8899194	91.38913084	88.03861697	84.83112329
160119A00028	1/19/2016	3.34	1/21/2031	118.64921	113.1339348	107.9124929	102.9676178	98.28314938	93.84395923	89.63587951	85.64563635	81.86078866
160119A00029	1/19/2016	3.39	1/20/2032	121.7559	115.1116744	108.8802949	103.0338278	97.54637495	92.39391693	87.55416624	83.00643361	78.73150505
160119A00030	1/19/2016	3.44	1/18/2033	124.67155	116.8966872	109.6723591	102.9564755	96.71038291	90.89856576	85.48837545	80.44978465	75.75516373
160119A00072	1/19/2016	2.77	1/21/2031	108.54119	105.6399494	102.8594935	100.1937182	97.6368738	95.18354232	92.82861603	90.56727748	88.39498098
160126A00004	1/26/2016	2.52	1/26/2026	100.64201	100.3978804	100.1549347	99.91316732	99.67256958	99.43313305	99.19484932	98.95771007	98.72170707
160129A00066	1/29/2016	3.04	1/29/2031	117.52799	112.0061887	106.7804313	101.8332276	97.14821432	92.7100785	88.50448442	84.51800565	80.73806235
160129A00067	1/29/2016	2.53	1/29/2026	100.43379	100.26696	100.100687	99.93496793	99.7698001	99.60518074	99.44110711	99.27757651	99.11458624
160201A00016	2/1/2016	2.1	2/2/2026	100.30231	100.1578474	100.0138342	99.87026677	99.72714305	99.58446085	99.44221806	99.30041256	99.15904225
160209A00006	2/9/2016	1.91	2/9/2026	100.28998	100.1381387	99.98680555	99.83597599	99.68564734	99.53581694	99.38648218	99.23764045	99.08928914
160209A00008	2/9/2016	2.45	2/10/2031	107.58494	104.7627097	102.0514303	99.44575873	96.94065288	94.531349	92.21334445	89.9823816	87.83443277
160210A00042	2/10/2016	2.57	2/10/2026	100.5189	100.3188258	100.1195574	99.92109066	99.72342075	99.5265428	99.330452	99.13514358	98.94061282
160210A00049	2/10/2016	1.78	2/10/2026	100.28244	100.1295843	99.97723931	99.82540688	99.67408429	99.52326878	99.37295765	99.22314818	99.07383771
160210A00051	2/10/2016	2.28	2/10/2031	107.30408	104.4855638	101.7779613	99.17593318	96.67443403	94.26869727	91.95421782	89.72673599	87.58222238
160210A00054	2/10/2016	1.78	2/10/2026	100.28244	100.1295843	99.97723932	99.8254069	99.6740843	99.52326879	99.37295766	99.22314819	99.07383772
160211A00036	2/11/2016	2.41	2/11/2026	100.49396	100.2911456	100.0891631	99.88800466	99.68766516	99.48813958	99.2894229	99.09151017	98.89439645
160211A00038	2/11/2016	1.83	2/11/2026	100.28145	100.1277776	99.9746238	99.82198848	99.66986883	99.51826207	99.36716545	99.21657621	99.06649164
160212A00037	2/12/2016	3.03	2/12/2031	117.19274	111.6499823	106.4061732	101.4435431	96.74547704	92.29643358	88.08186923	84.08816869	80.30258033
160212A00047	2/12/2016	1.94	2/12/2026	100.3003	100.1456689	99.99156943	99.83799614	99.6849461	99.53241647	99.3804044	99.22890709	99.07792175
160222A00005	2/22/2016	2.79	2/22/2028	107.10683	104.8167532	102.5871902	100.4160934	98.30149991	96.24153029	94.23438372	92.27833415	90.37172642
160222A00018	2/22/2016	2.59	2/23/2026	100.62113	100.3848586	100.1496969	99.9156414	99.68268432	99.4508179	99.22003448	98.99032648	98.76168637
160222A00019	2/22/2016	3.09	2/21/2031	117.58799	112.0071314	106.728458	101.7339333	97.00669822	92.5309881	88.29205489	84.27609588	80.47018769
160303A00020	3/3/2016	2.97	3/3/2031	117.42815	111.808063	106.4942139	101.4682276	96.71293561	92.21228827	87.95127547	83.9158534	80.09287679
160303A00035	3/3/2016	2.14	3/3/2026	100.37726	100.2043371	100.032158	99.86071473	99.69000187	99.52001423	99.35074663	99.18219396	99.01435114
160307A00024	3/7/2016	2.17	3/6/2026	100.42744	100.2328137	100.0390474	99.84613241	99.65406264	99.46283215	99.27243504	99.08286546	98.89411764
160307A00027	3/7/2016	2.71	3/6/2026	100.7364	100.469436	100.2038935	99.93976104	99.67702736	99.4156813	99.15571183	98.89710802	98.6398591
160307A00028	3/7/2016	2.91	3/7/2028	107.51003	105.17557	102.903619	100.6920672	98.53888987	96.44214687	94.39997815	92.41059984	90.47230039
160307A00029	3/7/2016	3.21	3/7/2031	118.34366	112.7017244	107.3670129	102.3211084	97.54679894	93.02799236	88.7496369	84.69764813	80.85884143
160328A00038	3/28/2016	2.54	3/30/2026	101.08493	100.6705692	100.2596208	99.85204582	99.44780294	99.0468513	98.6491508	98.25466193	97.86334585
160328A00045	3/28/2016	2.49	3/27/2026	100.85383	100.5281553	100.2045844	99.88309947	99.56368037	99.24630718	98.93096025	98.61762019	98.30626785
160329A00017	3/29/2016	2.48	3/30/2026	101.06007	100.6457843	100.234916	99.82742071	99.42325685	99.02238368	98.62476106	98.23034953	97.83911024

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
160330A00054	3/30/2016	2.9	3/31/2031	117.2445	111.5508408	106.171474	101.0874272	96.28096901	91.73551979	87.43557077	83.36660996	79.51505326
160404A00019	4/4/2016	2.48	4/4/2031	107.89855	104.9814434	102.1820355	99.49453344	96.91347196	94.43369336	92.0503282	89.75877721	87.55469446
160412A00029	4/12/2016	2.48	4/14/2031	107.89924	104.9817595	102.1820229	99.49422836	96.91290712	94.43289855	92.04933051	89.75760125	87.55336258
160413A00014	4/13/2016	2.55	4/14/2031	107.95561	105.0392774	102.2405553	99.55365601	96.97312009	94.49379551	92.11081802	89.8195932	87.61577958
160413A00016	4/13/2016	2.55	4/14/2031	107.95561	105.0392774	102.2405553	99.55365601	96.97312009	94.49379551	92.11081802	89.8195932	87.61577958
160413A00021	4/13/2016	2.48	4/13/2026	101.13614	100.6845161	100.2369538	99.79339833	99.3537958	98.91809331	98.48623891	98.05818153	97.63387105
160413A00033	4/13/2016	2.32	4/13/2026	101.0395	100.5982537	100.1609409	99.72750618	99.29789771	98.8720645	98.44995651	98.03152455	97.61672034
160414A00042	4/13/2016	2.48	4/13/2026	101.13614	100.6845161	100.2369538	99.79339833	99.3537958	98.91809331	98.48623891	98.05818153	97.63387105
160421A00016	4/21/2016	2.26	4/21/2026	101.13747	100.6664817	100.1999309	99.73775137	99.27988156	98.82626106	98.37683057	97.93153191	97.49030797
160422A00026	4/22/2016	2.62	4/22/2026	101.07264	100.6746423	100.2797866	99.88803294	99.49934462	99.11368574	98.7310209	98.35131524	97.97453447
160427A00004	4/27/2016	2.09	4/27/2026	100.53822	100.2867392	100.0367708	99.78830246	99.54131917	99.29580625	99.05174916	98.80913362	98.56794549
160428A00028	4/28/2016	2	4/28/2026	100.5343	100.2820858	100.0313996	99.7822253	99.53454766	99.28835178	99.04362294	98.80034663	98.55850853
160504A00004	5/4/2016	2.3	5/4/2026	101.05738	100.6257927	100.1978867	99.77361879	99.35294279	98.93581314	98.52218507	98.11201456	97.70525834
160511A00015	5/11/2016	2.42	5/11/2026	101.30651	100.7759804	100.2510445	99.73161552	99.21760676	98.70893338	98.20551232	97.70726221	97.21410338
160511A00016	5/11/2016	2.48	5/12/2031	107.86086	104.9038633	102.0676568	99.34622753	96.7339081	94.22535308	91.81551872	89.49964385	87.27323208
160523A00086	5/23/2016	2.2	5/26/2026	101.33987	100.7723966	100.2113528	99.65662511	99.108107	98.56569413	98.02928454	97.49877854	96.97407864
160524A00015	11/25/2016	2.71	11/25/2026	102.82718	101.8202333	100.8329699	99.86482095	98.9152353	97.9836827	97.069653	96.17265508	95.29221608
160524A00027	5/24/2016	3.06	5/27/2031	118.10985	112.2453148	106.7125855	101.4911218	96.56175722	91.90660288	87.50895601	83.35321524	79.42480247
160603A00014	6/3/2016	1.74	6/3/2026	100.61441	100.2874482	99.9630644	99.64122447	99.32189561	99.00504561	98.69064283	98.3786562	98.0690552
160603A00029	6/3/2016	2.18	6/3/2031	107.43201	104.4372065	101.5665018	98.81364087	96.1727299	93.63821385	91.20485486	88.86771187	86.62212187
160606A00004	6/6/2016	2.43	6/8/2026	101.33349	100.8044626	100.2809552	99.76288348	99.25016312	98.74271137	98.24044721	97.74329128	97.25116584
160606A00005	6/6/2016	2.92	6/6/2031	117.391	111.5178211	105.978706	100.7528749	95.82094502	91.16483151	86.76765439	82.61365201	78.68810123
160606A00018	6/6/2016	1.74	6/5/2026	100.61672	100.2885608	99.96300604	99.64001964	99.3195682	99.00161896	98.68613973	98.37309891	98.06246548
160608A00019	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00020	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00023	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00024	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00025	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00026	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00027	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00028	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00029	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00030	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
160608A00031	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00032	6/8/2016	2.36	6/8/2026	101.45236	100.8486666	100.2522105	99.66286167	99.08049331	98.50498146	97.93620514	97.37404618	96.81838919
160608A00033	6/8/2016	2.44	6/9/2031	107.84962	104.849756	101.9739946	99.21608983	96.57015577	94.03064449	91.59232434	89.25025971	86.99979232
160608A00034	6/8/2016	2.44	6/9/2031	107.84962	104.849756	101.9739946	99.21608983	96.57015577	94.03064449	91.59232434	89.25025971	86.99979232
160609A00075	6/9/2016	1.94	6/9/2026	100.64565	100.3166336	99.99023468	99.66642065	99.34515779	99.02641294	98.71015356	98.39634771	98.08496399
160615A00031	6/15/2016	2.51	6/17/2030	113.23073	108.4513578	103.9026307	99.57218701	95.44839832	91.52031782	87.77763658	84.21064287	80.81018435
160616A00027	6/16/2016	2.27	6/16/2026	101.30224	100.7511453	100.2060417	99.66683601	99.13343264	98.60573816	98.08366113	97.56711205	97.05600332
160616A00029	6/16/2016	1.58	6/16/2026	100.57122	100.2392504	99.90996812	99.58333571	99.25931778	98.93787968	98.61898736	98.30260743	97.98870712
160628A00039	6/28/2016	2.01	6/29/2026	101.27732	100.6897645	100.1090063	99.53492937	98.96741901	98.4063631	97.85165202	97.30317867	96.7608383
160629A00066	6/29/2016	2.61	6/30/2036	120.40155	111.3164572	103.0831538	95.6141134	88.83137143	82.66543059	77.05429408	71.94261387	67.28094021
160701A00020	7/1/2016	2.13	7/1/2026	101.31919	100.7264658	100.1406562	99.56164171	98.98930472	98.42353027	97.86420605	97.31122227	96.76447163
160701A00039	7/1/2016	1.92	7/1/2026	101.23631	100.6433491	100.0573124	99.47808122	98.90553749	98.33956597	97.78005405	97.22689165	96.67997119
160705A00104	7/5/2016	2.1	7/6/2026	101.33242	100.7258187	100.1264638	99.53423007	98.94899113	98.37062351	97.79900664	97.23402277	96.67555685
160706A00026	7/6/2016	2.19	7/6/2027	104.06708	102.4462857	100.8586949	99.30335965	97.77936332	96.28582394	94.8218924	93.38675097	91.97961181
160706A00027	7/6/2016	2.29	7/6/2028	106.96832	104.3040576	101.719915	99.21298769	96.78049711	94.41978377	92.1283014	89.90361119	87.74337649
160706A00028	7/6/2016	2.39	7/6/2029	109.92258	106.1930774	102.6107494	99.16896514	95.86143528	92.68218893	89.62555575	86.68614884	83.85884885
160706A00029	7/6/2016	2.49	7/8/2030	112.93922	108.1177181	103.5311145	99.16670173	95.01253147	91.05736308	87.29061765	83.70233534	80.28313569
160706A00030	7/6/2016	2.59	7/7/2031	115.70941	109.7948541	104.2218358	98.96881103	94.01571094	89.34382958	84.93572429	80.77512372	76.84684309
160711A00004	7/11/2016	1.51	7/13/2026	100.6182	100.2452412	99.87568989	99.50949607	99.14660919	98.78697982	98.43055957	98.07730105	97.72715785
160712A00019	7/12/2017	2.32	7/12/2027	104.24075	102.603638	101.000271	99.4296713	97.8909	96.38305382	94.90526358	93.45669249	92.0365347
160713A00015	7/13/2016	1.57	7/13/2026	100.64185	100.2681055	99.89779187	99.5308531	99.16723823	98.80689738	98.44978172	98.09584342	97.74503567
160714A00018	9/6/2016	2.28	9/4/2026	101.85042	101.075552	100.3124439	99.56083164	98.82045703	98.09106942	97.37242557	96.66428939	95.96643167
160714A00020	9/6/2016	2.28	9/4/2026	101.85042	101.075552	100.3124439	99.56083164	98.82045703	98.09106942	97.37242557	96.66428939	95.96643167
160714A00023	8/10/2016	2.49	8/10/2028	107.76657	104.9957238	102.3104638	99.70758685	97.18403752	94.73689651	92.36337342	90.06079993	87.8266235
160714A00024	9/20/2016	2.5	9/20/2028	108.11319	105.2232846	102.4256244	99.71674386	97.09332641	94.55219968	92.09032849	89.70480796	87.39285704
160714A00029	8/10/2016	2.27	8/10/2026	101.67068	100.9658732	100.2708267	99.58533664	98.90920673	98.24224607	97.58426891	96.93509449	96.29454691
160719A00026	7/19/2016	1.87	7/20/2026	100.71356	100.3379639	99.96583748	99.59712777	99.23178263	98.86975106	98.51098315	98.15543003	97.80304389
160726A00005	7/26/2016	2.28	7/27/2026	101.58212	100.9164486	100.2594848	99.61105773	98.97100192	98.33915597	97.71536265	97.09946874	96.49132487
160729A00017	7/31/2017	2.47	7/31/2029	110.20437	106.406114	102.7598571	99.25865266	95.89591231	92.66538749	89.56114954	86.5775712	83.70930936
160801A00002	8/1/2016	1.58	8/3/2026	100.71619	100.3027624	99.89353635	99.48843802	99.08739861	98.69035095	98.29722941	97.9079699	97.52250976
160802A00003	8/2/2016	2.53	8/1/2031	115.9281	109.9234601	104.2695121	98.943892	93.92578027	89.19578793	84.73585049	80.52913032	76.55992676
160810A00025	8/10/2016	2.17	8/10/2026	101.73305	100.9572202	100.1933364	99.44112132	98.70030815	97.9706381	97.25186016	96.54373085	95.84601391
160810A00027	8/10/2016	2.13	8/10/2026	101.6838	100.9163025	100.1605769	99.41634912	98.68335677	97.96134537	97.25006809	96.54928547	95.85876515

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
160810A00028	8/10/2016	2.19	8/10/2026	101.75819	100.9780765	100.2099955	99.45367111	98.70883431	97.97522406	97.25258723	96.54067824	95.83925884
160810A00029	8/10/2016	2.17	8/10/2026	101.73305	100.9572202	100.1933364	99.44112132	98.70030815	97.9706381	97.25186016	96.54373085	95.84601391
160810A00030	8/10/2016	2.24	8/11/2031	107.44175	104.366982	101.4226205	98.60195054	95.89865529	93.30678802	90.82074801	88.43525802	86.14534336
160811A00011	8/11/2016	2.25	8/11/2026	101.62821	100.9212608	100.2241315	99.53661938	98.85852641	98.18965979	97.52983201	96.87886062	96.23656805
160812A00006	8/12/2016	2.16	8/12/2026	101.81161	101.0370868	100.2745432	99.52369642	98.78427734	98.05602493	97.33868614	96.63201551	95.93577492
160815A00005	8/15/2016	2.23	8/17/2026	101.68974	100.9654609	100.2514814	99.54758621	98.85356274	98.16920417	97.49430947	96.82868316	96.1721351
160815A00006	8/15/2016	2.23	8/17/2026	101.68974	100.9654609	100.2514814	99.54758621	98.85356274	98.16920417	97.49430947	96.82868316	96.1721351
160815A00007	8/15/2016	2.23	8/17/2026	101.68974	100.9654609	100.2514814	99.54758621	98.85356274	98.16920417	97.49430947	96.82868316	96.1721351
160819A00015	10/12/2016	2.3	10/13/2026	102.14575	101.2612818	100.3921025	99.53781557	98.69804043	97.87240949	97.06056745	96.26217084	95.47688752
160824A00019	8/24/2016	1.98	8/25/2031	107.01338	103.9432876	101.0036694	98.18779937	95.48934494	92.90234545	90.42118774	88.04058354	85.75554841
160830A00038	8/30/2016	2.24	8/28/2026	101.77143	101.0163061	100.272359	99.53934253	98.81701711	98.10515017	97.4035158	96.71189461	96.0300734
160906A00027	9/6/2016	2.03	9/8/2031	107.25987	104.1402801	101.154845	98.29657236	95.55888621	92.93560065	90.42089383	88.00928403	85.69560744
160908A00022	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957445	97.04653689	96.27616786	95.51816053
160908A00023	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957444	97.04653689	96.27616786	95.51816053
160908A00024	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957445	97.04653689	96.27616786	95.51816053
160908A00025	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957444	97.04653689	96.27616786	95.51816053
160908A00026	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957445	97.04653689	96.27616786	95.51816053
160908A00027	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957445	97.04653689	96.27616786	95.51816053
160908A00028	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957445	97.04653689	96.27616786	95.51816053
160908A00030	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957444	97.04653689	96.27616786	95.51816053
160908A00031	9/8/2016	2.21	9/8/2026	101.94627	101.0949156	100.2579234	99.43493431	98.62559765	97.82957444	97.04653689	96.27616786	95.51816053
160908A00032	9/8/2016	2.17	9/8/2026	101.8897	101.048383	100.2211968	99.40778914	98.6078159	97.82094423	97.04685224	96.28522858	95.53577193
160908A00033	9/8/2016	2.17	9/8/2026	101.8897	101.048383	100.2211968	99.40778914	98.6078159	97.82094423	97.04685224	96.28522858	95.53577193
160908A00034	9/8/2016	2.17	9/8/2026	101.8897	101.048383	100.2211968	99.40778914	98.6078159	97.82094423	97.04685224	96.28522858	95.53577193
160908A00035	9/8/2016	2.3	9/8/2031	107.72714	104.6011065	101.6092728	98.74465273	96.00067827	93.37117015	90.85031221	88.43262759	86.11295653
160908A00036	9/8/2016	2.3	9/8/2031	107.72714	104.6011065	101.6092728	98.74465273	96.00067827	93.37117015	90.85031221	88.43262759	86.11295653
160922A00014	9/22/2016	2.06	9/22/2026	101.85401	101.0284134	100.2161668	99.41694837	98.6304464	97.85635914	97.09439432	96.34426877	95.60570808
160923A00009	9/23/2016	2.24	9/23/2031	107.69893	104.5701009	101.5757381	98.70883326	95.96279925	93.33143911	90.8089203	88.38975081	86.06875689
160928A00029	9/28/2016	2.52	9/29/2036	114.01722	107.8477365	102.1391861	96.85125667	91.94753454	87.39510086	83.16416948	79.22776489	75.56143527
160928A00030	9/28/2016	2.52	9/29/2036	114.01722	107.8477365	102.1391861	96.85125667	91.94753454	87.39510086	83.16416948	79.22776489	75.56143527
160928A00032	9/28/2016	2.52	9/29/2036	114.01722	107.8477365	102.1391861	96.85125667	91.94753454	87.39510086	83.16416948	79.22776489	75.56143527
160928A00033	9/28/2016	2.46	9/29/2036	113.97971	107.7994909	102.0816543	96.78571664	91.87511461	87.31679698	83.08086074	79.1402271	75.47035296
160928A00041	9/28/2016	3.26	9/29/2036	118.72671	112.3492873	106.4462896	100.9763255	95.9020034	91.1895145	86.80826223	82.73053224	78.93119847

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
160928A00042	9/28/2016	3.05	9/29/2036	117.48062	111.1549658	105.3005728	99.87629069	94.8449451	90.17292615	85.82981934	81.78807714	78.02272653
160928A00044	9/28/2016	2.89	9/29/2036	116.53122	110.2450065	104.4276458	99.03816892	94.03956734	89.39838265	85.08433904	81.07001611	77.33055742
160930A00032	9/30/2016	2.15	9/30/2031	107.26715	104.2108775	101.2848262	98.48224353	95.79678071	93.22246368	90.75366854	88.38509858	86.11176303
160930A00033	9/30/2016	1.8	9/30/2026	100.87865	100.4144155	99.95557871	99.50203587	99.05368484	98.61042627	98.17216349	97.73880241	97.31025145
161005A00016	10/5/2016	2.32	10/6/2031	108.05204	104.8703565	101.8270137	98.9147265	96.1266527	93.45635892	90.89779342	88.44526086	86.09339888
161014A00019	10/14/2016	2.39	10/15/2031	108.27711	105.0884602	102.038474	99.11985413	96.32574037	93.64968258	91.08561338	88.6278228	86.27093479
161014A00026	10/14/2016	2.16	10/14/2031	107.76774	104.5897813	101.5501657	98.64160637	95.85725284	93.19066445	90.6357831	88.18690789	85.83867163
161014A00029	10/14/2016	2.51	10/15/2031	108.89246	105.6813301	102.6099916	99.67107717	96.8576648	94.16324663	91.58170132	89.10726848	86.73452491
161109A00018	11/9/2016	2.63	11/9/2026	102.61319	101.6519491	100.7086909	99.78291163	98.87412849	97.98187643	97.10570724	96.2451888	95.39990433
161116A00006	11/16/2016	2.39	11/16/2026	101.36949	100.8201334	100.2783063	99.74383855	99.21656399	98.69632157	98.18295532	97.67631414	97.17625158
161118A00026	12/20/2016	3.03	12/21/2026	103.45879	102.3747983	101.3135064	100.2742084	99.25622536	98.25890617	97.28162591	96.32378467	95.38480629
161207A00014	12/7/2016	2.75	12/8/2031	109.91535	106.586114	103.405268	100.3648289	97.45729975	94.67564102	92.01323921	89.46387833	87.02171325
161214A00023	12/14/2016	3.3	12/15/2031	121.41238	114.8625333	108.7149123	102.942622	97.52070516	92.42599179	87.63696228	83.13362145	78.89738289
161214A00034	12/14/2016	2.65	12/14/2026	101.63683	101.0437188	100.4593826	99.88360563	99.31617948	98.75690284	98.20558123	97.66202666	97.12605737
161222A00013	12/22/2016	2.93	12/22/2026	103.5961	102.4676614	101.3644085	100.285501	99.23013344	98.19753555	97.18697052	96.19773312	95.22914806
161222A00030	12/22/2016	3.09	12/22/2026	103.60936	102.52057	101.4546508	100.4108887	99.38859749	98.38711943	97.4058232	96.44410287	95.50137654
161222A00036	12/22/2016	2.69	12/22/2026	101.6585	101.0661896	100.4826687	99.90771733	99.34112588	98.78269171	98.23221912	97.68951904	97.15440869
161222A00037	12/22/2016	3.08	12/22/2031	110.45991	107.2120341	104.1069558	101.1370478	98.29515273	95.57454723	92.96891272	90.4723082	88.07914507
161227A00073	12/27/2016	2.83	12/28/2026	103.38464	102.2896618	101.2190532	100.1719949	99.14770439	98.14543345	97.16446667	96.20411949	95.26373663
161229A00018	12/29/2016	2.46	12/29/2026	101.57563	100.9791578	100.3916051	99.81274913	99.24237517	98.68027596	98.12625137	97.58010808	97.04165927
161229A00019	12/29/2016	2.46	12/29/2026	101.57563	100.9791578	100.3916051	99.81274913	99.24237517	98.68027596	98.12625137	97.58010808	97.04165928
170105A00010	1/5/2017	2.61	1/5/2027	101.73514	101.1001468	100.4752065	99.86005567	99.25443984	98.65811381	98.0708412	97.49239407	96.92255249
170106A00030	1/6/2017	2.39	1/6/2027	101.64037	101.0052506	100.3801984	99.76495098	99.15925315	98.56285896	97.97553133	97.39704164	96.82716936
170111A00009	1/11/2017	3.16	1/11/2028	107.52098	105.3456166	103.2254489	101.1586928	99.14363621	97.17863546	95.26211217	93.39254991	91.56849128
170111A00011	1/11/2017	3.24	1/11/2029	111.32088	108.0672272	104.9267597	101.8948702	98.96717252	96.13948562	93.40782277	90.76838104	88.21753163
170111A00012	1/11/2017	3.31	1/11/2030	115.12017	110.7593836	106.590463	102.6039047	98.79072756	95.1424441	91.65103033	88.3088977	85.10886691
170111A00013	1/11/2017	3.4	1/10/2031	118.87234	113.3822866	108.1831995	103.2580669	98.59096122	94.1669666	89.97210914	85.99329215	82.21823635
170111A00014	1/11/2017	3.47	1/12/2032	122.1992	115.5639083	109.3394272	103.498047	98.01407572	92.86367848	88.02473375	83.47670115	79.20050034
170111A00016	1/11/2017	3.51	1/11/2033	125.13234	117.3607732	110.1379221	103.4219408	97.17439361	91.35995717	85.94615273	80.90310275	76.20330964
170112A00015	1/12/2017	2.32	1/12/2027	101.59965	100.9635816	100.3376278	99.7215255	99.1150172	98.51785466	97.92979871	97.35061876	96.78009238
170120A00008	1/20/2017	3.63	1/20/2034	128.72756	119.7573883	111.4984274	103.8901081	96.87733511	90.40996266	84.44232544	78.93281608	73.84350468
170120A00009	1/20/2017	3.67	1/22/2035	131.58587	121.4567639	112.215918	103.7800055	96.07395097	89.03007053	82.58730808	76.69055401	71.29003717
170120A00010	1/20/2017	3.71	1/22/2036	134.32432	123.043259	112.8440069	103.6159048	95.26019597	87.68868442	80.82255435	74.59132716	68.93193927

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
170120A00011	1/20/2017	3.75	1/20/2037	136.68335	124.276065	113.1582467	103.1872536	94.23697919	86.19585531	78.96510597	72.45721891	66.59460683
170123A00039	1/23/2017	2.79	1/23/2026	100.42798	100.277821	100.1281237	99.97888561	99.83010473	99.68177887	99.53390593	99.38648378	99.23951034
170124A00017	1/24/2017	2.82	1/23/2032	110.27623	106.8912052	103.6588711	100.5709184	97.61955327	94.79746231	92.09777923	89.51405462	87.04022775
170130A00036	1/30/2017	3.11	1/31/2033	112.26729	108.3535076	104.6420913	101.1204747	97.77697805	94.60073639	91.58163669	88.71026046	85.977831
170130A00039	1/30/2017	2.74	1/31/2028	103.5866	102.3877661	101.2151425	100.0679018	98.9452554	97.84644677	96.77075002	95.71746825	94.68593212
170130A00043	1/30/2017	2.64	1/29/2027	101.91443	101.2297265	100.5574733	99.89729148	99.2488189	98.61170861	97.98562792	97.37025771	96.76529167
170130A00046	1/30/2017	2.52	1/30/2026	100.43986	100.268744	100.0982094	99.92824898	99.75885997	99.59003947	99.42178465	99.2540927	99.0869608
170203A00012	2/3/2017	3.63	2/2/2035	131.28602	121.1394215	111.8855171	103.4403164	95.72816565	88.68088167	82.23697743	76.3409716	70.94277277
170203A00013	2/3/2017	3.67	2/1/2036	133.97171	122.6805856	112.4752324	103.2443073	94.88847201	87.31903686	80.45676745	74.23083079	68.57786384
170207A00055	2/7/2017	2.36	2/8/2027	101.74493	101.0656397	100.3978873	99.7413485	99.09571075	98.46067364	97.83594838	97.22125719	96.61633278
170216A00043	2/16/2017	3.17	2/16/2027	104.21897	102.9698722	101.7507065	100.5604073	99.39795767	98.26238798	97.1527732	96.06823035	95.00791607
170216A00044	2/16/2017	3.52	2/17/2032	122.79235	116.0343416	109.7003598	103.7614206	98.19067595	92.96324648	88.05606605	83.44773996	79.11841496
170216A00045	2/16/2017	3.73	2/17/2037	136.60189	124.1190138	112.9417564	102.9247932	93.93975025	85.87314387	78.62458084	72.10518496	66.2362198
170224A00020	2/24/2017	3.08	2/24/2027	104.19077	102.9192979	101.6788338	100.4682524	99.286483	98.13250575	97.00534836	95.90408342	94.82782589
170224A00021	2/24/2017	3.4	2/24/2032	122.0845	115.3273499	108.9957562	103.0605333	97.49465621	92.27308758	87.3726206	82.77173528	78.45046682
170224A00039	5/24/2017	3.17	5/24/2027	105.21466	103.704225	102.2232532	100.7709549	99.34656974	97.94936351	96.57862743	95.23367686	93.91385028
170224A00044	5/24/2017	3.29	5/24/2029	112.80105	109.1417602	105.6225309	102.2372365	98.98005757	95.84545982	92.82817859	89.92320414	87.12576787
170228A00014	2/28/2017	2.89	3/1/2027	104.09131	102.8055425	101.5511217	100.3269138	99.13183512	97.96485346	96.82498476	95.71129056	94.62287529
170309A00014	3/9/2017	2.58	3/9/2027	102.02567	101.3020626	100.5913242	99.89307455	99.20695121	98.53260654	97.86970677	97.21793135	96.57697228
170313A00032	3/13/2017	3.69	6/14/2032	124.80835	117.6479023	110.9567469	104.7014989	98.85132422	93.37772763	88.2543638	83.45686431	78.9626795
170313A00033	3/13/2017	3.31	3/15/2027	104.6838	103.3635364	102.0712137	100.8059465	99.56688779	98.35322596	97.16418321	95.99901366	94.85700172
170313A00034	3/13/2017	3.31	3/15/2027	104.6838	103.3635364	102.0712137	100.8059465	99.56688779	98.35322596	97.16418321	95.99901366	94.85700172
170313A00035	3/13/2017	3.31	3/15/2027	104.6838	103.3635364	102.0712137	100.8059465	99.56688779	98.35322596	97.16418321	95.99901366	94.85700172
170313A00041	3/13/2017	3.21	3/15/2032	111.39502	107.9558371	104.6746827	101.542772	98.55187843	95.69429316	92.96278849	90.35058474	87.85131935
170313A00045	3/13/2017	3.22	3/15/2032	111.67097	108.1590241	104.8089411	101.6117369	98.55899719	95.64283533	92.8558555	90.19111893	87.64211247
170317A00044	3/17/2017	3.11	3/17/2027	104.51937	103.1819675	101.8689304	100.5796471	99.31352251	98.06998086	96.84846528	95.64843688	94.46937402
170322A00022	3/22/2017	3.89	9/23/2041	148.97455	131.2268171	115.9513392	102.7822757	91.41008931	81.57260154	73.04751152	65.64613067	59.20812973
170322A00023	3/22/2017	3.82	9/22/2039	142.24366	126.8891244	113.4507125	101.6746761	91.34227483	82.2647779	74.27920264	67.24467746	61.0393346
170322A00024	3/22/2017	3.72	9/22/2036	135.77559	123.7433556	112.9302581	103.2047996	94.45034835	86.56338892	79.45198497	73.03442934	67.23805747
170322A00025	3/22/2017	3.58	3/22/2033	126.17345	118.1606473	110.7266055	103.8262641	97.41829909	91.46479402	85.93094233	80.78477731	75.99692672
170322A00026	3/22/2017	3.22	3/22/2028	108.37293	105.987029	103.6658943	101.4073778	99.20941696	97.07003095	94.98731688	92.95944609	90.98466072
170322A00033	3/22/2017	3.61	3/24/2042	129.50012	119.0735886	109.7883084	101.5011208	94.08839404	87.44319624	81.47289503	76.09711965	71.24602824
170327A00070	3/29/2017	3.05	3/29/2027	104.5796	103.2266093	101.8981849	100.5937051	99.31256593	98.05418357	96.81799337	95.6034492	94.41002265

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
170327A00072	3/29/2017	3.09	3/29/2027	104.63347	103.2800972	101.9512974	100.6464486	99.36494671	98.10620766	96.86966665	95.65477774	94.46101134
170327A00078	3/27/2019	3.04	3/27/2026	101.00985	100.6841156	100.3604797	100.0389266	99.71943636	99.40198905	99.08656513	98.77314529	98.46171045
170327A00079	3/27/2019	3.19	3/29/2027	104.67231	103.3201742	101.9925685	100.6888707	99.40847824	98.1508085	96.91529811	95.70140208	94.50859311
170327A00080	3/27/2019	3.43	3/27/2029	112.70967	109.2162767	105.850913	102.608203	99.4830286	96.47051323	93.56600898	90.76508463	88.06351435
170406A00029	4/6/2017	3.01	4/6/2027	104.57194	103.1620982	101.7788146	100.4213958	99.0891751	97.78150832	96.49777289	95.2373669	93.99970826
170406A00031	4/6/2017	3.01	4/6/2027	104.57194	103.1620982	101.7788146	100.4213958	99.0891751	97.78150832	96.49777289	95.2373669	93.99970826
170406A00032	4/6/2017	3.01	4/6/2027	104.57194	103.1620982	101.7788146	100.4213958	99.0891751	97.78150832	96.49777289	95.2373669	93.99970826
170406A00033	4/6/2017	3.01	4/6/2027	104.57194	103.1620982	101.7788146	100.4213958	99.0891751	97.78150832	96.49777289	95.2373669	93.99970826
170406A00034	4/6/2017	3.01	4/6/2027	104.57194	103.1620982	101.7788146	100.4213958	99.0891751	97.78150832	96.49777289	95.2373669	93.99970826
170406A00036	4/6/2017	3.07	4/6/2032	111.09705	107.5626143	104.1927633	100.978282	97.91054028	94.98145356	92.18344442	89.50940737	86.95267627
170407A00001	4/6/2017	2.97	4/6/2027	104.42787	103.044733	101.6876009	100.3557984	99.04867169	97.7655891	96.50594027	95.26913509	94.05460297
170427A00044	4/27/2017	3.02	4/27/2027	104.73135	103.2983566	101.8920223	100.5116643	99.15662439	97.82626646	96.51997507	95.23715487	93.97722972
170427A00046	4/27/2017	3.1	4/27/2028	108.44046	105.9521921	103.5340392	101.1836346	98.89870336	96.67706033	94.51660644	92.4153246	90.37127598
170427A00047	4/27/2017	3.18	4/27/2029	112.15986	108.5871273	105.14851	101.838265	98.65092526	95.58128606	92.62439083	89.77551805	87.03016877
170502A00028	5/2/2017	2.84	5/3/2027	104.63257	103.1820677	101.7588634	100.3622517	98.99155136	97.64610408	96.32527343	95.02844395	93.75502025
170511A00011	5/11/2017	2.41	5/11/2027	102.15362	101.3455624	100.5517011	99.77164879	99.00502807	98.25147598	97.51064307	96.78219279	96.06580088
170524A00027	5/24/2017	2.32	5/24/2027	102.08636	101.2768677	100.4816426	99.700289	98.93242717	98.17769169	97.4357308	96.70620574	95.98879016
170609A00043	6/9/2017	3.07	6/9/2032	121.14017	114.0936027	107.5108536	101.3588751	95.6071382	90.22743142	85.19367354	80.48174219	76.06931706
170609A00052	6/11/2018	2.9	6/9/2027	104.88159	103.3307107	101.8107015	100.3207163	98.8599381	97.4275788	96.02287835	94.64510334	93.29354585
170619A00089	6/16/2017	2.79	6/16/2027	104.8518	103.2582767	101.6975447	100.1686532	98.67068622	97.20276264	95.76403484	94.35368702	92.97093369
170619A00092	6/16/2017	2.79	6/16/2027	104.8518	103.2582767	101.6975447	100.1686532	98.67068622	97.20276264	95.76403484	94.35368702	92.97093369
170619A00095	6/16/2017	2.79	6/16/2027	104.8518	103.2582767	101.6975447	100.1686532	98.67068622	97.20276264	95.76403484	94.35368702	92.97093369
170619A00096	6/16/2017	2.79	6/16/2027	104.8518	103.2582767	101.6975447	100.1686532	98.67068622	97.20276264	95.76403484	94.35368702	92.97093369
170619A00101	6/16/2017	2.74	6/16/2027	104.66769	103.1083841	101.5810629	100.0848001	98.61870296	97.18191295	95.77360403	94.39298118	93.0392789
170622A00036	6/22/2017	3.23	6/22/2032	121.78897	114.7034465	108.0854197	101.9014817	96.12077991	90.71481159	85.65723317	80.92368586	76.49163628
170622A00037	6/22/2017	3.27	6/22/2033	124.44473	116.2351077	108.6383911	101.6053679	95.09103013	89.05419091	83.45714137	78.26533993	73.44713101
170622A00038	6/22/2017	3.32	6/22/2034	127.09942	117.7606963	109.1986	101.3440214	94.13434943	87.51283066	81.42799296	75.83312872	70.68583113
170622A00039	6/22/2017	3.36	6/22/2035	129.57889	119.1156594	109.6099884	100.9684383	93.10716576	85.9508903	79.43197874	73.48963208	68.06916252
170622A00040	6/22/2017	3.41	6/23/2036	131.99301	120.4054291	109.9735218	100.5747061	92.1000333	84.4526074	77.54619451	71.30399914	65.65758645
170623A00028	6/23/2017	2.79	6/23/2027	104.9212	103.3292675	101.7694847	100.2409514	98.74279746	97.27418441	95.83430449	94.42237901	93.03765711
170711A00010	7/11/2017	2.38	7/12/2027	102.37741	101.4835233	100.6058836	99.74403897	98.89755313	98.06600629	97.24899436	96.4461282	95.65703291
170713A00021	7/13/2017	3.25	7/13/2037	127.4286	117.144729	107.8984809	99.57507709	92.07321991	85.30343319	79.1866147	73.65277342	68.639927
170803A00020	8/3/2017	2.84	8/3/2027	105.3762	103.667986	101.9958504	100.3587192	98.75555733	97.18537071	95.64720411	94.14013931	92.66329327

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
170822A00023	8/23/2017	3.95	8/23/2028	111.92638	109.0617775	106.2861242	103.5960676	100.988406	98.46008205	96.00817479	93.62989256	91.32256616
170918A00007	9/18/2017	2.8	9/20/2027	105.74231	103.8980367	102.0949466	100.331841	98.60756216	96.92099481	95.27106443	93.65673531	92.07700884
170921A00055	9/21/2017	2.82	9/21/2027	105.6966	103.8489624	102.0438445	100.2800072	98.55625561	96.87143752	95.22444131	93.61419444	92.03966169
170921A00056	9/21/2017	2.82	9/21/2027	105.6966	103.8489624	102.0438445	100.2800072	98.55625561	96.87143752	95.22444131	93.61419444	92.03966169
170921A00057	9/21/2017	2.79	9/21/2027	105.50184	103.6990057	101.9374572	100.215989	98.53344177	96.88869771	95.28067842	93.70834344	92.1706886
170929A00046	9/29/2017	2.49	9/30/2027	102.65219	101.6770984	100.7203982	99.7815681	98.8601074	97.95553432	97.06738516	96.19521346	95.33858913
171011A00013	10/11/2017	2.77	10/13/2026	102.5598	101.6733537	100.8022163	99.94599458	99.10430771	98.27678758	97.46307846	96.66283644	95.87572896
171018A00011	10/18/2017	2.68	10/18/2027	105.89938	103.9737939	102.0928086	100.255128	98.45949985	96.7047165	94.98961275	93.31306408	91.67398501
171026A00010	10/26/2017	2.84	10/26/2026	102.73593	101.8124087	100.9054674	100.0146653	99.1395743	98.27978137	97.4348878	96.60450863	95.78827208
171026A00011	10/26/2017	2.94	10/26/2027	106.33332	104.3841156	102.4804615	100.6210217	98.80450592	97.02967018	95.29531461	93.60028171	91.94345449
171030A00023	10/30/2017	2.9	11/1/2027	106.3105	104.3450204	102.4258355	100.5515699	98.7209025	96.93256018	95.1853153	93.47798388	91.80942378
171109A00016	11/9/2017	2.94	11/9/2032	119.33437	112.4839177	106.0965688	100.1379846	94.57656772	89.38322456	84.53115425	79.99565594	75.75395347
171129A00020	11/29/2017	2.89	11/30/2026	103.10372	102.0805775	101.0777024	100.0945016	99.13040054	98.1848466	97.25730845	96.34727487	95.45425377
171206A00020	12/6/2017	2.62	12/6/2027	103.15857	102.0571349	100.9777787	99.91986159	98.88276996	97.86591343	96.86872367	95.8906534	94.93117536
171206A00038	12/6/2017	2.69	12/6/2027	106.35135	104.2844553	102.2685008	100.3018997	98.38313	96.51072793	94.68328477	92.89944455	91.15790166
171206A00048	12/6/2017	3.04	12/6/2032	122.05234	114.4666952	107.4132603	100.8517773	94.74523755	89.05960219	83.76354885	78.82824182	74.22712258
171207A00024	12/7/2017	2.93	12/7/2027	106.64622	104.5625821	102.5312142	100.5504438	98.61866175	96.73432268	94.89594204	93.10209316	91.35140452
171207A00025	12/7/2017	2.91	12/7/2027	106.51089	104.4566389	102.453762	100.5006128	98.59561191	96.73724227	94.92404667	93.15462463	91.42762978
171207A00026	12/7/2017	2.93	12/7/2027	106.64622	104.5625821	102.5312142	100.5504438	98.61866175	96.73432268	94.89594204	93.10209316	91.35140452
171219A00063	12/19/2017	2.8	12/20/2027	106.70329	104.5942635	102.5378122	100.5322734	98.57605261	96.66761723	94.80549363	92.9882644	91.21456581
171219A00067	12/19/2017	2.72	12/20/2027	106.29587	104.2619105	102.2791705	100.3459867	98.46076447	96.62197399	94.8281465	93.07787153	91.36979399
180102A00021	1/2/2018	2.82	1/2/2026	100.25251	100.1608525	100.0693622	99.97804188	99.88689117	99.79590955	99.70509657	99.61445175	99.52397462
180104A00018	1/4/2018	2.97	1/4/2027	103.53525	102.4114895	101.3120919	100.2362755	99.18328723	98.15240606	97.14294092	96.15422932	95.18563585
180104A00023	1/4/2018	2.91	1/4/2028	106.34624	104.3687703	102.4411196	100.5616563	98.72881584	96.94109749	95.19706166	93.49532666	91.83456582
180104A00024	1/4/2018	2.98	1/4/2028	106.99921	104.8663243	102.7881759	100.7629561	98.7889316	96.86444055	94.987889	93.15774744	91.37254758
180104A00041	1/4/2018	3.08	1/4/2033	120.08066	113.2164057	106.8238923	100.8675236	95.31459258	90.13503239	85.30118864	80.78761298	76.57087518
180110A00029	1/10/2018	3.13	1/10/2028	107.44677	105.2749705	103.1582243	101.0947585	99.08286724	97.12091254	95.20732142	93.34058256	91.5192434
180116A00014	1/16/2018	3.01	1/19/2027	103.73527	102.5681048	101.4271858	100.3116354	99.22061384	98.15331816	97.10898013	96.0868644	95.08626671
180116A00015	1/16/2018	3.06	1/18/2028	107.37233	105.1793683	103.0424248	100.95967	98.92935334	96.94979481	95.01938175	93.13656542	91.29985794
180118A00039	1/18/2018	3.09	1/19/2027	103.82757	102.6598372	101.5183605	100.4022609	99.31069861	98.2428704	97.19800783	96.17537533	95.17426848
180126A00011	1/26/2018	2.72	1/26/2028	103.5245	102.3640314	101.2274555	100.1140698	99.02319902	97.95419347	96.90642818	95.87930162	94.87223453
180130A00070	1/30/2018	3.14	1/29/2027	103.99262	102.7956666	101.6262493	100.4834239	99.36629051	98.27398983	97.2057003	96.1606363	95.13804616
180207A00002	2/7/2018	3.13	2/6/2026	100.59467	100.4055828	100.2172086	100.029548	99.84259687	99.6563512	99.47080695	99.28596014	99.1018068

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
180207A00003	2/7/2018	3.28	2/7/2028	108.0566	105.7996805	103.6014707	101.4600144	99.37343816	97.33994618	95.35781652	93.4253973	91.54110324
180222A00025	2/22/2018	3.48	2/22/2033	125.80033	117.8576641	110.4844059	103.6364784	97.27345208	91.35822108	85.85671306	80.73762529	75.97218536
180222A00027	2/22/2018	3.24	2/22/2028	108.29168	105.9846785	103.7386278	101.5514602	99.42119842	97.34594896	95.3238978	93.35330622	91.43250697
180313A00026	3/13/2018	3.34	3/13/2028	108.5633	106.199958	103.9002065	101.6619082	99.48301854	97.36157656	95.29570073	93.2835851	91.32349561
180322A00040	3/22/2018	3.16	3/21/2031	112.5974	108.8149607	105.2104873	101.7741413	98.49669387	95.36948474	92.38438332	89.53375325	86.81041938
180322A00044	3/22/2018	3.18	3/22/2033	113.4323	109.3171911	105.417593	101.720061	98.21209852	94.882081	91.71918887	88.71334635	85.85516505
180323A00013	3/23/2018	3.18	3/23/2028	108.45899	106.0658394	103.7377781	101.4726435	99.26836334	97.12294726	95.03448299	93.00113272	91.02112963
180329A00003	3/29/2018	3.08	3/29/2028	108.28149	105.873881	103.5321447	101.2541078	99.03768575	96.88087476	94.78174793	92.73845196	90.74920386
180402A00013	4/2/2018	2.99	4/3/2028	107.16577	105.0224909	102.9375401	100.9089658	98.9348909	97.01351309	95.14310118	93.32199184	91.54858651
180403A00006	4/3/2018	3.07	4/3/2028	108.30674	105.8847671	103.5294008	101.2384418	99.00977969	96.84138564	94.73130846	92.67767125	90.6786681
180410A00002	4/10/2018	3.14	4/11/2033	113.39949	109.2409627	105.3023271	101.5697506	98.03037761	94.67225663	91.48427042	88.45607201	85.57802595
180412A00034	4/12/2018	3.23	4/15/2030	116.00188	111.339229	106.8930354	102.6521284	98.60596722	94.74460555	91.05865549	87.53925314	84.17802675
180412A00036	4/12/2018	3.54	4/15/2038	137.09301	123.3842135	111.2418688	100.4761981	90.92141403	82.43257272	74.8828556	68.16121786	62.17035226
180508A00038	5/8/2018	3.57	5/9/2033	114.81324	110.5686034	106.5501662	102.7435935	99.13557153	95.7137291	92.46656428	89.38337734	86.45420927
180517A00018	5/17/2018	3.46	5/17/2033	114.87448	110.6161241	106.5851622	102.7671584	99.14870519	95.71734623	92.46150189	89.37040166	86.43402195
180517A00024	5/17/2018	3.46	5/17/2033	114.87448	110.6161241	106.5851622	102.7671584	99.14870519	95.71734623	92.46150189	89.37040166	86.43402195
180529A00042	5/29/2018	3.42	5/30/2028	109.5648	106.9710773	104.4529194	102.0076841	99.63283621	97.32594478	95.08467805	92.90679876	90.79015967
180529A00057	5/29/2018	3.09	5/30/2028	106.61017	104.6808528	102.8036332	100.9767239	99.19840822	97.46704106	95.78104507	94.13890746	92.53917686
180530A00024	5/30/2018	3.44	5/30/2029	113.39341	109.7068997	106.1620114	102.7525267	99.47253796	96.31642856	93.27885661	90.35474006	87.53924254
180530A00025	5/30/2018	3.49	5/30/2030	117.26136	112.4526786	107.8725029	103.5087409	99.35000721	95.38557591	91.60533835	87.99976453	84.55986688
180530A00026	5/30/2018	3.55	5/30/2031	120.88325	114.9342772	109.3211594	104.0231127	99.0207454	94.29595869	89.83185421	85.61264814	81.62359213
180530A00027	5/30/2018	3.61	6/1/2032	124.17139	117.0694382	110.4311423	104.223658	98.41663394	92.98201102	87.89383828	83.12810391	78.66258088
180530A00028	5/30/2018	3.67	5/31/2033	127.36211	119.1074323	111.462525	104.3788464	97.8119679	91.72120288	86.06927389	80.82201029	75.94807441
180530A00030	5/30/2018	3.68	5/30/2034	130.07211	120.6745437	112.0506098	104.1320203	96.85686444	90.16898098	84.01739654	78.35582168	73.14219813
180605A00031	6/5/2018	3.37	6/5/2030	108.81627	106.3157113	103.902939	101.5741278	99.32564633	97.15404712	95.05605601	93.02856217	91.06860884
180615A00039	6/15/2018	3.49	6/15/2028	109.78255	107.1432112	104.5816538	102.09512	99.6809654	97.3366562	95.05976373	92.84795948	90.69901018
180618A00036	6/18/2018	3.89	6/18/2048	169.21142	143.1029727	121.8153229	104.398361	90.09638332	78.30722388	68.55016831	60.44072756	53.67077538
180619A00021	6/19/2018	3.24	6/19/2028	109.50025	106.8462316	104.2708358	101.7712531	99.34479718	96.98889465	94.70107972	92.47898883	90.32035571
180620A00014	6/20/2018	3.4	6/20/2028	109.73767	107.0817261	104.504419	102.0029396	99.5746016	97.21683152	94.9271635	92.70323393	90.54277647
180620A00038	6/20/2018	3.4	6/20/2028	109.73767	107.0817261	104.504419	102.0029396	99.5746016	97.21683152	94.9271635	92.70323393	90.54277647
180621A00017	6/21/2018	3.42	6/21/2028	109.80043	107.140805	104.5599735	102.0551249	99.62356493	97.2627129	94.97009601	92.74334412	90.58018478
180622A00004	6/22/2018	3.47	12/22/2028	111.84725	108.6409808	105.5446856	102.5539564	99.66459119	96.87258097	94.17409987	91.56549544	89.04327966
180622A00005	6/22/2018	3.5	7/2/2029	113.95651	110.164714	106.5214187	103.0199702	99.65405284	96.41766939	93.30512323	90.31100121	87.4301579

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
180622A00006	6/22/2018	3.53	12/21/2029	115.8335	111.5170417	107.3882116	103.4378199	99.65718168	96.0380831	92.57275316	89.25383726	86.07437251
180628A00068	6/28/2018	3.12	6/28/2028	108.06476	105.7324942	103.4681285	101.2692136	99.13340381	97.05845505	95.0422198	93.08264205	91.17775269
180716A00054	7/16/2018	3.59	7/16/2040	142.02516	125.8315792	111.7679784	99.53758496	88.88663302	79.59792543	71.48538725	64.38945472	58.17316804
180717A00021	7/17/2018	3.34	7/17/2028	109.28366	106.7051479	104.2045751	101.7790448	99.42579448	97.14218445	94.92569135	92.7739021	90.68450817
180718A00008	7/18/2018	3.37	7/18/2028	109.9336	107.1608511	104.4730846	101.8671243	99.33993354	96.88861158	94.51038643	92.20260799	89.96274169
180719A00065	7/19/2018	3.36	7/20/2026	102.23142	101.5828144	100.9424439	100.3101545	99.6857937	99.06921273	98.46026666	97.85881408	97.26471709
180727A00028	7/27/2018	3.25	7/27/2026	102.27289	101.6040517	100.9439622	100.2924485	99.64934434	99.01448743	98.38771979	97.76888743	97.15784023
180727A00039	7/27/2018	3.48	7/27/2028	110.33761	107.57014	104.8869527	102.2849441	99.7611434	97.31271023	94.93692769	92.63119603	90.39302667
180730A00081	7/30/2018	3.5	7/28/2028	110.40225	107.6311202	104.9444454	102.3391118	99.81214027	97.36068247	94.98201409	92.67352835	90.43273008
180814A00033	8/14/2018	3.25	8/13/2027	106.29929	104.5534137	102.8448443	101.172448	99.53514052	97.93188121	96.3616709	94.82354971	93.31659507
180816A00038	8/16/2018	3.38	8/16/2028	110.27015	107.4481168	104.713401	102.062727	99.49296641	97.00113118	94.58436568	92.23993991	89.96524288
180820A00055	8/20/2018	3.37	8/21/2028	110.29312	107.4568899	104.7087594	102.045408	99.46366687	96.96050991	94.53304584	92.17851113	89.89426334
180823A00053	8/23/2018	3.2	8/23/2028	110.04322	107.2004364	104.4462087	101.7771931	99.19019602	96.68216805	94.25019604	91.89149599	89.60340619
180823A00055	8/23/2018	3.44	8/23/2033	126.78167	118.2843169	110.4327413	103.1741349	96.46028863	90.24716436	84.49451251	79.16552699	74.22653315
180828A00032	8/28/2018	3.49	8/29/2033	127.21909	118.6880523	110.80619	103.520342	96.78197984	90.54678034	84.77423961	79.42732439	74.47215707
180829A00008	8/29/2018	3.23	8/30/2027	106.44059	104.6467638	102.8919923	101.175063	99.49481774	97.85014575	96.23998175	94.66330334	93.11912884
180904A00012	9/4/2018	3.35	9/4/2030	117.87006	112.7589708	107.9027777	103.2873446	98.89939956	94.7264779	90.75686835	86.97956291	83.38421051
180904A00014	9/4/2018	3.37	9/1/2028	110.40463	107.5362054	104.7576394	102.0655212	99.45659495	96.92775243	94.47602506	92.09857641	89.7926952
180905A00017	9/5/2018	3.43	9/6/2033	123.98777	116.4343438	109.4380407	102.9538725	96.94073631	91.36105846	86.18047352	81.36753424	76.89344897
180910A00028	9/10/2018	3.56	9/9/2033	127.85421	119.2671312	111.3352791	104.0048698	97.22681593	90.95628942	85.15233083	79.77749608	74.79753733
180910A00033	9/10/2018	3.43	9/8/2028	110.64655	107.7546701	104.9539008	102.2407955	99.61206485	97.06456636	94.59529672	92.20138452	89.88008338
180912A00011	9/12/2018	3.41	9/11/2026	102.79475	101.9963661	101.2103882	100.4365315	99.67451696	98.92407383	98.18493972	97.45686008	96.73958798
180913A00012	9/13/2018	3.31	9/13/2033	114.79465	110.3577013	106.1668192	102.2058252	98.45973086	94.91464645	91.55769226	88.37691817	85.36123009
180913A00033	9/13/2018	3.31	9/13/2033	114.79465	110.3577013	106.1668192	102.2058252	98.45973086	94.91464645	91.55769226	88.37691817	85.36123009
180914A00013	9/14/2018	3.48	9/14/2028	110.85173	107.9397333	105.1199269	102.3888333	99.74313395	97.17965642	94.69536705	92.28736387	89.95286987
180914A00029	9/14/2018	3.48	9/14/2028	110.85173	107.9397333	105.1199269	102.3888333	99.74313395	97.17965642	94.69536705	92.28736387	89.95286987
180914A00049	9/14/2018	3.37	9/14/2033	115.05874	110.6115484	106.4109993	102.4408713	98.68614113	95.13288664	91.76819805	88.58009744	85.55746485
180920A00014	9/20/2018	3.59	9/20/2028	111.23017	108.2955356	105.4542325	102.7027561	100.0377559	97.45602716	94.95450366	92.53025063	90.18045836
180925A00013	9/25/2018	3.41	9/25/2028	105.58279	104.0550069	102.5644321	101.1098516	99.69009991	98.30405879	96.95065497	95.62885797	94.33767801
180925A00116	9/25/2018	3.28	9/25/2028	105.49205	103.9640363	102.4732708	101.0185372	99.59866765	98.21254182	96.85908453	95.53726345	94.2460871
181004A00029	10/4/2018	3.7	10/4/2028	111.70074	108.7194102	105.8339672	103.0408211	100.3365326	97.71780942	95.18149908	92.72458229	90.3441665
181010A00025	10/10/2018	3.48	10/10/2030	110.07625	107.3628938	104.7506317	102.2348233	99.81107618	97.4752307	95.22334575	93.05168592	90.95670925
181029A00051	2/5/2019	3.69	2/5/2029	113.02611	109.6739611	106.4402374	103.3200329	100.3086805	97.40173654	94.59496802	91.88434122	89.26601093

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
181029A00097	10/29/2018	3.53	10/27/2028	110.43371	107.6564367	104.9696739	102.3699146	99.8538113	97.41816618	95.05992298	92.77616004	90.56408349
181031A00070	3/1/2019	3.77	3/1/2029	113.57565	110.1405523	106.828933	103.6355856	100.5555623	97.58415672	94.71688989	91.94949783	89.27791942
181109A00028	11/9/2018	3.72	11/9/2026	103.7032	102.7356569	101.7861876	100.8542914	99.93948328	99.04129578	98.15927843	97.29299692	96.44203238
181109A00029	11/9/2018	3.72	11/9/2026	103.7032	102.7356569	101.7861876	100.8542914	99.93948328	99.04129578	98.15927843	97.29299692	96.44203238
181211A00042	12/11/2018	3.7	12/11/2028	111.03694	108.1777877	105.4152902	102.7455681	100.1649228	97.6698275	95.2569179	92.9229838	90.66496085
181214A00030	12/14/2018	3.47	12/14/2033	124.63196	116.7769537	109.5197331	102.8105514	96.60408622	90.85902567	85.53769228	80.60570401	76.03166859
181218A00040	12/18/2018	3.23	6/18/2030	108.59595	106.0976076	103.6870785	101.3605258	99.11431322	96.94498886	94.84927447	92.8240556	90.86637222
181220A00041	12/20/2018	3.36	12/18/2026	103.72601	102.649707	101.5957505	100.56345	99.55214243	98.56119155	97.58998664	96.63794123	95.70449184
181226A00030	12/26/2018	2.91	12/26/2028	105.36644	103.711034	102.0984898	100.5273438	98.99619644	97.50370645	96.04858796	94.62960781	93.24558295
181227A00019	12/28/2020	3.1	12/29/2025	100.24377	100.1632021	100.0827661	100.0024623	99.92229061	99.84225058	99.76234193	99.68256435	99.60291752
181227A00027	12/27/2018	3.24	12/26/2025	100.22905	100.1568052	100.0846722	100.012652	99.94074416	99.8689485	99.79726476	99.72569267	99.65423197
181227A00028	12/27/2018	3.46	12/27/2028	111.86708	108.6465431	105.5368258	102.5334708	99.63222958	96.82904984	94.12006492	91.50158421	88.97008394
190102A00015	1/2/2019	2.97	1/3/2034	113.28103	108.8860942	104.7396017	100.8248318	97.12632515	93.62978256	90.32197009	87.19063184	84.22441074
190102A00020	1/2/2019	2.97	1/3/2034	113.28103	108.8860942	104.7396017	100.8248318	97.12632515	93.62978256	90.32197009	87.19063184	84.22441074
190102A00022	1/2/2019	2.97	1/3/2034	113.28103	108.8860942	104.7396017	100.8248318	97.12632515	93.62978256	90.32197009	87.19063184	84.22441074
190102A00024	1/2/2019	2.97	1/3/2034	113.28103	108.8860942	104.7396017	100.8248318	97.12632515	93.62978256	90.32197009	87.19063184	84.22441074
190102A00050	1/2/2019	3.38	1/3/2034	127.18822	118.2981706	110.1119908	102.5698922	95.61747148	89.20519731	83.28795044	77.82460905	72.7776753
190103A00020	1/3/2019	3.12	1/5/2026	100.57377	100.3878474	100.2026167	100.0180748	99.83421772	99.65104174	99.46854304	99.28671784	99.10556241
190104A00006	1/4/2019	2.83	1/5/2026	100.25347	100.161792	100.0702878	99.97895407	99.88779024	99.79679588	99.7059705	99.61531363	99.52482479
190104A00033	1/4/2019	3.37	1/31/2029	111.93215	108.6130817	105.4109795	102.3210163	99.33859709	96.45934566	93.67909255	90.99386381	88.3998704
190104A00034	1/4/2019	3.18	1/4/2029	109.25507	106.5154991	103.8673183	101.3068538	98.83060617	96.43524003	94.11757526	91.8745786	89.70335578
190104A00035	1/4/2019	3.1	1/5/2026	100.56971	100.3838998	100.1987834	100.0143551	99.83061103	99.64754741	99.46516044	99.28344635	99.10240141
190104A00038	1/4/2019	3.25	1/4/2029	110.8333	107.7248887	104.724347	101.8272449	99.02936939	96.32670737	93.71543514	91.19190792	88.75265016
190110A00005	1/10/2019	3.2	1/9/2026	100.35132	100.2401764	100.1292934	100.018669	99.90830222	99.79819207	99.68833763	99.57873799	99.46939222
190111A00026	1/11/2019	3.48	1/11/2034	128.06909	119.1215697	110.8833384	103.2940467	96.2987906	89.84759227	83.89493407	78.39933852	73.32299004
190118A00006	1/18/2019	3.14	1/18/2034	114.55813	109.9494608	105.6058815	101.5093595	97.64323364	93.99210276	90.54172147	87.2789052	84.19144378
190122A00045	1/22/2019	3.17	1/22/2027	104.0344	102.8556851	101.7036732	100.5774628	99.47619392	98.39904415	97.34522701	96.31398987	95.30461219
190122A00046	1/22/2019	3.29	1/22/2029	111.82176	108.5238872	105.3416643	102.2703413	99.30539899	96.44253168	93.67763588	91.00679921	88.42629022
190129A00073	1/29/2019	3.11	1/29/2029	105.73431	104.0315086	102.3736187	100.7590871	99.18642661	97.65421282	96.16108078	94.7057221	93.28688222
190131A00013	1/31/2019	3.48	1/31/2034	124.64364	116.6239114	109.2234413	102.3899822	96.07599937	90.23822146	84.83723473	79.8371184	75.20511626
190131A00019	1/31/2019	3.44	1/30/2034	127.86196	118.8697197	110.5944326	102.9747657	95.95494584	89.48423171	83.51643489	78.00948874	72.9250603
190131A00023	1/31/2019	3.02	1/30/2034	114.01053	109.4235231	105.1004023	101.0232084	97.1753536	93.54150454	90.10747882	86.86015046	83.78736376
190205A00017	2/5/2019	3.36	2/5/2029	111.28726	108.0961216	105.0179471	102.0480189	99.1818536	96.41518372	93.74394609	91.16427042	88.67246868

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
190205A00020	2/5/2019	3.32	2/5/2029	111.32323	108.1283444	105.0466216	102.0733416	99.20401007	96.43434926	93.76028634	91.17794191	88.68361943
190205A00021	2/5/2019	3.32	2/5/2029	111.32323	108.1283444	105.0466216	102.0733416	99.20401007	96.43434926	93.76028634	91.17794191	88.68361943
190205A00022	2/5/2019	3.32	2/5/2029	111.32323	108.1283444	105.0466216	102.0733416	99.20401007	96.43434926	93.76028633	91.17794191	88.68361943
190205A00023	2/5/2019	3.32	2/5/2029	111.32323	108.1283444	105.0466216	102.0733416	99.20401007	96.43434926	93.76028633	91.17794191	88.68361943
190211A00017	2/11/2019	3.12	2/11/2026	100.63793	100.4349145	100.2327313	100.0313727	99.83083373	99.63110929	99.43219437	99.23408401	99.03677327
190225A00026	2/25/2019	3.43	2/27/2034	127.98945	118.9060161	110.5531848	102.8679082	95.79291151	89.27613227	83.27021958	77.73208399	72.6224927
190227A00033	2/27/2019	2.65	2/27/2026	100.46055	100.2916662	100.1234359	99.95585391	99.78891603	99.62261826	99.45695658	99.29192702	99.12752565
190301A00012	3/1/2019	3.41	3/1/2029	112.38253	108.9671418	105.6747021	102.5000233	99.43817543	96.48446898	93.63444142	90.88384435	88.22863164
190305A00015	3/5/2019	3.32	3/5/2029	111.42252	108.1537393	105.0031503	101.9658198	99.03705069	96.21236605	93.48749786	90.85837595	88.32111781
190305A00017	3/5/2019	3.12	3/5/2026	101.09093	100.7430324	100.3975448	100.0544395	99.71369171	99.37527714	99.0391718	98.70535203	98.37379452
190308A00016	3/8/2019	3.18	3/8/2034	121.84495	114.3159734	107.3608655	100.9314019	94.98369618	89.47778808	84.37727177	79.64896104	75.26258765
190308A00026	3/8/2019	3.18	3/8/2034	121.84495	114.3159734	107.3608655	100.9314019	94.98369618	89.47778808	84.37727177	79.64896104	75.26258765
190315A00017	3/15/2019	2.88	3/15/2034	113.59836	108.9389733	104.5523614	100.4196622	96.52346959	92.84771432	89.37755148	86.09925873	83.0001434
190315A00019	3/15/2019	2.88	3/15/2034	113.59836	108.9389733	104.5523614	100.4196622	96.52346959	92.84771432	89.37755148	86.09925873	83.0001434
190315A00023	3/15/2019	2.88	3/15/2034	113.59836	108.9389733	104.5523614	100.4196622	96.52346959	92.84771432	89.37755148	86.09925873	83.0001434
190315A00029	3/15/2019	2.88	3/15/2034	113.59836	108.9389733	104.5523614	100.4196622	96.52346959	92.84771432	89.37755148	86.09925873	83.0001434
190322A00008	3/22/2019	2.64	3/20/2026	100.54802	100.3427464	100.1384535	99.93513173	99.73277352	99.53137138	99.33091791	99.13140579	98.93282776
190327A00030	3/27/2019	2.9	3/27/2036	115.18269	109.6408546	104.4822963	99.6757847	95.19292166	91.00786074	87.09705841	83.43905135	80.01425676
190402A00004	4/2/2019	2.9	4/2/2029	111.21574	107.7245193	104.362177	101.1232933	98.00270086	94.9954758	92.0969247	89.30257271	86.60815216
190402A00005	4/2/2019	2.77	4/2/2032	112.93236	108.3842053	104.0867305	100.0239093	96.18084815	92.54370009	89.09958476	85.83651533	82.7433311
190403A00010	4/3/2019	3.08	4/3/2029	111.09429	107.699479	104.4307764	101.2827947	98.25040753	95.32873455	92.5131283	89.79916182	87.18261687
190403A00013	4/3/2019	3.05	4/3/2029	110.76698	107.4447601	104.2451972	101.1630632	98.19338596	95.33143206	92.57269339	89.91287541	87.34788576
190403A00014	4/3/2019	3.05	4/3/2029	110.76698	107.4447601	104.2451972	101.1630632	98.19338596	95.33143206	92.57269339	89.91287541	87.34788576
190404A00015	4/4/2019	2.88	4/3/2026	101.24066	100.8141462	100.3912348	99.97187867	99.55603299	99.14365378	98.73469776	98.32912239	97.92688583
190409A00019	4/9/2019	2.91	4/9/2029	111.31337	107.8004295	104.41786	101.1601406	98.02201809	94.99848797	92.08478144	89.27635295	86.56886856
190422A00030	4/22/2019	2.93	12/22/2025	100.17238	100.111293	100.0502943	99.98938384	99.92856141	99.86782683	99.80717991	99.74662045	99.68614827
190426A00023	4/26/2019	2.91	6/24/2026	101.69311	101.1189166	100.5512088	99.98987255	99.43480088	98.8858893	98.34303562	97.80613989	97.27510435
190501A00015	5/1/2019	2.78	5/1/2029	105.61777	103.7480068	101.9312539	100.1655725	98.44911336	96.78010787	95.15686444	93.57776433	92.04125798
190502A00016	5/2/2019	2.87	5/1/2026	101.47269	100.9661187	100.4646181	99.96810831	99.47651496	98.98976529	98.50778793	98.0305129	97.55787159
190506A00026	5/6/2019	3.03	5/4/2029	111.17801	107.7023269	104.3586968	101.1413467	98.04478884	95.06380559	92.19343438	89.42895387	86.76587077
190510A00049	5/10/2019	2.58	5/8/2026	100.77865	100.4836383	100.190744	99.89993889	99.61119822	99.32449755	99.03981288	98.75712061	98.47639754
190515A00035	5/15/2019	2.82	2/15/2029	110.01831	106.7658385	103.6301977	100.6064987	97.69009064	94.87654509	92.16164342	89.54136571	87.01188004
190520A00020	5/20/2019	2.39	5/20/2026	100.73096	100.4405312	100.1521377	99.86575468	99.58135886	99.29892741	99.01843786	98.7398681	98.46319637

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
190529A00061	5/29/2019	2.46	5/29/2026	100.74324	100.4483317	100.1555402	99.86483733	99.57619811	99.28959818	99.00501354	98.7224206	98.44179616
190531A00037	5/31/2019	2.61	5/31/2029	110.7013	107.0530485	103.5456827	100.1730029	96.92911307	93.80840827	90.80555848	87.91549364	85.13338944
190531A00038	5/31/2019	2.82	5/31/2034	123.29443	114.1461893	105.7590262	98.06535174	91.00391607	84.51918155	78.5607632	73.08292638	68.04413579
190605A00007	6/5/2019	2.47	6/5/2026	101.50673	100.9075162	100.3153965	99.7302501	99.15195392	98.58038798	98.01543508	97.4569807	96.90491296
190605A00023	6/5/2019	2.64	6/5/2029	110.23193	106.6977999	103.3005881	100.0341904	96.89280779	93.8709332	90.96333519	88.16504229	85.47132841
190605A00024	6/5/2019	2.64	6/5/2029	110.23193	106.6977999	103.3005881	100.0341904	96.89280779	93.8709332	90.96333519	88.16504229	85.47132841
190605A00025	6/5/2019	2.64	6/5/2029	110.23193	106.6977999	103.3005881	100.0341904	96.89280779	93.8709332	90.96333519	88.16504229	85.47132841
190605A00027	6/5/2019	2.64	6/5/2029	110.23193	106.6977999	103.3005881	100.0341904	96.89280779	93.8709332	90.96333519	88.16504229	85.47132841
190606A00027	6/6/2019	2.51	6/5/2026	101.35377	100.832988	100.3175557	99.80738845	99.30240588	98.80252914	98.30768104	97.8177859	97.33276958
190606A00028	6/6/2019	2.74	6/6/2029	110.9554	107.2922138	103.7708019	100.3849052	97.12857574	93.99616002	90.98228295	88.08183239	85.28994479
190606A00029	6/6/2019	2.96	6/6/2034	123.87849	114.71986	106.3226104	98.61912687	91.5481381	85.05408867	79.08657873	73.59986121	68.55239036
190620A00033	6/20/2019	2.1	6/20/2029	104.68049	102.7799088	100.9343451	99.14175361	97.40018207	95.70776511	94.06271955	92.4633402	90.90799588
190625A00023	6/25/2019	2.47	6/25/2027	104.43061	102.8370946	101.2758381	99.74593124	98.2464981	96.77669517	95.33570976	93.92275858	92.53708642
190628A00007	6/28/2019	2.28	6/28/2034	110.76679	106.2296653	101.9613448	97.94294461	94.15706309	90.58765765	87.21992876	84.04021469	81.03589582
190702A00068	7/2/2019	2.69	7/1/2039	123.21326	111.9562486	101.9910915	93.1554683	85.30864471	78.32847272	72.10882537	66.55739889	61.59382789
190702A00071	7/2/2019	2.69	7/1/2039	123.21326	111.9562486	101.9910915	93.1554683	85.30864471	78.32847272	72.10882537	66.55739889	61.59382789
190703A00017	7/3/2019	2.33	5/4/2026	101.03992	100.6087293	100.181215	99.75733128	99.33703203	98.92027187	98.5070062	98.09719117	97.69078364
190708A00028	7/8/2019	2.57	7/2/2029	110.17538	106.5745482	103.1155547	99.79196093	96.59766027	93.52685995	90.57406275	87.73404998	85.00186549
190708A00029	7/8/2019	2.57	7/2/2029	110.17538	106.5745482	103.1155547	99.79196093	96.59766027	93.52685995	90.57406275	87.73404998	85.00186549
190708A00030	7/8/2019	2.57	7/2/2029	110.17538	106.5745482	103.1155547	99.79196093	96.59766027	93.52685995	90.57406275	87.73404998	85.00186549
190708A00032	7/8/2019	2.58	7/2/2029	110.02732	106.4337485	102.9816413	99.66458392	96.47648916	93.41158244	90.46438365	87.62969014	84.90256087
190712A00016	7/12/2019	2.39	7/12/2029	105.21908	103.26854	101.375383	99.53745289	97.75268773	96.0191182	94.33486269	92.69812276	91.10717883
190718A00012	7/18/2019	2.55	7/18/2029	109.59087	106.1736174	102.889561	99.73265645	96.69717367	93.77767855	90.96901538	88.26629076	85.66485835
190724A00021	7/24/2019	2.33	7/23/2027	104.54334	102.8702813	101.2321844	99.62801958	98.05679751	96.51756746	95.00941525	93.53146152	92.08286005
190724A00024	7/24/2019	2.49	7/24/2029	110.69421	106.8938488	103.2451328	99.7411462	96.37533511	93.14148224	90.03368752	87.04634982	84.17414988
190726A00017	7/26/2019	2.44	7/24/2026	101.66694	101.0092782	100.3601133	99.71928297	99.08662729	98.4619905	97.84522075	97.23617001	96.63469395
190802A00011	8/2/2019	2.01	8/2/2029	104.71454	102.7291425	100.8032095	98.93446707	97.120748	95.35998371	93.65019899	91.98950705	90.37610491
190807A00021	8/7/2019	2	8/7/2026	101.46256	100.7668771	100.0807097	99.40386728	98.73616057	98.07740548	97.42742279	96.78603809	96.15308151
190809A00020	8/9/2019	2.44	8/9/2034	120.26007	111.0488431	102.6220222	94.90848385	87.84391145	81.37010756	75.4343821	69.98900457	64.99071353
190809A00021	8/9/2019	2.12	8/9/2029	109.4199	105.5990726	101.9324478	98.41291584	95.03374373	91.78854852	88.67127675	85.67618524	82.79782312
190813A00051	8/13/2019	2.19	8/13/2029	109.05272	105.3787045	101.8531982	98.46933446	95.22060595	92.10084327	89.10419502	86.22510946	83.45831732
190813A00052	8/13/2019	2.24	8/13/2029	109.04954	105.3792518	101.8572143	98.47658096	95.23085982	92.11389558	89.11985005	86.24318384	83.47863919
190814A00003	8/14/2019	2.01	8/14/2029	109.0361	105.2087101	101.5363334	98.01179846	94.62831549	91.37944892	88.25909666	85.26147046	82.38107772

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
190819A00030	8/19/2019	2.01	8/20/2029	109.07338	105.2288016	101.540489	98.00118665	94.60402601	91.34249849	88.2104341	85.20198147	82.31158928
190820A00021	8/20/2019	2.13	8/20/2029	109.25393	105.4133337	101.7286193	98.19256461	94.79832489	91.53941359	88.40968128	85.40329581	82.51472376
190823A00009	8/23/2019	1.8	8/23/2029	104.248	102.2911921	100.3927968	98.55058578	96.7624323	95.02630629	93.34026934	91.70246987	90.11113851
190826A00018	8/26/2019	1.9	8/27/2029	108.69643	104.8397491	101.1405628	97.59152712	94.18568973	90.91646443	87.77760934	84.76320651	81.86764285
190826A00030	8/26/2019	1.72	8/26/2026	101.42129	100.672473	99.9346755	99.2076587	98.49118762	97.78503408	97.08897641	96.40279928	95.72629343
190826A00032	8/26/2019	1.72	8/24/2029	104.13699	102.1610873	100.2444279	98.38474607	96.57987961	94.82776487	93.12643149	91.4739975	89.86866465
190826A00058	8/26/2019	1.91	8/26/2026	101.51122	100.7627203	100.0252262	99.29849718	98.58229887	97.87640359	97.18059024	96.49464398	95.81835604
190826A00060	8/26/2019	2.02	8/26/2027	104.13725	102.3776197	100.6561539	98.97168153	97.32307551	95.70925505	94.12918313	92.58186429	91.06634249
190826A00063	8/26/2019	2.05	8/28/2028	106.6744	103.8695517	101.152679	98.52044146	95.96965071	93.49726311	91.10037177	88.7761993	86.52209089
190826A00065	8/26/2019	2.09	8/28/2029	109.15189	105.2912785	101.5881423	98.03514387	94.62533626	91.35213808	88.20931189	85.19094379	82.2914244
190828A00015	8/28/2019	2.04	8/28/2029	108.96089	105.1038989	101.4042695	97.85467391	94.44816905	91.17817732	88.03846487	85.02312122	82.12654027
190828A00019	8/28/2019	2	3/28/2028	105.54509	103.1765418	100.8728617	98.63190902	96.45162896	94.33004621	92.26526163	90.25544872	88.29885043
190828A00020	8/28/2019	1.95	5/28/2027	103.40793	101.9008441	100.423387	98.97475943	97.55419199	96.16094212	94.79429298	93.45355231	92.13805138
190829A00032	8/29/2019	1.69	8/28/2026	100.77866	100.3563539	99.93848943	99.52499095	99.11578225	98.71078899	98.30993866	97.91316049	97.52038545
190829A00039	8/29/2019	1.85	8/29/2034	109.19094	104.4977262	100.0913247	95.9510851	92.05801718	88.39464461	84.94487364	81.69387377	78.62796955
190829A00045	8/29/2019	1.9	8/28/2026	101.51539	100.7613353	100.0184423	99.28646891	98.56517586	97.85433072	97.15370779	96.46308781	95.78225778
190830A00002	8/30/2019	1.93	8/28/2026	101.53799	100.7838327	100.0408467	99.30878128	98.58739715	97.87646185	97.17574967	96.48504135	95.80412387
190905A00019	9/5/2019	2.08	9/5/2029	108.77036	105.0496746	101.4814816	98.0587081	94.77464282	91.62291955	88.59749742	85.69264262	82.90291119
190905A00021	9/5/2019	2.08	9/5/2029	108.77036	105.0496746	101.4814816	98.0587081	94.77464282	91.62291955	88.59749742	85.69264262	82.90291119
190905A00023	9/5/2019	2.08	9/5/2029	108.77036	105.0496746	101.4814816	98.0587081	94.77464282	91.62291955	88.59749742	85.69264262	82.90291119
190905A00024	9/5/2019	2.08	9/5/2029	108.77036	105.0496746	101.4814816	98.0587081	94.77464282	91.62291955	88.59749742	85.69264262	82.90291119
190905A00025	9/5/2019	2.08	9/5/2029	108.77036	105.0496746	101.4814816	98.0587081	94.77464282	91.62291955	88.59749742	85.69264262	82.90291119
190910A00044	9/10/2019	2.02	9/10/2026	101.85495	100.9912924	100.1423565	99.30776765	98.48716352	97.68019392	96.88652025	96.10581509	95.33776167
190911A00016	9/11/2019	1.9	9/11/2029	104.59468	102.5683813	100.6038354	98.69865306	96.85055159	95.05735339	93.31698041	91.62744881	89.986864
190913A00018	9/13/2019	2.11	9/11/2026	101.01407	100.5528859	100.0969723	99.64623348	99.2005719	98.75989253	98.32410287	97.89311282	97.46683462
190923A00012	9/23/2019	2.43	9/25/2034	120.34488	111.0022258	102.4656017	94.66109146	87.52191314	80.98769738	75.00384215	69.52093534	64.49423782
190923A00020	9/23/2019	2.05	9/24/2029	109.4523	105.5022588	101.7162546	98.08662864	94.60611671	91.26783084	88.06523752	84.99213754	82.04264705
190925A00009	9/25/2019	2	9/25/2026	101.90719	101.0140665	100.1368011	99.2749708	98.4281692	97.59600389	96.77809613	95.97408012	95.18360253
190926A00002	9/30/2019	2.01	9/29/2034	110.02123	105.2492022	100.7712467	96.56602285	92.61392006	88.89690263	85.39837199	82.10304186	78.99682511
190926A00015	9/26/2019	2.32	11/26/2030	112.97946	107.7640178	102.8215626	98.13638758	93.69376851	89.4798989	85.48182814	81.68740401	78.08521942
190926A00016	9/26/2019	2.28	5/24/2030	111.66736	107.0015217	102.5582526	98.32577983	94.29301119	90.44949565	86.78538297	83.291386	79.95874554
190926A00017	9/26/2019	2.23	9/26/2029	109.88446	105.9281053	102.1359859	98.50043453	95.01418655	91.67035222	88.46239552	85.38411406	82.42962023
190930A00075	9/30/2019	2.19	9/29/2027	104.69054	102.8309227	101.0133332	99.23657224	97.49948499	95.80095672	94.13991111	92.51530867	90.92614521

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
190930A00077	9/30/2019	2.23	9/28/2029	109.89814	105.9358616	102.1382639	98.49766536	95.0067801	91.65869793	88.44686282	85.36505291	82.4073618
191004A00001	10/4/2019	2.47	10/4/2034	120.06193	110.7399528	102.2232006	94.43774751	87.31680459	80.80000164	74.8327411	69.36561995	64.353912
191004A00002	10/4/2019	2.08	10/4/2029	109.34899	105.3807648	101.5782263	97.93362297	94.43960301	91.08919397	87.87578131	84.7930882	81.83515654
191004A00003	10/4/2019	1.89	10/5/2026	101.73526	100.8749382	100.0291158	99.19743024	98.3795294	97.57507274	96.78373087	96.00518508	95.23912691
191004A00017	10/4/2019	2.02	10/4/2029	108.7015	104.911118	101.2790489	97.79780308	94.46028725	91.25978013	88.1899107	85.24463806	82.4182326
191004A00019	10/4/2019	2.02	10/4/2029	108.7015	104.911118	101.2790489	97.79780308	94.46028725	91.25978013	88.1899107	85.24463806	82.4182326
191004A00022	10/4/2019	2.02	10/4/2029	108.7015	104.911118	101.2790489	97.79780308	94.46028725	91.25978013	88.1899107	85.24463806	82.4182326
191004A00023	10/4/2019	2.02	10/4/2029	108.7015	104.911118	101.2790489	97.79780308	94.46028725	91.25978013	88.1899107	85.24463806	82.4182326
191004A00032	10/4/2019	2.01	1/3/2028	104.99526	102.8692633	100.7969477	98.77658984	96.80653766	94.88520445	93.01106573	91.18265626	89.39856723
191007A00029	10/7/2019	1.88	10/9/2029	108.87648	104.8959957	101.0825471	97.42828312	93.92576009	90.5679204	87.34807031	84.25985933	81.29726089
191008A00007	10/8/2019	1.67	10/9/2029	104.21274	102.151603	100.15434	98.21844716	96.34153488	94.52132434	92.7556417	91.04241249	89.37965634
191008A00014	10/8/2019	1.85	10/8/2026	101.88085	100.939061	100.0147747	99.10750554	98.21678555	97.34216396	96.4832062	95.63949327	94.81062099
191009A00009	10/9/2019	1.8	10/9/2026	100.95414	100.4516334	99.9554133	99.46534822	98.98131139	98.50317977	98.03083381	97.56415736	97.10303754
191011A00027	10/11/2019	1.84	10/11/2029	104.56822	102.4998743	100.4956384	98.55299546	96.6695467	94.84300466	93.07118729	91.35201227	89.68349179
191015A00025	10/15/2019	2.01	10/15/2029	104.77695	102.706593	100.7003544	98.7557228	96.87030041	95.04180071	93.26804246	91.54694406	89.87651828
191017A00022	10/17/2019	2.25	7/17/2028	106.93974	104.2458281	101.6336441	99.10019282	96.64261302	94.25816764	91.94423749	89.6983153	87.518
191017A00026	10/17/2019	2.3	7/17/2029	109.66738	105.9123529	102.3065554	98.84321466	95.51590988	92.31854837	89.24534654	86.29081223	83.44972816
191021A00021	10/21/2019	2.22	12/21/2027	105.34885	103.2544083	101.2122424	99.22069796	97.27818839	95.38318883	93.5342331	91.72991103	89.96886582
191025A00009	10/25/2019	2.26	5/25/2029	109.15106	105.553431	102.0942466	98.76743641	95.56723159	92.48814666	89.52496388	86.67271867	83.92668591
191025A00010	10/25/2019	2.24	7/25/2028	106.96895	104.2527958	101.6195625	99.06619091	96.58975822	94.18746973	91.8566521	89.59474716	87.39930602
191031A00033	10/31/2019	2.2	5/31/2028	106.46945	103.9127276	101.4308418	99.02116448	96.68117892	94.40847215	92.2007298	90.05573147	87.97134625
191101A00004	11/1/2019	1.91	11/1/2029	108.14526	104.5310127	101.0672275	97.74673145	94.56273468	91.50880823	88.57886252	85.76712753	83.06813421
191101A00005	11/1/2019	1.83	11/2/2026	102.07976	101.071207	100.0826831	99.11359705	98.16337857	97.23147952	96.31737284	95.4205515	94.54052762
191104A00022	11/4/2019	2.17	8/4/2027	104.244	102.54303	100.8780553	99.24800218	97.65183621	96.08856407	94.55723138	93.05692078	91.58675009
191104A00023	11/4/2019	2.24	8/4/2028	107.03873	104.2943099	101.6343315	99.05565047	96.5552659	94.13030962	91.77803937	89.49583223	87.28117842
191104A00024	11/4/2019	2.26	8/3/2029	109.63355	105.8324989	102.1840741	98.68127808	95.31747688	92.08637971	88.98201886	85.99873087	83.13113913
191104A00025	11/4/2019	2.33	8/2/2030	112.33971	107.4633209	102.8276324	98.41945733	94.22640512	90.23682949	86.4397791	82.82495207	79.38265371
191105A00007	11/5/2019	1.98	11/5/2026	102.07888	101.1298996	100.1984978	99.28419335	98.38651878	97.50502359	96.6392734	95.78884927	94.95334699
191105A00012	11/5/2019	2.07	11/3/2034	110.45048	105.574087	101.0030987	96.71501965	92.68920004	88.90667172	85.34999918	82.00314469	78.85134623
191106A00022	11/6/2019	2.34	1/2/2030	110.98417	106.7338751	102.6706671	98.78530004	95.06903567	91.51361404	88.11122451	84.85447864	81.73638497
191108A00013	11/8/2019	2.25	11/8/2029	110.53859	106.4423459	102.5210162	98.76621903	95.17002221	91.72491308	88.42377401	85.25985949	82.22677472
191108A00014	11/8/2019	2.25	11/8/2029	110.53859	106.4423459	102.5210162	98.76621903	95.17002221	91.72491308	88.42377401	85.25985949	82.22677472
191112A00022	11/12/2019	2.36	11/13/2029	110.24479	106.3178478	102.5586406	98.95904624	95.51138034	92.20837177	89.04313805	86.00916232	83.10027182

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
191112A00023	11/12/2019	2.36	11/13/2029	110.24479	106.3178478	102.5586406	98.95904624	95.51138034	92.20837177	89.04313805	86.00916232	83.10027182
191113A00013	11/13/2019	2.17	11/13/2026	102.43505	101.395191	100.3765809	99.3785719	98.40054191	97.4418938	96.50205404	95.58047155	94.67661665
191115A00028	11/15/2019	2.34	9/28/2029	110.32791	106.3573218	102.5516649	98.90325033	95.40478293	92.04934358	88.83036773	85.74162542	82.77720248
191115A00029	11/15/2019	2.07	11/15/2029	104.93687	102.8481189	100.8248063	98.86433316	96.96422709	95.12213139	93.33579887	91.60308598	89.92194722
191115A00030	11/15/2019	2.35	11/9/2029	110.65446	106.561216	102.6426392	98.89037057	95.29649187	91.85350329	88.5542993	85.39214578	82.36065856
191120A00005	11/20/2019	2.63	11/20/2034	121.68006	112.1619867	103.4753034	95.54274975	88.29461955	81.66799007	75.60603045	70.05738369	64.97561419
191120A00006	11/20/2019	2.67	11/20/2035	123.4254	112.8480064	103.2837551	94.62974901	86.79404608	79.69444295	73.25739847	67.4170811	62.11452539
191120A00024	11/20/2019	2.23	11/16/2029	110.21819	106.1138428	102.1855705	98.4249004	94.82381207	91.37471128	88.07040504	84.90407823	81.86927175
191121A00009	11/21/2019	2.55	11/21/2036	123.93406	112.3207225	101.9204486	92.59938808	84.23911527	76.7347812	69.99349548	63.9329079	58.47996453
191121A00010	11/21/2019	2.59	11/20/2037	125.01136	112.3974629	101.2048866	91.26480707	82.42928802	74.56859955	67.56889524	61.33019535	55.76463503
191121A00034	11/21/2019	2.28	11/2/2029	110.32499	106.2580854	102.3639795	98.6344379	95.06166142	91.63826093	88.35723386	85.21194187	82.19608998
191122A00003	11/22/2019	2.32	11/22/2039	118.23724	108.0474544	98.98421369	90.90842295	83.69936301	77.25214225	71.4755131	66.29000241	61.62630898
191122A00018	11/26/2019	3.11	11/22/2039	132.74318	117.86429	104.8834652	93.54508577	83.62930468	74.94687628	67.33475433	60.65234255	54.77829803
191122A00020	11/26/2019	3.2	11/23/2037	131.4516	118.5131515	107.0186047	96.7973427	87.69978978	79.59471592	72.36690138	65.91510878	60.15032111
191122A00021	11/26/2019	3.4	11/22/2038	135.1666	121.0591673	108.6332087	97.67651974	88.00480003	79.45785215	71.89631641	65.19886217	59.25977007
191125A00036	11/25/2019	2.29	11/23/2029	110.5088	106.378824	102.4267932	98.64410103	95.02260681	91.55460472	88.23279804	85.0502752	82.00048737
191126A00026	11/26/2019	1.91	11/25/2026	102.14699	101.1419628	100.1566341	99.19042989	98.24279757	97.31320574	96.40114308	95.50611745	94.62765496
191203A00009	12/3/2019	2.21	12/3/2029	109.77355	105.8092139	102.0161055	98.38583512	94.91047593	91.5825328	88.39491616	85.34091761	82.41418719
191203A00010	12/3/2019	2.21	12/3/2029	109.77355	105.8092139	102.0161055	98.38583512	94.91047593	91.5825328	88.39491616	85.34091761	82.41418719
191203A00011	12/3/2019	2.21	12/3/2029	109.77355	105.8092139	102.0161055	98.38583512	94.91047593	91.5825328	88.39491616	85.34091761	82.41418719
191206A00005	12/6/2019	2.18	12/7/2026	102.63567	101.5269401	100.442325	99.38104274	98.34234441	97.32551288	96.32986115	95.35473076	94.39949033
191206A00008	12/6/2019	2.44	12/6/2030	113.65148	108.3913553	103.4076246	98.68431348	94.20645467	89.96001836	85.93184845	82.10960362	78.48170268
191206A00009	12/6/2019	2.87	12/4/2037	127.50107	114.7628517	103.4565109	93.41201614	84.48038824	76.53099307	69.44919813	63.13433888	57.49795234
191206A00013	12/6/2019	3.05	12/6/2044	145.74661	125.2278809	108.0702057	93.69090583	81.61192493	71.4405245	62.85362729	55.58510297	49.41543134
191209A00005	12/9/2019	2.22	12/10/2029	109.21847	105.4957667	101.9309158	98.5162421	95.24449201	92.10880594	89.10269438	86.22001568	83.45495531
191220A00001	12/20/2019	2.62	12/19/2031	116.76284	110.3588225	104.3505021	98.71133341	93.41668359	88.44368814	83.7711151	79.37924029	75.24973265
191220A00002	12/20/2019	3.02	12/20/2038	130.31937	116.4436318	104.2401723	93.4961999	84.02710095	75.67257635	68.29332635	61.768202	55.99175556
191223A00055	12/23/2019	2.46	12/7/2029	111.30078	107.1157005	103.1122571	99.28160172	95.61536178	92.10561599	88.74486728	85.52601775	82.4423452
191223A00056	12/23/2019	2.46	12/14/2029	111.35055	107.1451398	103.1229117	99.27490627	95.59265032	92.06812936	88.69375988	85.46236376	82.36714438
191224A00002	12/24/2019	2.17	12/24/2029	105.32853	103.1612151	101.0633125	99.03202537	97.06468726	95.1587583	93.31181828	91.52156014	89.78578384
191226A00019	12/26/2019	2.4	12/22/2028	108.50828	105.3540799	102.3085141	99.36722004	96.52603934	93.78100476	91.12833041	88.56440221	86.08576896
191226A00020	12/26/2019	2.44	12/21/2029	111.31746	107.0933979	103.0540198	99.19025381	95.49352781	91.95573526	88.56920743	85.32668725	82.22130481
200103A00002	1/3/2020	2.07	1/3/2030	109.04219	105.2671665	101.6544107	98.19592777	94.88416285	91.71197793	88.672626	85.75972713	82.9672462

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
200109A00006	1/9/2020	1.95	1/9/2030	105.10045	102.8934416	100.7582913	98.69206172	96.69195584	94.75531097	92.87959133	91.06238114	89.30137801
200109A00008	1/9/2020	1.95	1/9/2030	105.10045	102.8934416	100.7582913	98.69206172	96.69195584	94.75531097	92.87959133	91.06238114	89.30137801
200110A00037	1/10/2020	2.32	1/10/2030	110.442	106.366299	102.4702069	98.74473534	95.18140505	91.77220939	88.50958514	85.38638509	82.39585252
200110A00038	1/10/2020	2.32	1/10/2030	110.442	106.366299	102.4702069	98.74473534	95.18140505	91.77220939	88.50958514	85.38638509	82.39585252
200110A00039	1/10/2020	2.32	1/10/2030	110.442	106.366299	102.4702069	98.74473534	95.18140505	91.77220939	88.50958514	85.38638509	82.39585252
200110A00043	1/10/2020	2.32	1/10/2030	110.442	106.366299	102.4702069	98.74473534	95.18140505	91.77220939	88.50958514	85.38638509	82.39585252
200115A00013	1/15/2020	2.18	1/15/2030	108.39394	104.9518304	101.6531484	98.49092403	95.45857158	92.5498664	89.75892256	87.08017215	84.50834599
200116A00012	1/16/2020	2.16	1/19/2027	102.94126	101.7144046	100.5170091	99.34802058	98.20643417	97.09129202	96.00168053	94.93672779	93.89560125
200124A00008	1/24/2020	1.92	1/22/2027	102.58115	101.4114288	100.2682655	99.15076585	98.05807322	96.98936875	95.94386929	94.92082541	93.91951967
200130A00046	1/30/2020	1.81	1/29/2027	101.24052	100.6036125	99.97693605	99.36021348	98.75318112	98.15558513	97.567181	96.98773313	96.41701441
200131A00032	1/31/2020	2.1	1/31/2030	110.15507	105.8425223	101.7230366	97.78690836	94.0249779	90.42859624	86.98959354	83.70024952	80.55326603
200203A00046	2/3/2020	1.98	2/3/2040	112.62129	105.2669837	98.58936703	92.5160697	86.98322099	81.93438372	77.3196263	73.09471726	69.22042538
200204A00012	2/4/2020	1.98	2/4/2027	102.66601	101.4606089	100.2833822	99.13335423	98.00959127	96.91120168	95.83733378	94.78717368	93.7599431
200206A00027	2/6/2020	2.15	2/6/2030	109.89169	105.7703298	101.8331487	98.07082813	94.47457701	91.03609887	87.74756086	84.60156495	81.5911211
200206A00031	2/6/2020	2.15	2/6/2030	109.89169	105.7703298	101.8331487	98.07082813	94.47457701	91.03609887	87.74756086	84.60156495	81.5911211
200206A00032	2/6/2020	2.15	2/6/2030	109.89169	105.7703298	101.8331487	98.07082813	94.47457701	91.03609887	87.74756086	84.60156495	81.5911211
200206A00033	2/6/2020	2.15	2/6/2030	109.89169	105.7703298	101.8331487	98.07082813	94.47457701	91.03609887	87.74756086	84.60156495	81.5911211
200207A00017	2/7/2020	1.96	2/8/2027	102.67087	101.454253	100.2663369	99.10611911	97.97263983	96.86498308	95.78227429	94.72367801	93.68839573
200207A00018	2/7/2020	2.14	2/7/2030	110.37512	106.036747	101.8933495	97.93509044	94.15268329	90.53736185	87.08084773	83.77532012	80.61338773
200210A00005	2/10/2020	1.77	2/10/2027	102.53973	101.317041	100.1233581	98.95766147	97.81897621	96.70637217	95.61896144	94.55589607	93.51636573
200212A00013	2/12/2020	1.98	2/12/2027	102.86465	101.5884545	100.3400415	99.11850206	97.92296682	96.75260399	95.60661742	94.48424461	93.38475501
200220A00013	2/20/2020	2.09	12/14/2029	109.82486	105.6505258	101.6583836	97.83951689	94.18549041	90.68832542	87.34047259	84.13478639	81.06450129
200220A00014	2/20/2020	2.09	12/21/2029	109.86735	105.6729619	101.6623068	97.82635644	94.15657473	90.64488962	87.28366523	84.06567577	80.98408124
200220A00026	2/20/2020	2.22	2/21/2040	114.34512	106.3969804	99.21497405	92.71404328	86.81945193	81.46545088	76.5941224	72.15438117	68.10111003
200221A00012	2/21/2020	2.14	2/21/2040	113.70857	105.80801	98.66903157	92.20707358	86.3478409	81.02597308	76.18389519	71.77082472	67.74191226
200221A00023	2/21/2020	2.05	12/7/2029	109.61823	105.4672549	101.4968438	97.69818475	94.06294638	90.58324643	87.25162511	84.06102008	81.00474306
200221A00024	2/21/2020	2.05	12/28/2029	109.74333	105.5322961	101.5064368	97.65661316	93.97419165	90.45101024	87.0793497	83.85190705	80.76177077
200225A00017	2/25/2020	1.94	2/25/2030	109.63725	105.2600607	101.0819123	97.09264803	93.28268623	89.64298889	86.16502699	82.84074863	79.66254926
200225A00018	2/25/2020	1.94	2/25/2030	109.63725	105.2600607	101.0819123	97.09264803	93.28268623	89.64298889	86.16502699	82.84074863	79.66254926
200225A00028	2/25/2020	1.89	12/21/2029	109.03872	104.8612841	100.8670422	97.04698651	93.39260155	89.89583497	86.54906968	83.34509779	80.27709634
200225A00029	2/25/2020	1.89	12/28/2029	109.07727	104.8799323	100.8673251	97.03033327	93.36034011	89.84919956	86.48920767	83.273076	80.1939069
200225A00049	2/25/2020	1.79	2/24/2040	111.21513	103.964053	97.37809105	91.38636822	85.92630247	80.94256788	76.38619241	72.21377412	68.38679981
200226A00009	2/26/2020	1.75	2/26/2030	109.13476	104.756103	100.5770534	96.58739614	92.77750525	89.13830176	85.66121895	82.33817018	79.16151891

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
200227A00004	2/27/2020	1.65	2/27/2030	108.7069	104.334371	100.1614013	96.17777141	92.37384946	88.7405514	85.2693062	81.95202349	78.78106361
200227A00030	2/27/2020	1.59	2/27/2026	100.40414	100.1571181	99.91131275	99.66671094	99.42330388	99.18108286	98.94003925	98.7001645	98.46145015
200227A00046	2/27/2020	1.52	3/1/2027	101.1365	100.4581025	99.79133686	99.13586828	98.49137791	97.85755951	97.23411885	96.62077307	96.01725016
200228A00025	2/28/2020	1.57	3/2/2027	102.33335	101.058533	99.8145616	98.60032327	97.41475917	96.25686031	95.12566459	94.02025415	92.93975279
200228A00026	2/28/2020	2.14	2/28/2035	117.47688	107.8757102	99.1408677	91.18946956	83.94697179	77.34628948	71.32701459	65.83471951	60.82033668
200228A00059	2/28/2020	1.79	2/28/2030	109.00631	104.6335364	100.4601324	96.4758955	92.67120877	89.03700178	85.56471618	82.24627335	79.07404452
200228A00071	2/28/2020	1.74	12/14/2029	108.38165	104.2367018	100.2730191	96.48171612	92.85439319	89.38310548	86.06033596	82.87896997	79.83227133
200228A00091	2/28/2020	1.72	12/7/2029	108.26397	104.1404572	100.196633	96.42372719	92.81344129	89.35792458	86.04974727	82.88187562	79.84764865
200302A00036	3/2/2020	1.45	3/2/2026	100.38274	100.1274531	99.87346396	99.6207624	99.36933864	99.119183	98.8702859	98.62263787	98.37622952
200303A00012	3/3/2020	1.71	3/1/2030	108.66403	104.295863	100.127058	96.14741029	92.3472997	88.71765279	85.2499081	81.93598401	78.7682488
200303A00028	3/3/2020	1.54	3/4/2030	106.98788	103.1476427	99.47796232	95.97025832	92.61642755	89.40881597	86.34019135	83.40371783	80.59293212
200304A00010	3/4/2020	1.2	3/4/2027	101.96246	100.6842344	99.43637872	98.21781327	97.02751112	95.86449305	94.72782473	93.61661423	92.5300096
200304A00030	3/4/2020	1.6	12/22/2028	106.01185	102.896584	99.88894655	96.9846134	94.17945852	91.46954592	88.8511196	86.32059418	83.87454601
200304A00032	3/4/2020	1.6	12/15/2028	105.97694	102.8812001	99.89193105	97.00487835	94.21597949	91.52135795	88.91731343	86.40031272	83.9669811
200304A00052	3/6/2020	2.11	3/8/2027	103.06378	101.7705003	100.5066789	99.27130938	98.06343091	96.88212588	95.72651743	94.59576723	93.48907332
200304A00054	3/6/2020	2.35	3/8/2027	103.37278	102.0774033	100.8115172	99.57411822	98.36424459	97.18097772	96.02343983	94.89079168	93.78223047
200305A00030	3/5/2020	1.58	3/5/2030	108.11715	103.7498596	99.58248687	95.60478779	91.80710701	88.18033684	84.71588275	81.40563123	78.24191995
200305A00032	3/5/2020	1.58	3/5/2030	108.11715	103.7498596	99.58248687	95.60478779	91.80710701	88.18033684	84.71588275	81.40563123	78.24191995
200305A00035	3/5/2020	1.25	3/5/2026	100.3432	100.0796801	99.8175489	99.55679484	99.29740702	99.03937469	98.7826872	98.527334	98.27330469
200305A00036	3/5/2020	1.36	3/5/2027	102.08231	100.8024446	99.55265618	98.33188947	97.13913651	95.97343568	94.83386916	93.71956039	92.62967182
200305A00037	3/5/2020	1.43	3/6/2028	104.09013	101.7983927	99.56819116	97.39743824	95.28413543	93.22636798	91.22230062	89.27017353	87.36829853
200305A00038	3/5/2020	1.51	3/5/2029	106.10407	102.7815847	99.57999471	96.49418593	93.51929525	90.65069611	87.88398525	85.21497025	82.63965796
200305A00039	3/5/2020	1.58	3/5/2030	108.11715	103.7498596	99.58248687	95.60478779	91.80710701	88.18033684	84.71588275	81.40563123	78.24191995
200306A00001	3/6/2020	1.11	3/6/2026	100.30972	100.0434944	99.77868479	99.51528234	99.25327576	98.99265393	98.73340583	98.47552058	98.21898739
200306A00014	3/6/2020	1.38	3/6/2030	107.25067	102.8992681	98.74740294	94.78484285	91.00194413	87.38961004	83.93925632	80.64277917	77.4925254
200306A00022	3/6/2020	1.2	3/8/2027	101.89214	100.6068265	99.35083378	98.12315919	96.92284569	95.74897931	94.60068669	93.47713286	92.37751911
200306A00048	3/6/2020	1.04	3/6/2035	105.54346	100.7189894	96.20649816	91.982304	88.02472374	84.31389085	80.83159005	77.56110809	74.487099
200306A00050	3/6/2020	0.87	3/6/2030	102.81346	100.5710704	98.40401778	96.3091318	94.28340379	92.32397308	90.42811865	88.59325133	86.81690644
200306A00057	3/6/2020	0.92	3/8/2027	101.67336	100.3698375	99.08974796	97.83250947	96.59755882	95.38435096	94.19235829	93.02106994	91.86999111
200306A00058	3/6/2020	1.06	3/6/2030	103.08782	100.8421035	98.67175475	96.57361215	94.54466812	92.58206288	90.68307615	88.84511933	87.06572814
200306A00064	3/6/2020	1.2	3/8/2027	101.89214	100.6068265	99.35083378	98.12315919	96.92284569	95.74897931	94.60068669	93.47713286	92.37751911
200306A00065	3/6/2020	1.38	3/6/2030	107.25067	102.8992681	98.74740294	94.78484285	91.00194413	87.38961004	83.93925632	80.64277917	77.4925254
200306A00066	3/6/2020	1.2	3/8/2027	101.89214	100.6068265	99.35083378	98.12315919	96.92284569	95.74897931	94.60068669	93.47713286	92.37751911

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
200309A00007	3/9/2020	1.11	3/9/2027	101.78084	100.4940444	99.23630771	98.00664928	96.80412933	95.62785003	94.47695307	93.35061756	92.24805796
200309A00021	3/9/2020	1.05	3/9/2026	100.30363	100.0291114	99.75610657	99.48460047	99.21458062	98.94603479	98.67895082	98.41331674	98.14912068
200309A00030	3/9/2020	1.11	3/9/2027	101.78084	100.4940444	99.23630771	98.00664928	96.80412933	95.62785003	94.47695307	93.35061756	92.24805796
200309A00033	3/9/2020	1.06	3/9/2026	100.30638	100.0318566	99.75884699	99.48733608	99.21731146	98.94876086	98.68167215	98.41603335	98.15183258
200309A00034	3/9/2020	0.96	3/9/2035	105.14759	100.3411484	95.84552886	91.63713553	87.69436515	83.99742441	80.52816523	77.26993607	74.20744765
200309A00038	3/9/2020	1.26	3/11/2030	106.74532	102.3913351	98.23769188	94.27411642	90.49091584	86.87894582	83.42957615	80.13465884	76.98649831
200309A00081	3/9/2020	1.18	3/8/2030	105.99544	101.913105	98.01700929	94.29764086	90.74602612	87.35369353	84.1126429	81.0153168	78.05457377
200309A00082	3/9/2020	1.18	3/8/2030	105.99544	101.913105	98.01700929	94.29764086	90.74602612	87.35369353	84.1126429	81.0153168	78.05457377
200309A00084	3/9/2020	1.06	3/9/2027	101.80745	100.4769331	99.17038201	97.88719877	96.6268085	95.38865473	94.17219872	92.97691875	91.80230947
200310A00005	3/10/2020	1.41	3/8/2030	107.38899	103.0292312	98.86957476	94.89976116	91.11011748	87.49151884	84.03535394	80.73349305	77.57825818
200310A00015	3/10/2020	1.37	3/11/2030	107.22582	102.861484	98.69784194	94.72459692	90.93204256	87.31102157	83.85289146	80.54949249	77.39311793
200310A00034	3/10/2020	1.41	3/11/2030	107.40054	103.0324473	98.86516924	94.88840801	91.09245227	87.46814003	84.0068243	80.7003411	77.54097961
200310A00038	3/10/2020	1.41	3/11/2030	107.40054	103.0324473	98.86516924	94.88840801	91.09245227	87.46814003	84.0068243	80.7003411	77.54097961
200310A00040	3/10/2020	1.36	3/10/2028	103.94732	101.6464667	99.40764742	97.22876791	95.10782282	93.04288971	91.03212488	89.07375945	87.16609568
200310A00041	3/10/2020	1.39	3/12/2029	105.73514	102.399881	99.18663994	96.09026619	93.10585479	90.22873725	87.45446846	84.7788145	82.19774122
200310A00042	3/10/2020	1.41	3/11/2030	107.40054	103.0324473	98.86516924	94.88840801	91.09245227	87.46814003	84.0068243	80.7003411	77.54097961
200310A00051	3/10/2020	1.41	3/8/2030	107.38899	103.0292312	98.86957476	94.89976116	91.11011748	87.49151884	84.03535394	80.73349305	77.57825818
200310A00073	3/12/2020	2.12	3/11/2027	103.09884	101.7985454	100.5269758	99.28318239	98.06625485	96.8753229	95.70955385	94.56815066	93.45034997
200311A00015	3/11/2020	1.26	3/11/2027	102.08732	100.74875	99.43437743	98.14359521	96.87582089	95.63049076	94.40705916	93.20499771	92.0237947
200311A00026	3/11/2020	1.34	3/11/2030	106.50799	102.5011907	98.67588188	95.02282652	91.53330253	88.19907538	85.01236835	81.9658347	79.05253168
200311A00031	3/11/2020	1.41	12/24/2027	103.66914	101.5845256	99.55215693	97.57037991	95.63760272	93.75229571	91.91298835	90.11826652	88.36676987
200311A00050	3/2/2021	1.46	3/2/2026	100.3853	100.1300044	99.87601098	99.62330517	99.37187716	99.12171729	98.87281597	98.62516374	98.37875121
200311A00055	3/11/2020	1.66	12/17/2027	104.15484	102.0839668	100.0646694	98.09532288	96.17436795	94.30030557	92.47169413	90.68714676	88.94532883
200312A00009	3/12/2020	1.46	3/12/2027	102.24912	100.9523831	99.68403069	98.44312995	97.22879053	96.04016068	94.87642513	93.73680319	92.62054687
200316A00008	3/16/2020	1.31	3/15/2030	103.55983	101.3648011	99.24206801	97.18864029	95.20167388	93.27846283	91.41643153	89.61312747	87.86621452
200316A00050	3/16/2020	1.54	3/16/2027	102.37613	101.0695227	99.79033463	98.53770802	97.31082059	96.10888418	94.93114304	93.77687208	92.64537537
200317A00009	3/17/2020	1.61	3/16/2035	108.03581	103.105736	98.49411391	94.17679177	90.13165536	86.33844159	82.77857011	79.43499146	76.29204978
200317A00043	3/17/2020	1.29	3/15/2030	103.77699	101.5130135	99.32513041	97.21013797	95.16499652	93.18681592	91.27284714	89.4204743	87.62720727
200318A00012	3/18/2020	1.68	3/18/2033	108.65331	103.8123504	99.26899874	95.00215124	90.99234563	87.22162732	83.6734235	80.33242842	77.18449886
200319A00035	3/19/2020	1.72	3/18/2033	108.84916	103.9987263	99.44647755	95.17126216	91.15358127	87.37544642	83.82025352	80.47266791	77.31851961
200323A00090	3/23/2020	1.55	3/23/2027	101.61807	100.7086297	99.81534263	98.93777263	98.07550176	97.22812726	96.39526085	95.57652805	94.77156751
200326A00029	3/26/2020	1.82	3/26/2027	102.8085	101.4763347	100.1692063	98.88643787	97.62737983	96.39140572	95.17791115	93.98631285	92.81604771
200326A00032	3/26/2020	1.49	3/26/2030	104.07623	101.80794	99.61583451	97.49671427	95.44753779	93.46541307	91.54758909	89.69144798	87.89449759

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
200326A00037	3/26/2020	1.78	3/26/2035	108.6891	103.8543932	99.32820761	95.08731126	91.11042578	87.37804519	83.87227525	80.57668847	77.47619306
200327A00037	3/27/2020	1.18	3/27/2026	100.428	100.1031815	99.78046969	99.45983975	99.14127154	98.82474519	98.51024107	98.19773983	97.88722236
200327A00043	3/27/2020	1.48	3/27/2028	104.47738	102.1208955	99.82902759	97.599639	95.43067801	93.32017287	91.26622814	89.26702122	87.32079909
200327A00045	3/27/2020	2.24	3/27/2034	118.05253	109.297795	101.262247	93.88300927	87.1030026	80.87038352	75.13804012	69.86313854	65.00671504
200327A00094	3/27/2020	1.6	3/27/2030	107.29814	103.4029199	99.68283578	96.12896219	92.73287949	89.48664081	86.38274294	83.41409915	80.5740139
200330A00038	3/30/2020	1.79	3/29/2030	109.14896	104.6942854	100.4459584	96.39339069	92.52658763	88.83611488	85.31306406	81.94902075	78.73603464
200330A00045	3/30/2020	1.47	3/30/2027	102.36264	101.0246181	99.71059829	98.41998852	97.15221153	95.9067087	94.68293933	93.48037989	92.29852333
200330A00047	3/30/2020	1.5	3/30/2035	107.48422	102.5790265	97.99071418	93.69524554	89.67061282	85.89665072	82.35486881	79.02830031	75.90136548
200330A00054	3/30/2021	1.19	3/30/2026	100.41964	100.0867922	99.756144	99.42767393	99.10136052	98.77718264	98.45511942	98.13515023	97.81725474
200330A00058	3/30/2020	1.49	3/29/2030	106.87015	102.9838873	99.27258876	95.7273288	92.33968616	89.10171304	86.00590588	83.04517812	80.21283485
200330A00079	3/30/2020	1.51	3/30/2035	107.5343	102.6268183	98.03636827	93.73889836	89.71239056	85.93667016	82.39323813	79.06511977	75.9367281
200331A00016	3/31/2020	1.11	3/31/2026	100.41988	100.0839957	99.75035507	99.41893132	99.08970245	98.76264675	98.43774279	98.11496943	97.7943058
200331A00056	3/31/2020	0.96	3/29/2030	102.94449	100.754139	98.63610765	96.58739747	94.60515776	92.68667652	90.82937268	89.03078879	87.28858425
200402A00044	4/2/2020	1.65	4/2/2030	108.54886	104.096233	99.85050499	95.80103469	91.93778296	88.25127368	84.73255936	81.373189	78.16517814
200406A00014	4/6/2020	1.33	4/6/2035	107.02004	102.0863955	97.47430172	93.1591665	89.11849182	85.33167736	81.77984667	78.4456904	75.31332485
200406A00027	4/6/2020	1.31	4/5/2030	106.46085	102.5661619	98.84766222	95.29632361	91.9036293	88.66154348	85.56248158	82.59928245	79.76518245
200406A00029	4/6/2020	1.61	4/5/2030	107.89781	103.6938001	99.68428895	95.85919624	92.20901922	88.72479513	85.39806767	82.22085566	79.18562389
200406A00030	4/6/2020	1.61	4/5/2030	107.89781	103.6938001	99.68428895	95.85919624	92.20901922	88.72479513	85.39806767	82.22085566	79.18562389
200413A00009	4/13/2020	0.77	4/13/2027	100.77707	100.0208653	99.27777153	98.54742306	97.82947035	97.12357725	96.42942027	95.746688	95.0750805
200413A00013	4/13/2020	1.19	4/12/2030	103.44835	101.1524676	98.93485494	96.79218587	94.72129919	92.71919042	90.783003	88.91001985	87.09765569
200414A00024	4/14/2020	1.37	4/14/2027	102.39868	100.9711889	99.57103391	98.19749253	96.84986996	95.52749518	94.22971995	92.95591778	91.70548306
200415A00021	4/15/2020	1.37	4/15/2027	102.31293	100.9313479	99.57494754	98.2430987	96.9351927	95.65064052	94.38887199	93.14933509	91.93149521
200415A00023	4/15/2020	1.71	4/15/2030	108.87838	104.3821946	100.096459	96.01026632	92.11333337	88.39595816	84.84898412	81.46376667	78.23214206
200415A00024	4/15/2020	2.2	4/16/2035	118.1568	108.4021809	99.53792056	91.47795681	84.14495087	77.46936685	71.3886493	65.84649115	60.79218153
200415A00038	4/15/2020	1.37	4/15/2027	102.31293	100.9313479	99.57494754	98.2430987	96.9351927	95.65064052	94.38887199	93.14933509	91.93149521
200417A00009	4/17/2020	1.35	4/16/2027	102.29033	100.9061353	99.54721588	98.21293778	96.90268904	95.61587748	94.35192992	93.11029146	91.89042473
200421A00026	4/21/2020	1.34	4/19/2030	106.33446	102.4225574	98.68878103	95.12393544	91.71935496	88.46686686	85.3587606	82.38775911	79.54699211
200421A00032	4/21/2020	1.31	4/21/2027	102.26027	100.8624096	99.49030287	98.14329878	96.82076842	95.5221035	94.2467154	92.99403446	91.76350915
200423A00017	4/23/2020	1.82	4/23/2035	115.24657	105.5711124	96.78558395	88.8035079	81.54721514	74.94690621	68.93981878	63.46948681	58.48508096
200424A00022	4/24/2020	1.39	4/24/2030	106.54634	102.6184502	98.86986074	95.29129401	91.87400511	88.60974799	85.49074425	82.50965402	79.65954881
200427A00018	4/27/2020	1.51	4/27/2028	104.54443	102.1044398	99.73350808	97.42930058	95.18957305	93.01217011	90.89502116	88.83613649	86.8336037
200428A00002	4/28/2020	1.47	4/26/2030	108.17725	103.6560827	99.34837027	95.2429636	91.32935449	87.59763338	84.03845215	80.64298942	77.40291826
200428A00009	4/28/2020	1.08	4/29/2030	103.19237	100.9013873	98.68855265	96.55054297	94.48419968	92.48652096	90.55465286	88.68588096	86.87762255

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
200428A00018	4/28/2020	1.33	4/27/2035	106.55787	101.7489281	97.25017156	93.03803294	89.09093873	85.38912693	81.91448174	78.65038437	75.58157836
200429A00030	4/29/2020	1.41	4/29/2030	106.94226	102.8170827	98.88373983	95.13219962	91.55300617	88.13724729	84.87652025	81.76289983	78.78890864
200429A00049	4/29/2020	1.25	4/29/2026	100.53486	100.1190165	99.7066004	99.29756944	98.89188212	98.48949764	98.09037586	97.69447727	97.30176301
200429A00057	4/29/2020	1.4	4/29/2027	102.35849	100.938841	99.54569904	98.17838564	96.83624537	95.51864445	94.22496991	92.95462874	91.70704711
200429A00061	4/29/2020	1.66	10/29/2029	107.61673	103.6201432	99.79339172	96.12839386	92.61749592	89.25344577	86.02936971	82.93875067	79.97540787
200430A00009	4/30/2020	1.16	4/30/2026	100.52156	100.1027432	99.6874032	99.27549569	98.86697838	98.46180961	98.05994841	97.66135449	97.26598817
200430A00027	4/30/2020	1.31	4/30/2035	106.56521	101.6605649	97.07525854	92.78488581	88.7671189	85.00151217	81.46932987	78.15339075	75.03792774
200501A00002	5/1/2020	1.3	5/1/2035	106.54368	101.5993496	96.97936894	92.65877702	88.61475102	84.82640448	81.27460895	77.94183325	74.81199852
200504A00007	5/4/2020	1.47	5/4/2028	104.48129	102.0229245	99.6346672	97.31412604	95.05900599	92.86710369	90.73630317	88.66457181	86.64995654
200506A00010	5/6/2020	0.94	5/6/2026	100.47808	100.0424358	99.61056781	99.1824249	98.75795897	98.33712273	97.91986969	97.50615415	97.09593119
200511A00006	5/11/2020	1.65	5/13/2030	108.73716	104.1670089	99.81434568	95.66771323	91.71631784	87.94998638	84.35912737	80.93469465	77.66815361
200511A00018	5/11/2020	0.98	2/2/2026	100.17624	99.99877623	99.82194336	99.6457365	99.47015233	99.29518758	99.12083896	98.94710323	98.77397716
200511A00019	5/11/2020	1.18	2/1/2027	101.69226	100.5013985	99.3382253	98.20178152	97.09115509	96.00547503	94.9439091	93.90566171	92.88997189
200511A00020	5/11/2020	1.4	2/1/2028	103.83809	101.6462022	99.51123935	97.43131884	95.40463224	93.4294457	91.50409613	89.62698767	87.79658835
200511A00021	5/11/2020	1.53	2/1/2029	105.98963	102.7634335	99.6518614	96.65016754	93.7538297	90.95854159	88.26020099	85.65489862	83.13890768
200511A00022	5/11/2020	1.6	2/1/2030	108.03144	103.760506	99.68143038	95.78455037	92.06074568	88.50140543	85.09839643	81.84403376	78.73105334
200511A00023	5/11/2020	1.7	2/3/2031	110.07863	104.7478503	99.70604602	94.93602854	90.42172907	86.14811529	82.10111858	78.26756689	74.63512263
200512A00001	5/12/2020	1.17	5/12/2027	102.23477	100.7343085	99.26377099	97.8223294	96.40918733	95.02357709	93.66475841	92.33201719	91.02466432
200512A00010	5/12/2020	1.48	5/10/2030	107.46646	103.1926021	99.12037328	95.23911801	91.53880046	88.00996711	84.6437097	81.43163081	78.36581176
200512A00011	5/12/2020	1.48	5/10/2030	107.46646	103.1926021	99.12037328	95.23911801	91.53880046	88.00996711	84.6437097	81.43163081	78.36581176
200512A00013	5/12/2020	1.17	5/12/2027	102.23477	100.7343085	99.26377099	97.8223294	96.40918733	95.02357709	93.66475841	92.33201719	91.02466432
200512A00014	5/12/2020	1.17	5/12/2027	102.23477	100.7343085	99.26377099	97.8223294	96.40918733	95.02357709	93.66475841	92.33201719	91.02466432
200514A00008	5/14/2020	1.23	5/14/2030	105.96445	102.0100227	98.23806472	94.63902834	91.2039246	87.92428318	84.79211958	81.79990442	78.94053503
200520A00009	5/20/2020	1.63	5/20/2038	111.69201	101.9262394	93.21802912	85.44250106	78.49037039	72.26590943	66.68518954	61.67455986	57.16932989
200521A00005	5/21/2020	0.75	5/21/2030	102.61678	100.3072279	98.07754406	95.92428642	93.84418912	91.83415009	89.89122165	88.01260179	86.19562594
200521A00013	5/21/2020	2.09	5/21/2035	117.18247	107.3819082	98.48550804	90.40499162	83.06111688	76.38271521	70.30583224	64.77296374	59.73237603
200521A00015	5/21/2020	2.14	5/21/2036	118.37989	107.5760255	97.86057652	89.11786066	81.24504479	74.1506577	67.75328358	61.98041143	56.76742123
200521A00016	5/21/2020	2.18	5/21/2037	119.10947	107.3435436	96.86180297	87.51676073	79.17857649	71.73286334	65.07877961	59.12736451	53.80008542
200521A00017	5/21/2020	2.22	5/21/2038	119.74116	107.039595	95.8293718	85.92660016	77.17094914	69.42252308	62.55916622	56.47413448	51.0740826
200522A00009	5/22/2020	0.96	5/22/2030	103.21697	100.6806651	98.23549027	95.8774178	93.60262559	91.40748657	89.28855743	87.24256811	85.2664119
200527A00012	5/27/2020	1.2	5/27/2027	102.19262	100.6990685	99.23482646	97.79910867	96.39115568	95.01023443	93.65563715	92.3266803	91.0227035
200527A00013	5/27/2020	1.13	11/25/2026	101.24666	100.2482143	99.26933954	98.30946578	97.36804437	96.44454759	95.53846764	94.64931578	93.77662135
200527A00014	5/27/2020	1.06	5/27/2026	100.54596	100.0527493	99.56436739	99.08073919	98.60179554	98.12746865	97.65769203	97.19240045	96.73152995

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
200529A00022	6/1/2020	0.98	6/1/2026	100.5466	100.0392772	99.53705604	99.03985676	98.54760438	98.06022545	97.57764792	97.0998012	96.62661604
200604A00012	6/4/2020	1.59	6/4/2030	108.55674	103.9308274	99.52785195	95.3359171	91.34382728	87.54103909	83.91761984	80.46420889	77.17198171
200604A00013	6/4/2020	2.21	6/4/2035	118.37027	108.4783766	99.50092127	91.34836949	83.94038596	77.20484538	71.0769557	65.49847903	60.41703874
200604A00014	6/4/2020	2.42	6/4/2040	123.76372	109.0208915	96.24376749	85.15729251	75.52627683	67.14943968	59.85436832	53.49324783	47.93924066
200608A00001	6/8/2020	1.34	6/7/2030	106.47487	102.4561153	98.62474404	94.97085406	91.48512108	88.15876522	84.98351601	81.95157983	79.05560968
200610A00006	6/10/2020	1.11	6/10/2027	102.2635	100.6902004	99.14918871	97.6395359	96.16034613	94.71075756	93.28994076	91.89709713	90.53145747
200611A00010	6/11/2020	1.08	6/11/2027	102.15396	100.6181644	99.11306833	97.63782817	96.19162817	94.77368183	93.38323064	92.01954281	90.68191211
200611A00011	6/11/2020	1.2	6/9/2028	103.96443	101.4148368	98.94061004	96.53907836	94.20768413	91.94397616	89.74560458	87.61031593	85.53594854
200611A00019	6/11/2020	0.88	12/11/2025	100.02375	99.99325048	99.96278805	99.93236042	99.90196751	99.87160928	99.84128565	99.81099657	99.78074198
200612A00004	6/12/2020	1.42	6/12/2040	108.27012	100.476296	93.44806522	87.09881586	81.35263481	76.14289913	71.41106176	67.10560451	63.18113429
200616A00005	6/16/2020	0.74	6/17/2030	102.65255	100.2881919	98.0070092	95.80536998	93.67982705	91.62710809	89.64410562	87.72786751	85.87558815
200623A00028	6/23/2020	1.23	6/23/2038	107.2011	100.6995081	94.74535215	89.28524548	84.27152077	79.66157335	75.41728372	71.50450985	67.89264039
200629A00020	6/29/2020	1.4	6/28/2030	107.53729	102.8750511	98.4402872	94.22072131	90.20480379	86.38166642	82.7410783	79.273405	75.96957057
200629A00021	6/29/2020	1.21	6/29/2028	103.94812	101.3459299	98.82177922	96.37285862	93.99647552	91.69005191	89.45111862	87.27730995	85.16635856
200629A00023	6/29/2020	0.95	6/29/2026	100.58569	100.0013098	99.42369018	98.85271191	98.28826105	97.73022628	97.17849882	96.63297232	96.09354282
200708A00011	7/10/2020	2.87	7/10/2031	117.33088	111.3627231	105.7388883	100.4376542	95.43878645	90.72342565	86.27398685	82.07406659	78.10835739
200709A00003	7/10/2020	1.63	7/10/2026	101.06731	100.4505513	99.84130957	99.23944441	98.64482228	98.05731291	97.47678911	96.90312673	96.33620455
200709A00005	7/10/2020	2.23	7/10/2030	111.72819	106.9291945	102.3646087	98.02172895	93.88861132	89.95402056	86.20738386	82.63874809	79.23873998
200709A00006	7/10/2020	2.58	7/10/2030	113.37612	108.5389964	103.9376298	99.55925653	95.39187665	91.4242018	87.64560872	84.04609637	80.61624596
200709A00007	7/10/2020	1.67	7/9/2027	103.24094	101.6189946	100.0304104	98.47422711	96.94951973	95.45539832	93.9910063	92.55551893	91.14814177
200709A00008	7/10/2020	1.88	7/10/2026	101.22151	100.6042222	99.99444929	99.39205742	98.79691307	98.2088859	97.62784867	97.05367717	96.4862501
200709A00025	7/9/2020	1.37	7/9/2030	106.9485	102.5575484	98.37967161	94.40328074	90.61748525	87.01204658	83.57733508	80.30429018	77.18438335
200716A00004	7/16/2020	0.97	7/16/2027	102.17444	100.5089091	98.87898854	97.28359271	95.72168441	94.19226835	92.69438894	91.22712829	89.78960431
200720A00035	7/20/2020	1.81	7/20/2035	114.57567	104.7416616	95.83201769	87.75497796	80.42833085	73.77837341	67.73899141	62.25084308	57.2606344
200720A00042	7/22/2020	2.04	7/21/2026	101.38655	100.7382247	100.0981795	99.46625598	98.84230004	98.22616159	97.61769429	97.0167554	96.42320571
200720A00044	7/22/2020	2.22	7/21/2026	101.50308	100.8543347	100.2138706	99.5815319	98.9571645	98.34061824	97.73174672	97.13040715	96.53646028
200724A00011	7/24/2020	1.41	7/26/2038	109.50893	99.65708153	90.89397695	83.08887013	76.12759004	69.91034538	64.34983307	59.36960503	54.90265684
200730A00011	7/30/2020	1.15	7/28/2028	103.90126	101.2217304	98.62444214	96.1063473	93.664537	91.29623018	88.99876698	86.76960251	84.60630098
200813A00019	8/13/2020	1.44	8/13/2030	107.36534	102.8806585	98.61723465	94.56287892	90.70614443	87.03627487	83.54315879	80.21728738	77.04971506
200813A00020	8/13/2020	1.44	8/13/2030	107.36534	102.8806585	98.61723465	94.56287892	90.70614443	87.03627487	83.54315879	80.21728738	77.04971506
200814A00003	8/14/2020	0.96	8/14/2035	105.22868	100.2139302	95.53620674	91.16898316	87.08804682	83.27128406	79.69848291	76.35115563	73.21237894
200814A00009	8/18/2020	1.36	8/16/2028	104.69201	101.9474003	99.28827598	96.71142208	94.21376657	91.79237519	89.44444412	87.16729311	84.95835898
200814A00011	8/18/2020	1.58	8/16/2030	108.8152	103.9835004	99.39308265	95.03060601	90.8835416	86.94011971	83.18927918	79.62062059	76.22436273

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
200818A00004	8/18/2020	0.92	8/18/2026	100.74642	100.023148	99.31022319	98.60742125	97.91452769	97.23133404	96.55763766	95.8932415	95.23795396
200818A00005	8/18/2020	1.05	8/18/2027	102.39296	100.6706844	98.98548718	97.33623618	95.72184646	94.14127708	92.59352883	91.07764208	89.59269481
200818A00006	8/18/2020	1.18	8/18/2028	104.2029	101.4596916	98.80211124	96.22693135	93.73106894	91.31157965	88.96565029	86.69059191	84.48383325
200818A00007	8/18/2020	1.31	8/20/2029	106.14006	102.3580596	98.73019986	95.24932155	91.90864312	88.70173851	85.62251601	82.66519861	79.8243056
200818A00008	8/18/2020	1.5	8/18/2031	109.56688	103.7116111	98.20323694	93.01940578	88.13932614	83.54364812	79.21435548	75.13466645	71.28894249
200818A00009	8/18/2020	1.7	8/18/2033	112.43997	104.5286191	97.22814071	90.48822171	84.26294335	78.51037445	73.19220531	68.27341712	63.72198327
200818A00010	8/18/2020	1.88	8/20/2035	115.30652	105.3592078	96.3530793	88.19406445	80.79794825	74.08929314	68.00048298	62.47087563	57.44605134
200818A00012	8/18/2020	0.97	8/18/2027	102.29742	100.5459452	98.83337734	97.15857391	95.52043602	93.91790578	92.34996434	90.81563011	89.31395708
200825A00007	8/27/2020	4.79	8/27/2026	103.67784	102.917588	102.1685152	101.4303765	100.7029334	99.98595442	99.27921454	98.58249531	97.8955844
200826A00019	8/26/2020	0.98	8/26/2026	100.77899	100.0340051	99.29998136	98.57667809	97.86386188	97.16130605	96.46879039	95.78610097	95.11302989
200828A00002	8/28/2020	0.73	8/28/2026	100.68659	99.93528568	99.19512992	98.46587803	97.7472906	97.03913521	96.34118614	95.65322414	94.97503619
200909A00001	9/9/2020	0.98	9/8/2028	103.92271	101.1217102	98.40976456	95.78349161	93.23966167	90.77518974	88.38712778	86.07265766	83.82908432
200910A00006	9/10/2020	0.96	9/10/2027	102.35933	100.5508749	98.78370546	97.0566336	95.36851323	93.71823847	92.10474195	90.52699313	88.98399685
200911A00011	9/11/2020	1.18	9/11/2030	106.47701	101.9526671	97.65496541	93.57130078	89.6898354	85.99944703	82.48968214	79.15071234	75.97329385
200911A00012	9/11/2020	1.18	9/11/2030	106.47701	101.9526671	97.65496541	93.57130078	89.6898354	85.99944703	82.48968214	79.15071234	75.97329385
200922A00034	9/24/2020	2.24	9/23/2026	101.95151	101.1234796	100.3088702	99.5073556	98.71862199	97.94236538	97.1782914	96.42611487	95.68555945
200928A00009	9/28/2020	1.51	9/28/2032	110.42704	103.4501339	96.95733772	90.91268751	85.28305927	80.03793214	75.14917183	70.59083301	66.33897896
201007A00008	10/7/2020	1.22	10/7/2030	106.54898	102.0801401	97.83604474	93.80408678	89.9724332	86.32997422	82.86627526	79.57153241	76.43653102
201007A00010	10/7/2020	1.22	10/7/2030	106.54898	102.0801401	97.83604474	93.80408678	89.9724332	86.32997422	82.86627526	79.57153241	76.43653102
201015A00020	10/15/2020	0.94	10/15/2027	102.44638	100.5456878	98.6904643	96.87933788	95.11098738	93.38414036	91.69757096	90.05009783	88.44058219
201015A00024	10/19/2020	1.53	10/18/2027	103.56271	101.6625546	99.80646768	97.99316287	96.22140392	94.48999835	92.79779554	91.14368503	89.5265948
201015A00025	10/19/2020	1.54	10/18/2027	103.58184	101.6814965	99.82522558	98.01174018	96.23980403	94.50822455	92.81585103	91.16157292	89.54431812
201015A00030	10/19/2020	2.39	10/18/2027	105.20785	103.2915643	101.4196472	99.59081165	97.80381318	96.05745118	94.35056725	92.68204343	91.05080046
201015A00032	10/19/2020	2.33	10/19/2026	102.21649	101.3150103	100.4293984	99.55923872	98.70412943	97.86368236	97.03752262	96.22528801	95.42662852
201021A00011	10/21/2020	1.11	10/21/2027	102.77141	100.870966	99.01479417	97.20160312	95.43014592	93.69921993	92.00766494	90.35436135	88.73822849
201021A00012	10/21/2020	1.85	10/19/2035	115.09446	105.003551	95.88221537	87.63220122	80.16566994	73.40404617	67.27699979	61.72154426	56.68123744
201022A00012	10/26/2020	2.25	10/24/2030	112.43732	107.3279247	102.4815089	97.88320348	93.51905075	89.37594747	85.44158837	81.70441359	78.15355984
201028A00003	10/30/2020	1.42	2/27/2026	100.36211	100.1151588	99.8694223	99.6248891	99.38155038	99.13939744	98.89842166	98.65861449	98.41996747
201028A00011	10/28/2020	0.91	4/28/2026	100.39041	99.97768874	99.56834947	99.16235064	98.75965152	98.36021207	97.96399287	97.57095516	97.18106076
201029A00004	10/29/2020	1.49	10/29/2038	110.28411	100.2280864	91.30102359	83.36515348	76.30044176	70.00221024	64.37908691	59.35123982	54.8488542
201030A00001	11/2/2020	2.54	10/29/2040	126.12212	110.8660688	97.68615881	86.28564337	76.41169617	67.84871666	60.41268158	53.9463774	48.31537259
201030A00002	11/2/2020	2.8	10/29/2040	129.95201	114.4245772	100.9997967	89.37793265	79.30354423	70.55873451	62.95746082	56.34073142	50.57254685
201030A00003	11/2/2020	2.58	10/29/2040	126.71134	111.4135316	98.19594924	86.76138018	76.85659587	68.26564248	60.80418608	54.31473956	48.66263017

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
201030A00004	11/2/2020	2.56	10/29/2040	126.41673	111.1398002	97.94105403	86.52351177	76.63414602	68.05717957	60.60843383	54.13055848	48.48900138
201030A00005	11/2/2020	2.49	10/29/2040	125.38561	110.1817403	97.04892076	85.69097235	75.85557154	67.32755938	59.92330096	53.48592471	47.88130062
201030A00016	10/30/2020	1.14	10/8/2027	102.77531	100.909742	99.08690268	97.30556797	95.5645541	93.8627186	92.19895856	90.57220899	88.98144125
201030A00017	10/30/2020	1.14	10/15/2027	102.80425	100.9195957	99.07850835	97.2797233	95.52202287	93.80423226	92.12521774	90.48388493	88.8791772
201030A00018	10/30/2020	1.15	10/22/2027	102.85243	100.9484973	99.08897548	97.27256384	95.49801008	93.76410649	92.06968798	90.41363033	88.79484845
201030A00019	10/30/2020	1.15	10/29/2027	102.88157	100.9585353	99.0807613	97.24690844	95.45568941	93.70586322	91.99623307	90.32564456	88.69298384
201103A00005	11/3/2020	0.89	11/4/2030	103.07836	100.4993503	98.01766582	95.62878846	93.3284452	91.11259143	88.97739712	86.91923395	84.93466329
201105A00003	11/6/2020	2.24	11/4/2030	112.44793	107.307817	102.4337848	97.81069973	93.42436398	89.26145406	85.30946261	81.55664425	77.99196537
201105A00016	11/9/2020	2.18	11/8/2027	104.95601	102.9844775	101.0598883	99.18083941	97.34597782	95.55400008	93.8036499	92.09371612	90.42303077
201109A00012	11/9/2020	1.39	11/8/2030	107.36361	102.6818758	98.24117948	94.02773681	90.02862285	86.23171723	82.62564971	79.19974977	75.94399987
201110A00003	11/10/2020	1.12	11/10/2027	102.89429	100.9235121	99.00121031	97.12587503	95.29605472	93.51035333	91.7674277	90.06598517	88.4047813
201116A00024	11/18/2020	2.36	11/15/2034	119.20026	109.8046275	101.2312183	93.40360175	86.25281802	79.71661568	73.73876829	68.26846358	63.25975744
201116A00025	11/18/2020	1.96	11/15/2032	113.70297	106.4863627	99.7771099	93.53694886	87.73068731	82.32594233	77.29290282	72.60411306	68.23427565
201119A00021	11/23/2020	2.22	11/21/2030	112.44175	107.2538426	102.3369569	97.67553224	93.25498217	89.06162713	85.08263339	81.30595646	77.72028853
201119A00023	11/23/2020	2.23	11/21/2030	112.4926	107.3034257	102.3853207	97.72272224	93.30104167	89.1065975	85.12655414	81.34886533	77.76222157
201203A00005	12/3/2020	0.78	12/3/2026	101.04595	100.024677	99.02389406	98.04299032	97.08137874	96.13849517	95.21379727	94.30676344	93.41689187
201204A00015	12/8/2020	1.07	12/8/2025	100.023	100.0008062	99.97863409	99.95648555	99.93436057	99.91225911	99.89018113	99.86812658	99.84609543
201207A00009	12/7/2020	1.01	12/7/2027	102.77292	100.7341635	98.74677129	96.80908849	94.91953098	93.07657763	91.27876722	89.52469558	87.81301287
201207A00021	12/7/2020	1.85	12/7/2050	116.72573	103.4339167	92.19496314	82.64838832	74.50203942	67.51842973	61.50392461	56.30015903	51.77721017
201208A00029	12/10/2020	1.52	12/9/2025	100.03733	100.0123543	99.98740234	99.96247768	99.93758022	99.91270991	99.88786671	99.86305056	99.83826142
201210A00021	12/10/2020	0.89	12/10/2027	102.67329	100.6341773	98.64567182	96.70619444	94.81422461	92.96829999	91.16701378	89.4090121	87.69299167
201211A00001	12/11/2020	0.95	12/11/2030	105.49066	101.1224289	96.97678566	93.04096898	89.30302764	85.75176045	82.37666492	79.16788959	76.11619008
201215A00001	12/15/2020	0.76	12/15/2025	100.02897	99.9873655	99.94581617	99.90431911	99.86287422	99.8214814	99.78014054	99.73885153	99.69761429
201216A00013	12/16/2020	0.59	12/16/2025	100.02621	99.98180724	99.93746429	99.89317868	99.84895029	99.804779	99.7606647	99.71660726	99.67260656
201218A00014	12/18/2020	0.57	12/18/2025	100.02839	99.97844207	99.92856125	99.8787477	99.82900126	99.7793218	99.72970916	99.68016322	99.63068382
201221A00014	12/21/2020	0.76	12/19/2025	100.03646	99.98376833	99.93114837	99.87860042	99.82612435	99.77372	99.72138721	99.66912584	99.61693573
201221A00015	12/21/2020	0.88	12/4/2026	101.08118	100.0579814	99.05534868	98.07266942	97.10935322	96.16483273	95.23856254	94.33001819	93.43869511
201221A00022	12/21/2020	0.51	12/19/2025	100.07827	99.9400348	99.80219899	99.66475989	99.52771574	99.39106478	99.25480528	99.1189355	98.98345374
201223A00012	12/23/2020	0.91	12/18/2026	101.17136	100.1088195	99.0684444	98.04954761	97.05146974	96.07357818	95.11526574	94.17594934	93.25506886
201223A00013	12/23/2020	0.9	12/11/2026	101.1312	100.0883087	99.06677903	98.0659622	97.08523358	96.12399347	95.18166584	94.25769713	93.35155523
201228A00013	12/28/2020	0.84	12/30/2030	102.98983	100.3703996	97.85126188	95.42770172	93.09526063	90.84972123	88.68709257	86.60359635	84.59565418
210104A00006	11/22/2021	0.88	11/20/2026	101.02807	100.0439051	99.07879491	98.13218654	97.20355229	96.29238431	95.39819374	94.52050979	93.65887896
210104A00007	11/23/2021	0.88	11/23/2026	101.03901	100.0464926	99.07334499	98.11900433	97.18292993	96.26460168	95.36351902	94.47920009	93.6111808

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
210104A00009	12/20/2021	0.89	12/18/2026	101.15007	100.0876484	99.0473929	98.02861395	97.03065224	96.05287521	95.0946757	94.15547068	93.23470005
210104A00010	11/22/2021	0.88	11/20/2026	101.02807	100.0439051	99.07879491	98.13218654	97.20355229	96.29238431	95.39819374	94.52050979	93.65887896
210104A00011	11/23/2021	0.88	11/23/2026	101.03901	100.0464926	99.07334499	98.11900433	97.18292993	96.26460168	95.36351902	94.47920009	93.6111808
210104A00012	12/20/2021	0.89	12/18/2026	101.15007	100.0876484	99.0473929	98.02861395	97.03065224	96.05287521	95.0946757	94.15547068	93.23470005
210107A00007	1/7/2021	0.84	1/7/2026	100.1551	99.96429772	99.77423082	99.58489392	99.3962828	99.20839324	99.02122109	98.83476221	98.6490125
210114A00009	1/19/2021	2.66	1/17/2030	112.43406	108.1123787	103.9821314	100.0337823	96.25832791	92.64726164	89.19254383	85.88657313	82.72216003
210125A00006	1/27/2021	2.16	1/26/2027	102.81063	101.6295139	100.4754371	99.34747648	98.24475353	97.16642853	96.11169867	95.07979603	94.0699857
210125A00007	1/27/2021	2.98	1/27/2031	116.80017	111.3157214	106.1249558	101.2105416	96.55626823	92.14696408	87.96842415	84.00734299	80.25125282
210127A00008	1/27/2021	0.93	1/27/2027	101.37212	100.1971944	99.04929164	97.92748534	96.83089451	95.75867739	94.71002933	93.68418069	92.68039504
210127A00009	1/27/2021	1.3	7/27/2029	106.00577	102.2910419	98.72555702	95.30248492	92.01535109	88.85801466	85.824649	82.9097236	80.10798705
210127A00010	1/27/2021	1.41	7/26/2030	107.9239	103.1698807	98.65111941	94.35473388	90.26861797	86.38139111	82.68235063	79.16142743	75.80914492
210201A00001	2/1/2021	0.77	12/16/2025	100.03129	99.98691545	99.94259773	99.89833699	99.85413312	99.809986	99.76589551	99.72186155	99.677884
210201A00002	2/1/2021	1.19	2/1/2036	106.17947	100.8829242	95.95790004	91.37394601	87.10337249	83.12098364	79.40383444	75.93101287	72.68344471
210209A00029	2/12/2021	0.8	12/15/2025	100.03066	99.98905351	99.9475028	99.90600436	99.86455809	99.82316388	99.78182164	99.74053126	99.69929264
210212A00004	2/12/2021	1.1	2/12/2036	106.0711	100.7699827	95.84120995	91.25422385	86.98124417	82.99699545	79.27846262	75.80467208	72.5564954
210212A00006	2/12/2021	0.77	2/12/2026	100.23329	99.95161386	99.6715366	99.393042	99.11611655	98.84074692	98.56691992	98.29462251	98.0238418
210212A00007	2/12/2021	0.76	2/12/2026	100.23022	99.94882777	99.66903177	99.3908161	99.1141673	98.83907203	98.56551714	98.29348961	98.02297656
210212A00008	2/12/2021	0.95	10/13/2026	100.95644	100.0776708	99.21411619	98.36538648	97.53110251	96.71089796	95.90441882	95.11132285	94.33127911
210212A00014	2/17/2021	1.38	2/17/2026	100.31027	100.0910983	99.87289613	99.65565517	99.43936898	99.22403123	99.00963564	98.796176	98.58364612
210216A00006	2/16/2021	1.44	2/15/2030	107.73092	103.4153632	99.29561274	95.36171411	91.60427389	88.01442886	84.58381265	81.30452472	78.16910154
210216A00007	2/16/2021	1.3	2/16/2029	105.5568	102.2869893	99.1348832	96.09553499	93.1642427	90.33653232	87.60814506	84.97502534	82.43330963
210216A00008	2/16/2021	0.71	2/17/2026	100.17849	99.9593495	99.7411812	99.52397598	99.30772741	99.09242912	98.87807477	98.66465813	98.45217298
210216A00009	2/16/2021	0.92	2/16/2027	101.53363	100.3007082	99.09748498	97.92289716	96.77593305	95.65562816	94.56106241	93.49135761	92.4456751
210216A00011	2/17/2021	0.83	12/15/2025	100.03192	99.99031952	99.94876776	99.90726829	99.86582098	99.82442574	99.78308247	99.74179106	99.70055141
210217A00005	2/17/2021	0.83	2/14/2031	103.23867	100.5266105	97.92129626	95.41758764	93.01062763	90.69582774	88.4688513	86.32559791	84.26218893
210218A00010	2/18/2021	1.72	2/18/2031	110.25373	104.8735187	99.78706071	94.97675763	90.42616511	86.11990771	82.04360329	78.18379314	74.52787749
210219A00004	2/19/2021	0.91	2/19/2026	100.21291	99.98834678	99.76480037	99.54226179	99.32072419	99.1001808	98.88062488	98.66204978	98.4444489
210219A00008	2/22/2021	0.86	12/1/2025	100.00313	100.0003547	99.99758282	99.99481335	99.9920463	99.98928165	99.9865194	99.98375955	99.9810021
210224A00003	2/26/2021	0.9	12/3/2025	100.0078	99.99947502	99.99115983	99.98285234	99.97455254	99.96626042	99.95797596	99.94969915	99.94142999
210224A00004	2/26/2021	0.91	12/18/2025	100.04216	99.99222927	99.94237038	99.89257835	99.84285304	99.79319432	99.74360204	99.69407608	99.64461629
210225A00006	2/25/2021	0.98	2/25/2026	100.24716	100.0059374	99.76587577	99.52696722	99.28920342	99.05257617	98.81707734	98.58269886	98.34943276
210225A00007	2/25/2021	1.79	8/23/2030	109.85757	104.9821686	100.3507222	95.94970147	91.76640728	87.78891258	84.00601063	80.40716717	76.98247613
210226A00004	3/1/2021	1.04	12/5/2025	100.01439	100.0005164	99.98665738	99.97281193	99.95898006	99.94516174	99.93135696	99.91756569	99.90378791

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
210226A00012	2/26/2021	2.31	2/26/2036	120.02584	109.3567701	99.73856546	91.06178007	83.22890493	76.15301092	69.75655098	63.97030343	58.7324393
210304A00006	3/4/2021	1.02	3/4/2026	100.27929	100.0186411	99.75935433	99.50141414	99.24481006	98.9895317	98.73556877	98.48291111	98.23154863
210305A00013	3/5/2021	2.41	3/5/2036	121.08258	110.3397316	100.6555492	91.9196659	84.03376592	76.91021106	70.47083094	64.64585589	59.37297508
210311A00007	3/11/2021	1.06	3/11/2026	100.31304	100.0329714	99.75448012	99.47754933	99.20216589	98.92831675	98.65598903	98.38516997	98.11584698
210312A00008	3/12/2021	1.13	3/12/2026	100.3362	100.0533271	99.77205943	99.49238361	99.21428603	98.93775326	98.66277201	98.38932915	98.11741172
210315A00003	3/15/2021	1.13	3/13/2026	100.33972	100.0540781	99.77006915	99.48768327	99.20690652	98.92772507	98.65012525	98.37409355	98.09961662
210319A00009	3/19/2021	1.1	3/19/2026	100.45544	100.0697921	99.6871246	99.30739825	98.93057908	98.55663364	98.18552903	97.81723283	97.45171312
210324A00002	3/24/2021	2.06	3/24/2031	112.22707	106.6998451	101.4783895	96.54423486	91.88011965	87.4699052	83.29849722	79.35177294	75.61651373
210324A00003	3/24/2021	1.18	3/24/2026	100.39433	100.0781368	99.763944	99.4517285	99.14147166	98.83315505	98.52676044	98.22226988	97.91966558
210330A00021	3/30/2021	2.16	3/28/2031	112.78852	107.2354679	101.9899413	97.03335291	92.348333	87.91864121	83.72908744	79.76545881	76.01445207
210330A00022	3/30/2021	1.27	3/30/2026	100.44631	100.1134054	99.78270206	99.45417715	99.12780917	98.803577	98.48145973	98.16143677	97.84348777
210331A00007	3/31/2021	1.25	3/31/2031	104.26946	101.4913273	98.82391276	96.26182453	93.79997241	91.4335503	89.15801832	86.96908627	84.86269814
210407A00013	4/7/2021	1.23	4/7/2026	100.46346	100.1083938	99.75584168	99.40577477	99.05816679	98.71299182	98.37022431	98.02983907	97.69181127
210408A00007	4/8/2021	1.05	4/8/2031	103.95413	101.1398346	98.43921927	95.84668192	93.35693842	90.96500248	88.66616681	86.45598555	84.330258
210409A00010	4/9/2021	1.05	4/9/2031	103.91771	101.1298488	98.45415488	95.88511181	93.41751723	91.0464616	88.76730966	86.57568318	84.467445
210420A00009	4/20/2021	1.08	12/5/2025	100.01498	100.0011096	99.98725003	99.97340412	99.95957178	99.94575301	99.93194776	99.91815604	99.9043778
210420A00010	4/20/2021	1.08	12/12/2025	100.03423	100.0009406	99.96768795	99.93447435	99.90129974	99.86816407	99.83506725	99.80200922	99.76898989
210420A00035	4/20/2021	1.92	4/20/2034	110.30003	104.7618103	99.60322708	94.7943561	90.30785367	86.11872088	82.20408767	78.54301803	75.11633414
210423A00001	4/23/2021	1.72	4/23/2036	109.57502	104.0140602	98.84932206	94.0478484	89.57971249	85.41772064	81.53714231	77.91546867	74.53219634
210423A00003	4/23/2021	1.31	4/23/2031	104.70227	101.8670838	99.14646505	96.53476683	94.02666105	91.61712015	89.30139801	87.07501228	84.93372791
210428A00006	4/28/2021	1.23	4/28/2026	100.5433	100.1299658	99.72001853	99.31341876	98.91012561	98.5100989	98.11329909	97.71968729	97.32922521
210428A00007	4/28/2021	1.74	10/27/2028	106.14179	103.178922	100.3139142	97.54301115	94.86262628	92.26932955	89.75983994	87.331018	84.97985899
210428A00008	4/28/2021	1.93	4/26/2030	109.92174	105.3716774	101.0356681	96.90255509	92.96182264	89.203553	85.61838938	82.19750139	78.93255274
210428A00015	4/28/2021	2.02	4/28/2031	112.16156	106.538621	101.2319993	96.22230142	91.49141851	87.02243477	82.79954316	78.80796725	75.03388902
210429A00005	4/29/2021	2.08	4/29/2031	112.49781	106.862981	101.5451482	96.5248686	91.78399046	87.30555862	83.07372953	79.07369299	75.29159971
210507A00008	5/7/2021	1.94	5/7/2031	111.75329	106.1168827	100.7990849	95.78027281	91.04212857	86.56754676	82.34054818	78.34620015	74.57054288
210507A00009	5/7/2021	2.02	5/7/2032	113.52881	106.8372477	100.5843748	94.73919936	89.27306748	84.15947732	79.37390738	74.89365909	70.6977127
210512A00011	5/12/2021	1.16	5/12/2026	100.6705	100.1376834	99.61053021	99.08895087	98.57285705	98.06216228	97.5567819	97.05663301	96.56163443
210512A00012	5/12/2021	1.16	5/12/2026	100.6705	100.1376834	99.61053021	99.08895087	98.57285705	98.06216228	97.5567819	97.05663301	96.56163443
210514A00007	5/14/2021	0.95	5/15/2028	101.71038	100.409625	99.13797442	97.89453634	96.67844969	95.48888696	94.32505255	93.18618134	92.07153718
210514A00010	5/14/2021	1.34	5/14/2031	104.79488	101.9488925	99.21876989	96.59875594	94.08342077	91.66764312	89.34659065	87.11570166	84.97066806
210514A00033	5/18/2021	2.8	5/18/2028	107.88582	105.3465668	102.8805201	100.4851479	98.15802205	95.89681287	93.69928459	91.56329089	89.48677071
210518A00023	5/18/2021	1.17	5/18/2026	100.59194	100.1231932	99.65880928	99.19873233	98.74290248	98.29126097	97.84375017	97.40031346	96.9608953

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
210525A00004	5/25/2021	1.02	12/19/2025	100.05029	99.99758711	99.94495575	99.89239643	99.839909	99.7874933	99.73514918	99.68287649	99.63067508
210526A00014	5/26/2021	1.01	12/19/2025	100.04976	99.99705562	99.9444247	99.89186582	99.83937882	99.78696355	99.73461987	99.68234762	99.63014665
210526A00017	5/26/2021	2.13	5/26/2033	115.55983	107.7552997	100.5352439	93.8528443	87.66525675	81.93325819	76.6209233	71.69533185	67.12630322
210526A00018	5/26/2021	1.11	5/26/2026	100.59177	100.1008995	99.61481077	99.13343214	98.65669537	98.18453355	97.71688105	97.25367349	96.79484769
210527A00019	5/27/2021	1	5/27/2026	100.5753	100.0813028	99.5921439	99.10775497	98.6280665	98.15301029	97.68251948	97.21652848	96.75497295
210527A00026	6/1/2021	2.78	6/1/2028	107.95483	105.3761886	102.8729491	100.4424658	98.08220252	95.7897275	93.56270849	91.398908	89.29617884
210603A00015	6/7/2021	2.71	6/7/2028	107.82888	105.2348515	102.7170316	100.272734	97.89938152	95.59450391	93.35573275	91.18079648	89.06751578
210608A00017	6/10/2021	2.67	6/8/2029	110.7209	107.0561899	103.5335239	100.1466251	96.88952603	93.75655528	90.74232106	87.84169579	85.04980159
210609A00007	6/11/2021	2.6	6/11/2029	110.49371	106.8244996	103.297811	99.9073288	96.64705413	93.51128641	90.49460678	87.59186248	84.79815223
210610A00012	6/11/2021	1.9	6/10/2026	101.06496	100.5312111	100.0030957	99.48052475	98.96341124	98.45166983	97.94521702	97.44397101	96.94785171
210610A00014	6/11/2021	2.03	6/10/2026	101.13431	100.6003464	100.0720204	99.54924041	99.0319194	98.51997204	98.01331479	97.51186586	97.01554511
210611A00006	6/11/2021	1.85	6/11/2031	111.37748	105.6558408	100.2629727	95.17829395	90.38261847	85.8580512	81.58789473	77.55656302	73.74950185
210611A00010	6/11/2021	1.02	6/11/2026	100.68592	100.0748922	99.47131237	98.87504471	98.28595655	97.70391842	97.12880396	96.56048981	95.99885555
210611A00011	6/11/2021	1.02	6/11/2026	100.68592	100.0748922	99.47131237	98.87504471	98.28595655	97.70391842	97.12880396	96.56048981	95.99885555
210611A00012	6/11/2021	1.02	6/11/2026	100.68592	100.0748922	99.47131237	98.87504471	98.28595655	97.70391842	97.12880396	96.56048981	95.99885555
210623A00028	6/23/2021	1.22	6/23/2026	100.75075	100.1820445	99.61973857	99.06372883	98.51390997	97.97017896	97.43243509	96.90057983	96.37451682
210624A00005	6/24/2021	1.22	6/24/2026	100.75449	100.1830026	99.617982	99.05931711	98.50690109	97.96062953	97.42040031	96.88611359	96.3576717
210624A00025	6/24/2021	1.43	6/24/2027	102.76973	101.1927323	99.64765814	98.13361114	96.64972561	95.19516777	93.7691343	92.37085087	90.99957087
210624A00026	6/24/2021	1.6	6/23/2028	105.07159	102.4684449	99.94296764	97.49237462	95.11399947	92.80528859	90.56379554	88.38717578	86.2731817
210629A00005	6/29/2021	1.25	6/29/2026	100.79074	100.2053203	99.62666871	99.05467284	98.48921844	97.93019388	97.37749008	96.8310004	96.29062057
210629A00009	6/29/2021	1.14	12/31/2025	100.09169	100.0057043	99.91986577	99.83417321	99.74862625	99.66322454	99.57796772	99.49285544	99.40788734
210629A00012	6/29/2021	1.14	12/29/2025	100.08582	100.0053798	99.92507479	99.84490188	99.76486076	99.68495113	99.60517266	99.52552504	99.44600797
210629A00014	6/29/2021	1.78	12/28/2029	108.61936	104.4314322	100.4279359	96.59976586	92.93831717	89.43545472	86.08348502	82.87512965	79.80350048
210629A00015	6/29/2021	1.89	6/27/2031	111.66627	105.8919192	100.4514409	95.32380979	90.48942872	85.93002824	81.62856953	77.56915523	73.73694712
210701A00007	7/1/2021	1.22	7/1/2026	100.78064	100.1897274	99.60571319	99.0284792	98.45790801	97.89388488	97.33629768	96.78503683	96.23999521
210706A00006	7/6/2021	1.15	7/6/2026	100.757	100.1523648	99.55496301	98.96466599	98.38134748	97.80488424	97.23515594	96.67204503	96.11543671
210706A00014	7/6/2021	1.15	6/26/2026	100.7215	100.1445974	99.57427958	99.01043572	98.45295613	97.90173352	97.35666305	96.81764217	96.28457062
210706A00015	7/6/2021	1.06	12/31/2025	100.0848	99.99882177	99.91298915	99.82730249	99.74176142	99.65636559	99.57111464	99.48600821	99.40104596
210707A00002	7/7/2021	1.12	6/26/2026	100.70416	100.127317	99.55705571	98.99326793	98.43584397	97.88467655	97.33966082	96.80069425	96.26767658
210707A00008	7/9/2021	2.44	7/7/2031	114.85069	108.9601215	103.4100934	98.17911337	93.24715976	88.59557133	84.20694754	80.06505674	76.15475161
210709A00002	7/9/2021	1.36	7/9/2029	106.4174	102.7367034	99.20235175	95.80772392	92.54653495	89.41281968	86.4009145	83.50544019	80.72128589
210709A00005	7/9/2021	1.69	7/9/2031	110.56283	104.7866763	99.34667271	94.22153043	89.39141469	84.83784202	80.54358101	76.49256101	72.66978787
210709A00006	7/13/2021	2.4	7/11/2031	114.64113	108.7454818	103.1913208	97.95706274	93.02259683	88.36918124	83.97934253	79.83678317	75.92629623

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
210714A00012	7/14/2021	1.12	7/14/2026	100.86472	100.161573	99.46827392	98.78461956	98.1104091	97.44544731	96.78954431	96.14251539	95.50418085
210714A00013	7/14/2021	1.12	7/14/2026	100.86472	100.161573	99.46827392	98.78461956	98.1104091	97.44544731	96.78954431	96.14251539	95.50418085
210714A00014	7/14/2021	1.12	7/14/2026	100.86472	100.161573	99.46827392	98.78461956	98.1104091	97.44544731	96.78954431	96.14251539	95.50418085
210714A00015	7/14/2021	1.11	7/14/2026	100.85336	100.1536836	99.46379251	98.78348065	98.11254879	97.4508032	96.79805547	96.15412232	95.51882542
210719A00004	7/19/2021	1	4/20/2026	100.42272	100.0318056	99.64393367	99.25907181	98.87718505	98.49823888	98.12219937	97.74903308	97.3787071
210719A00009	7/19/2021	1.04	7/17/2026	100.72614	100.0912497	99.46434207	98.84526596	98.23387514	97.63002706	97.03358268	96.44440637	95.86236578
210720A00035	7/22/2021	2.27	7/21/2031	113.94039	108.037092	102.4774597	97.23967187	92.30340381	87.64972075	83.2609752	79.12071262	75.21358449
210721A00009	7/21/2021	1.7	7/21/2031	110.65491	104.8439854	99.37287383	94.21994496	89.36505858	84.78945367	80.47564654	76.4073371	72.56932252
210722A00001	7/22/2021	1.1	7/22/2026	100.78141	100.1325176	99.49195658	98.85956524	98.23518794	97.61867304	97.00987267	96.40864268	95.81484246
210722A00008	7/21/2023	1.84	7/22/2030	109.94886	105.1584321	100.603941	96.27251402	92.15204838	88.23116441	84.49915828	80.94595797	77.56208236
210722A00009	7/21/2023	1.96	7/22/2032	113.3635	106.4713682	100.0440204	94.04769888	88.45126777	83.22599683	78.34536337	73.78487144	69.52188687
210729A00003	7/29/2021	1.11	7/29/2026	100.81203	100.1437032	99.48419334	98.83333116	98.19094755	97.55687778	96.93096138	96.31304198	95.70296718
210729A00004	7/29/2021	1.74	7/29/2031	110.90954	105.0699638	99.57288416	94.39642864	89.52024073	84.92536259	80.59413133	76.51008362	72.65786792
210729A00006	7/29/2021	1.87	11/30/2032	113.10437	105.8675005	99.14272004	92.89116886	87.07712775	81.66774623	76.63279833	71.94446052	67.57710937
210803A00005	8/5/2021	2.06	8/4/2026	101.48544	100.7979704	100.1197911	99.45071522	98.79056032	98.1391489	97.49630808	96.86186954	96.23566934
210804A00008	8/6/2021	2.28	8/4/2028	107.14784	104.4019251	101.7404848	99.16037582	96.6585962	94.23227676	91.87867425	89.59516479	87.37923771
210809A00010	8/9/2021	1.06	8/7/2026	100.90485	100.1372625	99.38140607	98.63701344	97.90382471	97.18158775	96.47005797	95.76899801	95.07817751
210809A00012	8/9/2021	1.06	8/7/2026	100.90485	100.1372625	99.38140607	98.63701344	97.90382471	97.18158775	96.47005797	95.76899801	95.07817751
210809A00013	8/9/2021	1.05	8/7/2026	100.89219	100.1287546	99.37696539	98.63655518	97.90726617	97.18884837	96.48105923	95.78366339	95.0964324
210809A00014	8/9/2021	1.06	8/7/2026	100.90485	100.1372625	99.38140607	98.63701344	97.90382471	97.18158775	96.47005797	95.76899801	95.07817751
210809A00015	8/9/2021	1.06	8/7/2026	100.90485	100.1372625	99.38140607	98.63701344	97.90382471	97.18158775	96.47005797	95.76899801	95.07817751
210817A00013	8/19/2021	2	8/19/2026	101.53578	100.8065732	100.0878196	99.37929626	98.68078566	97.99207656	97.31296359	96.64324708	95.98273289
210826A00009	8/26/2021	1.18	8/26/2026	100.96556	100.2193093	99.4840456	98.75952406	98.04551063	97.34177806	96.64810561	95.9642788	95.29008924
210826A00013	8/26/2021	1.97	2/28/2033	114.10227	106.5835635	99.61258237	93.14654481	87.14623205	81.57566967	76.4018427	71.59443707	67.12560506
210907A00004	9/7/2021	2.01	9/7/2033	114.9355	106.8756808	99.43993795	92.5766772	86.2388275	80.38341998	74.97121031	69.96633765	65.33601664
210907A00006	9/7/2021	2.1	9/7/2034	116.66306	107.5603737	99.24156046	91.63493115	84.67570031	78.30529161	72.4707131	67.12399833	62.22170603
210907A00007	9/7/2021	2.35	9/4/2037	121.16146	109.0165295	98.22248493	88.62110343	80.0734737	72.4575467	65.66601133	59.60444723	54.18971741
210907A00008	9/7/2021	2.42	9/7/2038	122.36418	109.2385572	97.68036555	87.49282137	78.50481407	70.5674427	63.55103233	57.34256427	51.84346097
210907A00009	9/7/2021	2.5	9/7/2039	124.07797	109.9587944	97.63689289	86.87189374	77.45678064	69.2131093	61.98693431	55.64533415	50.07344426
210907A00010	9/7/2021	2.58	9/7/2040	126.4715	111.3140055	98.20110802	86.84299746	76.99243205	68.43828941	61.00012485	54.52357297	48.87645831
210907A00011	9/7/2021	2.65	9/6/2041	129.59115	113.3341787	99.38853271	87.40861767	77.10234474	68.22260092	60.56011542	53.93748816	48.20418645
210907A00014	9/9/2021	2.45	9/9/2026	102.0194	101.2299332	100.4526674	99.68731971	98.93361754	98.19129638	97.46009974	96.73977879	96.03009208
210907A00015	9/9/2021	2.21	9/9/2026	101.83066	101.0420097	100.2655505	99.50100073	98.74808791	98.00654771	97.27612379	96.55656746	95.84763743

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
210913A00014	9/13/2021	1.15	9/13/2028	102.22053	100.7006621	99.21853014	97.77288565	96.36253314	94.98632583	93.64316329	92.33198918	91.05178913
210913A00015	9/13/2021	1.08	9/14/2026	101.03633	100.1846807	99.34763382	98.52480948	97.7158453	96.92039116	96.13810866	95.36867066	94.61176081
210914A00012	9/14/2021	1.18	9/14/2027	102.87015	101.0673462	99.30463915	97.58083603	95.89479013	94.2453986	92.63160031	91.05237383	89.50673562
210914A00014	9/14/2021	0.97	9/14/2026	100.92823	100.128924	99.34221725	98.56781719	97.80543673	97.05479766	96.31563036	95.58767336	94.87067312
210914A00017	9/14/2021	1.32	9/14/2028	104.91327	102.0814318	99.33997365	96.68548111	94.11468746	91.6244703	89.21184416	86.8739535	84.60806605
210914A00018	9/14/2021	1.43	9/14/2029	106.98555	103.1111616	99.39716549	95.83606231	92.42074318	89.14447057	86.00085656	82.98384261	80.08768054
210915A00024	9/15/2021	1.1	9/15/2026	101.07716	100.2072354	99.35236941	98.51217303	97.68627002	96.87429695	96.07590262	95.29074758	94.51850363
210915A00025	9/15/2021	1.09	9/15/2026	101.06163	100.1970848	99.3474754	98.5124118	97.69152138	96.88444418	96.09083238	95.31034974	94.5426712
210915A00026	9/15/2021	1.1	9/15/2026	101.07716	100.2072354	99.35236941	98.51217303	97.68627002	96.87429695	96.07590262	95.29074758	94.51850363
210915A00027	9/15/2021	1.1	9/15/2026	101.07716	100.2072354	99.35236941	98.51217303	97.68627002	96.87429695	96.07590262	95.29074758	94.51850363
210916A00008	9/16/2021	1.48	9/15/2028	105.1712	102.3374663	99.5941305	96.93777889	94.36514914	91.87312262	89.45871701	87.11907936	84.8514796
210916A00009	9/16/2021	2.25	9/16/2036	119.70713	108.5336907	98.5141729	89.52289186	81.44845786	74.19208519	67.66610878	61.7926819	56.50263211
210917A00008	9/17/2021	1.55	9/15/2028	105.37039	102.5338126	99.78770065	97.12863926	94.55336397	92.05875409	89.64182534	87.29972288	85.02971482
210917A00012	9/17/2021	1.2	9/11/2026	101.04449	100.2537138	99.47526124	98.70884824	97.95419716	97.21103879	96.47911212	95.75816398	95.04794875
210920A00014	9/9/2022	1.28	9/9/2026	101.0993	100.3138064	99.54047263	98.77901468	98.02916057	97.29064659	96.56321696	95.84662356	95.14062563
210920A00015	9/9/2022	1.28	9/9/2026	101.0993	100.3138064	99.54047263	98.77901468	98.02916057	97.29064659	96.56321696	95.84662356	95.14062563
210921A00006	9/21/2021	1.43	9/21/2028	104.95455	102.1555946	99.44754644	96.82695779	94.29052852	91.83510161	89.45765616	87.15530065	84.92526669
210921A00009	9/21/2021	1.28	9/21/2028	104.72792	101.9302129	99.22347571	96.60425049	94.06923191	91.61525818	89.23930389	86.93847342	84.70999452
210924A00003	9/24/2021	2.37	9/24/2036	121.0288	109.7652911	99.66507605	90.60136742	82.46180759	75.14676006	68.56781197	62.64645931	57.31295195
210924A00004	9/24/2021	2.37	9/24/2036	121.0288	109.7652911	99.66507605	90.60136742	82.46180759	75.14676006	68.56781197	62.64645931	57.31295195
210924A00005	9/24/2021	2.37	9/24/2036	121.0288	109.7652911	99.66507605	90.60136742	82.46180759	75.14676006	68.56781197	62.64645931	57.31295195
210924A00011	9/24/2021	2.19	9/25/2034	117.51803	108.3301672	99.93665535	92.26459392	85.24812091	78.82769972	72.94948272	67.56474183	62.62935859
210928A00008	9/28/2021	1.35	9/28/2026	101.23932	100.4006717	99.57585345	98.76452111	97.96634624	97.18101102	96.40820777	95.64763857	94.89901489
210928A00009	9/28/2021	2.18	9/28/2033	116.35255	108.1810901	100.6453992	93.69271357	87.2748979	81.34801907	75.87195996	70.81007053	66.12885242
211007A00006	10/7/2021	1.28	10/7/2026	101.33554	100.4026347	99.48701303	98.58819225	97.70571188	96.8391282	95.98801343	95.15195506	94.33055513
211014A00012	10/14/2021	1.46	10/14/2031	105.54049	102.428204	99.45140872	96.60296117	93.87615241	91.26467492	88.7625958	86.36433197	84.06462716
211019A00009	10/19/2021	1.48	10/9/2026	101.40327	100.5334311	99.67845321	98.83795875	98.01158208	97.19896978	96.39978014	95.61368269	94.84035774
211019A00011	10/19/2021	1.48	10/16/2026	101.43842	100.5490339	99.67518193	98.81645876	97.97247407	97.14285087	96.32722493	95.52524425	94.73656856
211026A00012	10/26/2021	1.52	10/26/2026	101.52532	100.6078164	99.70681747	98.82188361	97.9525883	97.09851996	96.25928136	95.43448894	94.62377231
211026A00013	10/26/2021	1.52	10/26/2026	101.52532	100.6078164	99.70681747	98.82188361	97.9525883	97.09851996	96.25928136	95.43448894	94.62377231
211028A00012	10/28/2021	1.64	10/15/2027	103.75654	101.8625803	100.012367	98.20462844	96.43814198	94.71172819	93.02424887	91.37460535	89.76173683
211028A00013	10/28/2021	1.65	10/22/2027	103.8145	101.9010808	100.0322507	98.20670737	96.42319367	94.68049705	92.97744785	91.31291742	89.68581641
211028A00020	10/28/2021	2.05	1/28/2031	111.9007	106.5399568	101.4682654	96.66851061	92.12468001	87.82179011	83.74581436	79.88361682	76.22289067

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
211028A00021	10/28/2021	2.28	10/28/2033	117.24825	108.9625524	101.3268693	94.28678526	87.79270335	81.79939341	76.26558756	71.15361485	66.42907124
211110A00012	11/10/2021	1.44	11/10/2026	101.65557	100.6325726	99.63030428	98.64814206	97.68548366	96.74175073	95.81638759	94.9088602	94.01865502
211110A00013	11/10/2021	1.44	11/10/2026	101.65557	100.6325726	99.63030428	98.64814206	97.68548366	96.74175073	95.81638759	94.9088602	94.01865502
211110A00014	11/10/2021	1.44	11/10/2026	101.65557	100.6325726	99.63030428	98.64814206	97.68548366	96.74175073	95.81638759	94.9088602	94.01865502
211115A00032	11/15/2021	1.75	11/12/2027	104.13254	102.1581589	100.2310827	98.34989203	96.51321593	94.71973372	92.96817284	91.2573067	89.58595271
211119A00009	11/19/2021	1.68	11/19/2027	104.035	102.0420773	100.0973679	98.19940872	96.34678955	94.53815229	92.77218884	91.04763885	89.36328762
211123A00011	11/23/2021	1.69	11/23/2026	101.84499	100.8481534	99.87074832	98.91220745	97.97198886	97.04957119	96.14445268	95.2561503	94.38419883
211123A00012	11/23/2021	2.27	11/23/2033	117.25532	108.8987693	101.2033759	94.11331795	87.57775966	81.55037961	75.98894893	70.85495064	66.11323611
211129A00011	11/29/2021	1.53	11/20/2026	101.66941	100.6818429	99.71337148	98.7634468	97.83154008	96.91714253	96.01976435	95.13893384	94.27419662
211129A00012	11/29/2021	1.53	11/25/2026	101.6967	100.6951053	99.7131457	98.75024387	97.8058494	96.8794329	95.97048502	95.07851547	94.20305216
211206A00009	12/6/2021	1.43	12/5/2025	100.02018	100.0062993	99.99243571	99.97858576	99.9647494	99.95092659	99.93711733	99.92332158	99.90953932
211206A00010	12/6/2021	1.54	12/4/2026	101.75811	100.7311798	99.72487033	98.73856525	97.77167302	96.82362511	95.89387505	94.98189729	94.08718623
211206A00017	12/6/2021	1.56	12/4/2026	101.77862	100.7515798	99.74515886	98.75874392	97.79174331	96.84358852	95.91373301	95.0016512	94.10683748
211207A00011	12/7/2021	1.62	12/1/2026	101.82151	100.8025749	99.80393061	98.82497308	97.86512501	96.92383148	96.00055888	95.09479383	94.20604233
211207A00012	12/7/2021	1.62	12/4/2026	101.84016	100.8127797	99.80602446	98.8192799	97.8519542	96.90347874	95.97330687	95.06091294	94.16579121
211208A00012	12/8/2021	1.62	12/8/2026	102.0156	100.9125669	99.83356753	98.77782385	97.74458782	96.73314319	95.74280388	94.77291238	93.82283826
211208A00013	12/8/2021	1.63	12/8/2026	102.03676	100.9284063	99.84424275	98.78348643	97.74538374	96.72921317	95.73428357	94.75993263	93.80552532
211209A00006	12/9/2021	1.61	12/8/2026	101.85467	100.8160747	99.79856025	98.80148951	97.82425122	96.86625832	95.92694672	95.0057742	94.10221932
211209A00007	12/9/2021	1.61	12/8/2026	101.85467	100.8160747	99.79856025	98.80148951	97.82425122	96.86625832	95.92694672	95.0057742	94.10221932
211210A00014	12/10/2021	1.54	12/10/2025	100.04186	100.0141049	99.98638127	99.95868872	99.93102715	99.90339652	99.87579676	99.84822782	99.82068964
211210A00015	12/10/2021	1.63	12/10/2026	101.8879	100.8435521	99.82051474	98.81814044	97.83580812	96.8729214	95.92890734	95.00321534	94.09531601
211210A00016	12/10/2021	1.76	12/10/2027	104.32157	102.267887	100.2650429	98.31144804	96.40557726	94.54596363	92.73119589	90.95991584	89.23081594
211214A00015	12/14/2021	1.49	12/12/2025	100.04818	100.0148759	99.98161186	99.94838692	99.915201	99.88205402	99.8489459	99.81587658	99.78284598
211217A00021	12/21/2021	2.44	12/18/2026	102.80023	101.7284048	100.6788843	99.65097307	98.64400875	97.65735569	96.69040376	95.74256706	94.81328273
211221A00023	12/21/2021	1.53	6/19/2026	100.90894	100.3507817	99.79878757	99.25285751	98.71289186	98.17879317	97.65046611	97.12781738	96.61075571
211221A00025	12/21/2021	1.59	12/21/2026	101.91371	100.8385878	99.78603435	98.75534854	97.74585454	96.7569041	95.78787516	94.83817058	93.90721683
211222A00035	12/22/2021	2.15	12/22/2033	116.36505	107.9662791	100.2385562	93.12471404	86.57273683	80.53526864	74.96917381	69.83514095	65.09732594
211227A00005	12/27/2021	1.61	12/18/2026	101.91659	100.8498062	99.80524696	98.78222593	97.78008236	96.79818227	95.83591712	94.89270254	93.96797716
211227A00009	12/27/2021	1.6	12/23/2026	101.93678	100.8559457	99.79792124	98.7619868	97.74745638	96.7536721	95.78000281	94.82584271	93.89061014
220104A00006	1/4/2022	1.76	1/4/2029	106.39033	103.4093261	100.5317913	97.75347824	95.07034332	92.4785353	89.97438471	87.55439386	85.21522763
220106A00007	1/6/2022	2.42	1/6/2034	118.63831	110.1093418	102.2626727	95.04002737	88.38839916	82.25954487	76.60953403	71.39834261	66.58948714
220106A00008	1/6/2022	2.5	1/5/2035	120.65289	111.0577412	102.3120892	94.33599962	87.05745118	80.41151663	74.33963072	68.7889369	63.71170413
220106A00009	1/6/2022	2.57	1/4/2036	122.55612	111.9029815	102.2823636	93.58824733	85.72602078	78.61120029	72.16829906	66.32982725	61.03540779

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
220106A00010	1/6/2022	2.64	1/6/2037	124.18127	112.4843362	102.0185233	92.64688687	84.24839781	76.71601632	69.95501037	63.88148377	58.42108675
220106A00011	1/6/2022	2.7	1/6/2038	125.50254	112.7976462	101.5336869	91.53827199	82.66049569	74.76816314	67.7453843	61.49048799	55.91421196
220106A00013	1/6/2022	2.75	1/6/2039	126.83619	113.1371086	101.1013693	90.51619322	81.19709508	72.98399526	65.737879	59.33792774	53.67905353
220106A00018	1/10/2022	3.11	1/8/2032	119.92264	113.3677227	107.2192023	101.4496701	96.03370838	90.94773564	86.16986441	81.67977086	77.45857509
220106A00019	1/10/2022	3.17	1/7/2033	122.63694	114.9642492	107.8342972	101.2056792	95.04036286	89.30339493	83.96263614	78.98852083	74.3538381
220111A00002	1/11/2022	1.75	1/16/2026	100.226	100.0955756	99.96550739	99.8357932	99.70643159	99.57742106	99.44876015	99.3204474	99.19248134
220112A00004	1/12/2022	1.55	1/12/2026	100.18977	100.0703833	99.95129354	99.83250335	99.7140115	99.59581682	99.47791814	99.36031429	99.24300412
220112A00005	1/12/2022	1.55	1/12/2026	100.18977	100.0703833	99.95129354	99.83250335	99.7140115	99.59581682	99.47791814	99.36031429	99.24300412
220114A00007	1/14/2022	1.7	1/27/2026	100.27418	100.1132102	99.9527669	99.79284322	99.63343663	99.47454463	99.31616473	99.15829445	99.00093134
220114A00009	1/14/2022	1.74	4/21/2026	100.71782	100.3234345	99.93214574	99.54391246	99.15869889	98.77646982	98.39719058	98.02082705	97.64734561
220114A00010	1/14/2022	1.86	1/13/2027	102.36547	101.2234902	100.1068812	99.01480418	97.94645763	96.90107451	95.87792057	94.87629255	93.8955166
220124A00007	1/24/2022	1.88	1/22/2027	102.45322	101.2855298	100.144339	99.02875311	97.93791792	96.87101691	95.82726909	94.80592713	93.80627558
220124A00008	1/24/2022	1.88	1/22/2027	102.45322	101.2855298	100.144339	99.02875311	97.93791792	96.87101691	95.82726909	94.80592713	93.80627558
220125A00010	1/25/2022	1.89	1/25/2027	102.4866	101.3103058	100.1608917	99.03744307	97.9390881	96.86499345	95.81436234	94.78643255	93.78047454
220126A00002	1/26/2022	1.9	12/18/2026	102.22533	101.1567865	100.1104937	99.08576409	98.08193616	97.0983754	96.13447269	95.18964316	94.26332489
220126A00003	1/26/2022	1.9	12/18/2026	102.22533	101.1567865	100.1104937	99.08576409	98.08193616	97.0983754	96.13447269	95.18964316	94.26332489
220131A00003	1/31/2022	1.98	2/1/2027	102.64423	101.4473492	100.2782522	99.13597912	98.01961542	96.92828769	95.86116136	94.8174386	93.79635628
220131A00006	1/31/2022	1.83	2/1/2027	102.54912	101.3515605	100.181823	99.038949	97.92202184	96.83016621	95.76254575	94.71836093	93.69684704
220201A00011	2/1/2022	1.86	4/20/2026	100.75959	100.3678829	99.97922373	99.59357911	99.21091397	98.83119377	98.45438454	98.0804528	97.70936559
220203A00009	2/3/2022	1.99	2/2/2027	102.66342	101.4636212	100.29174	99.14680881	98.02790655	96.93415374	95.86471009	94.81877239	93.79557245
220204A00004	2/4/2022	2.08	1/8/2027	102.57672	101.447455	100.3429613	99.26243191	98.20509335	97.17020513	96.15705802	95.16497236	94.19329657
220209A00010	2/9/2022	2.14	1/11/2027	102.66794	101.5297323	100.4166721	99.32793615	98.26273367	97.22030782	96.19993391	95.20091771	94.22259387
220209A00011	2/9/2022	2.14	1/11/2027	102.66794	101.5297323	100.4166721	99.32793615	98.26273367	97.22030782	96.19993391	95.20091771	94.22259387
220214A00010	2/14/2022	2.46	12/21/2029	111.40032	107.1745657	103.1335462	99.2681908	95.56992513	92.03064073	88.64266699	85.39874505	82.2920033
220214A00012	2/14/2022	2.47	12/28/2029	111.49172	107.2447511	103.1841051	99.30059785	95.58555196	92.03076328	88.62847253	85.37133856	82.25241345
220216A00003	2/16/2022	2.49	12/14/2029	111.47426	107.2663247	103.2416573	99.39128919	95.70674437	92.18000536	88.80348587	85.57000517	82.47276409
220217A00012	2/17/2022	2.28	2/16/2027	103.1227	101.8807563	100.6686247	99.48524374	98.32959979	97.20072624	96.097701	95.01964388	93.96571426
220217A00015	2/17/2022	2.28	2/16/2027	103.1227	101.8807563	100.6686247	99.48524374	98.32959979	97.20072624	96.097701	95.01964388	93.96571426
220217A00016	2/17/2022	2.24	9/15/2026	101.89593	101.0903536	100.2974902	99.51704146	98.74871728	97.99223658	97.24732692	96.51372417	95.79117217
220217A00017	2/17/2022	2.27	1/29/2027	102.96462	101.7741292	100.6110669	99.47449559	98.36351836	97.27727828	96.21495632	95.17576923	94.15896764
220217A00018	2/17/2022	2.28	2/17/2027	103.1308	101.8860003	100.6711462	99.48517	98.32705138	97.1958175	96.09054039	95.01033435	93.95435356
220217A00027	2/16/2024	2.56	2/17/2032	116.69277	110.1232043	103.9691155	98.2019878	92.79541191	87.72491972	82.96783124	78.50311432	74.3112563
220218A00003	2/18/2022	2.16	9/4/2026	101.75772	100.9832454	100.2205275	99.46930142	98.72930889	98.00029935	97.28202965	96.57426376	95.87677253

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
220222A00018	2/22/2022	2.5	12/19/2031	116.02049	109.6388153	103.6518534	98.0331052	92.75798778	87.80368346	83.14900431	78.77426749	74.66118086
220224A00018	2/24/2022	2.15	3/16/2026	100.65064	100.3561197	100.0633324	99.7722653	99.48290329	99.19523127	98.90923437	98.62489788	98.34220728
220224A00023	2/24/2022	2.15	3/16/2026	100.65064	100.3561197	100.0633324	99.7722653	99.48290329	99.19523127	98.90923437	98.62489788	98.34220728
220225A00014	2/25/2022	2.42	2/23/2029	109.05259	105.7101414	102.4879795	99.38103526	96.38449317	93.49377208	90.70451207	88.01256208	85.41396835
220225A00015	2/25/2022	2.26	2/25/2027	103.17048	101.9029788	100.6665012	99.45992232	98.28216784	97.13221452	96.00908699	94.91185503	93.83963099
220301A00013	3/1/2022	2.01	2/16/2027	102.79013	101.5503503	100.3403526	99.15907052	98.00549122	96.87864909	95.77762291	94.70153337	93.64954068
220301A00015	3/1/2022	2	1/4/2027	102.45666	101.3392927	100.246201	99.17659616	98.12972754	97.10487629	96.10135356	95.11849898	94.15567918
220302A00010	3/2/2022	2.14	1/13/2027	102.68384	101.5399285	100.4214213	99.32747495	98.25728731	97.21009062	96.18514992	95.18176132	94.19925033
220302A00011	3/2/2022	2.14	1/13/2027	102.68384	101.5399285	100.4214213	99.32747495	98.25728731	97.21009062	96.18514992	95.18176132	94.19925033
220304A00004	3/4/2022	2.12	12/29/2028	107.67966	104.5192339	101.4682688	98.52234223	95.67724245	92.92895279	90.27364123	87.70765072	85.22749
220308A00012	3/8/2022	2.51	3/8/2032	114.10089	108.5027543	103.2443765	98.30284336	93.65691353	89.28688869	85.17449348	81.30276528	77.65595323
220309A00010	3/9/2022	2.27	3/8/2027	103.26978	101.9751023	100.7099044	99.47318194	98.26397337	97.08136044	95.9244657	94.7924502	93.68451142
220310A00009	3/10/2022	2.31	3/10/2027	103.4953	102.1503724	100.8296955	99.53267044	98.2587136	97.00726024	95.77776367	94.56969454	93.38254015
220310A00010	3/10/2022	2.31	3/10/2027	103.4953	102.1503724	100.8296955	99.53267044	98.2587136	97.00726024	95.77776367	94.56969454	93.38254015
220311A00013	3/15/2022	2.35	3/15/2027	103.42905	102.117433	100.8336087	99.57669407	98.34584633	97.14025786	95.95915466	94.80179452	93.66746537
220314A00004	3/14/2022	2.44	3/12/2027	103.52181	102.2163572	100.939435	99.69011129	98.46749156	97.27072004	96.09897762	94.95147991	93.82747537
220314A00007	3/14/2022	2.44	3/12/2027	103.52181	102.2163572	100.939435	99.69011129	98.46749156	97.27072003	96.09897762	94.95147991	93.82747537
220315A00014	3/15/2022	2.78	3/15/2032	118.24248	111.5483521	105.281228	99.41158748	93.91210316	88.75746543	83.92422302	79.39063715	75.13654788
220315A00015	3/15/2022	3.18	3/13/2037	130.46179	118.2468516	107.3259817	97.55384668	88.80217911	80.95769368	73.92026694	67.6013462	61.92255794
220315A00018	3/15/2022	2.43	3/15/2027	103.53361	102.221275	100.9367424	99.67913178	98.44759978	97.24133853	96.05957371	94.90156278	93.7665934
220315A00036	3/17/2022	2.63	3/16/2027	103.80384	102.4873684	101.1984918	99.93634272	98.70009433	97.48895388	96.30216127	95.13898725	93.99873184
220315A00037	3/17/2022	2.63	3/16/2027	103.80384	102.4873684	101.1984918	99.93634272	98.70009433	97.48895388	96.30216127	95.13898725	93.99873184
220317A00026	5/3/2022	2.59	5/3/2027	104.16886	102.7235332	101.3053857	99.91371725	98.54785025	97.2071298	95.89092273	94.59861667	93.32961921
220317A00027	5/3/2022	2.59	5/3/2027	104.16886	102.7235332	101.3053857	99.91371725	98.54785025	97.2071298	95.89092273	94.59861667	93.32961921
220317A00028	5/3/2022	2.59	5/3/2027	104.16886	102.7235332	101.3053857	99.91371725	98.54785025	97.2071298	95.89092273	94.59861667	93.32961921
220324A00015	3/24/2022	2.79	3/3/2026	100.73333	100.4746801	100.2173636	99.96136671	99.70667935	99.45329144	99.20119305	98.95037431	98.7008255
220325A00012	3/28/2022	2.85	3/23/2026	100.91489	100.6004441	100.2879699	99.97744475	99.66885045	99.36216897	99.05738249	98.75447342	98.45342438
220325A00015	3/28/2022	2.86	3/23/2027	104.17133	102.8363938	101.5273909	100.2435826	98.98426207	97.74874924	96.53638926	95.34655145	94.17862819
220325A00017	3/28/2022	2.86	3/23/2027	104.17133	102.8363938	101.5273909	100.2435826	98.98426207	97.74874924	96.53638926	95.34655145	94.17862819
220325A00018	3/28/2022	2.85	9/10/2026	102.34261	101.5489641	100.7676237	99.99829975	99.24071649	98.49460641	97.75971011	97.03577596	96.32255982
220325A00019	3/28/2022	2.86	3/23/2027	104.17133	102.8363938	101.5273909	100.2435826	98.98426207	97.74874924	96.53638926	95.34655145	94.17862819
220325A00020	3/28/2022	2.86	3/23/2027	104.17133	102.8363938	101.5273909	100.2435826	98.98426207	97.74874924	96.53638926	95.34655145	94.17862819
220329A00007	3/29/2022	2.94	3/29/2029	111.06724	107.5960058	104.2524249	101.0311356	97.92703095	94.93524467	92.05113814	89.27028865	86.58847819

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
220329A00009	3/29/2022	2.94	3/29/2029	111.06724	107.5960058	104.2524249	101.0311356	97.92703095	94.93524467	92.05113814	89.27028865	86.58847819
220331A00010	3/31/2022	2.83	2/18/2026	100.63668	100.4142568	100.1928223	99.97237406	99.75290554	99.53441014	99.31688136	99.10031274	98.88469789
220401A00009	4/1/2022	2.98	4/1/2027	104.41905	103.0613399	101.7277432	100.4176677	99.1305438	97.86582019	96.62296259	95.40145331	94.20079063
220404A00010	4/4/2022	2.93	4/2/2027	104.361	103.0009021	101.6650037	100.3527105	99.06345018	97.79666821	96.55182758	95.32840793	94.12590495
220404A00014	4/4/2022	2.94	4/5/2027	104.40368	103.0348647	101.6905405	100.3701007	99.07296287	97.79856306	96.54635512	95.31580994	94.10641486
220407A00014	4/7/2022	3.14	4/6/2029	110.39199	107.3081703	104.3355904	101.4695548	98.70559702	96.03946425	93.46710534	90.98466028	88.58845004
220407A00017	4/7/2022	3.16	4/6/2029	111.01294	107.7609212	104.6282198	101.6097605	98.70071372	95.8964817	93.19268575	90.58515473	88.069914
220408A00012	4/8/2022	3.12	6/29/2026	101.88704	101.2979579	100.7156812	100.1400901	99.5710698	99.0085084	98.45229638	97.90232671	97.35849476
220408A00013	4/8/2022	3.15	1/14/2027	103.84299	102.6892456	101.561135	100.4578093	99.37845751	98.32230395	97.28860603	96.27665258	95.28576221
220408A00014	4/8/2022	3.12	6/29/2026	101.88704	101.2979579	100.7156812	100.1400901	99.5710698	99.0085084	98.45229638	97.90232671	97.35849476
220411A00002	4/11/2022	3.18	4/9/2027	104.77291	103.3902115	102.0324286	100.6989422	99.38915552	98.1024907	96.83838835	95.59630671	94.37572095
220411A00008	4/11/2022	3.02	4/12/2027	104.86152	103.4176768	102.0013837	100.6119131	99.24856635	97.91066833	96.59756694	95.30863197	94.04325415
220412A00010	4/12/2022	3.09	3/15/2027	104.39625	103.077971	101.7875959	100.5242428	99.28706579	98.07525411	96.88803084	95.72465094	94.58439964
220412A00016	4/12/2022	3.09	3/19/2027	104.43666	103.1089875	101.8082493	100.5336365	99.28437179	98.05970897	96.8589313	95.68135012	94.52630344
220412A00017	4/12/2022	3.09	3/19/2027	104.43666	103.1089875	101.8082493	100.5336365	99.28437179	98.05970897	96.8589313	95.68135012	94.52630344
220412A00018	4/12/2022	3.09	3/15/2027	104.39625	103.077971	101.7875959	100.5242428	99.28706579	98.07525411	96.88803084	95.72465094	94.58439964
220418A00016	4/22/2022	3.11	9/15/2026	102.59462	101.7859718	100.9900673	100.2066108	99.43531166	98.67588823	97.92806747	97.19158467	96.46618315
220419A00015	4/19/2022	3.14	4/17/2026	101.23362	100.8491314	100.4675692	100.0889038	99.71310233	99.34013223	98.96996147	98.6025585	98.23789224
220419A00016	4/19/2022	3.21	4/19/2027	104.91879	103.5069127	102.1209337	100.7601993	99.42407848	98.11196078	96.82325549	95.55739087	94.31381337
220420A00033	4/20/2022	3.29	4/20/2027	105.04184	103.6262461	102.2366589	100.8724254	99.53291074	98.21750081	96.92560137	95.6566373	94.41005185
220420A00034	6/15/2022	3.3	6/15/2027	105.64378	104.0685027	102.5247753	101.0117236	99.52850396	98.07430332	96.64833776	95.24985125	93.87811436
220420A00037	6/15/2022	3.3	6/15/2027	105.64378	104.0685027	102.5247753	101.0117236	99.52850396	98.07430332	96.64833776	95.24985125	93.87811436
220420A00061	6/15/2022	3.3	6/15/2027	105.64378	104.0685027	102.5247753	101.0117236	99.52850396	98.07430332	96.64833776	95.24985125	93.87811436
220421A00012	4/21/2022	3.31	4/21/2026	101.33716	100.9413142	100.548569	100.1588875	99.77223389	99.3885729	99.00786978	98.63009031	98.25520082
220421A00013	4/21/2022	3.33	9/15/2026	102.77131	101.9618753	101.1652017	100.3809846	99.60893323	98.84876566	98.10020876	97.36299768	96.63687558
220421A00016	4/21/2022	3.31	4/21/2026	101.33716	100.9413142	100.548569	100.1588875	99.77223389	99.3885729	99.00786978	98.63009031	98.25520082
220422A00014	4/22/2022	3.36	9/29/2026	102.93627	102.0870485	101.2518326	100.4302774	99.62204959	98.8268269	98.04429716	97.27415818	96.5161173
220425A00026	4/25/2022	3.13	2/25/2026	100.76675	100.52469	100.283795	100.0440561	99.80546499	99.56801347	99.33169337	99.09649663	98.86241525
220425A00027	4/29/2022	3.15	8/20/2026	102.38231	101.6469065	100.9220735	100.207581	99.50320846	98.80874179	98.12397283	97.44869926	96.78272434
220425A00028	4/29/2022	3.16	4/23/2027	104.88984	103.4669202	102.0702867	100.6992706	99.35322723	98.03153307	96.73358494	95.45879915	94.20661073
220426A00004	4/26/2022	3.41	4/26/2032	122.59335	115.6433075	109.1415047	103.0566066	97.3596229	92.02372258	87.02406324	82.33763391	77.94311134
220427A00011	4/29/2022	3.15	4/29/2027	104.93744	103.4972805	102.0839989	100.6969098	99.33534736	97.99866803	96.68624933	95.39748915	94.13180488
220428A00019	4/28/2022	3.27	4/28/2027	105.09872	103.6601659	102.2484147	100.8627811	99.50260222	98.16723735	96.85606668	95.56849067	94.30392917

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
220429A00002	4/29/2022	3.63	4/29/2032	124.05702	117.0517109	110.497918	104.3640658	98.62094666	93.24153034	88.20079082	83.47554814	79.04432335
220506A00016	5/6/2022	3.35	5/6/2027	105.29736	103.8353406	102.4009489	100.993471	99.6122141	98.25650909	96.92570898	95.61918826	94.33634192
220509A00013	7/15/2022	3.37	7/15/2027	106.07665	104.4143117	102.7863307	101.1917114	99.62949328	98.09875274	96.59860116	95.12818326	93.68667552
220509A00014	7/15/2022	3.37	7/15/2027	106.07665	104.4143117	102.7863307	101.1917114	99.62949328	98.09875274	96.59860116	95.12818326	93.68667552
220509A00016	7/15/2022	3.37	7/15/2027	106.07665	104.4143117	102.7863307	101.1917114	99.62949328	98.09875274	96.59860116	95.12818326	93.68667552
220510A00016	5/13/2022	3.23	5/5/2027	105.11302	103.6551196	102.2247236	100.8211205	99.44362229	98.09156374	96.76430192	95.46121508	94.18170188
220511A00015	5/11/2022	3.29	5/11/2027	105.26154	103.7861671	102.3389308	100.919091	99.52593645	98.15878031	96.81695874	95.49983009	94.20677394
220512A00013	5/12/2022	3.18	5/12/2027	105.11023	103.633293	102.1845747	100.763331	99.36884768	98.00043466	96.65742522	95.33917492	94.04506066
220518A00009	5/18/2022	3.38	5/18/2028	109.34114	106.7834443	104.2993662	101.8863594	99.54198387	97.26389828	95.04985572	92.89769917	90.80535725
220519A00010	5/19/2022	3.15	11/19/2026	103.25787	102.2646655	101.2905599	100.3350101	99.3974893	98.47749026	97.5745248	96.68812268	95.81783086
220520A00006	5/20/2022	3.02	5/20/2027	105.17472	103.6410628	102.1381648	100.6651654	99.22123515	97.80557544	96.41741643	95.05601602	93.72065852
220526A00010	5/26/2022	3	5/26/2026	101.52118	101.0276579	100.5389318	100.0549342	99.57559665	99.10085201	98.63063445	98.16487938	97.70352344
220526A00011	5/26/2022	3.29	5/24/2029	112.80105	109.1417602	105.6225309	102.2372365	98.98005757	95.84545982	92.82817859	89.92320414	87.12576787
220527A00014	5/27/2022	2.99	5/27/2026	101.52499	101.0286748	100.5372111	100.0505271	99.56855344	99.09122191	98.61846562	98.150219	97.6864177
220527A00015	5/27/2022	3.03	5/27/2027	105.03295	103.5157658	102.0283326	100.569848	99.13954055	97.73666558	96.3605043	95.01036249	93.68556955
220601A00038	6/3/2022	3.69	5/28/2032	124.6721	117.5653652	110.9215953	104.708055	98.89449003	93.4529271	88.3574909	83.58423629	79.11099487
220602A00039	6/2/2022	3.11	6/2/2027	105.32237	103.7845459	102.2771641	100.7993962	99.35044447	97.92953943	96.53593847	95.16892478	93.82780613
220615A00010	6/15/2022	3.86	6/15/2027	106.51947	104.9370684	103.3863491	101.8664283	100.376459	98.91562478	97.4831387	96.07824171	94.70020149
220622A00006	6/22/2022	3.58	6/22/2027	106.16262	104.5632894	102.996207	101.4604661	99.95519504	98.47955441	97.03273524	95.61395771	94.2224698
220623A00005	6/23/2022	3.45	6/23/2027	105.968	104.3674428	102.7991902	101.2623365	99.75600732	98.27936036	96.83158403	95.41189601	94.01954193
220624A00003	6/24/2022	3.5	6/24/2027	106.05865	104.4545149	102.8827852	101.3425528	99.83293921	98.35309823	96.90221463	95.47950259	94.08420442
220624A00016	6/24/2022	3.34	6/24/2026	102.00809	101.4320222	100.8624651	100.2993082	99.74244371	99.19176662	98.64717404	98.10856542	97.57584239
220624A00033	6/24/2022	3.5	6/24/2027	106.05865	104.4545149	102.8827852	101.3425528	99.83293921	98.35309823	96.90221463	95.47950259	94.08420442
220627A00055	6/27/2022	3.55	6/26/2026	102.1085	101.5270306	100.9521895	100.383859	99.82192887	99.26629143	98.7168413	98.17347548	97.63609325
220628A00034	6/28/2022	3.61	6/28/2027	106.28006	104.662743	103.0782317	101.5255929	100.0039322	98.51238846	97.05013217	95.616364	94.2103134
220628A00044	8/15/2022	3.6	8/13/2027	106.78038	105.0323824	103.3216891	101.6471671	100.007733	98.40234741	96.83001186	95.28976728	93.78069186
220628A00052	8/15/2022	3.6	8/13/2027	106.78038	105.0323824	103.3216891	101.6471671	100.007733	98.40234741	96.83001186	95.28976728	93.78069186
220628A00053	8/15/2022	3.6	8/13/2027	106.78038	105.0323824	103.3216891	101.6471671	100.007733	98.40234741	96.83001186	95.28976728	93.78069186
220629A00003	6/29/2022	3.59	6/29/2027	106.25966	104.639677	103.0525854	101.4974497	99.97337166	98.47948676	97.01496215	95.57899536	94.17081289
220629A00034	6/29/2022	3.51	6/29/2027	103.14204	102.2891802	101.4515492	100.6287243	99.82029923	99.0258831	98.24509947	97.47758585	96.72299297
220630A00036	6/30/2022	3.42	6/30/2027	105.99831	104.3776673	102.7899686	101.2342742	99.70968342	98.21532897	96.75037561	95.31401861	93.90548231
220630A00045	6/30/2022	3.39	6/30/2026	102.05509	101.4626676	100.8771134	100.2983099	99.72614087	99.16049276	98.6012546	98.04831792	97.5015767
220701A00050	7/1/2022	3.26	7/1/2027	105.75168	104.1303613	102.5420435	100.985783	99.46067606	97.96585268	96.50047504	95.06373598	93.65485755

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
220706A00032	7/6/2022	3.15	7/6/2027	105.74065	104.1037847	102.5004568	100.9296989	99.39058496	97.88222403	96.40375833	94.95436184	93.53323875
220712A00016	7/15/2022	3.35	1/15/2026	100.42532	100.2974704	100.1699612	100.0427924	99.91596249	99.78947013	99.66331392	99.53749246	99.4120044
220715A00001	7/15/2022	3.44	7/15/2027	106.19198	104.5286523	102.899705	101.3041367	99.74098626	98.20932976	96.70827808	95.23697553	93.79459818
220715A00027	7/15/2022	3.44	7/15/2027	106.19198	104.5286523	102.899705	101.3041367	99.74098626	98.20932976	96.70827808	95.23697553	93.79459818
220715A00047	7/15/2022	3.44	7/15/2027	106.19198	104.5286523	102.899705	101.3041367	99.74098626	98.20932976	96.70827808	95.23697553	93.79459818
220719A00004	7/19/2022	3.46	7/19/2027	106.26824	104.5933015	102.9531319	101.3467172	99.77308001	98.23128065	96.72041538	95.23961459	93.78804115
220722A00044	9/1/2022	3.23	9/1/2027	106.3338	104.5376504	102.7806572	101.0616149	99.37936447	97.73279478	96.12083959	94.54247544	92.99671948
220722A00051	9/15/2022	3.23	9/15/2027	106.47927	104.6421867	102.8458576	101.0890723	99.37067036	97.68953517	96.04459223	94.43480696	92.85918288
220727A00004	7/27/2022	3.23	7/27/2027	105.96825	104.2739792	102.6152021	100.9908696	99.39997325	97.84154365	96.31464909	94.8183935	93.35191477
220727A00027	7/27/2022	3.23	7/27/2027	105.96825	104.2739792	102.6152021	100.9908696	99.39997325	97.84154365	96.31464909	94.8183935	93.35191477
220727A00035	10/24/2022	3.33	10/24/2029	114.44442	110.3212831	106.3713897	102.5865565	98.95902606	95.48144565	92.14684445	88.94861154	85.88047544
220729A00035	8/3/2022	3.14	8/3/2027	105.88637	104.1736707	102.4971317	100.8556765	99.24826785	97.67390959	96.13164444	94.62055222	93.139748
220729A00043	7/29/2022	3.04	7/29/2027	105.66818	103.9710425	102.3095512	100.6826437	99.0893042	97.52855693	95.99946399	94.50112349	93.03266784
220729A00045	7/29/2022	3.03	7/29/2027	105.65131	103.9543236	102.2929769	100.6662112	99.07301107	97.51240069	95.98344225	94.48523394	93.01690819
220729A00047	7/29/2022	3.06	1/29/2027	103.89809	102.7017321	101.5328992	100.3906488	99.27408158	98.1823382	97.11459741	96.07007381	95.04801595
220801A00066	8/1/2022	2.93	7/30/2027	105.73804	103.998807	102.297272	100.6322725	99.00269244	97.40746178	95.84555397	94.31598377	92.81780512
220802A00009	8/2/2022	3	8/2/2027	105.6388	103.930998	102.2592249	100.6224034	99.01950142	97.44952775	95.91152981	94.40459189	92.92783326
220804A00023	8/4/2022	3.19	8/4/2027	105.98143	104.2651596	102.5851667	100.9403664	99.32971688	97.75221753	96.20690703	94.69286134	93.20919182
220808A00025	8/8/2022	3.25	8/6/2027	106.10402	104.3812062	102.6948837	101.0439613	99.42738819	97.84415549	96.29329392	94.77387191	93.28499371
220812A00001	8/12/2022	3.17	8/12/2027	106.15074	104.4089377	102.7043113	101.0357388	99.4021408	97.80248146	96.23576592	94.70103846	93.19738049
220812A00002	8/12/2022	3.17	8/12/2027	106.15074	104.4089377	102.7043113	101.0357388	99.4021408	97.80248146	96.23576592	94.70103846	93.19738049
220816A00009	8/16/2022	3.33	8/16/2027	106.34495	104.5926207	102.8778257	101.1994195	99.55630815	97.94744176	96.3718124	94.82845193	93.31643
220817A00036	10/14/2022	3.41	10/15/2027	107.12763	105.2007458	103.3182268	101.4787926	99.68120359	97.92426377	96.2068191	94.52775564	92.88599793
220817A00037	10/14/2022	3.41	10/15/2027	107.12763	105.2007458	103.3182268	101.4787926	99.68120359	97.92426377	96.2068191	94.52775564	92.88599793
220817A00038	10/14/2022	3.41	10/15/2027	107.12763	105.2007458	103.3182268	101.4787926	99.68120359	97.92426377	96.2068191	94.52775564	92.88599793
220817A00047	8/17/2022	3.29	8/17/2027	106.41052	104.6526761	102.9325548	101.249008	99.60093385	97.9872752	96.40701714	94.85918494	93.34284199
220819A00034	8/19/2022	3.73	8/19/2032	125.59722	118.2226492	111.3423494	104.9203696	98.92356792	93.32137509	88.08558119	83.19014094	78.61099641
220823A00002	8/23/2022	3.38	8/23/2027	106.63179	104.8554608	103.1175037	101.4167371	99.75203203	98.12230607	96.52652029	94.96367726	93.43281889
220823A00009	8/23/2022	3.52	8/23/2027	106.75163	104.9764399	103.2395573	101.5398036	99.87605294	98.24722531	96.65228427	95.09023471	93.56012074
220823A00015	8/23/2022	3.78	8/30/2032	126.0282	118.6079248	111.6866421	105.2279298	99.19822327	93.56657295	88.30442646	83.38543026	78.7852487
220825A00006	8/25/2022	3.56	8/25/2027	106.84402	105.062498	103.3195025	101.6138452	99.94439098	98.31005133	96.70978168	95.14257925	93.60748088
220829A00057	8/29/2022	3.67	8/31/2026	102.88053	102.1124124	101.3557663	100.6103321	99.87586206	99.15211547	98.43885871	97.73586491	97.0429137
220830A00055	8/30/2022	3.7	8/30/2029	115.32342	111.3403551	107.5186752	103.8508869	100.329889	96.94895411	93.70170571	90.58209774	87.58439506

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
220830A00093	11/16/2022	3.69	11/16/2029	116.12354	111.9011253	107.8584797	103.9869819	100.2784723	96.72522417	93.31991795	90.05561792	86.92574982
220901A00033	9/1/2022	3.72	9/1/2027	107.20678	105.4026137	103.6377532	101.910988	100.2211551	98.56713942	96.94787099	95.36232275	93.80950839
220901A00035	9/1/2022	3.82	9/1/2028	111.66748	108.7812494	105.985307	103.276224	100.6507315	98.1057086	95.63817458	93.24528135	90.92430644
220906A00046	9/6/2022	3.79	9/7/2027	107.40322	105.5802104	103.7972148	102.0530175	100.3464545	98.67640798	97.04180412	95.44161074	93.87483537
220907A00010	9/7/2022	3.9	9/9/2032	127.4811	119.9619108	112.9500519	106.4083994	100.3027382	94.6015222	89.27565272	84.29827555	79.64459652
220907A00023	9/7/2022	3.76	9/8/2026	103.03843	102.2473466	101.4684282	100.7013915	99.94596571	99.20188836	98.46890481	97.74676799	97.03523812
220912A00050	11/15/2022	3.76	11/15/2027	108.15324	106.1295301	104.1543199	102.2261483	100.3436053	98.50533311	96.71002344	94.95641558	93.24329422
220912A00051	11/15/2022	3.76	11/15/2027	108.15324	106.1295301	104.1543199	102.2261483	100.3436053	98.50533311	96.71002344	94.95641558	93.24329422
220913A00017	9/13/2022	3.98	9/14/2026	103.28153	102.4726503	101.6764619	100.89267	100.1209861	99.36113097	98.61283358	97.87583131	97.1498694
220913A00018	9/13/2022	3.91	9/13/2027	107.69277	105.8500116	104.0479937	102.2854992	100.5613622	98.87446148	97.22371828	95.60809456	94.02659091
220916A00018	9/16/2022	4.07	9/16/2027	107.87759	106.0535831	104.2710712	102.5288533	100.8257703	99.16070444	97.53257722	95.94034784	94.3830116
220916A00021	9/16/2022	4.17	9/16/2027	104.27746	103.2932123	102.327462	101.3796875	100.4493837	99.53606455	98.63926262	97.75852785	96.89342687
220916A00042	9/16/2022	4.07	9/16/2030	121.51512	116.2813032	111.3089243	106.5834872	102.0913767	97.81980177	93.7567413	89.89089336	86.2116283
220916A00043	9/16/2022	4.07	9/16/2031	125.31942	118.91446	112.8862814	107.2106219	101.8649098	96.82813701	92.08074247	87.60450488	83.38244407
220916A00045	9/16/2022	4.1	9/16/2032	128.93416	121.3453416	114.2689699	107.6675096	101.506374	95.75367393	90.3799943	85.35818922	80.66319584
220919A00033	9/19/2022	4	9/17/2027	107.9063	106.0501604	104.2352449	102.4603435	100.7242885	99.02595617	97.36426423	95.73817035	94.14667015
220919A00036	9/19/2022	4.11	9/19/2029	116.77831	112.7827041	108.9518202	105.2779559	101.7538116	98.372466	95.12735458	92.01224911	89.02123878
220920A00025	9/20/2022	4.23	9/18/2026	103.53153	102.7103653	101.9022539	101.1068898	100.3239727	99.55321161	98.79432446	98.04703798	97.3110872
220920A00026	9/20/2022	4.1	9/20/2027	108.12741	106.2606305	104.4354617	102.6506874	100.9051385	99.19768856	97.52725246	95.89278423	94.29327538
220921A00014	9/21/2022	4.08	9/21/2027	108.10348	106.2340792	104.4063935	102.6192128	100.8713677	99.16173158	97.48921864	95.85278211	94.25141252
220921A00069	9/21/2022	3.98	9/21/2027	108.05259	106.181273	104.3517629	102.5628386	100.8133273	99.10209915	97.42806543	95.7901765	94.18742017
220921A00074	9/21/2022	3.98	9/21/2027	108.05259	106.181273	104.3517629	102.5628386	100.8133273	99.10209915	97.42806543	95.7901765	94.18742017
220929A00041	9/29/2022	4.38	9/29/2027	108.76361	106.8650604	105.0092735	103.1950292	101.4211526	99.68650969	97.9900057	96.33058328	94.70722108
220929A00043	9/29/2022	4.44	9/28/2029	118.53266	114.4033797	110.4438654	106.6462362	103.0030189	99.50712412	96.15182512	92.93073693	89.83779737
220929A00063	9/29/2022	4.38	9/29/2027	108.76361	106.8650604	105.0092735	103.1950292	101.4211526	99.68650969	97.9900057	96.33058328	94.70722108
221005A00041	10/5/2022	4.3	10/5/2027	108.69303	106.7784901	104.9074047	103.078536	101.290685	99.54269479	97.83344821	96.16186644	94.5269074
221006A00012	10/6/2022	4.37	10/6/2027	108.83756	106.9188582	105.0437616	103.2110218	101.4194344	99.6678371	97.95510772	96.28016262	94.64195512
221011A00036	10/11/2022	4.59	10/6/2026	104.06747	103.1934226	102.3341049	101.4891421	100.6581763	99.84086121	99.0368619	98.24585438	97.46752506
221014A00026	10/14/2022	4.63	10/14/2027	109.43733	107.4906479	105.5886486	103.7300359	101.9135636	100.1380291	98.4022719	96.70517195	95.04564775
221014A00027	10/14/2022	4.63	10/14/2027	109.43733	107.4906479	105.5886486	103.7300359	101.9135636	100.1380291	98.4022719	96.70517195	95.04564775
221014A00032	10/14/2022	4.67	10/14/2027	109.33769	107.4228597	105.5531778	103.7272908	101.9438927	100.2017256	98.49957756	96.83628064	95.21070899
221014A00043	10/14/2022	4.49	10/14/2027	109.30941	107.3614516	105.4582536	103.5985161	101.7809894	100.0044678	98.26778813	96.56982739	94.90950145
221014A00050	10/14/2022	4.49	10/14/2027	109.30941	107.3614516	105.4582536	103.5985161	101.7809894	100.0044678	98.26778813	96.56982739	94.90950145

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
221018A00006	10/18/2022	4.55	10/18/2027	109.33985	107.3830307	105.4713538	103.6035109	101.7782364	99.99430945	98.25055201	96.5458273	94.87903794
221018A00007	10/18/2022	4.68	10/18/2027	105.06485	104.0181752	102.9916612	101.9847319	100.9968365	100.0274449	99.07604685	98.14215092	97.22528358
221018A00048	10/18/2022	4.71	10/19/2026	104.35291	103.4410258	102.5451367	101.6648255	100.7996874	99.94933189	99.11338173	98.29147235	97.48325145
221018A00049	10/18/2022	4.59	10/18/2027	109.41637	107.4587986	105.5463854	103.6778202	101.8518369	100.0672142	98.32277395	96.61737885	94.94993122
221025A00027	10/25/2022	4.57	10/25/2027	109.47419	107.4966046	105.5650496	103.6781728	101.8346728	100.0332946	98.27282769	96.55210447	94.86999804
221027A00050	10/27/2022	4.52	10/27/2027	109.40473	107.4222828	105.4860932	103.5948045	101.7471053	99.94173149	98.17746377	96.453126	94.7675833
221027A00056	4/25/2023	4.48	4/25/2030	121.37759	116.5768751	111.998573	107.6311823	103.4638579	99.48636913	95.68906079	92.06281835	88.59903473
221027A00060	12/1/2022	4.46	12/1/2027	109.76565	107.6797011	105.6447188	103.6591344	101.7214365	99.83017035	97.98393591	96.18138497	94.42121902
221027A00061	12/15/2022	4.45	12/15/2027	109.93332	107.8066771	105.7326011	103.7094484	101.7356359	99.80964155	97.93000155	96.09530735	94.30420332
221027A00062	12/15/2022	4.45	12/15/2027	109.93332	107.8066771	105.7326011	103.7094484	101.7356359	99.80964155	97.93000155	96.09530735	94.30420332
221027A00063	12/15/2022	4.45	12/15/2027	109.93332	107.8066771	105.7326011	103.7094484	101.7356359	99.80964155	97.93000155	96.09530735	94.30420332
221031A00035	10/31/2022	4.67	10/30/2026	104.46987	103.5264688	102.6001559	101.6904693	100.7969638	99.91920981	99.0567931	98.20931373	97.37638558
221031A00036	10/31/2022	4.59	10/29/2027	109.56797	107.5783343	105.6352402	103.7373135	101.8832317	100.0717203	98.30154978	96.57153464	94.88053085
221031A00042	10/31/2022	4.73	10/30/2026	104.52557	103.5818841	102.6552946	101.7453349	100.8515597	99.97353938	99.11085962	98.2631204	97.42993555
221102A00026	11/2/2022	4.66	11/2/2027	109.76043	107.7575909	105.8018364	103.8917744	102.0260602	100.2033976	98.42253726	96.68227401	94.98144547
221107A00029	11/7/2022	4.83	11/9/2026	104.76445	103.7914245	102.8365492	101.8993171	100.9792415	100.0758537	99.18870166	98.31734973	97.46137769
221107A00030	11/7/2022	4.7	11/5/2027	109.88164	107.8689891	105.9038478	103.9848018	102.1104888	100.279596	98.4908581	96.74305491	95.03500968
221107A00056	11/7/2022	4.73	11/8/2027	109.9838	107.9615241	105.987174	104.0593198	102.1765819	100.3376307	98.54118511	96.78600985	95.0709138
221108A00033	11/8/2022	4.7	11/8/2027	109.92465	107.9029706	105.9292059	104.0019259	102.1197512	100.2813527	98.4854494	96.73080639	95.01623282
221110A00025	11/10/2022	4.39	11/10/2026	104.35719	103.3834553	102.4279501	101.4901621	100.5696011	99.66579485	98.7782881	97.90664211	97.05043374
221110A00026	11/10/2022	4.29	11/10/2027	109.14265	107.1231435	105.1516714	103.2267899	101.3471122	99.51130251	97.71807348	95.96618416	94.254438
221110A00038	11/10/2022	4.34	11/10/2027	109.24151	107.2210069	105.2485538	103.3227101	101.4420886	99.60535294	97.81121527	96.05843416	94.34581262
221110A00039	11/10/2022	4.34	11/10/2027	109.24151	107.2210069	105.2485538	103.3227101	101.4420886	99.60535294	97.81121527	96.05843416	94.34581262
221110A00064	1/17/2023	4.25	1/14/2028	109.90372	107.6939227	105.5402178	103.4407877	101.3938884	99.3978461	97.4510535	95.55196671	93.69910217
221110A00065	1/17/2023	4.25	1/14/2028	109.90372	107.6939227	105.5402178	103.4407877	101.3938884	99.3978461	97.4510535	95.55196671	93.69910217
221110A00076	11/10/2022	4.45	11/10/2026	104.41472	103.4406892	102.4848901	101.5468121	100.6259649	99.72187599	98.83409022	97.9621687	97.10568822
221110A00086	11/10/2022	4.34	11/8/2027	109.21485	107.2003287	105.2335891	103.3131993	101.4377836	99.60601662	97.8166209	96.06836492	94.3600611
221110A00108	11/10/2022	4.48	12/10/2025	100.12576	100.097936	100.0701445	100.0423842	100.014655	99.98695672	99.95928942	99.93165302	99.90404746
221110A00110	11/10/2022	4.47	1/13/2026	100.54309	100.4206734	100.2985705	100.1767804	100.0553017	99.93413336	99.813274	99.69272243	99.57247744
221114A00002	11/14/2022	4.37	11/15/2027	109.36791	107.3318254	105.3444837	103.4044147	101.5102019	99.66048111	97.85393792	96.0893057	94.36536346
221117A00025	11/17/2022	4.28	11/17/2027	109.21503	107.1747819	105.1835164	103.2397508	101.3420579	99.48906324	97.67944285	95.9119209	94.18526769
221118A00023	11/18/2022	4.12	11/18/2027	109.05349	107.0093171	105.0143432	103.0670746	101.1660746	99.30995985	97.49739782	95.72710465	93.99784297
221118A00046	11/18/2022	4.4	11/18/2026	104.47431	103.4774685	102.4997117	101.5404931	100.5992881	99.67559202	98.76891864	97.87879976	97.0047842

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
221121A00047	11/21/2022	4.89	11/21/2033	138.55615	129.3685221	120.8882639	113.0565314	105.8196803	99.12878508	92.93920058	87.21016654	81.9044507
221121A00052	11/21/2022	4.35	11/22/2027	109.42162	107.364948	105.3579713	103.3991793	101.4871145	99.62037366	97.79760549	96.01750824	94.27882747
221121A00064	11/21/2022	4.34	11/22/2027	109.40152	107.3450463	105.3382724	103.3796791	101.4678092	99.6012596	97.77867904	95.99876587	94.26026578
221122A00029	11/22/2022	4.31	11/22/2027	109.34119	107.2853414	105.2791755	103.3211785	101.4098934	99.54391741	97.72189967	95.94253878	94.20458072
221122A00040	11/22/2022	4.31	11/22/2027	109.34119	107.2853414	105.2791755	103.3211785	101.4098934	99.54391741	97.72189967	95.94253878	94.20458072
221123A00016	11/23/2022	4.58	11/23/2029	119.41437	115.180886	111.1284753	107.248342	103.5321654	99.97207402	96.56061928	93.29074999	90.15578894
221123A00034	11/23/2022	4.43	11/23/2026	104.57138	103.5599444	102.5681374	101.5953884	100.6411512	99.70490015	98.78612951	97.88435224	96.9990993
221123A00039	11/23/2022	4.29	11/23/2027	109.31417	107.2557354	105.2471145	103.2867865	101.3732888	99.50521312	97.68120352	95.8999537	94.16020496
221128A00034	11/28/2022	4.27	11/26/2027	109.31332	107.2463026	105.2295074	103.261394	101.340482	99.46534652	97.6346156	95.84696785	94.10113021
221129A00034	11/29/2022	4.38	12/1/2025	100.01698	100.014195	100.0114131	100.0086336	100.0058566	100.0030819	100.0003098	99.99754	99.99477267
221129A00035	11/29/2022	4.09	11/29/2027	109.13483	107.0582918	105.0324661	103.0557891	101.126759	99.24393049	97.40591214	95.61136422	93.85899622
221129A00043	11/29/2022	4.59	12/1/2025	100.01761	100.0148226	100.0120421	100.009264	100.0064884	100.0037152	100.0009443	99.99817591	99.99540989
221129A00056	11/29/2022	4.31	11/29/2027	109.43396	107.3570988	105.3308924	103.3537821	101.4242691	99.54091096	97.70231911	95.90715632	94.15413448
221130A00032	11/30/2022	4.37	11/30/2027	109.56921	107.4880738	105.4577599	103.4766994	101.5433869	99.65637351	97.81426467	96.01571732	94.25943789
221130A00033	11/30/2022	4.37	11/30/2027	109.56921	107.4880738	105.4577599	103.4766994	101.5433869	99.65637351	97.81426467	96.01571732	94.25943789
221130A00069	11/30/2022	4.15	11/30/2027	109.26976	107.1889567	105.159024	103.1783977	101.2455691	99.3590865	97.5175525	95.71962153	93.96399755
221130A00075	11/30/2022	4.15	11/30/2027	109.26976	107.1889567	105.159024	103.1783977	101.2455691	99.3590865	97.5175525	95.71962153	93.96399755
221130A00076	11/30/2022	4.15	11/30/2027	109.26976	107.1889567	105.159024	103.1783977	101.2455691	99.3590865	97.5175525	95.71962153	93.96399755
221130A00081	11/30/2022	4.15	11/30/2027	109.26976	107.1889567	105.159024	103.1783977	101.2455691	99.3590865	97.5175525	95.71962153	93.96399755
221130A00085	11/30/2022	4.19	11/30/2027	109.20323	107.1258978	105.099312	103.121907	101.1921792	99.30868177	97.47002203	95.67485882	93.92190029
221130A00110	11/30/2022	4.15	11/30/2027	109.1219	107.0454142	105.019657	103.0430642	101.114133	99.23141694	97.39352367	95.59911248	93.84689194
221201A00011	12/1/2022	3.95	12/1/2027	108.87506	106.7955863	104.7670168	102.7877804	100.8563656	98.97131831	97.13123864	95.33477887	93.58064088
221201A00043	12/1/2022	4.37	12/3/2029	110.41674	108.1012697	105.8610968	103.6931452	101.5944875	99.56233676	97.5940388	95.68706472	93.83900423
221201A00068	12/1/2022	4.21	12/1/2027	109.00876	106.9809116	105.0031566	103.0739082	101.1916392	99.35488267	97.56222864	95.8123217	94.10385835
221202A00018	12/2/2022	4.16	12/2/2027	109.16747	107.0849683	105.0534274	103.0712706	101.1369848	99.24911381	97.40625632	95.60706295	93.85023412
221202A00025	12/2/2022	4.06	12/2/2026	104.38902	103.352183	102.3359751	101.3397887	100.3630359	99.40515144	98.46559201	97.54383487	96.63937703
221205A00024	12/5/2022	4.13	12/3/2027	109.11884	107.0340749	105.0003714	103.0161477	101.079886	99.19012575	97.34546141	95.54453967	93.78605718
221205A00048	12/5/2022	4.4	12/5/2025	100.06425	100.0503377	100.0364399	100.0225557	100.0086851	99.99482816	99.98098476	99.96715491	99.95333858
221205A00088	12/5/2022	4.13	12/3/2027	109.11884	107.0340749	105.0003714	103.0161477	101.079886	99.19012575	97.34546141	95.54453967	93.78605718
221206A00025	12/6/2022	4.27	12/4/2026	104.55813	103.5157733	102.4942553	101.4929526	100.5112685	99.54862999	98.60448589	97.67830629	96.76958131
221206A00036	12/6/2022	4.13	12/6/2027	109.15644	107.0629742	105.0209063	103.028643	101.0846512	99.18745625	97.33563883	95.52783282	93.76272274
221206A00039	12/6/2022	4.29	12/7/2026	104.61959	103.5684387	102.5384714	101.5290505	100.5395648	99.56942725	98.61807341	97.68496079	96.7695676
221207A00009	12/7/2022	4.38	12/8/2025	100.09932	100.0770669	100.0548337	100.0326241	100.0104382	99.9882758	99.96613697	99.94402164	99.92192978

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
221207A00010	12/7/2022	4.08	12/7/2027	109.06634	106.9710426	104.9272404	102.9333307	100.9877759	99.08909696	97.23587077	95.42672738	93.66034776
221207A00012	12/7/2022	4.21	12/7/2026	104.53687	103.4861779	102.456663	101.4476882	100.4586426	99.4889389	98.53801312	97.6053228	96.69034627
221207A00017	12/7/2022	3.86	12/7/2027	108.76361	106.6686641	104.6252708	102.6318232	100.6867808	98.78866144	96.9360392	95.12754152	93.36184688
221207A00032	12/7/2022	4.52	12/7/2032	131.71813	123.8320938	116.4915116	109.65545	103.2862635	97.34931095	91.81270077	86.64705891	81.82531779
221207A00035	12/7/2022	4.31	1/7/2026	100.4502	100.3445121	100.2390581	100.1338368	100.0288473	99.92408896	99.8195609	99.71526236	99.61119254
221208A00001	12/8/2022	4.6	12/8/2033	136.36308	127.2116064	118.7702171	110.9794541	103.7851482	97.13792348	90.99274999	85.30853961	80.04778176
221208A00005	12/8/2022	4.88	12/8/2037	151.78834	137.6314474	125.0224345	113.7802149	103.7459175	94.78004832	86.76003072	79.57806936	73.13929384
221208A00006	12/8/2022	4.88	12/8/2037	151.78834	137.6314474	125.0224345	113.7802149	103.7459175	94.78004832	86.76003072	79.57806936	73.13929384
221208A00020	12/8/2022	4.11	12/8/2027	109.1404	107.0415582	104.9943348	102.9971251	101.048386	99.14663323	97.29043887	95.47842835	93.70927826
221208A00050	12/8/2022	4.11	12/8/2027	109.1404	107.0415582	104.9943348	102.9971251	101.048386	99.14663323	97.29043887	95.47842835	93.70927826
221208A00052	2/15/2023	4.01	2/15/2028	109.78436	107.4841985	105.2442337	103.0624478	100.9369049	98.86575016	96.84720595	94.87956758	92.96119975
221208A00054	2/1/2023	4.02	2/1/2028	109.62697	107.3700277	105.1713562	103.0290274	100.9411951	98.90608888	96.92201074	94.98733106	93.10048539
221208A00061	12/8/2022	4.11	12/8/2027	109.1404	107.0415582	104.9943348	102.9971251	101.048386	99.14663323	97.29043887	95.47842835	93.70927826
221208A00062	12/8/2022	4.24	12/8/2028	114.07653	110.8749692	107.781933	104.7931196	101.9044263	99.11193659	96.41191051	93.8007756	91.27511831
221208A00110	12/8/2022	4.07	12/8/2027	109.05818	106.9601974	104.91382	102.9174396	100.9695136	99.0685584	97.2131463	95.40190321	93.63350614
221209A00035	12/9/2022	3.91	12/9/2027	108.89058	106.7887555	104.7387318	102.7388924	100.7876859	98.88361999	97.02525908	95.21122146	93.44017693
221209A00037	12/9/2022	3.91	12/9/2027	108.89058	106.7887555	104.7387318	102.7388924	100.7876859	98.88361999	97.02525908	95.21122146	93.44017693
221209A00070	12/9/2022	4.42	12/9/2037	128.94981	121.4213305	114.5043852	108.1413501	102.2805758	96.87572166	91.88516886	87.27150244	83.00105367
221212A00011	12/12/2022	3.89	12/10/2027	108.86145	106.7571618	104.7047764	102.702676	100.7493044	98.8431646	96.98281676	95.16687503	93.39400531
221212A00040	12/12/2022	4.45	12/12/2025	100.14887	100.1154817	100.0821358	100.048829	100.0155613	99.98233263	99.94914295	99.91599216	99.88288018
221212A00041	12/12/2022	4.15	12/10/2027	109.24781	107.1422915	105.0886399	103.0852365	101.1305275	99.22301881	97.36127268	95.54390558	93.76958552
221212A00063	12/12/2022	4.45	12/12/2025	100.14887	100.1154817	100.0821358	100.048829	100.0155613	99.98233263	99.94914295	99.91599216	99.88288018
221212A00071	12/12/2022	4.15	12/13/2027	109.28558	107.1713476	105.1093193	103.0978673	101.1354224	99.22047593	97.35157652	95.5273276	93.7463849
221212A00117	6/12/2023	4.11	6/12/2026	102.2674	101.7244044	101.187189	100.6556613	100.1297309	99.60930978	99.09431131	98.58465091	98.08024569
221212A00131	12/12/2023	3.77	12/11/2026	104.13073	103.0710323	102.0329412	101.0157962	100.0189673	99.04184939	98.0838614	97.1444448	96.22306266
221213A00004	12/13/2022	3.99	12/13/2027	108.95445	106.8437122	104.7851119	102.7770203	100.8178703	98.9061549	97.04042461	95.21928454	93.44139209
221213A00017	12/13/2022	4.1	12/14/2026	104.51499	103.4446843	102.396357	101.3693354	100.3629738	99.37665247	98.4097761	97.4617729	96.53209332
221213A00047	12/13/2022	3.8	12/13/2027	108.71127	106.6002435	104.5414275	102.5331867	100.5739505	98.66220855	96.79650808	94.97545125	93.1976926
221213A00051	12/13/2022	4.02	12/13/2027	109.01654	106.9051439	104.8459008	102.8371791	100.8774113	98.9650901	97.09876559	95.27704262	93.49857824
221213A00056	12/13/2022	4.02	5/13/2026	101.90417	101.4453656	100.9907031	100.5401307	100.0935932	99.65103648	99.21240713	98.7776529	98.34672239
221213A00061	12/13/2022	4.15	12/11/2026	104.52788	103.4659573	102.4256734	101.4063666	100.4074059	99.42818572	98.46812423	97.52666226	96.60326225
221214A00020	12/14/2022	4.2	12/12/2025	100.14036	100.1069846	100.0736456	100.0403457	100.0070849	99.97386316	99.94068036	99.90753645	99.87443135
221214A00022	12/14/2022	4.17	2/13/2026	100.87473	100.6658351	100.4578147	100.2506655	100.044382	99.83895858	99.63438995	99.43067068	99.22779543

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
221214A00031	12/14/2022	3.97	12/14/2027	108.92515	106.8119492	104.7509943	102.7406491	100.7793416	98.8655602	96.99785097	95.17481495	93.39510562
221214A00077	12/14/2022	3.84	12/14/2027	108.80605	106.6912455	104.6287858	102.6170278	100.6543954	98.73937281	96.8705023	95.04638121	93.26565956
221214A00079	12/14/2022	3.84	12/14/2027	108.80605	106.6912455	104.6287858	102.6170278	100.6543954	98.73937281	96.8705023	95.04638121	93.26565956
221214A00102	12/14/2022	4.33	12/15/2025	100.17975	100.1380202	100.0963473	100.0547269	100.0131588	99.97164288	99.9301791	99.88876734	99.84740749
221215A00082	12/15/2022	4.27	12/15/2025	100.17721	100.1354882	100.0938174	100.052199	100.010633	99.96911915	99.92765745	99.88624775	99.84488996
221215A00115	12/15/2022	4	12/15/2027	108.99949	106.8827363	104.8183519	102.8046994	100.8402015	98.92334123	97.05265984	95.22675366	93.44427175
221216A00007	12/16/2022	4.27	12/16/2025	100.1887	100.1441965	100.0997496	100.0553598	100.0110271	99.96675129	99.92253229	99.87836998	99.83426424
221216A00008	12/16/2022	4.27	12/16/2025	100.1887	100.1441965	100.0997496	100.0553598	100.0110271	99.96675129	99.92253229	99.87836998	99.83426424
221216A00009	12/16/2022	4.27	12/16/2025	100.1887	100.1441965	100.0997496	100.0553598	100.0110271	99.96675129	99.92253229	99.87836998	99.83426424
221216A00010	12/16/2022	4.27	12/16/2025	100.1887	100.1441965	100.0997496	100.0553598	100.0110271	99.96675129	99.92253229	99.87836998	99.83426424
221216A00013	12/16/2022	4.04	12/16/2027	109.09479	106.9742469	104.9062132	102.8890383	100.9211391	99.00099341	97.12713738	95.29816257	93.51271349
221216A00023	12/16/2022	4.04	12/13/2027	109.05793	106.9460983	104.8864267	102.877285	100.9171053	99.00438022	97.13765958	95.315548	93.53670235
221219A00043	12/19/2022	4.07	12/17/2027	109.1695	107.0453896	104.9739182	102.9534284	100.9823316	99.05910032	97.18226584	95.35041497	93.56218781
221220A00025	12/20/2022	4.38	12/22/2025	100.26439	100.2031978	100.1420937	100.0810784	100.0201515	99.959313	99.89856258	99.83790008	99.77732533
221221A00043	12/21/2022	4.26	12/19/2025	100.22264	100.1697904	100.1170171	100.0643159	100.0116869	99.9591298	99.90664447	99.85423077	99.80188854
221221A00049	12/21/2022	4.15	12/21/2027	109.38633	107.2488148	105.1644296	103.1315022	101.1484224	99.21364211	97.32567314	95.48308393	93.68449713
221221A00053	12/21/2022	4.15	12/21/2027	109.38633	107.2488148	105.1644296	103.1315022	101.1484224	99.21364211	97.32567314	95.48308393	93.68449713
221222A00012	12/22/2022	4.35	12/16/2025	100.1923	100.1477915	100.1033416	100.0589489	100.0146132	99.97033449	99.92611256	99.88194731	99.83783864
221222A00013	12/22/2022	4.34	12/23/2025	100.27362	100.2096439	100.1457673	100.0819852	100.0182973	99.95470358	99.89120369	99.82779745	99.76448466
221222A00024	12/22/2022	4.35	12/15/2025	100.18059	100.1388642	100.0971906	100.0555695	100.0140007	99.97248412	99.93101965	99.88960721	99.84824667
221222A00026	12/22/2022	4.22	12/15/2026	104.65487	103.5809491	102.529137	101.4987519	100.4891428	99.49968502	98.5297785	97.57884699	96.64633664
221222A00027	12/22/2022	4.16	12/15/2027	109.33152	107.2112486	105.1434183	103.1263879	101.1585781	99.23847023	97.36460356	95.53557275	93.7500252
221222A00035	12/30/2022	4.34	12/30/2025	100.35538	100.2719501	100.1886582	100.1055057	100.0224922	99.9396173	99.85688075	99.77428218	99.69182126
221222A00053	12/22/2022	4.18	12/22/2027	109.42725	107.2913254	105.209492	103.1799872	101.2011219	99.27127529	97.38889176	95.55247747	93.76059742
221223A00025	12/23/2022	4.25	12/23/2027	109.62128	107.47569	105.3835122	103.343058	101.3527051	99.41089474	97.516128	95.66696346	93.86201438
221228A00044	12/28/2022	4.31	12/28/2027	109.81235	107.6507902	105.5432556	103.4880294	101.4834627	99.52797071	97.6200306	95.75817804	93.94100464
221228A00075	12/28/2022	4.09	12/28/2027	109.50143	107.3402707	105.2331957	103.1784849	101.1744858	99.21961069	97.31233358	95.45118736	93.63476098
221228A00129	12/28/2022	4.11	12/28/2027	109.63571	107.4507891	105.3217283	103.246691	101.2239183	99.25172343	97.32848785	95.45265803	93.62274213
221229A00075	12/29/2022	5.2	12/29/2037	155.82311	141.371703	128.5000341	117.0230146	106.7783141	97.62344445	89.43323426	82.09763688	75.51982593
221230A00087	12/30/2022	4.56	1/2/2026	100.412	100.3202047	100.2285771	100.1371197	100.0458321	99.9547139	99.86376454	99.77298358	99.68237053
221230A00088	12/30/2022	4.42	12/30/2026	105.07641	103.9576423	102.8627742	101.7910408	100.7417135	99.71409424	98.70751361	97.72132951	96.75492572
221230A00109	12/30/2022	4.56	12/30/2025	100.37371	100.290267	100.20696	100.1237922	100.0407636	99.95787354	99.87512187	99.79250821	99.71003223
221230A00111	12/30/2022	4.42	12/30/2026	105.07641	103.9576423	102.8627742	101.7910408	100.7417135	99.71409424	98.70751361	97.72132951	96.75492572

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230103A00066	1/3/2023	4.19	7/15/2026	102.75086	102.1137501	101.4845671	100.8631584	100.2493803	99.64309255	99.04415825	98.45244392	97.86781926
230104A00004	1/4/2023	4.19	1/4/2028	109.64768	107.4684486	105.3440342	103.2726813	101.252704	99.28248285	97.36046221	95.48514678	93.65509892
230104A00044	1/4/2023	4.2	1/4/2028	109.66899	107.4895285	105.3648873	103.2933122	101.2731171	99.30268241	97.38045239	95.50493163	93.67468237
230105A00020	1/5/2023	4.32	1/5/2028	109.93774	107.7525804	105.622423	103.5455042	101.5201306	99.54467585	97.61757762	95.73733437	93.90250251
230106A00017	1/6/2023	4.23	1/6/2028	109.75845	107.5724606	105.441559	103.3639729	101.3380046	99.36202351	97.43446333	95.5538188	93.71864286
230106A00019	1/6/2023	4.23	1/6/2028	109.75845	107.5724606	105.441559	103.3639729	101.3380046	99.36202351	97.43446333	95.5538188	93.71864286
230106A00032	1/6/2023	4.28	1/6/2026	100.44189	100.3389054	100.2361464	100.1336081	100.03129	99.92919129	99.82731118	99.72564896	99.6242039
230109A00042	1/9/2023	4.07	12/20/2027	109.20661	107.0737806	104.9939369	102.9654059	100.9865833	99.05592694	97.17195422	95.33323885	93.53840849
230109A00083	1/9/2023	4.79	1/11/2038	150.9383	136.7351815	124.0966217	112.8383275	102.7987622	93.83622034	85.82629402	78.65967497	72.24024605
230110A00006	1/10/2023	4.06	1/10/2028	109.44434	107.2506881	105.1125342	103.0280908	100.9956396	99.01353089	97.08018007	95.19406481	93.35372189
230110A00023	1/10/2023	4.3	1/12/2026	100.51012	100.3905083	100.2711982	100.152187	100.0334737	99.91505702	99.79693583	99.67910899	99.56157536
230110A00035	1/10/2023	4.08	1/10/2028	109.57387	107.3568859	105.1972379	103.0930146	101.0423879	99.04360525	97.09498648	95.19491983	93.34185861
230110A00040	1/13/2023	4.07	12/13/2027	109.12002	107.0075299	104.9472156	102.9374438	100.9766463	99.06331542	97.19600056	95.37330607	93.5938885
230110A00043	1/10/2023	3.84	1/10/2028	109.12772	106.9345145	104.7968662	102.7129854	100.6811504	98.69970786	96.76707026	94.88171226	93.04216791
230110A00047	1/10/2023	3.84	1/10/2028	109.12772	106.9345145	104.7968662	102.7129854	100.6811504	98.69970786	96.76707026	94.88171226	93.04216791
230110A00055	1/10/2023	4.06	1/10/2028	109.44434	107.2506881	105.1125342	103.0280908	100.9956396	99.01353089	97.08018007	95.19406481	93.35372189
230110A00070	1/10/2023	4.27	1/9/2026	100.4702	100.3589494	100.2479579	100.1372251	100.0267501	99.91653194	99.80656973	99.69686251	99.58740937
230111A00004	1/11/2023	3.83	1/11/2028	109.11808	106.9222004	104.7820034	102.695688	100.6615267	98.67786108	96.74309857	94.85570916	93.01422248
230111A00013	1/11/2023	4.25	1/9/2026	100.46798	100.3567293	100.2457398	100.1350091	100.0245361	99.91431998	99.80435979	99.69465458	99.58520344
230111A00019	1/11/2023	3.83	1/11/2028	109.11808	106.9222004	104.7820034	102.695688	100.6615267	98.67786108	96.74309857	94.85570916	93.01422248
230111A00046	1/11/2023	4.28	1/13/2026	100.51987	100.3974748	100.2753944	100.1536266	100.0321702	99.91102405	99.79018688	99.66965746	99.54943457
230112A00004	1/12/2023	4	1/12/2028	109.3397	107.1416504	104.9993186	102.9109068	100.8746859	98.88899607	96.95224341	95.06289667	93.21948428
230112A00014	1/12/2023	4.09	1/12/2027	104.88765	103.7332292	102.6042869	101.4999874	100.4195292	99.36214503	98.32710037	97.3136916	96.32124442
230112A00041	1/12/2023	4.2	1/12/2026	100.49817	100.3785759	100.2592771	100.1402773	100.0215753	99.90316986	99.78505993	99.66724433	99.5497219
230112A00042	1/12/2023	4.09	1/12/2027	104.88765	103.7332292	102.6042869	101.4999874	100.4195292	99.36214503	98.32710037	97.3136916	96.32124442
230112A00044	1/12/2023	4	1/12/2028	109.3397	107.1416504	104.9993186	102.9109068	100.8746859	98.88899607	96.95224341	95.06289667	93.21948428
230112A00062	3/15/2023	3.83	3/15/2028	109.72529	107.3427105	105.0242812	102.7678559	100.5713774	98.43287214	96.3504458	94.32227976	92.34662731
230112A00063	3/15/2023	3.83	3/15/2028	109.72529	107.3427105	105.0242812	102.7678559	100.5713774	98.43287214	96.3504458	94.32227976	92.34662731
230112A00065	1/12/2023	4.09	1/12/2027	104.88765	103.7332292	102.6042869	101.4999874	100.4195292	99.36214503	98.32710037	97.3136916	96.32124442
230112A00066	1/12/2023	4	1/12/2028	109.3397	107.1416504	104.9993186	102.9109068	100.8746859	98.88899607	96.95224341	95.06289667	93.21948428
230113A00037	1/26/2024	3.43	1/30/2026	100.58223	100.4125536	100.243453	100.0749214	99.90695592	99.73955378	99.57271215	99.40642823	99.24069926
230113A00055	1/13/2023	3.88	1/13/2028	109.09306	106.8949464	104.7526177	102.6642717	100.6281751	98.64266435	96.70614197	94.81707331	92.97398363
230113A00057	1/13/2023	3.99	1/13/2028	109.0243	106.8920105	104.8144893	102.7899109	100.8165314	98.89267918	97.01675152	95.18721114	93.40258289

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230113A00080	1/13/2023	4.18	1/13/2026	100.50765	100.3852651	100.2631964	100.1414403	100.0199957	99.89886126	99.77803577	99.657518	99.53730675
230117A00040	1/17/2023	4.07	1/19/2027	104.95823	103.7835589	102.6352496	101.5124232	100.4142371	99.33988533	98.28859708	97.25963428	96.25229015
230117A00048	1/17/2023	3.97	1/14/2028	109.29917	107.0960153	104.9488206	102.8557694	100.8151216	98.82520707	96.88442201	94.99122592	93.14413846
230117A00087	1/17/2023	3.93	1/18/2028	109.2605	107.0466819	104.8893075	102.7865348	100.736601	98.73781472	96.78855227	94.88725425	93.03242252
230118A00019	1/18/2023	3.59	1/18/2028	108.67976	106.4692987	104.3152815	102.2158666	100.1692894	98.17385662	96.22794284	94.32998715	92.47849001
230118A00020	1/18/2023	3.87	1/16/2026	100.51165	100.380843	100.2503946	100.1203021	99.99056409	99.86117904	99.73214545	99.60346185	99.47512676
230118A00033	1/18/2023	3.81	1/18/2028	109.00006	106.7891214	104.6345651	102.5345534	100.4873254	98.49119129	96.54452875	94.64577993	92.7934481
230118A00039	1/18/2023	3.81	1/18/2028	109.00006	106.7891214	104.6345651	102.5345534	100.4873254	98.49119129	96.54452875	94.64577993	92.7934481
230118A00053	1/18/2023	3.87	1/16/2026	100.51165	100.380843	100.2503946	100.1203021	99.99056409	99.86117904	99.73214545	99.60346185	99.47512676
230118A00056	1/18/2023	3.87	1/16/2026	100.51165	100.380843	100.2503946	100.1203021	99.99056409	99.86117904	99.73214545	99.60346185	99.47512676
230118A00058	1/23/2023	4	2/17/2026	100.88521	100.6651885	100.4461374	100.2280503	100.0109208	99.79474259	99.5795093	99.36521472	99.15185267
230118A00087	1/18/2023	4.02	1/16/2026	100.52235	100.3916224	100.2612555	100.1312433	100.0015844	99.87227715	99.74332017	99.61471199	99.48645113
230119A00034	1/19/2023	3.82	1/19/2028	109.03338	106.8193031	104.6617401	102.5588458	100.5088534	98.51006754	96.56086065	94.65966989	92.80499383
230119A00105	1/19/2023	3.9	1/19/2027	104.7621	103.5886276	102.4415035	101.319844	100.2228069	99.14958682	98.09941323	97.07154854	96.06528639
230119A00108	1/19/2023	3.81	1/19/2028	109.01165	106.7978124	104.6404847	102.5378211	100.4880548	98.48949046	96.54050077	94.63952295	92.78505572
230119A00137	1/19/2023	3.9	1/19/2027	104.7621	103.5886276	102.4415035	101.319844	100.2228069	99.14958682	98.09941323	97.07154854	96.06528639
230120A00022	1/20/2023	3.9	1/20/2028	109.21907	107.0001663	104.8379428	102.7305459	100.6762017	98.67320841	96.71993225	94.81480454	92.95631832
230120A00027	1/20/2023	4.13	1/20/2026	100.5836	100.4417051	100.3002266	100.159161	100.0185067	99.87826162	99.73842406	99.59899218	99.45996418
230120A00029	1/20/2023	3.9	1/20/2028	109.21907	107.0001663	104.8379428	102.7305459	100.6762017	98.67320841	96.71993225	94.81480454	92.95631832
230120A00079	1/20/2023	3.68	1/20/2028	108.8981	106.6796826	104.5180008	102.4112036	100.3575133	98.35522485	96.40270118	94.49837058	92.64072325
230120A00099	1/20/2023	3.92	1/20/2026	100.5635	100.421522	100.2799644	100.1388213	99.99809059	99.85777058	99.71785937	99.57835515	99.43925609
230120A00103	1/20/2023	3.92	1/20/2026	100.5635	100.421522	100.2799644	100.1388213	99.99809059	99.85777058	99.71785937	99.57835515	99.43925609
230120A00114	1/20/2023	4.13	1/20/2026	100.5836	100.4417051	100.3002266	100.159161	100.0185067	99.87826162	99.73842406	99.59899218	99.45996418
230120A00117	1/20/2023	3.9	1/20/2028	109.21907	107.0001663	104.8379428	102.7305459	100.6762017	98.67320841	96.71993225	94.81480454	92.95631832
230123A00051	1/23/2023	3.75	1/21/2028	109.06216	106.8391498	104.6730347	102.5619576	100.5041344	98.49785325	96.54147122	94.6334108	92.77215673
230124A00004	1/24/2023	3.99	1/24/2028	109.46327	107.2305601	105.0550792	102.9349487	100.8683701	98.85361849	96.88903823	94.97303997	93.10409724
230124A00014	1/24/2023	4.23	1/26/2026	100.66977	100.5111089	100.3529534	100.1953029	100.0381551	99.88150752	99.72535773	99.56970338	99.4145421
230124A00015	1/24/2023	4.09	1/25/2027	105.0616	103.8692819	102.7040944	101.56512	100.4514803	99.3623358	98.29688368	97.25435594	96.23401745
230124A00024	1/24/2023	4.23	1/23/2026	100.63377	100.4834847	100.3336621	100.1842978	100.0353897	99.88693565	99.73893365	99.59138157	99.44427733
230124A00025	1/24/2023	4.09	1/25/2027	105.0616	103.8692819	102.7040944	101.56512	100.4514803	99.3623358	98.29688368	97.25435594	96.23401745
230124A00045	1/24/2023	3.99	1/24/2028	109.46327	107.2305601	105.0550792	102.9349487	100.8683701	98.85361849	96.88903823	94.97303997	93.10409724
230124A00046	1/24/2023	3.99	1/24/2028	109.46327	107.2305601	105.0550792	102.9349487	100.8683701	98.85361849	96.88903823	94.97303997	93.10409724
230124A00055	6/15/2023	4.13	6/15/2032	127.7579	120.4988075	113.7139028	107.3695073	101.4345118	95.88016513	90.67988315	85.80907488	81.24498294

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230124A00056	3/28/2023	4.19	3/28/2033	130.77751	122.5812738	114.9748748	107.9124634	101.3519862	95.25485264	89.58563344	84.31178664	79.40340839
230124A00058	6/15/2023	4.21	6/15/2034	134.79549	125.1539619	116.3051732	108.179068	100.7121425	93.84680423	87.5307923	81.71665837	76.36129988
230125A00010	1/25/2023	4.01	1/25/2027	104.96797	103.7762282	102.6116143	101.4732045	100.3601206	99.27152335	98.20661018	97.16461327	96.14479771
230125A00022	1/25/2023	3.8	1/25/2027	104.80516	103.613173	102.4483398	101.3097427	100.1965018	99.10777609	98.04276144	97.00068856	95.98082116
230125A00023	1/25/2023	3.69	1/25/2028	108.97718	106.7440113	104.5682148	102.447909	100.381287	98.36661585	96.4022326	94.48654088	92.61800765
230125A00031	1/25/2023	3.74	1/25/2028	108.77027	106.6096887	104.5052762	102.4551442	100.4574808	98.51055057	96.61269086	94.76230781	92.95787293
230126A00015	1/26/2023	4.08	1/26/2027	105.06325	103.868087	102.70018	101.5586069	100.4424834	99.35096414	98.28324116	97.23854141	96.21612503
230126A00036	1/26/2023	4.19	1/26/2026	100.66344	100.5047833	100.3466353	100.1889923	100.031852	99.87521181	99.71906945	99.5634225	99.4082686
230127A00012	1/27/2023	4	1/27/2028	109.5215	107.2798141	105.0957388	102.967381	100.8929245	98.8706276	96.89881898	94.9758944	93.10031333
230127A00044	1/27/2023	4.25	1/27/2026	100.685	100.5235341	100.3625962	100.2021793	100.0422809	99.88289825	99.72402905	99.56567076	99.40782092
230127A00045	1/27/2023	4.12	1/27/2027	105.12365	103.9252707	102.7542826	101.609755	100.4907974	99.3965589	98.32622584	97.2790201	96.25419697
230127A00046	1/27/2023	4	1/27/2028	109.5215	107.2798141	105.0957388	102.967381	100.8929245	98.8706276	96.89881898	94.9758944	93.10031333
230127A00048	1/27/2023	4	1/27/2028	109.5215	107.2798141	105.0957388	102.967381	100.8929245	98.8706276	96.89881898	94.9758944	93.10031333
230127A00053	1/27/2023	4	1/27/2028	109.5215	107.2798141	105.0957388	102.967381	100.8929245	98.8706276	96.89881898	94.9758944	93.10031333
230127A00056	1/27/2023	3.78	1/27/2028	109.19786	106.9566671	104.7731514	102.6454121	100.5716293	98.55005762	96.5790226	94.65691682	92.78219685
230127A00060	1/30/2023	4.25	2/3/2026	100.76972	100.5887167	100.4083619	100.2286567	100.0495974	99.87118065	99.69340294	99.51626084	99.33975094
230127A00073	1/27/2023	4.24	2/17/2026	100.93788	100.7177769	100.498648	100.2804835	100.0632767	99.84702149	99.63171146	99.4173404	99.20390212
230127A00096	1/27/2023	4.21	1/27/2026	100.67855	100.5170976	100.3561675	100.1957584	100.0358676	99.87649271	99.71763118	99.55928054	99.40143833
230130A00045	1/30/2023	4.02	1/28/2028	109.57759	107.3324965	105.1451535	103.0136588	100.9361902	98.91100007	96.93641157	95.01081532	93.13266587
230130A00086	1/30/2023	4.16	2/1/2027	105.23835	104.025065	102.8398255	101.6816676	100.5496698	99.44295219	98.36067378	97.30203064	96.26625375
230130A00087	1/30/2023	4.04	1/28/2028	109.62155	107.3759708	105.1881463	103.0561799	100.978249	98.95260589	96.97757339	95.05154186	93.17296561
230130A00095	2/3/2023	4.25	5/26/2026	102.13587	101.6405934	101.150123	100.6643933	100.1833356	99.70688274	99.23496872	98.76752879	98.30449947
230130A00127	1/30/2023	4.02	2/1/2028	109.62697	107.3700277	105.1713562	103.0290274	100.9411951	98.90608888	96.92201074	94.98733106	93.10048539
230131A00004	1/31/2023	3.76	1/31/2028	109.20055	106.9482088	104.7540451	102.6161334	100.5326305	98.50176918	96.52185404	94.59125818	92.70841972
230131A00006	1/31/2023	4.23	2/2/2026	100.754	100.575787	100.3982033	100.2212479	100.0449172	99.86920812	99.69411729	99.51964146	99.34577739
230131A00009	1/31/2023	3.98	1/31/2028	109.52585	107.2730056	105.0782685	102.9397241	100.855533	98.82393142	96.84322748	94.91179737	93.02808214
230131A00032	2/3/2023	4.17	7/30/2026	102.8731	102.194249	101.5243663	100.8632718	100.2107933	99.56676303	98.93101772	98.30339812	97.68374912
230131A00034	2/3/2023	3.99	12/23/2027	109.07591	106.9361589	104.8496983	102.8148479	100.8299886	98.89356477	97.00408048	95.16009722	93.36023103
230131A00057	1/31/2023	4.1	1/29/2027	105.12696	103.9228801	102.7464506	101.596724	100.4727977	99.37380947	98.29893504	97.24738617	96.21840867
230131A00067	1/31/2023	4.02	2/2/2026	100.72883	100.5505184	100.3728395	100.1957907	100.0193685	99.84356965	99.66839078	99.49382863	99.31987994
230131A00071	1/31/2023	4.22	1/30/2026	100.71608	100.5462414	100.3769716	100.2082713	100.0401376	99.87256764	99.70555871	99.53910796	99.37321261
230131A00087	2/3/2023	4.26	1/5/2026	100.42076	100.3206373	100.2207274	100.1210248	100.0215288	99.92223864	99.82315377	99.72427351	99.62559718
230131A00095	1/31/2023	4.22	1/30/2026	100.71608	100.5462414	100.3769716	100.2082713	100.0401376	99.87256764	99.70555871	99.53910796	99.37321261

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230201A00003	2/1/2023	3.93	1/31/2028	109.41552	107.1639093	104.970385	102.8330287	100.7500018	98.71954103	96.73995523	94.80962125	92.92698073
230201A00011	2/1/2023	3.93	2/1/2028	109.42811	107.1734077	104.9769247	102.8367397	100.7510078	98.71795991	96.73589917	94.80319713	92.91829046
230201A00012	2/1/2023	4.08	2/1/2027	105.14315	103.93047	102.7458229	101.5882479	100.4568238	99.35067092	98.26894855	97.21085295	96.17561531
230202A00006	2/2/2023	3.92	2/2/2027	104.96543	103.7510404	102.5648058	101.4057507	100.2729479	99.1655121	98.08259729	97.02339481	95.98713122
230202A00008	2/2/2023	3.81	2/2/2028	109.17523	106.9204173	104.7239001	102.5837513	100.4981216	98.46523753	96.48339821	94.55097144	92.66639038
230202A00011	2/2/2023	3.92	2/2/2027	104.96543	103.7510404	102.5648058	101.4057507	100.2729479	99.1655121	98.08259729	97.02339481	95.98713122
230202A00034	2/2/2024	3.41	2/2/2026	100.60823	100.4302027	100.2528085	100.0760419	99.89989961	99.72437832	99.54947476	99.37518566	99.2015078
230202A00038	2/2/2023	3.84	2/2/2028	109.2416	106.9860395	104.788791	102.6479259	100.5615944	98.52802258	96.54550922	94.6124217	92.7271928
230202A00041	2/2/2023	3.82	2/2/2028	109.19736	106.9422914	104.7455304	102.6051429	100.5192792	98.48616588	96.50410188	94.57145486	92.68665786
230202A00042	2/2/2023	3.82	2/2/2028	109.19736	106.9422914	104.7455304	102.6051429	100.5192792	98.48616588	96.50410188	94.57145486	92.68665786
230202A00045	2/2/2023	3.62	2/2/2028	108.91526	106.6602206	104.4635557	102.3233338	100.2377009	98.20487985	96.22316592	94.29092335	92.40658196
230202A00050	2/2/2023	3.82	2/2/2028	109.19736	106.9422914	104.7455304	102.6051429	100.5192792	98.48616588	96.50410188	94.57145486	92.68665786
230202A00096	2/2/2023	3.81	2/2/2028	109.17523	106.9204173	104.7239001	102.5837513	100.4981216	98.46523753	96.48339821	94.55097144	92.66639038
230203A00021	2/8/2023	4.21	6/17/2026	102.38152	101.824243	101.273049	100.7278374	100.1885112	99.654975	99.12713582	98.60490253	98.08818595
230203A00026	2/3/2023	3.98	2/3/2028	109.56406	107.301911	105.0982874	102.9512475	100.8589329	98.81956193	96.83142578	94.89288473	93.0023648
230203A00038	2/3/2023	4.1	2/3/2027	105.19329	103.9746308	102.784279	101.6212547	100.4846236	99.37349365	98.28701273	97.22436618	96.18477499
230203A00039	2/3/2023	3.98	2/3/2028	109.56406	107.301911	105.0982874	102.9512475	100.8589329	98.81956193	96.83142578	94.89288473	93.0023648
230203A00043	2/14/2023	4.31	2/13/2026	100.9039	100.6949599	100.4868981	100.2797076	100.0733829	99.86791847	99.66330894	99.4595489	99.25663302
230203A00045	2/14/2023	4.31	2/13/2026	100.9039	100.6949599	100.4868981	100.2797076	100.0733829	99.86791847	99.66330894	99.4595489	99.25663302
230203A00053	2/10/2023	4.32	2/10/2026	100.8689	100.6683353	100.4685832	100.2696344	100.0714839	99.87412673	99.67755822	99.48177356	99.28676801
230203A00054	2/10/2023	4.32	2/10/2026	100.8689	100.6683353	100.4685832	100.2696344	100.0714839	99.87412673	99.67755822	99.48177356	99.28676801
230203A00057	2/3/2023	4.34	2/3/2026	100.78597	100.604945	100.424569	100.2448425	100.0657621	99.88732431	99.70952559	99.53236254	99.35583175
230203A00058	2/3/2023	4.34	2/3/2026	100.78597	100.604945	100.424569	100.2448425	100.0657621	99.88732431	99.70952559	99.53236254	99.35583175
230208A00029	2/8/2023	4.27	2/8/2027	105.46474	104.2301972	103.024648	101.8470825	100.6965331	99.57207656	98.47283113	97.39795451	96.34664158
230208A00036	2/8/2023	4.43	2/6/2026	100.84023	100.6508041	100.4621018	100.2741139	100.0868365	99.90026556	99.71439697	99.52922677	99.34475099
230208A00038	2/8/2023	4.27	2/8/2027	105.46474	104.2301972	103.024648	101.8470825	100.6965331	99.57207656	98.47283113	97.39795451	96.34664158
230208A00039	2/8/2023	4.17	2/8/2028	110.05126	107.7688097	105.5456678	103.379861	101.2694962	99.21275914	97.20790989	95.25327953	93.34726646
230208A00040	2/8/2023	4.26	2/8/2029	114.91728	111.5251684	108.2528881	105.0954734	102.048196	99.10655454	96.26626126	93.52323085	90.87356921
230208A00041	2/8/2023	4.32	2/8/2030	119.71463	115.176048	110.8391444	106.6937969	102.7304498	98.94008103	95.31416903	91.84466187	88.52394835
230208A00055	2/8/2023	4.22	2/6/2026	100.81357	100.6240408	100.4352371	100.24715	100.0597754	99.87310902	99.68714694	99.50188511	99.31731953
230208A00060	2/8/2023	4.06	2/8/2027	105.29687	104.0620667	102.8563024	101.6785557	100.5278573	99.40328191	98.30394613	97.22900604	96.17765503
230209A00024	2/9/2023	4.4	2/5/2026	100.82197	100.635352	100.4494258	100.2641924	100.0796478	99.89578823	99.71260978	99.53010867	99.34828111
230209A00025	2/9/2023	4.25	2/5/2027	105.39979	104.1741594	102.9771189	101.8076777	100.664888	99.54784503	98.45568455	97.3875807	96.34274382

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230209A00027	2/9/2023	4.12	2/7/2028	109.92668	107.6486011	105.4296688	103.2679148	101.1614529	99.1084757	97.10724966	95.15611189	93.25346646
230209A00037	2/9/2023	4.12	2/9/2028	109.95294	107.6686346	105.4437554	103.2763178	101.164423	99.10625122	97.10005765	95.14416862	93.23697806
230210A00035	2/10/2023	4.52	2/10/2026	100.90889	100.7082792	100.5084719	100.309468	100.1112625	99.91385061	99.71722751	99.52138842	99.3263286
230210A00055	2/10/2023	4.02	2/10/2028	109.90546	107.6155194	105.3852691	103.2127148	101.0959455	99.03313006	97.02251267	95.06240945	93.15120465
230210A00062	2/10/2023	4.13	2/10/2027	105.40852	104.1673272	102.9554493	101.7718537	100.6155573	99.48562235	98.38115349	97.30129563	96.24523157
230210A00065	2/10/2023	4.02	2/10/2028	109.90546	107.6155194	105.3852691	103.2127148	101.0959455	99.03313006	97.02251267	95.06240945	93.15120465
230213A00020	2/15/2023	4.28	1/25/2028	110.11043	107.8677378	105.6825423	103.5529585	101.477178	99.45346635	97.48015907	95.55565821	93.67842916
230214A00031	2/14/2023	4.31	2/14/2028	110.44531	108.140563	105.8960414	103.7097211	101.579668	99.50402922	97.48102852	95.50896264	93.58619755
230215A00008	2/15/2023	4.49	2/16/2027	105.8449	104.5851903	103.355592	102.155032	100.9824885	99.83698741	98.7175994	97.62343724	96.55365358
230215A00035	2/15/2023	4.47	2/17/2026	101.00368	100.7833174	100.5639298	100.3455094	100.1280496	99.91154418	99.69598672	99.48137094	99.26769061
230215A00045	2/15/2023	4.37	2/15/2028	110.59389	108.284478	106.0354595	103.8448064	101.7105774	99.63091239	97.6040287	95.62821675	93.70183658
230217A00036	2/17/2023	4.44	2/17/2028	110.77935	108.4618689	106.2050966	104.0069933	101.8656033	99.7790534	97.74554821	95.76336633	93.83085653
230217A00052	2/17/2023	4.55	2/17/2027	105.93323	104.670105	103.4372319	102.2335339	101.0579826	99.90959725	98.78744232	97.69062484	96.61829202
230221A00004	2/21/2023	4.47	2/18/2028	110.86109	108.5396953	106.2791656	104.0774544	101.9325992	99.84271993	97.80601509	95.82075735	93.88528993
230221A00007	2/21/2023	4.5	10/18/2027	109.24421	107.2883208	105.3775643	103.5106244	101.6862359	99.90317848	98.16027459	96.45638786	94.79042133
230222A00024	2/22/2023	4.74	3/2/2026	101.22353	100.9668338	100.7114362	100.4573317	100.2045104	99.95296261	99.70267867	99.4536491	99.20586447
230223A00033	2/23/2023	4.5	2/23/2028	110.99979	108.6618987	106.3855956	104.1687992	102.0095134	99.90582702	97.85590861	95.85800294	93.91042679
230224A00029	2/24/2023	4.87	2/24/2026	101.17336	100.9334328	100.6946447	100.4569905	100.220462	99.98505133	99.7507505	99.51755168	99.28544709
230227A00060	2/27/2023	4.86	2/27/2026	101.21257	100.9642177	100.7170878	100.4711664	100.2264448	99.98291407	99.74056571	99.49939109	99.25938171
230228A00009	2/28/2023	4.69	2/27/2026	101.18799	100.9394938	100.69222	100.4461576	100.2012977	99.95763163	99.71515058	99.47384596	99.23370921
230228A00010	2/28/2023	4.5	2/26/2027	106.09049	104.7993047	103.5396694	102.3104382	101.1105184	99.93886917	98.79449845	97.67646015	96.58385151
230301A00029	3/1/2023	4.59	3/1/2028	111.30458	108.9424498	106.6429604	104.403976	102.2234571	100.099451	98.03008711	96.01357296	94.04818987
230301A00036	3/1/2023	4.91	3/2/2026	101.26698	101.010206	100.7547357	100.5005587	100.2476652	99.99604545	99.74568985	99.49658889	99.24873315
230301A00047	3/1/2023	4.61	3/1/2028	111.42027	109.0397145	106.7237148	104.4701518	102.2769933	100.142285	98.06414725	96.04077178	94.0704184
230302A00028	3/2/2023	5.02	3/2/2026	101.29509	101.0382704	100.782753	100.5285291	100.2755889	100.0239226	99.77352061	99.52437346	99.2764717
230302A00047	3/2/2023	4.76	3/2/2028	111.28886	109.0006295	106.7738385	104.6064823	102.496631	100.442429	98.4420915	96.49390169	94.59620736
230303A00035	5/15/2023	4.65	5/15/2030	122.39844	117.5169937	112.8640521	108.4276668	104.1965799	100.1601785	96.30845366	92.63196346	89.12179756
230303A00036	5/15/2023	4.53	5/15/2028	112.18653	109.6011834	107.0897789	104.6497736	102.2787269	99.97429667	97.73423495	95.55638325	93.43866854
230303A00038	4/14/2023	4.56	4/14/2028	111.83768	109.3448746	106.9211049	104.5640687	102.2715584	100.0414526	97.87171171	95.76037502	93.70555668
230303A00041	4/14/2023	4.56	4/14/2028	111.83768	109.3448746	106.9211049	104.5640687	102.2715584	100.0414526	97.87171171	95.76037502	93.70555668
230303A00057	3/3/2023	4.77	3/3/2027	106.41466	105.1101145	103.8366367	102.5931231	101.3785185	100.1918168	99.03205859	97.89832789	96.78975007
230303A00059	3/3/2023	4.56	3/3/2027	106.23867	104.9338741	103.6601881	102.416502	101.2017584	100.0149495	98.85511386	97.72133389	96.61273334
230307A00004	3/7/2023	4.67	3/7/2028	111.64106	109.2411073	106.9066355	104.6354842	102.4255793	100.2749268	98.18160958	96.14378357	94.15967475

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230307A00020	3/7/2023	4.98	3/9/2026	101.38441	101.1079908	100.8330913	100.5596981	100.2877988	100.0173811	99.74843277	99.48094184	99.21489636
230307A00021	3/7/2023	4.63	3/7/2028	111.47891	109.0979912	106.7805657	104.5244904	102.3277123	100.1882643	98.10426035	96.07389144	94.09542197
230307A00022	3/7/2023	4.77	3/8/2027	106.48857	105.1720085	103.8853032	102.6274407	101.3974492	100.1944005	99.0174073	97.86562154	96.73823178
230307A00026	3/7/2023	4.98	3/6/2026	101.34175	101.0737406	100.8071583	100.5419902	100.278225	100.0158514	99.75485845	99.49523521	99.23697082
230307A00034	3/7/2023	4.41	3/7/2028	111.14061	108.7602603	106.4434706	104.188097	101.9920823	99.85345505	97.77032556	95.74088129	93.76338326
230307A00114	3/7/2023	4.65	3/7/2028	111.52506	109.1436008	106.8256465	104.5690534	102.3717684	100.2318239	98.1473334	96.11648785	94.13755129
230308A00019	3/8/2023	5.05	3/9/2026	101.40366	101.1272075	100.8522742	100.5788474	100.3069146	100.0364636	99.76748206	99.49995806	99.23387964
230309A00004	3/9/2023	4.86	3/9/2027	106.61949	105.299723	104.009593	102.7480953	101.5142743	100.3072171	99.12605076	97.96994058	96.83808755
230309A00005	3/9/2023	5.06	3/9/2026	101.40641	101.1299527	100.8550146	100.581583	100.3096455	100.0391896	99.77020339	99.50267466	99.23659154
230309A00027	3/9/2023	4.68	3/9/2028	111.62214	109.233945	106.9095564	104.6468216	102.4436824	100.2981662	98.20838099	96.17251179	94.18881669
230309A00030	3/9/2023	5.01	3/9/2026	101.39266	101.1162265	100.8413125	100.5679049	100.2959913	100.0255593	99.75659675	99.48909165	99.22303205
230309A00031	3/9/2023	5.01	3/9/2026	101.39266	101.1162265	100.8413125	100.5679049	100.2959913	100.0255593	99.75659675	99.48909165	99.22303205
230309A00032	3/9/2023	4.82	3/9/2027	106.56787	105.2484624	103.958678	102.6975199	101.4640328	100.2573038	99.07646039	97.9206678	96.78912723
230309A00033	3/9/2023	4.82	3/9/2027	106.56787	105.2484624	103.958678	102.6975199	101.4640328	100.2573038	99.07646039	97.9206678	96.78912723
230309A00034	3/9/2023	4.64	3/9/2028	111.52961	109.142507	106.8191808	104.5574862	102.3553657	100.2108472	98.12203931	96.08712768	94.10437096
230309A00035	3/9/2023	4.64	3/9/2028	111.52961	109.142507	106.8191808	104.5574862	102.3553657	100.2108472	98.12203931	96.08712768	94.10437096
230309A00036	3/9/2023	4.46	3/9/2028	111.28313	108.8955054	106.5717565	104.3097276	102.1073564	99.96266586	97.87376043	95.83882147	93.85610371
230309A00038	3/9/2023	4.85	3/9/2026	101.36805	101.0914471	100.8163684	100.5427995	100.2707279	100.0001412	99.7310272	99.46337378	99.19716897
230309A00041	3/9/2023	4.85	3/9/2026	101.36805	101.0914471	100.8163684	100.5427995	100.2707279	100.0001412	99.7310272	99.46337378	99.19716897
230309A00057	3/9/2023	4.86	3/9/2027	106.61949	105.299723	104.009593	102.7480953	101.5142743	100.3072171	99.12605076	97.96994058	96.83808755
230309A00080	3/9/2023	4.68	3/9/2028	111.62214	109.233945	106.9095564	104.6468216	102.4436824	100.2981662	98.20838099	96.17251179	94.18881669
230309A00091	3/9/2023	4.68	3/9/2028	111.62214	109.233945	106.9095564	104.6468216	102.4436824	100.2981662	98.20838099	96.17251179	94.18881669
230309A00096	3/9/2023	4.68	3/9/2028	111.62214	109.233945	106.9095564	104.6468216	102.4436824	100.2981662	98.20838099	96.17251179	94.18881669
230310A00017	3/10/2023	4.43	3/9/2029	115.86575	112.3701712	109.0006033	105.7517555	102.61859	99.59631195	96.68035585	93.86637318	91.15022042
230310A00024	3/10/2023	4.38	3/10/2028	110.9413	108.5583031	106.2390802	103.981482	101.7834531	99.64302309	97.55830208	95.52747679	93.54880675
230310A00030	3/10/2023	4.38	3/10/2028	110.9413	108.5583031	106.2390802	103.981482	101.7834531	99.64302309	97.55830208	95.52747679	93.54880675
230310A00037	3/10/2023	4.69	3/10/2026	101.31807	101.0389911	100.7614603	100.4854662	100.2109962	99.9380374	99.66657734	99.39660359	99.12810387
230310A00039	3/10/2023	4.33	3/10/2028	110.8255	108.4438687	106.125977	103.8696821	101.6729294	99.53374936	97.45025279	95.42062717	93.44313272
230310A00047	6/9/2023	4.22	6/9/2028	111.7283	109.0780336	106.5054014	104.007665	101.5821993	99.22648833	96.93811978	94.71478024	92.55425038
230310A00054	9/8/2023	4.09	9/11/2028	112.54875	109.6212139	106.7859409	104.0394514	101.3784222	98.79967767	96.30018173	93.87703081	91.52744703
230310A00069	3/10/2023	4.7	3/9/2026	101.30741	101.0311241	100.7563595	100.4831008	100.2113354	99.94105105	99.67223558	99.40487694	99.13896323
230310A00071	3/10/2023	4.38	3/10/2028	110.9413	108.5583031	106.2390802	103.981482	101.7834531	99.64302309	97.55830208	95.52747679	93.54880675
230310A00073	3/10/2023	4.7	3/6/2026	101.26708	100.9992008	100.7327468	100.4677064	100.2040684	99.9418216	99.6809549	99.4214574	99.16331828

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230310A00089	3/10/2023	4.7	3/10/2026	101.32085	101.0417641	100.7642283	100.4882294	100.2137545	99.94079084	99.66932596	99.3993474	99.1308429
230310A00091	3/10/2023	4.53	3/10/2027	106.2078	104.8885408	103.5986223	102.3370631	101.1029261	99.8953154	98.71337409	97.55628231	96.42325513
230310A00092	3/10/2023	4.38	3/10/2028	110.9413	108.5583031	106.2390802	103.981482	101.7834531	99.64302309	97.55830208	95.52747679	93.54880675
230310A00114	3/10/2023	4.5	3/10/2027	106.16901	104.8500129	103.5603545	102.2990511	101.0651655	99.85780203	98.67610385	97.51925123	96.38645934
230310A00120	3/10/2023	4.33	3/10/2028	110.8255	108.4438687	106.125977	103.8696821	101.6729294	99.53374936	97.45025279	95.42062717	93.44313272
230313A00036	3/13/2023	4.06	3/13/2028	110.23678	107.8537236	105.5346689	103.2774728	101.0800786	98.9405138	96.85688581	94.82737796	92.85024588
230313A00048	3/13/2023	4.25	3/13/2026	101.23242	100.9451593	100.6595392	100.3755491	100.0931748	99.81240245	99.53321837	99.25560899	98.9795609
230313A00052	3/13/2023	4.17	3/15/2027	105.80785	104.4798373	103.1799016	101.9071519	100.6607374	99.43984322	98.24368796	97.07152248	95.92262803
230313A00057	3/13/2023	4.06	3/13/2028	110.23678	107.8537236	105.5346689	103.2774728	101.0800786	98.9405138	96.85688581	94.82737796	92.85024588
230313A00061	3/13/2023	4.06	3/13/2028	110.23678	107.8537236	105.5346689	103.2774728	101.0800786	98.9405138	96.85688581	94.82737796	92.85024588
230313A00072	3/13/2023	4.06	3/13/2028	110.23678	107.8537236	105.5346689	103.2774728	101.0800786	98.9405138	96.85688581	94.82737796	92.85024588
230313A00078	3/13/2023	4.41	3/13/2026	101.2782	100.9908557	100.7051531	100.4210807	100.1386244	99.85777052	99.5785052	99.30081491	99.02468625
230313A00090	3/13/2023	4.41	3/13/2026	101.2782	100.9908557	100.7051531	100.4210807	100.1386244	99.85777052	99.5785052	99.30081491	99.02468625
230313A00091	3/13/2023	4.15	3/13/2028	110.44597	108.0604443	105.7389767	103.4794184	101.2797111	99.13788095	97.05203394	95.02035206	93.04108967
230313A00098	3/13/2023	4.41	3/13/2026	101.2782	100.9908557	100.7051531	100.4210807	100.1386244	99.85777052	99.5785052	99.30081491	99.02468625
230313A00102	3/13/2023	4.15	3/13/2028	110.44597	108.0604443	105.7389767	103.4794184	101.2797111	99.13788095	97.05203394	95.02035206	93.04108967
230313A00112	3/13/2023	4.15	3/13/2028	110.44597	108.0604443	105.7389767	103.4794184	101.2797111	99.13788095	97.05203394	95.02035206	93.04108967
230313A00119	3/13/2023	4.41	3/13/2026	101.2782	100.9908557	100.7051531	100.4210807	100.1386244	99.85777052	99.5785052	99.30081491	99.02468625
230313A00121	3/13/2023	4.29	3/15/2027	105.96469	104.6356003	103.3346022	102.0608084	100.8133676	99.59146424	98.39431653	97.22117487	96.07132008
230313A00123	3/13/2023	4.22	9/15/2027	108.28177	106.4278093	104.6149133	102.8418678	101.1075036	99.41069602	97.75036253	96.12546088	94.53498722
230313A00128	3/13/2023	4.18	12/15/2027	109.37303	107.2523126	105.1840516	103.166599	101.1983752	99.27786136	97.40359652	95.57417513	93.78824438
230313A00134	3/13/2023	4.16	4/14/2028	110.87211	108.3911038	105.9788724	103.6331266	101.3516664	99.1323772	96.97322659	94.87226032	92.8275989
230313A00135	3/13/2023	4.17	6/15/2028	111.67676	109.0098364	106.4213966	103.9086577	101.4689519	99.09972316	96.79852168	94.56299858	92.39090115
230313A00149	3/13/2023	4.15	3/13/2028	110.44597	108.0604443	105.7389767	103.4794184	101.2797111	99.13788095	97.05203394	95.02035206	93.04108967
230313A00152	3/13/2023	4.18	3/13/2028	110.39434	108.0118683	105.6933257	103.4365737	101.2395594	99.10031363	97.0169472	94.98764651	93.01067013
230313A00158	3/13/2023	4.41	3/13/2026	101.2782	100.9908557	100.7051531	100.4210807	100.1386244	99.85777052	99.5785052	99.30081491	99.02468625
230313A00159	3/13/2023	4.41	3/13/2026	101.2782	100.9908557	100.7051531	100.4210807	100.1386244	99.85777052	99.5785052	99.30081491	99.02468625
230313A00177	3/13/2023	4.41	3/13/2026	101.2782	100.9908557	100.7051531	100.4210807	100.1386244	99.85777052	99.5785052	99.30081491	99.02468625
230313A00179	3/13/2023	4.29	3/15/2027	105.96469	104.6356003	103.3346022	102.0608084	100.8133676	99.59146424	98.39431653	97.22117487	96.07132008
230313A00180	3/13/2023	4.15	3/13/2028	110.44597	108.0604443	105.7389767	103.4794184	101.2797111	99.13788095	97.05203394	95.02035206	93.04108967
230313A00215	3/13/2023	4.13	3/13/2028	110.39948	108.0145064	105.693575	103.4345416	101.2353483	99.09402158	97.00866769	94.97746893	92.99867994
230314A00003	3/14/2023	4.64	3/16/2026	101.38384	101.0879574	100.7938164	100.5014016	100.2106976	99.92168934	99.63436194	99.34870063	99.06469083
230314A00011	3/14/2023	4.38	3/14/2028	110.99364	108.5988722	106.2684338	104.0001723	101.7920237	99.64200789	97.54822464	95.50884984	93.52213173

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230314A00014	3/14/2023	4.18	3/14/2028	110.57446	108.203758	105.8980641	103.6552204	101.4731533	99.34987046	97.28345653	95.27207003	93.31393997
230314A00015	3/14/2023	4.55	9/14/2026	103.73771	102.9268284	102.1286605	101.3429108	100.5692905	99.80751971	99.05732724	98.31845005	97.59063302
230314A00016	3/14/2023	4.38	3/14/2028	110.99364	108.5988722	106.2684338	104.0001723	101.7920237	99.64200789	97.54822464	95.50884984	93.52213173
230314A00017	3/14/2023	4.39	1/18/2028	110.25884	108.0339971	105.8658203	103.7524633	101.6921572	99.68320456	97.72397576	95.81290581	93.94849116
230314A00019	3/14/2023	4.39	1/18/2028	110.25884	108.0339971	105.8658203	103.7524633	101.6921572	99.68320456	97.72397576	95.81290581	93.94849116
230314A00021	3/14/2023	4.41	10/13/2027	109.00566	107.0659609	105.1707406	103.3187133	101.5086397	99.73932402	98.00961237	96.31839081	94.66458379
230314A00024	3/14/2023	4.41	10/13/2027	109.00566	107.0659609	105.1707406	103.3187133	101.5086397	99.73932402	98.00961237	96.31839081	94.66458379
230314A00028	3/14/2023	4.43	7/14/2027	107.80946	106.1350944	104.4952605	102.888956	101.3152174	99.77311796	98.26176604	96.78030344	95.32790376
230314A00030	3/14/2023	4.43	7/14/2027	107.80946	106.1350944	104.4952605	102.888956	101.3152174	99.77311796	98.26176604	96.78030344	95.32790376
230314A00032	3/14/2023	4.45	4/14/2027	106.59097	105.1809592	103.7965742	102.4371709	101.1021298	99.79085125	98.50275478	97.23727854	95.99387842
230314A00034	3/14/2023	4.45	4/14/2027	106.59097	105.1809592	103.7965742	102.4371709	101.1021298	99.79085125	98.50275478	97.23727854	95.99387842
230314A00054	3/14/2023	4.46	3/15/2027	106.18689	104.8562644	103.5537614	102.2784885	101.0295937	99.80626067	98.607707	97.43318243	96.28196714
230314A00067	3/14/2023	4.16	3/14/2028	110.65203	108.2578612	105.9280924	103.6605672	101.4532171	99.30405787	97.21118555	95.17277238	93.18706321
230314A00070	3/14/2023	4.25	3/12/2027	105.9655	104.641833	103.3470497	102.0801996	100.8403779	99.62671901	98.4383943	97.27461035	96.13460696
230314A00081	3/14/2023	4.16	3/14/2028	110.65203	108.2578612	105.9280924	103.6605672	101.4532171	99.30405787	97.21118555	95.17277238	93.18706321
230315A00007	3/15/2023	4.2	3/16/2026	101.25428	100.9586367	100.6647349	100.3725582	100.0820914	99.79331924	99.50622695	99.22079974	98.93702305
230315A00010	3/15/2023	4.2	3/13/2026	101.21812	100.9308791	100.6452849	100.3613205	100.0789718	99.79822493	99.51906624	99.24148214	98.96545923
230315A00013	3/15/2023	4.2	3/16/2026	101.25428	100.9586367	100.6647349	100.3725582	100.0820914	99.79331924	99.50622695	99.22079974	98.93702305
230315A00016	3/15/2023	4.08	3/16/2027	105.70308	104.3734935	103.0717283	101.7969118	100.5482108	99.32482642	98.12599287	96.95097531	95.79906844
230315A00023	3/15/2023	4.2	3/16/2026	101.25428	100.9586367	100.6647349	100.3725582	100.0820914	99.79331924	99.50622695	99.22079974	98.93702305
230315A00024	3/15/2023	4.03	3/15/2028	110.19127	107.8031843	105.479368	103.217669	101.0160268	98.87246436	96.78508449	94.75206551	92.77165781
230315A00030	3/15/2023	4.03	3/15/2028	110.19127	107.8031843	105.479368	103.217669	101.0160268	98.87246436	96.78508449	94.75206551	92.77165781
230315A00055	3/15/2023	4.2	3/11/2026	101.19401	100.9123716	100.6323136	100.3538226	100.0768854	99.80148882	99.52762001	99.25526616	98.98441462
230315A00068	3/15/2023	4.2	3/16/2026	101.25428	100.9586367	100.6647349	100.3725582	100.0820914	99.79331924	99.50622695	99.22079974	98.93702305
230315A00084	3/15/2023	4.08	3/24/2027	105.80599	104.4573141	103.1345235	101.8368957	100.5637359	99.31437531	98.08816935	96.88449701	95.70275954
230315A00098	3/15/2023	4.08	3/15/2027	105.69021	104.3630151	103.0638761	101.7919094	100.5462648	99.32612746	98.13071653	96.95928318	95.811109
230315A00116	3/15/2023	4.36	3/16/2026	101.30139	101.0056624	100.7116736	100.4194103	100.1288573	99.83999928	99.55282149	99.26730915	98.9834477
230315A00117	3/15/2023	4.17	3/15/2027	105.80785	104.4798373	103.1799016	101.9071519	100.6607374	99.43984322	98.24368796	97.07152248	95.92262803
230315A00125	3/15/2023	4.11	3/15/2027	105.72943	104.4019559	103.1025512	101.8303236	100.5844224	99.36403272	98.16837367	96.99669628	95.84828201
230315A00131	3/15/2023	4.13	3/15/2027	105.75557	104.4279164	103.1283347	101.855933	100.6098607	99.38930289	98.19347843	97.02163835	95.87306402
230316A00001	3/16/2023	3.81	3/16/2028	109.86027	107.4698872	105.1439803	102.880395	100.6770642	98.53200466	96.44331248	94.40915971	92.42779053
230316A00017	3/16/2023	3.81	3/16/2028	109.86027	107.4698872	105.1439803	102.880395	100.6770642	98.53200466	96.44331248	94.40915971	92.42779053
230316A00032	3/16/2023	4.39	3/16/2026	101.31023	101.0144797	100.7204746	100.4281951	100.1376259	99.84875179	99.56155797	99.27602967	98.99215232

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230316A00046	3/16/2023	4.18	6/16/2026	102.35297	101.7985713	101.2501923	100.7077363	100.1711076	99.64021242	99.11495894	98.59525738	98.08101984
230316A00047	3/16/2023	4.07	9/16/2027	108.0214	106.1670307	104.3537911	102.5804714	100.8459035	99.14896348	97.48856937	95.86367914	94.27328897
230316A00048	3/16/2023	4.05	6/16/2028	111.37874	108.7128221	106.1254426	103.6138156	101.1752687	98.80724178	96.50728096	94.27303374	92.10224399
230316A00055	3/16/2023	4.03	3/16/2028	110.20337	107.8123676	105.4857677	103.2214232	101.0172713	98.87133251	96.78170707	94.74657054	92.76417049
230316A00060	3/16/2023	3.89	3/16/2027	105.54789	104.2179013	102.9157698	101.6406205	100.3916185	99.16796351	97.96888821	96.7936564	95.64156148
230316A00067	3/16/2023	3.89	3/16/2027	105.54789	104.2179013	102.9157698	101.6406205	100.3916185	99.16796351	97.96888821	96.7936564	95.64156148
230316A00072	3/16/2023	4.1	3/16/2027	105.72927	104.399509	103.097566	101.8225749	100.573702	99.3501488	98.15114917	96.97596825	95.82390067
230316A00076	3/16/2023	4.45	3/16/2026	101.32789	101.0321143	100.7380767	100.4457647	100.1551631	99.8662568	99.57903092	99.2934707	99.00956156
230316A00078	3/16/2023	4.34	3/16/2027	106.04363	104.7116952	103.407619	102.1305311	100.8795972	99.65401736	98.45302475	97.27588352	96.12188741
230316A00082	3/16/2023	4.3	3/16/2028	110.8332	108.4347459	106.1008567	103.8293763	101.6182372	99.46545578	97.36912792	95.32742517	93.33859119
230316A00113	3/16/2023	4.28	3/16/2026	101.29855	101.0025936	100.7083859	100.4159075	100.1251433	99.83607796	99.54869654	99.26298422	98.97892638
230317A00015	3/17/2023	4.13	3/17/2028	110.44903	108.0523345	105.7202447	103.4506054	101.2413498	99.09049467	96.99613581	94.95644458	92.96966425
230317A00016	3/17/2023	4.22	3/17/2027	105.89971	104.5664654	103.2608242	101.9819295	100.7289646	99.50114623	98.29772299	97.11797356	95.96120529
230317A00025	3/17/2023	4.35	3/17/2026	101.31092	101.0123901	100.7156354	100.4206381	100.1273827	99.8358537	99.54603567	99.25791352	98.9714723
230317A00026	3/17/2023	4.22	3/17/2027	105.89971	104.5664654	103.2608242	101.9819295	100.7289646	99.50114623	98.29772299	97.11797356	95.96120529
230317A00047	3/17/2023	4.1	3/17/2028	110.25712	107.8651548	105.5376333	103.2724083	101.0674193	98.92068878	96.83031842	94.79448492	92.81143666
230317A00048	3/17/2023	4.1	3/17/2028	110.25712	107.8651548	105.5376333	103.2724083	101.0674193	98.92068878	96.83031842	94.79448492	92.81143666
230317A00049	3/17/2023	4.1	3/17/2028	110.25712	107.8651548	105.5376333	103.2724083	101.0674193	98.92068878	96.83031842	94.79448492	92.81143666
230317A00050	3/17/2023	4.1	3/17/2028	110.25712	107.8651548	105.5376333	103.2724083	101.0674193	98.92068878	96.83031842	94.79448492	92.81143666
230317A00051	3/17/2023	4.35	3/17/2026	101.31092	101.0123901	100.7156354	100.4206381	100.1273827	99.8358537	99.54603567	99.25791352	98.9714723
230320A00006	3/20/2023	4.25	3/20/2026	101.31777	101.010889	100.7058754	100.4027162	100.1013945	99.80189362	99.50419688	99.20828796	98.91415069
230320A00033	3/20/2023	4.35	3/20/2026	101.34833	101.0413876	100.7363158	100.4330986	100.1317193	99.83216093	99.53440701	99.23844116	98.94424722
230320A00092	3/20/2023	4.31	3/20/2026	101.33611	101.0291882	100.7241396	100.4209457	100.1195894	99.82005401	99.52232296	99.22637988	98.93220861
230321A00002	3/21/2023	4.33	3/19/2027	106.07121	104.732185	103.4202892	102.1347102	100.8746653	99.63940283	98.42820126	97.24036708	96.07523367
230321A00009	3/21/2023	4.27	3/21/2028	110.82712	108.4147861	106.0677074	103.7837149	101.5607305	99.39675841	97.28988179	95.23825871	93.24011877
230321A00053	3/21/2023	4.27	3/21/2028	110.82712	108.4147861	106.0677074	103.7837149	101.5607305	99.39675841	97.28988179	95.23825871	93.24011877
230321A00074	3/21/2023	4.23	3/21/2028	110.73325	108.3220347	105.9760486	103.6931255	101.4711882	99.30824143	97.20236905	95.15172973	93.15455365
230322A00007	3/22/2023	4.54	3/21/2031	125.66058	119.7854754	114.2293987	108.9732568	103.9992017	99.29054098	94.83165668	90.60793085	86.60567622
230322A00009	3/22/2023	4.59	3/22/2032	129.95115	122.8708024	116.2366958	110.0181693	104.1868243	98.71634892	93.58235488	88.76222672	84.23498431
230322A00015	3/22/2023	4.24	3/22/2028	110.76941	108.354978	106.0059194	103.720069	101.4953469	99.32975541	97.22137532	95.16836239	93.16894374
230322A00020	3/22/2023	4.2	3/22/2029	115.50923	111.9765639	108.57262	105.2919901	102.1295295	99.08033744	96.13974471	93.30330088	90.56676284
230323A00028	3/23/2023	4.1	3/23/2028	110.32025	107.9334312	105.6126138	103.3555913	101.1602412	99.02452494	96.94648347	94.92423391	92.95596607
230323A00029	3/23/2023	4.39	3/24/2031	124.87986	119.016778	113.4728043	108.2288221	103.2669585	98.57049738	94.12379894	89.91222482	85.92206888

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230323A00030	3/23/2023	4.72	3/23/2037	148.05391	134.8495452	123.0184964	112.4079715	102.883022	94.32436897	86.62650728	79.69604747	73.45026507
230323A00048	3/23/2023	4.07	3/23/2028	110.38222	107.9696098	105.6224163	103.3384719	101.1156971	98.95209468	96.8457454	94.79480479	92.79749954
230323A00051	3/23/2023	3.85	3/23/2028	110.03635	107.624385	105.2779062	102.994744	100.7728144	98.61011604	96.50472588	94.45479575	92.45854891
230323A00054	3/23/2023	3.95	3/23/2028	110.09994	107.6906994	105.3467986	103.0660774	100.8464582	98.68594581	96.58262289	94.53464682	92.54024607
230323A00056	3/23/2023	4	3/23/2027	105.68678	104.3412342	103.0218051	101.7277491	100.4583544	99.21293591	97.9908343	96.7914144	95.61406427
230323A00058	3/23/2023	3.96	9/23/2027	107.90786	106.0345975	104.2032536	102.4126103	100.6614988	98.94879233	97.27340455	95.63428769	94.03043089
230323A00065	3/23/2023	3.85	3/23/2028	110.03635	107.624385	105.2779062	102.994744	100.7728144	98.61011604	96.50472588	94.45479575	92.45854891
230323A00081	3/23/2023	3.85	3/23/2028	110.03635	107.624385	105.2779062	102.994744	100.7728144	98.61011604	96.50472588	94.45479575	92.45854891
230324A00001	3/24/2023	4.04	6/24/2026	102.36853	101.7917851	101.2215488	100.65771	100.1001613	99.54879782	99.00351684	98.464218	97.93080312
230324A00021	3/24/2023	3.72	3/24/2028	109.41532	107.0806158	104.8103251	102.6022878	100.4544322	98.36476814	96.33138365	94.35244108	92.42617383
230324A00023	3/24/2023	3.69	3/24/2028	109.67103	107.2606436	104.9157874	102.6342938	100.4140795	98.25314303	96.14956128	94.10148574	92.10713906
230324A00032	3/24/2023	3.93	3/24/2028	110.06473	107.653121	105.3069887	103.0241633	100.8025656	98.64019787	96.5351406	94.48554859	92.48964766
230324A00036	3/24/2023	3.98	3/24/2027	105.67278	104.3250354	103.0031631	101.7064379	100.4341655	99.18567736	97.96032945	96.75750111	95.57659397
230324A00050	3/24/2023	4.13	3/24/2026	100.87291	100.6658071	100.4596982	100.2545795	100.0504434	99.84728195	99.6450876	99.44385275	99.24356991
230327A00046	3/27/2023	4.22	3/27/2026	101.39338	101.0668632	100.7424541	100.4201316	100.0998755	99.78166599	99.46548353	99.15130872	98.83912247
230327A00047	3/27/2023	4.08	3/27/2028	110.45474	108.030118	105.6714877	103.3766708	101.1435782	98.97020203	96.85461218	94.79495258	92.7894379
230328A00019	3/28/2023	4.12	3/27/2026	101.38369	101.0569395	100.7322996	100.4097509	100.089273	99.77084614	99.45445052	99.14006673	98.82767559
230328A00020	3/28/2023	3.98	3/28/2028	110.4033	107.9730014	105.6089742	103.3090393	101.0710988	98.89313613	96.77321245	94.70946326	92.70009496
230328A00024	3/28/2023	4.2	3/28/2028	110.75094	108.3199848	105.9552318	103.6545027	101.4157042	99.23682365	97.11592636	95.05115144	93.04070878
230328A00026	3/28/2023	4.34	3/28/2029	115.80464	112.2562089	108.8374255	105.5428572	102.36733	99.30591382	96.35390905	93.5068349	90.76041784
230328A00027	3/28/2023	4.22	3/28/2028	110.6043	108.2122739	105.8866408	103.6251652	101.425703	99.28619489	97.20466275	95.17920552	93.20799598
230328A00028	3/28/2023	4.34	3/27/2026	101.81049	101.3985705	100.9899929	100.5847185	100.1827074	99.78392016	99.38831812	98.99586315	98.60651774
230328A00037	3/28/2023	4.21	3/28/2028	110.80611	108.3637318	105.989487	103.6810828	101.4363147	99.25306547	97.12930134	95.06306784	93.05248641
230328A00045	3/28/2023	4.21	3/28/2028	110.80611	108.3637318	105.989487	103.6810828	101.4363147	99.25306547	97.12930134	95.06306784	93.05248641
230328A00047	3/28/2023	4.21	3/28/2028	110.80611	108.3637318	105.989487	103.6810828	101.4363147	99.25306547	97.12930134	95.06306784	93.05248641
230328A00051	3/28/2023	4.53	3/28/2033	130.2903	122.8151916	115.8625429	109.3922064	103.3673444	97.7541403	92.5215354	87.64098991	83.08626572
230328A00052	3/28/2023	4.53	3/28/2033	130.2903	122.8151916	115.8625429	109.3922064	103.3673444	97.7541403	92.5215354	87.64098991	83.08626572
230328A00098	3/28/2023	4.24	3/29/2027	106.08569	104.7235433	103.3860975	102.0727271	100.782825	99.51580411	98.27109666	97.04815357	95.84644354
230328A00100	3/28/2023	4.19	3/28/2028	110.72728	108.2966056	105.9321301	103.6316728	101.3931402	99.21452012	97.09387788	95.02935279	93.01915488
230328A00111	3/28/2023	4.36	3/27/2026	101.43888	101.112274	100.7877731	100.4653593	100.1450123	99.82671241	99.51043995	99.19617557	98.88390016
230329A00020	3/29/2023	4.23	3/29/2028	110.8346	108.399848	106.0314604	103.727255	101.4851352	99.30308544	97.17916772	95.11151778	93.09834204
230329A00043	3/29/2023	4.36	3/27/2026	101.43888	101.112274	100.7877731	100.4653593	100.1450123	99.82671241	99.51043995	99.19617557	98.88390016
230330A00011	3/30/2023	4.21	3/30/2028	110.79983	108.3627049	105.992073	103.685752	101.4416432	99.25772885	97.13206841	95.06279505	93.04811246

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230330A00062	3/30/2023	4.42	3/30/2026	101.49638	101.1612988	100.8284256	100.4977415	100.1692249	99.84285456	99.51860961	99.19646931	98.87641324
230330A00083	3/30/2023	4.1	3/30/2027	106.00681	104.6413926	103.3004751	101.9834476	100.6897194	99.41871869	98.16989231	96.9427046	95.73663691
230331A00014	3/31/2023	4.34	3/31/2026	101.48216	101.1443176	100.8087218	100.4753491	100.1441774	99.81518506	99.48835066	99.16365306	98.84107137
230331A00033	3/31/2023	4.34	3/31/2026	101.48216	101.1443176	100.8087218	100.4753491	100.1441774	99.81518506	99.48835066	99.16365306	98.84107137
230331A00057	3/31/2023	4.08	3/31/2028	110.50373	108.0673774	105.6975784	103.3921535	101.1490042	98.96611208	96.84153603	94.77340832	92.75993158
230404A00002	4/4/2023	4.1	4/2/2027	105.94896	104.5775318	103.2304943	101.9072514	100.6072254	99.32985675	98.07460367	96.84094112	95.62836031
230405A00010	4/5/2023	3.96	4/6/2026	101.42281	101.0684362	100.7165467	100.3671137	100.0201113	99.67551415	99.33329729	98.99343601	98.65590598
230405A00012	4/5/2023	3.8	4/5/2028	109.89749	107.4541283	105.0779241	102.7666578	100.5182004	98.3305049	96.20160296	94.12960116	92.1126778
230405A00021	4/5/2023	3.96	4/6/2026	101.42281	101.0684362	100.7165467	100.3671137	100.0201113	99.67551415	99.33329729	98.99343601	98.65590598
230405A00022	4/5/2023	3.8	4/5/2028	109.89749	107.4541283	105.0779241	102.7666578	100.5182004	98.3305049	96.20160296	94.12960116	92.1126778
230405A00037	4/5/2023	3.71	4/6/2026	101.35935	101.0048392	100.6528115	100.3032447	99.95611309	99.61139107	99.26905357	98.92907583	98.5914334
230405A00044	4/5/2023	3.8	4/5/2028	109.89749	107.4541283	105.0779241	102.7666578	100.5182004	98.3305049	96.20160296	94.12960116	92.1126778
230405A00046	4/5/2023	3.82	10/5/2027	107.79226	105.886393	104.0238241	102.203312	100.4236624	98.68372255	96.98237945	95.31855829	93.69122084
230405A00049	4/5/2023	3.81	4/5/2028	109.92137	107.4777264	105.1012395	102.7896965	100.5409683	98.35300773	96.22384618	94.15159013	92.13441772
230406A00016	4/6/2023	3.89	4/6/2028	109.67352	107.3293176	105.0503185	102.8343177	100.6791973	98.58292377	96.54354417	94.55918256	92.62803628
230406A00023	4/6/2023	3.84	4/6/2028	110.00488	107.5573628	105.1771776	102.8621011	100.6099964	98.41880913	96.28656384	94.21136042	92.19137082
230406A00026	4/6/2023	3.92	4/6/2027	105.7544	104.3730742	103.0164982	101.6840605	100.375171	99.0892583	97.82576902	96.58416722	95.36393362
230406A00029	4/6/2023	3.84	4/6/2028	110.00488	107.5573628	105.1771776	102.8621011	100.6099964	98.41880913	96.28656384	94.21136042	92.19137082
230406A00039	3/29/2024	3.43	3/31/2026	101.17628	100.8390747	100.5041163	100.1713777	99.84083704	99.51247263	99.18626305	98.8621872	98.54022422
230406A00041	5/31/2024	3.25	5/29/2026	101.67246	101.1701608	100.672818	100.180361	99.69271805	99.20981885	98.7315944	98.25797707	97.78890052
230406A00043	7/31/2024	3.2	7/31/2026	102.2301	101.5508909	100.8806928	100.2193298	99.566628	98.92241818	98.28653544	97.65881912	97.03911269
230406A00044	9/30/2024	3.16	9/30/2026	102.77737	101.9260915	101.0888989	100.2654451	99.455394	98.65842039	97.87420947	97.10245647	96.34286627
230406A00045	4/29/2024	3.41	4/30/2027	105.32093	103.8750671	102.4562365	101.0637423	99.69691398	98.35510322	97.03768314	95.74404737	94.47360922
230406A00046	6/28/2024	3.35	6/30/2027	105.88591	104.2662116	102.679433	101.1246425	99.60093974	98.10745789	96.64336214	95.20784814	93.80014064
230406A00047	8/30/2024	3.31	8/31/2027	106.46572	104.6711807	102.915714	101.1981092	99.51720654	97.87189454	96.26110686	94.68382019	93.13905198
230406A00049	10/31/2024	3.29	10/29/2027	107.04113	105.0766661	103.1582569	101.2845441	99.45421864	97.66601846	95.91872661	94.2111692	92.54221367
230406A00050	4/6/2023	3.67	4/6/2027	105.51011	104.1289859	102.7726325	101.4404368	100.1318076	98.84617271	97.58297813	96.34168715	95.12177982
230406A00052	4/6/2023	4.02	4/6/2026	101.44398	101.0895588	100.7376239	100.3881455	100.0410981	99.69645614	99.35419469	99.01428905	98.67671488
230406A00105	4/6/2023	3.84	4/6/2028	109.88038	107.4369105	105.0606252	102.7493042	100.5008166	98.3131139	96.1842261	94.11225832	92.09538746
230410A00011	4/10/2023	4.08	4/9/2027	106.01199	104.6203358	103.2537513	101.9116131	100.5933203	99.29829103	98.02596217	96.77578823	95.54724085
230410A00012	4/10/2023	3.98	4/10/2028	110.38865	107.9250159	105.5294237	103.199614	100.9334187	98.72875405	96.58361642	94.49607911	92.46428879
230411A00054	4/11/2023	3.74	4/11/2028	109.99904	107.5336878	105.1365888	102.805478	100.5381759	98.33258773	96.18669985	94.09857585	92.06635327
230412A00005	4/12/2023	4.16	4/10/2026	101.54118	101.1754386	100.8123413	100.4518608	100.0939687	99.73863708	99.38583838	99.03554548	98.68773166

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230412A00006	4/12/2023	4.04	4/12/2027	105.99523	104.5952244	103.2205698	101.8706379	100.5448177	99.24251789	97.96316622	96.70620843	95.47110779
230412A00007	4/12/2023	3.95	4/12/2028	110.34088	107.8720934	105.47164	103.1372462	100.86673	98.6579944	96.50902358	94.41787901	92.3826962
230412A00028	4/12/2023	3.69	4/12/2028	109.89031	107.4234105	105.0248927	102.6924802	100.4239872	98.21731309	96.07043841	93.98142151	91.9483949
230412A00031	4/12/2023	3.91	4/10/2026	101.47575	101.1098626	100.7466243	100.3860075	100.0279838	99.67252517	99.31960391	98.96919281	98.62126504
230412A00033	4/12/2023	4.04	4/12/2027	105.99523	104.5952244	103.2205698	101.8706379	100.5448177	99.24251789	97.96316622	96.70620843	95.47110779
230412A00038	4/12/2023	3.69	4/12/2028	109.89031	107.4234105	105.0248927	102.6924802	100.4239872	98.21731309	96.07043841	93.98142151	91.9483949
230413A00017	4/13/2023	3.88	4/13/2028	110.18426	107.7145155	105.3132168	102.9780823	100.7069242	98.49763994	96.34820835	94.25668592	92.22120345
230413A00018	4/13/2023	3.96	4/13/2027	105.89697	104.4948528	103.1181713	101.7662937	100.4386058	99.13451355	97.85344181	96.59483372	95.35815
230413A00020	4/13/2023	3.88	4/13/2028	110.18426	107.7145155	105.3132168	102.9780823	100.7069242	98.49763994	96.34820835	94.25668592	92.22120345
230413A00021	4/13/2023	4.07	4/13/2026	101.54354	101.1694509	100.7981321	100.429551	100.0636771	99.70048066	99.33993217	98.98200263	98.62666345
230413A00031	4/13/2023	4.07	4/13/2026	101.54354	101.1694509	100.7981321	100.429551	100.0636771	99.70048066	99.33993217	98.98200263	98.62666345
230413A00082	4/13/2023	4.01	4/13/2027	105.96637	104.5637432	103.1865652	101.8341994	100.5060317	99.20146762	97.91993182	96.66086726	95.42373444
230417A00023	4/17/2023	3.86	4/7/2028	110.23947	107.782672	105.3935841	103.0699671	100.8096682	98.61061762	96.47082557	94.38837816	92.36143426
230417A00037	4/17/2023	4.39	4/16/2026	101.70025	101.3174615	100.9375705	100.5605412	100.1863413	99.81493878	99.44630235	99.08040101	98.71720426
230417A00044	4/17/2023	4.32	4/17/2026	101.686	101.3004666	100.9178668	100.5381697	100.1613421	99.78735145	99.41616573	99.04775331	98.68208305
230417A00045	4/17/2023	4.21	4/16/2027	106.28369	104.8702652	103.4826146	102.1200955	100.7820824	99.46797007	98.17717299	96.90912423	95.66327487
230417A00046	4/17/2023	4.13	4/17/2028	110.83768	108.3484664	105.9284814	103.5754099	101.2870304	99.06120827	96.89589202	94.78910934	92.73896364
230417A00085	4/17/2023	4.68	4/17/2026	101.16117	100.9143713	100.6690027	100.4250531	100.182509	99.941357	99.701584	99.46317702	99.22612326
230418A00035	4/18/2023	4.13	4/18/2028	105.68623	104.392414	103.1268385	101.8886416	100.6769995	99.49111996	98.33024151	97.19363141	96.08058461
230418A00059	4/18/2023	4.09	4/17/2026	101.62497	101.2392621	100.8564973	100.4766405	100.0996585	99.72551843	99.35418824	98.98563615	98.61983094
230419A00030	4/19/2023	4.39	4/20/2026	101.75061	101.3565753	100.9656003	100.5776529	100.1926979	99.8107006	99.43162696	99.05544337	98.68211675
230419A00035	4/19/2023	4.16	4/19/2028	110.93584	108.4396712	106.013063	103.6536855	101.3593021	99.12776368	96.95700522	94.84504145	92.78996352
230420A00024	4/20/2023	4.31	4/20/2026	101.71928	101.3253123	100.9344105	100.5465359	100.1616533	99.77972805	99.40072602	99.02461363	98.65135782
230420A00056	4/20/2023	4.38	4/20/2033	132.41711	124.0937422	116.3729548	109.2076005	102.5544607	96.37389888	90.62954673	85.28801886	80.31865396
230420A00059	4/20/2023	4.72	4/20/2038	150.78167	136.3032198	123.4518457	112.0322058	101.8735128	92.826325	84.75977397	77.55916467	71.12389669
230420A00060	4/20/2023	4.72	4/20/2038	150.78167	136.3032198	123.4518457	112.0322058	101.8735128	92.826325	84.75977397	77.55916467	71.12389669
230420A00063	4/20/2023	4.65	4/20/2037	147.44946	134.1981236	122.3343271	111.7027381	102.1662625	93.60381661	85.90838016	78.98529432	72.75077368
230420A00071	4/20/2023	4.31	4/20/2026	101.71928	101.3253123	100.9344105	100.5465359	100.1616533	99.77972805	99.40072602	99.02461363	98.65135782
230421A00006	4/21/2023	4.04	4/21/2028	110.66931	108.1706675	105.7418218	103.3804301	101.0842431	98.8511004	96.67892567	94.56572326	92.50957444
230421A00020	4/21/2023	4.23	4/21/2026	101.70009	101.3033838	100.9097851	100.519255	100.1317576	99.74725751	99.36572001	98.98711082	98.61139623
230421A00025	4/21/2023	4.04	4/21/2028	110.66931	108.1706675	105.7418218	103.3804301	101.0842431	98.8511004	96.67892567	94.56572326	92.50957444
230421A00041	4/21/2023	4.22	4/21/2027	106.29174	104.8652556	103.4649963	102.0903028	100.7405339	99.4150693	98.11330884	96.83467175	95.57859579
230421A00043	4/21/2023	4.1	4/21/2028	110.81532	108.3148815	105.8842778	103.5211658	101.2232955	98.98850519	96.81471751	94.6999358	92.64224037

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230421A00044	4/21/2023	4.13	10/21/2027	108.57389	106.6162888	104.7040534	102.8358621	101.010438	99.22654978	97.48300965	95.77867132	94.11242848
230421A00062	4/21/2023	4.33	4/21/2028	105.95223	104.6360207	103.3486665	102.0892877	100.8570412	99.65111635	98.47073378	97.31514369	96.18362454
230421A00064	4/21/2023	4.1	4/21/2028	110.81532	108.3148815	105.8842778	103.5211658	101.2232955	98.98850519	96.81471751	94.6999358	92.64224037
230424A00003	4/24/2023	4.15	4/26/2027	106.33074	104.8886347	103.4732914	102.0840303	100.7201913	99.38113613	98.06624759	96.77492845	95.50660075
230424A00005	4/24/2023	4.08	4/24/2028	110.80422	108.295288	105.8566522	103.485945	101.1808946	98.93931863	96.75912047	94.63828493	92.57487485
230424A00012	4/24/2023	4.28	4/24/2026	101.75667	101.351477	100.9495169	100.5507522	100.1551446	99.76265674	99.37325178	98.98689341	98.6035459
230424A00026	4/24/2023	4.28	4/24/2026	101.75667	101.351477	100.9495169	100.5507522	100.1551446	99.76265674	99.37325178	98.98689341	98.6035459
230424A00064	4/24/2023	4.28	4/24/2026	101.75667	101.351477	100.9495169	100.5507522	100.1551446	99.76265674	99.37325178	98.98689341	98.6035459
230425A00006	4/25/2023	3.89	4/24/2026	101.6281	101.2228849	100.8209104	100.4221359	100.0265233	99.63403502	99.24463399	98.85828383	98.47494871
230425A00029	4/25/2023	4.14	4/24/2026	101.70028	101.2952177	100.8933928	100.4947624	100.0992884	99.70693346	99.31766059	98.93143356	98.54821664
230425A00030	4/25/2023	4.01	4/26/2027	106.13136	104.6907363	103.2768544	101.8890297	100.5266027	99.18893598	97.87541276	96.58543648	95.3184298
230425A00031	4/25/2023	3.69	4/25/2028	110.04171	107.535637	105.0999829	102.7323713	100.4305214	98.19224237	96.01542969	93.89806076	91.83819142
230425A00032	4/25/2023	3.95	4/25/2028	110.49893	107.9908946	105.5532288	103.1835585	100.879607	98.63918752	96.46019889	94.34062197	92.27851575
230425A00040	4/25/2023	3.89	4/24/2026	101.6281	101.2228849	100.8209104	100.4221359	100.0265233	99.63403502	99.24463399	98.85828383	98.47494871
230425A00045	4/25/2023	3.95	4/25/2028	110.49893	107.9908946	105.5532288	103.1835585	100.879607	98.63918752	96.46019889	94.34062197	92.27851575
230425A00047	4/25/2023	4.01	4/26/2027	106.13136	104.6907363	103.2768544	101.8890297	100.5266027	99.18893598	97.87541276	96.58543648	95.3184298
230425A00050	4/25/2023	4.14	4/24/2026	101.70028	101.2952177	100.8933928	100.4947624	100.0992884	99.70693346	99.31766059	98.93143356	98.54821664
230425A00052	4/25/2023	4.01	4/26/2027	106.13136	104.6907363	103.2768544	101.8890297	100.5266027	99.18893598	97.87541276	96.58543648	95.3184298
230425A00053	4/25/2023	4.14	4/24/2026	101.70028	101.2952177	100.8933928	100.4947624	100.0992884	99.70693346	99.31766059	98.93143356	98.54821664
230425A00104	4/25/2023	3.86	7/15/2026	102.54266	101.9062974	101.2778459	100.6571624	100.0441032	99.43852812	98.84030034	98.24928649	97.66535635
230426A00003	4/26/2023	3.89	5/9/2028	110.5165	107.9689094	105.4938564	103.0888617	100.7515441	98.47961803	96.27088891	94.12324915	92.034674
230426A00004	4/26/2023	3.89	5/9/2028	110.5165	107.9689094	105.4938564	103.0888617	100.7515441	98.47961803	96.27088891	94.12324915	92.034674
230426A00005	4/26/2023	3.91	6/13/2028	110.97977	108.3276922	105.7536098	103.2547555	100.8284821	98.47225292	96.18363651	93.9603014	91.80001139
230426A00006	4/26/2023	3.91	6/13/2028	110.97977	108.3276922	105.7536098	103.2547555	100.8284821	98.47225292	96.18363651	93.9603014	91.80001139
230426A00007	4/26/2023	3.92	7/11/2028	111.34065	108.6041655	105.9498812	103.3748124	100.8761021	98.45101661	96.09693884	93.81136274	91.59188764
230426A00008	4/26/2023	3.92	7/11/2028	111.34065	108.6041655	105.9498812	103.3748124	100.8761021	98.45101661	96.09693884	93.81136274	91.59188764
230426A00009	4/26/2023	3.94	8/8/2028	111.72285	108.9030014	106.1697093	103.5197536	100.9500554	98.45767281	96.03979304	93.69372617	91.41689856
230426A00010	4/26/2023	3.94	8/8/2028	111.72285	108.9030014	106.1697093	103.5197536	100.9500554	98.45767281	96.03979304	93.69372617	91.41689856
230426A00011	4/26/2023	3.96	9/12/2028	112.19227	109.2669259	106.4338864	103.6896767	101.0309729	98.45459822	95.95751535	93.53681927	91.1897305
230426A00012	4/26/2023	3.96	9/12/2028	112.19227	109.2669259	106.4338864	103.6896767	101.0309729	98.45459822	95.95751535	93.53681927	91.1897305
230426A00013	4/26/2023	3.98	10/10/2028	112.58218	109.571259	106.6575867	103.8374977	101.1074879	98.46420429	95.90443666	93.42511123	91.0232839
230426A00014	4/26/2023	3.98	10/10/2028	112.58218	109.571259	106.6575867	103.8374977	101.1074879	98.46420429	95.90443666	93.42511123	91.0232839
230426A00025	4/26/2023	3.62	4/26/2028	109.88188	107.3749151	104.9384796	102.5701918	100.2677647	98.02900185	95.85179321	93.73411115	91.67400671

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230426A00033	4/26/2023	3.88	4/26/2028	110.33976	107.8308242	105.3923673	103.0220111	100.7174727	98.47655962	96.29716543	94.17726585	92.11491507
230426A00036	4/26/2023	4.06	4/27/2026	101.70308	101.289655	100.879597	100.4728609	100.0694062	99.66919349	99.27218366	98.87833838	98.48761991
230426A00037	4/26/2023	3.94	4/26/2027	106.03166	104.5917871	103.178636	101.7915294	100.4298085	99.0928359	97.77999534	96.4906905	95.22434433
230426A00040	4/26/2023	3.9	4/26/2028	110.38871	107.879169	105.4401194	103.0691833	100.7640776	98.52260929	96.34267157	94.22223984	92.15936797
230426A00046	4/26/2023	3.95	4/26/2028	110.51109	108.0000308	105.5594996	103.187114	100.8805899	98.63773347	96.45643691	94.33467481	92.27050021
230426A00049	4/26/2023	4.13	4/27/2026	101.73186	101.3183655	100.9082372	100.5014311	100.0979069	99.6976251	99.30054657	98.906633	98.51584663
230426A00062	4/26/2023	4.13	4/27/2026	101.73186	101.3183655	100.9082372	100.5014311	100.0979069	99.6976251	99.30054657	98.906633	98.51584663
230426A00064	6/15/2023	3.87	6/15/2028	110.90047	108.2436744	105.6651337	103.1620716	100.7318271	98.37185079	96.07969912	93.85302934	91.68959454
230426A00065	6/15/2023	3.87	6/15/2028	110.90047	108.2436744	105.6651337	103.1620716	100.7318271	98.37185079	96.07969912	93.85302934	91.68959454
230426A00142	4/26/2023	4.51	4/27/2026	101.14269	100.890901	100.6406169	100.391827	100.1445165	99.89867082	99.65427564	99.41131674	99.16978013
230427A00066	4/27/2023	4.07	4/27/2027	106.22967	104.7854817	103.3681446	101.9769722	100.6113015	99.27049107	97.95392085	96.66099085	95.3911205
230427A00077	4/27/2023	4.14	10/27/2026	103.94062	103.0083045	102.0927425	101.1934884	100.3101086	99.44218519	98.5893146	97.75110727	96.92718698
230428A00017	4/28/2023	4.17	4/28/2026	101.76028	101.3439365	100.9309957	100.5214201	100.1151689	99.71220169	99.31247869	98.91596088	98.52260982
230428A00018	4/28/2023	3.99	4/28/2028	110.63353	108.1152103	105.6677565	103.2887749	100.9759655	98.72711984	96.54011611	94.41291558	92.34355868
230428A00029	4/28/2023	4.23	4/28/2026	101.78512	101.3687114	100.9557095	100.5460732	100.1397617	99.7367344	99.33695175	98.94037463	98.5469646
230428A00050	4/28/2023	4.31	4/28/2028	105.82765	104.5331954	103.2669889	102.0281747	100.8159281	99.62945654	98.46799777	97.33081855	96.21721325
230501A00011	5/1/2023	4.09	4/26/2027	106.24529	104.8038211	103.3891041	102.0004586	100.6372248	99.29876463	97.98446123	96.69371761	95.42595606
230501A00012	5/1/2023	3.98	5/1/2028	110.64533	108.1183347	105.6626755	103.2759328	100.9557847	98.7000014	96.50644125	94.37304662	92.29784006
230502A00038	5/2/2023	3.86	5/2/2028	110.36145	107.835215	105.3803934	102.9945596	100.6753864	98.42063918	96.22817167	94.09592194	92.02190848
230502A00052	5/2/2023	3.96	5/3/2027	106.14675	104.686482	103.2536536	101.8475564	100.467506	99.11284088	97.7829214	96.47712906	95.19486554
230502A00055	5/2/2023	4.08	5/4/2026	101.79349	101.3603778	100.9309512	100.5051671	100.0829791	99.66434173	99.24921029	98.83754082	98.42929006
230502A00076	5/2/2023	3.95	5/3/2027	106.13231	104.6721539	103.2394327	101.8334408	100.4534939	99.09893058	97.76911119	96.46341729	95.1812506
230502A00079	5/2/2023	3.6	5/2/2028	109.90044	107.3762149	104.9234524	102.5397251	100.2227017	97.97014347	95.77990057	93.64990759	91.57817981
230502A00081	5/2/2023	3.96	5/3/2027	106.14675	104.686482	103.2536536	101.8475564	100.467506	99.11284088	97.7829214	96.47712906	95.19486554
230502A00122	5/2/2023	3.7	5/3/2027	105.87482	104.4149277	102.9824951	101.5768137	100.197198	98.84298557	97.51353587	96.20822959	94.92646761
230503A00004	5/3/2023	3.94	5/3/2027	106.11788	104.6578258	103.2252117	101.8193252	100.4394819	99.08502028	97.75530098	96.44970552	95.16763566
230503A00012	5/3/2023	3.82	5/3/2028	110.27427	107.7463485	105.2899722	102.9027072	100.5822193	98.32626765	96.13269984	93.99944824	91.92452595
230503A00014	5/3/2023	3.94	5/3/2027	106.11788	104.6578258	103.2252117	101.8193252	100.4394819	99.08502028	97.75530098	96.44970552	95.16763566
230503A00020	5/3/2023	3.84	5/3/2028	110.32361	107.795076	105.3380978	102.950244	100.6291801	98.37266467	96.17854509	94.04475335	91.9693022
230503A00025	5/3/2023	3.84	5/3/2028	110.32361	107.795076	105.3380978	102.950244	100.6291801	98.37266467	96.17854509	94.04475335	91.9693022
230503A00029	5/3/2023	4.08	5/4/2026	101.79349	101.3603778	100.9309512	100.5051671	100.0829791	99.66434173	99.24921029	98.83754082	98.42929006
230503A00030	5/3/2023	3.84	5/3/2028	110.32361	107.795076	105.3380978	102.950244	100.6291801	98.37266467	96.17854509	94.04475335	91.9693022
230503A00032	5/3/2023	4.08	5/1/2026	101.75824	101.333549	100.9123983	100.4947464	100.0805496	99.66976522	99.2623513	98.85826645	98.45747001

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230503A00034	5/3/2023	3.84	5/3/2028	110.32361	107.795076	105.3380978	102.950244	100.6291801	98.37266467	96.17854509	94.04475335	91.9693022
230503A00072	5/3/2023	3.83	5/4/2026	101.71634	101.2830646	100.8534852	100.4275543	100.0052256	99.58645324	99.17119253	98.75939931	98.35103019
230504A00006	5/4/2023	3.79	12/6/2027	108.45944	106.3732717	104.3383568	102.3531063	100.4159911	98.52554018	96.68033812	94.87902232	93.12028072
230504A00007	5/4/2023	3.82	7/6/2027	106.71153	105.0684855	103.4590452	101.8822482	100.3371675	98.82291068	97.33861888	95.88346484	94.45665157
230504A00011	5/4/2023	3.7	5/4/2026	101.66035	101.227218	100.7977808	100.3719912	99.94980283	99.53117009	99.11604811	98.70439276	98.29616068
230504A00019	5/4/2023	3.95	5/4/2026	101.73751	101.304541	100.8752565	100.4496136	100.0275659	99.60906797	99.19407513	98.78254342	98.37442958
230504A00020	5/4/2023	3.83	5/4/2027	105.97083	104.5091612	103.0750075	101.6676596	100.2864299	98.93065401	97.59968946	96.29291512	95.00973011
230504A00021	5/4/2023	3.76	5/4/2028	110.13746	107.6084807	105.1511579	102.7630565	100.4418361	98.18524973	95.99113935	93.85743194	91.78213556
230504A00034	5/4/2023	3.95	5/4/2026	101.73751	101.304541	100.8752565	100.4496136	100.0275659	99.60906797	99.19407513	98.78254342	98.37442958
230504A00041	5/4/2023	3.95	5/4/2026	101.73751	101.304541	100.8752565	100.4496136	100.0275659	99.60906797	99.19407513	98.78254342	98.37442958
230504A00042	5/4/2023	3.83	5/4/2027	105.97083	104.5091612	103.0750075	101.6676596	100.2864299	98.93065401	97.59968946	96.29291512	95.00973011
230504A00043	5/4/2023	3.76	5/4/2028	110.13746	107.6084807	105.1511579	102.7630565	100.4418361	98.18524973	95.99113935	93.85743194	91.78213556
230504A00049	5/4/2023	3.95	5/4/2026	101.73751	101.304541	100.8752565	100.4496136	100.0275659	99.60906797	99.19407513	98.78254342	98.37442958
230504A00054	5/4/2023	3.95	5/4/2026	101.73751	101.304541	100.8752565	100.4496136	100.0275659	99.60906797	99.19407513	98.78254342	98.37442958
230504A00057	5/4/2023	3.86	5/4/2026	101.69876	101.2658848	100.8366987	100.4111534	99.98920288	99.57080152	99.15590464	98.74446829	98.33644925
230504A00058	5/4/2023	3.69	5/4/2028	109.96457	107.4377432	104.9825315	102.5964953	100.2772955	98.02268631	95.83051117	93.69869823	91.62525672
230504A00059	5/4/2023	4.34	5/4/2026	101.24266	100.9587903	100.6768193	100.3967292	100.1184995	99.84210986	99.56754046	99.29477165	99.0237841
230504A00069	5/4/2023	3.82	5/4/2026	101.68153	101.2487043	100.8195618	100.3940601	99.97215266	99.5537942	99.13893997	98.72754601	98.31956911
230504A00084	5/4/2023	3.5	5/4/2028	109.6752	107.1482416	104.6929955	102.3070183	99.98796541	97.73358571	95.54171754	93.41028442	91.33729114
230505A00002	5/5/2023	4.01	5/5/2026	101.77491	101.3390601	100.9069515	100.478533	100.0537574	99.63257836	99.21495022	98.80082812	98.39016798
230505A00005	5/5/2023	3.99	5/5/2026	101.76624	101.3304145	100.898328	100.4699314	100.0451777	99.62402033	99.20641375	98.79231308	98.38167424
230505A00014	5/5/2023	3.59	5/5/2028	109.90865	107.3759999	104.9152821	102.5240425	100.1999271	97.94067583	95.74411863	93.60817094	91.5308299
230505A00016	5/5/2023	3.85	5/5/2028	110.37124	107.8365608	105.373765	102.9803998	100.6541153	98.3926555	96.19385404	94.05562983	91.9759833
230505A00022	5/5/2023	3.85	5/5/2028	110.37124	107.8365608	105.373765	102.9803998	100.6541153	98.3926555	96.19385404	94.05562983	91.9759833
230505A00027	5/5/2023	4.01	5/5/2026	101.77491	101.3390601	100.9069515	100.478533	100.0537574	99.63257836	99.21495022	98.80082812	98.39016798
230505A00035	5/5/2023	3.9	5/5/2027	106.08405	104.618787	103.181159	101.7704484	100.3859635	99.02703589	97.69301955	96.3832897	95.09724203
230505A00071	5/5/2023	3.85	5/5/2028	110.37124	107.8365608	105.373765	102.9803998	100.6541153	98.3926555	96.19385404	94.05562983	91.9759833
230508A00007	5/8/2023	3.92	5/8/2028	110.57935	108.0337425	105.5605395	103.1572641	100.8215423	98.55109502	96.34373413	94.19735792	92.10994728
230508A00016	5/8/2023	4.14	5/8/2026	101.867	101.4225775	100.9820422	100.5453434	100.1124313	99.68325641	99.25777049	98.83592594	98.41767604
230508A00017	5/8/2023	4.01	5/10/2027	106.30481	104.8241919	103.3717414	101.9467246	100.5484304	99.17617194	97.8292854	96.5071291	95.20908257
230508A00018	5/8/2023	3.92	5/8/2028	110.57935	108.0337425	105.5605395	103.1572641	100.8215423	98.55109502	96.34373413	94.19735792	92.10994728
230509A00010	5/9/2023	4.14	5/8/2026	101.867	101.4225775	100.9820422	100.5453434	100.1124313	99.68325641	99.25777049	98.83592594	98.41767604
230509A00036	5/9/2023	4.02	5/10/2027	106.31944	104.8387124	103.3861521	101.9610272	100.5626269	99.19026403	97.84327485	96.52101761	95.22287178

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230509A00060	5/9/2023	3.92	5/9/2028	110.59102	108.0424927	105.5665251	103.1606357	100.8224429	98.54966037	96.34009308	94.19163287	92.10225447
230509A00118	5/9/2023	4.12	5/8/2026	101.85817	101.4137659	100.9732534	100.5365774	100.1036878	99.67453537	99.24907172	98.82724931	98.40902142
230510A00009	5/10/2023	4.07	5/11/2026	101.87125	101.4184728	100.9697332	100.5249768	100.0841505	99.64720212	99.21408058	98.78473557	98.35911769
230510A00014	5/10/2023	4.07	5/11/2026	101.87125	101.4184728	100.9697332	100.5249768	100.0841505	99.64720212	99.21408058	98.78473557	98.35911769
230510A00018	11/10/2023	3.61	11/10/2026	103.60928	102.6394157	101.68773	100.753712	99.83687236	98.93673995	98.05286059	97.18479647	96.33212541
230510A00037	5/10/2023	3.84	5/10/2028	110.40375	107.8548017	105.3785134	102.9724007	100.6340758	98.3612467	96.151713	94.00336148	91.91416211
230510A00057	5/10/2023	3.98	5/11/2026	101.83074	101.3780739	100.9294406	100.4847898	100.0440685	99.60722439	99.17420648	98.74496444	98.3194489
230510A00062	8/10/2023	3.78	8/10/2026	102.73221	102.0232612	101.32411	100.6345552	99.95439957	99.28345177	98.62152539	97.96843909	97.32401635
230511A00023	5/11/2023	3.95	5/19/2026	101.9086	101.433461	100.9627639	100.4964477	100.0344512	99.57671445	99.12317856	98.67378572	98.22847917
230511A00032	5/11/2023	3.7	5/11/2026	101.73657	101.2837731	100.8350197	100.390255	99.94942589	99.51248013	99.07936636	98.65003416	98.22443396
230511A00036	5/11/2023	3.79	5/19/2027	106.0878	104.5842182	103.1096963	101.6634668	100.2447854	98.85293337	97.4872165	96.14696409	94.83152794
230511A00038	5/11/2023	3.95	5/11/2026	101.81724	101.3646076	100.9160098	100.4713942	100.0307078	99.59389848	99.16091511	98.7317074	98.30622596
230511A00039	5/11/2023	3.86	11/27/2026	104.05198	103.0320861	102.0322145	101.0517765	100.0902091	99.14697082	98.22154076	97.31341766	96.42211885
230511A00042	5/11/2023	3.72	5/11/2028	110.11646	107.5683431	105.0929693	102.6878413	100.3505662	98.07884709	95.87047886	93.72334397	91.63540834
230511A00043	5/11/2023	3.72	5/16/2028	110.17203	107.6093512	105.1202116	102.702073	100.3525037	98.06917027	95.84983323	93.69234235	91.59463267
230511A00044	5/11/2023	3.79	5/11/2027	105.99455	104.5135712	103.0608193	101.6355589	100.2370763	98.86468197	97.51770981	96.19551581	94.89747732
230511A00046	5/11/2023	3.95	5/11/2026	101.81724	101.3646076	100.9160098	100.4713942	100.0307078	99.59389848	99.16091511	98.7317074	98.30622596
230511A00050	5/11/2023	3.98	5/11/2026	101.83074	101.3780739	100.9294406	100.4847898	100.0440685	99.60722439	99.17420648	98.74496444	98.3194489
230511A00069	5/11/2023	3.98	5/12/2026	101.84222	101.386736	100.9353417	100.4879792	100.0445944	99.60513421	99.16954659	98.7377803	98.30978507
230511A00080	5/11/2023	3.49	5/11/2028	109.72522	107.1782359	104.7040643	102.3002068	99.96426531	97.69393838	95.48701657	93.34137822	91.2549854
230512A00008	5/12/2023	3.75	5/12/2026	101.77011	101.3144371	100.862863	100.4153273	99.971776	99.53215577	99.09641434	98.66450035	98.23636335
230512A00010	5/12/2023	3.75	5/12/2026	101.77011	101.3144371	100.862863	100.4153273	99.971776	99.53215577	99.09641434	98.66450035	98.23636335
230512A00011	5/12/2023	3.78	5/12/2028	110.27711	107.7242041	105.2442366	102.834706	100.4932105	98.21744454	96.00519524	93.85433738	91.76282969
230512A00026	5/12/2023	4	5/12/2026	101.85127	101.3957688	100.9443507	100.4969644	100.053556	99.61407242	99.17846151	98.7466721	98.31865387
230512A00033	5/12/2023	3.75	5/12/2026	101.77011	101.3144371	100.862863	100.4153273	99.971776	99.53215577	99.09641434	98.66450035	98.23636335
230512A00037	5/12/2023	3.86	5/12/2027	106.10903	104.6244322	103.1681854	101.7395431	100.3377873	98.96222474	97.61218529	96.28702138	94.98610687
230512A00042	5/12/2023	4	5/12/2026	101.85127	101.3957688	100.9443507	100.4969644	100.053556	99.61407242	99.17846151	98.7466721	98.31865387
230515A00011	5/15/2023	4.11	5/15/2026	101.93682	101.4727396	101.012896	100.5572341	100.1056969	99.65822814	99.21477301	98.77527745	98.33968843
230515A00045	5/15/2023	4.08	5/15/2026	101.92299	101.4589414	100.9991349	100.5435098	100.0920091	99.64457672	99.20115769	98.761698	98.32614461
230515A00074	5/15/2023	4.11	5/15/2026	101.93682	101.4727396	101.012896	100.5572341	100.1056969	99.65822814	99.21477301	98.77527745	98.33968843
230515A00078	5/15/2023	3.96	5/17/2027	106.31656	104.81668	103.3456863	101.9028171	100.4873349	99.09852728	97.73570637	96.39820738	95.08538775
230515A00080	5/15/2023	3.88	5/15/2028	110.56103	107.9962186	105.5048908	103.0845214	100.7326828	98.44704607	96.2253754	94.06552426	91.96543105
230516A00013	5/16/2023	4.11	5/15/2026	101.93682	101.4727396	101.012896	100.5572341	100.1056969	99.65822814	99.21477301	98.77527745	98.33968843

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230516A00035	5/16/2023	4.11	5/15/2026	101.93682	101.4727396	101.012896	100.5572341	100.1056969	99.65822814	99.21477301	98.77527745	98.33968843
230516A00036	5/16/2023	4	5/17/2027	106.37587	104.8755321	103.4040875	101.9607752	100.5448573	99.15562155	97.79237963	96.45446662	95.14123977
230516A00037	5/16/2023	3.91	5/16/2028	110.6477	108.079014	105.5839931	103.1601024	100.8049064	98.5160679	96.29134369	94.12858012	92.02570886
230516A00069	5/16/2023	4.1	5/15/2026	101.93221	101.4681402	101.008309	100.5526594	100.1011343	99.65367767	99.21023457	98.77075097	98.33517382
230517A00014	5/17/2023	4.14	5/18/2026	101.98642	101.5138483	101.0456719	100.5818277	100.1222555	99.66689628	99.21569215	98.76858624	98.32552272
230517A00048	5/17/2023	4.17	5/15/2026	101.96449	101.5003359	101.0404183	100.5846828	100.1330723	99.68553097	99.24200365	98.80243636	98.36677606
230518A00017	5/18/2023	4.28	5/18/2026	102.05215	101.579401	101.1110459	100.6470241	100.1872755	99.73174104	99.28036282	98.83308395	98.3898486
230518A00019	5/18/2023	3.81	5/18/2028	110.60363	108.0260888	105.5227067	103.0909174	100.728262	98.4323811	96.20101075	94.03197746	91.9231942
230519A00027	5/19/2023	4.39	5/19/2026	102.11641	101.6407005	101.1694352	100.7025547	100.2399976	99.78170399	99.32761491	98.87767251	98.43182
230519A00029	5/19/2023	4.39	5/19/2026	102.11641	101.6407005	101.1694352	100.7025547	100.2399976	99.78170399	99.32761491	98.87767251	98.43182
230519A00030	5/19/2023	4.27	5/19/2027	106.80222	105.2930829	103.8131103	102.3615244	100.9375783	99.5405509	98.1697455	96.82448912	95.50413136
230519A00038	5/19/2023	3.92	5/19/2028	110.89177	108.3077873	105.7981996	103.360433	100.9920184	98.69058682	96.45386516	94.27967127	92.16590991
230519A00041	5/19/2023	3.92	5/19/2028	110.89177	108.3077873	105.7981996	103.360433	100.9920184	98.69058682	96.45386516	94.27967127	92.16590991
230522A00026	5/22/2023	4.35	5/22/2026	102.13503	101.6509069	101.1713833	100.6963962	100.2258814	99.75977559	99.29801703	98.84054488	98.38729952
230522A00043	5/22/2023	4.17	5/16/2028	111.29863	108.7217105	106.2186414	103.7868796	101.4239839	99.12761202	96.89551591	94.72553708	92.61560261
230522A00046	5/22/2023	4.17	5/22/2028	111.37289	108.7782858	106.2585042	103.8109462	101.4331238	99.12265036	96.8772357	94.69468171	92.57287792
230522A00093	5/22/2023	4.17	5/22/2028	111.37289	108.7782858	106.2585042	103.8109462	101.4331238	99.12265036	96.8772357	94.69468171	92.57287792
230523A00008	5/23/2023	4.44	5/26/2026	102.22931	101.7337595	101.243024	100.757031	100.2757119	99.79899941	99.32682752	98.8591315	98.39584782
230523A00024	5/23/2023	4.06	5/24/2027	106.65969	105.1361609	103.6423493	102.1774638	100.7407364	99.33142602	97.94881687	96.59221774	95.2609608
230523A00048	5/23/2023	4.44	5/26/2026	102.22931	101.7337595	101.243024	100.757031	100.2757119	99.79899941	99.32682752	98.8591315	98.39584782
230523A00049	5/23/2023	4.31	5/24/2027	106.9273	105.4034457	103.909292	102.4440406	101.0069248	99.59720436	98.21416477	96.85711579	95.52539055
230523A00083	5/23/2023	4.21	5/23/2028	111.48619	108.8873551	106.3635295	103.9121086	101.5305957	99.21659569	96.96781078	94.78203539	92.65715203
230523A00085	5/23/2023	4.39	5/23/2029	116.69356	112.9684392	109.3851041	105.9373765	102.6193822	99.42553437	96.35051771	93.38927386	90.53698739
230523A00086	5/23/2023	4.42	5/23/2030	121.44837	116.5652146	111.9119655	107.4765372	103.2475468	99.21426686	95.36658392	91.69496008	88.19039725
230523A00088	5/23/2023	4.59	5/23/2033	134.32609	125.8367521	117.9675666	110.6695184	103.8977231	97.61105644	91.77182039	86.34544098	81.30019427
230523A00089	5/23/2023	4.65	5/23/2034	138.39933	128.6745378	119.740753	111.5286747	103.9754337	97.02396759	90.62245543	84.72381128	79.2852284
230523A00090	5/23/2023	4.71	5/23/2035	142.39893	131.4255802	121.4337905	112.3292698	104.0272847	96.45164717	89.5338106	83.21206649	77.43082894
230523A00091	5/23/2023	4.77	5/23/2036	146.26721	134.0375968	122.9990533	113.0272453	104.0114968	95.85322052	88.46453881	81.76706746	75.69084389
230524A00009	5/24/2023	3.9	5/24/2028	110.90064	108.3025921	105.7797324	103.3294458	100.9492244	98.6366624	96.38945184	94.2053777	92.0823136
230524A00028	5/24/2023	4.36	5/26/2026	102.18997	101.6945317	101.2039078	100.7180257	100.2368166	99.76021345	99.28815013	98.82056194	98.35738536
230524A00038	5/24/2023	4.36	5/26/2026	102.18997	101.6945317	101.2039078	100.7180257	100.2368166	99.76021345	99.28815013	98.82056194	98.35738536
230525A00094	5/25/2023	4.31	5/25/2028	111.76404	109.156078	106.6235157	104.1637351	101.7742214	99.45256293	97.19644551	95.0036484	92.87203968
230526A00013	5/26/2023	4.39	5/26/2026	102.2393	101.7433042	101.2521349	100.7657174	100.283983	99.80686407	99.33429443	98.86620912	98.40254442

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230526A00016	5/26/2023	4.46	5/26/2027	107.1797	105.6483656	104.1469709	102.674713	101.2308164	99.81453259	98.42513906	97.06193796	95.72425517
230526A00033	5/26/2023	4.63	5/27/2031	126.91738	120.8115889	115.0474583	109.6039503	104.4614365	99.60159252	95.00730461	90.66258338	86.55248433
230526A00034	5/26/2023	4.66	5/26/2032	131.08745	123.7798261	116.9441528	110.5472257	104.5583457	98.94912054	93.69328004	88.76650681	84.14628147
230530A00027	5/30/2023	4.22	5/30/2028	111.59904	108.9792043	106.4355209	103.9653272	101.5660705	99.23530329	96.97067776	94.76994128	92.63093183
230530A00045	5/30/2023	4.56	5/29/2026	102.71869	102.1295079	101.5471049	100.9713681	100.4021833	99.83943889	99.28302596	98.73283792	98.1887706
230530A00048	5/30/2023	4.45	5/29/2026	102.27257	101.7685277	101.2694541	100.7752786	100.2859293	99.80133568	99.32142874	98.84614065	98.37540491
230530A00054	5/30/2023	4.56	5/29/2026	102.71869	102.1295079	101.5471049	100.9713681	100.4021833	99.83943889	99.28302596	98.73283792	98.1887706
230530A00055	5/30/2023	4.56	5/29/2026	102.71869	102.1295079	101.5471049	100.9713681	100.4021833	99.83943889	99.28302596	98.73283792	98.1887706
230530A00118	5/30/2023	4.4	5/28/2027	107.11595	105.5796102	104.0734109	102.5965412	101.1482178	99.72768514	98.33421369	96.96709901	95.62566064
230530A00171	5/30/2023	4.43	5/29/2026	102.26257	101.7585549	101.2595101	100.7653633	100.2760424	99.79147707	99.31159817	98.83633792	98.36562984
230531A00037	5/31/2023	4.41	5/29/2026	102.25257	101.7485821	101.2495662	100.755448	100.2661555	99.78161846	99.3017676	98.82653519	98.35585477
230531A00038	5/31/2023	4.01	5/28/2027	106.63444	105.1001048	103.5959032	102.1210267	100.6746917	99.25614217	97.86464817	96.49950495	95.16003173
230531A00042	5/31/2023	4.01	5/28/2027	106.63444	105.1001048	103.5959032	102.1210267	100.6746917	99.25614217	97.86464817	96.49950495	95.16003173
230531A00060	5/31/2023	4.44	2/27/2026	101.10873	100.8605535	100.6135937	100.3678419	100.1232891	99.87992658	99.6377458	99.39673813	99.15689509
230531A00061	5/31/2023	4.42	4/1/2026	101.52172	101.1810242	100.8426091	100.5064561	100.1725426	99.8408462	99.511345	99.18401723	98.85884144
230531A00062	5/31/2023	4.39	4/30/2026	101.87654	101.4543233	101.0356064	100.6203425	100.208489	99.80000413	99.39484669	98.99297619	98.59435276
230531A00063	5/31/2023	4.37	5/29/2026	102.23257	101.7286366	101.2296783	100.7356174	100.2463818	99.76190123	99.28210645	98.80692974	98.33630462
230531A00090	5/31/2023	4.41	6/1/2026	102.29051	101.7780493	101.2707234	100.7684561	100.2711722	99.77879768	99.29126012	98.80848848	98.33041311
230531A00091	5/31/2023	4.26	6/1/2027	106.95644	105.4102655	103.8946103	102.4086481	100.951581	99.52263921	98.12107977	96.74618544	95.39726353
230531A00099	5/31/2023	4.41	5/29/2026	102.25257	101.7485821	101.2495662	100.755448	100.2661555	99.78161846	99.3017676	98.82653519	98.35585477
230601A00025	6/1/2023	4.12	6/1/2028	111.36969	108.7471231	106.2009461	103.7284805	101.3271607	98.99452703	96.7282202	94.52597681	92.38562469
230602A00012	6/2/2023	4.39	6/2/2026	102.29289	101.7776359	101.26758	100.7626394	100.2627373	99.76779849	99.27774937	98.79251765	98.31203252
230602A00020	6/2/2023	3.94	6/2/2028	111.11019	108.4841372	105.9347301	103.4592805	101.0552094	98.72004405	96.45141325	94.24704219	92.10474798
230602A00027	6/2/2023	4.2	6/2/2026	102.23168	101.7161768	101.2058765	100.7007	100.2005701	99.70541169	99.21515068	98.72971465	98.24903258
230602A00030	6/2/2023	4.2	6/2/2026	102.23168	101.7161768	101.2058765	100.7007	100.2005701	99.70541169	99.21515068	98.72971465	98.24903258
230602A00051	6/2/2023	4.33	6/2/2038	127.07671	119.9138277	113.33201	107.2758925	101.6959464	96.54781767	91.79174429	87.39204261	83.31665497
230605A00022	6/5/2023	4.39	6/4/2027	107.19612	105.6395152	104.1137213	102.6179007	101.1512437	99.71296966	98.30232498	96.91858245	95.56103993
230606A00008	6/6/2023	3.98	6/6/2028	111.26241	108.6228422	106.0605426	103.5727857	101.1569625	98.81057269	96.53121854	94.31660046	92.16451216
230606A00014	6/6/2023	4.35	6/7/2027	107.17595	105.6109726	104.0770683	102.5733835	101.0990979	99.65342045	98.23558808	96.84486435	95.48053841
230606A00015	6/6/2023	4.24	6/6/2028	111.74063	109.0988664	106.534309	104.0442433	101.6260652	99.27727876	96.99549041	94.77840448	92.62381831
230606A00029	6/6/2023	4.45	6/5/2026	102.36169	101.8378878	101.3194573	100.806314	100.298377	99.7955673	99.29780742	98.80502145	98.31713497
230607A00007	6/7/2023	4.24	6/7/2028	111.75366	109.108839	106.5413733	104.0485386	101.6277238	99.27642602	96.99224547	94.77288036	92.61612237
230607A00020	6/7/2023	4.28	6/7/2028	111.82309	109.1805605	106.6163724	104.1277054	101.7118577	99.36624308	97.08838514	94.87591169	92.7265497

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230607A00038	6/7/2023	4.58	6/5/2026	102.42923	101.9052264	101.3865951	100.8732523	100.3651173	99.8621111	99.3641561	98.87117641	98.3830976
230608A00003	6/8/2023	4.23	6/8/2028	111.74101	109.0934638	106.5234144	104.0281283	101.6049875	99.2514825	96.96520727	94.74385423	92.58520954
230608A00049	6/8/2023	4.47	6/8/2026	102.41038	101.8780787	101.3513279	100.830037	100.3141213	99.80349758	99.2980847	98.79780298	98.30257439
230609A00026	6/9/2023	4.11	6/9/2027	106.94345	105.3728015	103.8334303	102.3244766	100.8451112	99.39453478	97.97197642	96.57669225	95.20796436
230609A00027	6/9/2023	3.99	6/9/2028	111.3257	108.6766471	106.1053123	103.6089464	101.1849188	98.83070825	96.54389773	94.32216928	92.16329931
230609A00034	6/9/2023	3.99	6/9/2028	111.3257	108.6766471	106.1053123	103.6089464	101.1849188	98.83070825	96.54389773	94.32216928	92.16329931
230609A00039	6/9/2023	4.73	12/10/2025	100.13289	100.1050645	100.0772673	100.0495012	100.0217662	99.99406217	99.96638914	99.938747	99.91113571
230609A00040	6/9/2023	4.38	5/12/2027	106.87282	105.3823622	103.9203584	102.4860582	101.0787412	99.69771127	98.34229593	97.01184514	95.70573044
230609A00041	6/9/2023	4.53	7/13/2026	102.89496	102.26349	101.6397906	101.0237216	100.4151434	99.81391953	99.21991705	98.63300607	98.05305985
230609A00042	6/9/2023	4.46	11/25/2026	104.62845	103.6110774	102.6135487	101.6352886	100.6757417	99.73437429	98.81067239	97.90414142	97.01430511
230609A00043	6/9/2023	4.32	9/29/2027	108.65202	106.7545361	104.8997957	103.0865783	101.3137096	99.58005619	97.88452366	96.22605521	94.60362996
230609A00076	7/10/2023	4.19	7/10/2028	112.04653	109.3033833	106.642509	104.0609203	101.5557614	99.12429922	96.76391749	94.47211061	92.24647826
230612A00023	6/12/2023	4.32	6/12/2026	102.41852	101.8745979	101.3364667	100.8040375	100.2772196	99.75592451	99.24006539	98.72955732	98.22431713
230613A00015	6/13/2023	4.73	6/13/2033	119.09354	114.8608967	110.8507066	107.0489385	103.4425636	100.0194748	96.76841446	93.6789094	90.74121019
230613A00019	6/13/2023	4.49	6/15/2026	102.51069	101.9585783	101.4124353	100.8721605	100.3376596	99.80883992	99.28561115	98.7678847	98.25557386
230613A00021	6/13/2023	4.35	6/14/2027	107.27197	105.6863029	104.1323342	102.609185	101.116009	99.65199073	98.21634373	96.80830954	95.42715633
230613A00034	6/13/2023	4.56	6/12/2026	102.50995	101.9662063	101.4282479	100.8959827	100.3693205	99.84817298	99.33245353	98.82207749	98.3169619
230613A00061	6/13/2023	4.56	6/15/2026	102.549	101.9967722	101.4505103	100.9101175	100.3754995	99.84656362	99.32321952	98.80537859	98.29295415
230613A00091	6/13/2023	4.58	6/15/2026	102.55995	102.0076848	101.4613889	100.9209624	100.3863109	99.85734182	99.33396477	98.81609114	98.30363423
230614A00001	6/14/2023	4.55	6/12/2026	102.50456	101.960833	101.422891	100.8906422	100.3639963	99.8428649	99.32716148	98.81680135	98.31170154
230614A00029	6/14/2023	4.55	6/15/2026	102.54353	101.9913159	101.445071	100.9046951	100.3700938	99.84117452	99.31784689	98.80002232	98.28761411
230614A00038	6/14/2023	4.3	6/15/2026	102.44522	101.8928471	101.346446	100.8059226	100.2711823	99.7421322	99.21868169	98.70074192	98.18822598
230614A00048	6/14/2023	4.55	6/15/2026	102.54353	101.9913159	101.445071	100.9046951	100.3700938	99.84117452	99.31784689	98.80002232	98.28761411
230615A00023	6/15/2023	4.58	6/15/2026	102.55995	102.0076848	101.4613889	100.9209624	100.3863109	99.85734182	99.33396477	98.81609114	98.30363423
230615A00026	6/15/2023	4.84	6/15/2038	152.67197	137.922915	124.846087	113.238778	102.9240109	93.74714967	85.57296713	78.28311192	71.77391741
230615A00033	6/15/2023	4.58	6/15/2026	102.55995	102.0076848	101.4613889	100.9209624	100.3863109	99.85734182	99.33396477	98.81609114	98.30363423
230615A00039	6/15/2023	4.16	6/15/2027	107.10124	105.5122226	103.9550372	102.4287965	100.9326487	99.46577297	98.02737813	96.61670102	95.23300542
230615A00044	6/15/2023	4.33	6/15/2026	102.46165	101.9092194	101.3627673	100.8221934	100.2874028	99.75830284	99.23480285	98.71681399	98.2042493
230616A00012	6/16/2023	4.41	6/16/2026	102.51824	101.9628482	101.4134898	100.8700695	100.3324912	99.80066086	99.27448634	98.75387752	98.2387462
230616A00037	6/16/2023	4.48	6/16/2027	107.50305	105.9098119	104.3484773	102.8181636	101.3180165	99.84721238	98.40495757	96.99048648	95.6030606
230616A00038	6/16/2023	4.32	6/16/2028	112.07816	109.4031054	106.806798	104.2864437	101.8393641	99.46299293	97.1548707	94.91263941	92.73403767
230616A00040	6/16/2023	4.66	6/16/2026	102.61703	102.0617988	101.5125966	100.9693239	100.4318846	99.90018501	99.37413325	98.85363945	98.33861561
230616A00106	6/16/2023	4.61	6/16/2026	102.58952	102.0343793	101.4852628	100.9420752	100.4047203	99.87310453	99.34713593	98.82672465	98.31178272

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230620A00035	6/20/2023	4.36	6/20/2030	121.51555	116.5485145	111.8187199	107.3135128	103.0209885	98.92993808	95.02980427	91.31063957	87.76306788
230620A00065	6/20/2023	4.56	6/18/2026	102.58805	102.0273331	101.4727634	100.9242402	100.3816647	99.84494026	99.31397242	98.7886687	98.26893858
230620A00091	6/20/2023	4.56	6/22/2026	102.64012	102.0680733	101.5024199	100.9430515	100.3898636	99.842754	99.30162263	98.76637176	98.23690571
230621A00016	6/21/2023	4.55	6/22/2026	102.63445	102.0624236	101.4967884	100.937438	100.384268	99.83717608	99.2960623	98.76082887	98.23138014
230621A00022	6/21/2023	4.24	6/21/2028	111.93609	109.248419	106.6401875	104.1085569	101.6508138	99.26435917	96.94670266	94.69545722	92.50833409
230621A00041	6/21/2023	4.24	6/21/2028	111.93609	109.248419	106.6401875	104.1085569	101.6508138	99.26435917	96.94670266	94.69545722	92.50833409
230621A00047	6/21/2023	4.44	6/21/2028	106.49949	105.1126181	103.7573327	102.4326482	101.1376182	99.87133334	98.63291993	97.42153791	96.23637936
230621A00048	6/21/2023	4.55	6/22/2026	102.63445	102.0624236	101.4967884	100.937438	100.384268	99.83717608	99.2960623	98.76082887	98.23138014
230622A00004	6/22/2023	4.23	6/22/2027	107.30594	105.6952866	104.1171137	102.5705111	101.0546004	99.56853533	98.11150059	96.68271021	95.28140627
230622A00005	6/22/2023	4.05	6/22/2028	111.64543	108.9545907	106.3434511	103.8091593	101.3489879	98.96032476	96.64066696	94.38761583	92.19887164
230622A00019	6/22/2023	4.33	6/22/2028	111.85033	109.2266313	106.6811357	104.2109987	101.8134969	99.48602514	97.22609038	95.03130607	92.8993867
230622A00027	6/22/2023	4.49	6/22/2026	102.60044	102.0285256	101.4629993	100.903757	100.3506942	99.80370857	99.2627003	98.72757156	98.19822671
230622A00028	6/22/2023	4.35	6/22/2027	107.38173	105.7723782	104.1954483	102.6500334	101.1352571	99.65027536	98.19427492	96.76647167	95.36610951
230622A00030	6/22/2023	4.17	6/22/2028	111.76661	109.0782769	106.4694741	103.9373612	101.4792191	99.09244343	96.77453873	94.52311326	92.33587386
230622A00039	6/26/2023	4.49	6/26/2026	102.65173	102.0684836	101.4918708	100.9217831	100.3581099	99.80074327	99.24957778	98.7045102	98.16543962
230622A00047	6/22/2023	4.49	6/22/2026	102.60044	102.0285256	101.4629993	100.903757	100.3506942	99.80370857	99.2627003	98.72757156	98.19822671
230622A00049	6/22/2023	4.71	12/17/2025	100.22118	100.1738817	100.1266417	100.0794637	100.0323476	99.98529338	99.93830077	99.89136971	99.84450006
230622A00056	6/26/2023	4.49	6/26/2026	102.65173	102.0684836	101.4918708	100.9217831	100.3581099	99.80074327	99.24957778	98.7045102	98.16543962
230622A00083	6/22/2023	4.55	6/22/2026	102.63445	102.0624236	101.4967884	100.937438	100.384268	99.83717608	99.2960623	98.76082887	98.23138014
230622A00093	6/22/2023	4.55	6/22/2026	102.63445	102.0624236	101.4967884	100.937438	100.384268	99.83717608	99.2960623	98.76082887	98.23138014
230622A00095	6/22/2023	4.38	6/22/2027	107.42923	105.8194855	104.242172	102.6963801	101.1812335	99.69588786	98.23952971	96.81137481	95.4106669
230622A00096	6/22/2023	4.21	6/22/2028	111.8709	109.1811966	106.5710544	104.0376323	101.5782104	99.19018322	96.8710546	94.61843192	92.43002121
230623A00002	6/23/2023	4.45	6/23/2026	102.59048	102.0158068	101.4475829	100.8857024	100.3300593	99.78055004	99.23707329	98.69952992	98.16782299
230623A00003	6/23/2023	4.29	6/23/2027	107.30029	105.6887568	104.1097245	102.5622812	101.0455472	99.55867521	98.10084891	96.67128129	95.26921351
230623A00004	6/23/2023	4.13	6/23/2028	111.67504	108.9850239	106.3746524	103.8410826	101.3815887	98.99356046	96.67449662	94.42200012	92.23377279
230623A00025	6/23/2023	4.45	6/23/2026	102.59048	102.0158068	101.4475829	100.8857024	100.3300593	99.78055004	99.23707329	98.69952992	98.16782299
230623A00026	6/23/2023	4.29	6/23/2027	107.30029	105.6887568	104.1097245	102.5622812	101.0455472	99.55867521	98.10084891	96.67128129	95.26921351
230623A00027	6/23/2023	4.13	6/23/2028	111.67504	108.9850239	106.3746524	103.8410826	101.3815887	98.99356046	96.67449662	94.42200012	92.23377279
230623A00036	6/23/2023	4.45	6/23/2026	102.59048	102.0158068	101.4475829	100.8857024	100.3300593	99.78055004	99.23707329	98.69952992	98.16782299
230623A00037	6/23/2023	4.13	6/23/2028	111.67504	108.9850239	106.3746524	103.8410826	101.3815887	98.99356046	96.67449662	94.42200012	92.23377279
230623A00051	6/23/2023	4.18	6/23/2028	111.80555	109.11381	106.5017608	103.9665511	101.5054541	99.11585832	96.79526146	94.54126542	92.35157103
230623A00053	6/23/2023	4.4	6/23/2026	102.60215	102.0269401	101.4581945	100.8958045	100.3396637	99.78966833	99.24571661	98.70770916	98.17554876
230623A00056	6/23/2023	4.18	6/23/2028	111.80555	109.11381	106.5017608	103.9665511	101.5054541	99.11585832	96.79526146	94.54126542	92.35157103

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230623A00057	6/23/2023	4.52	6/23/2026	102.63035	102.0555478	101.4871956	100.9251878	100.3694186	99.81978409	99.2761831	98.73851646	98.20668721
230623A00058	6/23/2023	4.38	6/23/2027	107.44304	105.8303262	104.2501389	102.7015609	101.1837121	99.69574465	98.23684157	96.80621543	95.4031069
230626A00020	6/26/2023	4.49	6/26/2026	102.65173	102.0684836	101.4918708	100.9217831	100.3581099	99.80074327	99.24957778	98.7045102	98.16543962
230626A00021	6/26/2023	4.49	6/26/2026	102.65173	102.0684836	101.4918708	100.9217831	100.3581099	99.80074327	99.24957778	98.7045102	98.16543962
230626A00022	6/26/2023	4.34	6/25/2027	107.40698	105.788867	104.2034476	102.6498042	101.1270494	99.63432828	98.17081745	96.73572318	95.32828019
230626A00023	6/26/2023	4.18	6/26/2028	111.84414	109.1432173	106.522431	103.9789111	101.5099086	99.11279107	96.78503656	94.52422837	92.32804985
230627A00004	6/27/2023	4.47	6/29/2026	102.67848	102.0867604	101.5018667	100.92368	100.3520855	99.78697075	99.22822606	98.6757441	98.12941997
230627A00005	6/27/2023	4.3	6/28/2027	107.38407	105.7575866	104.1640673	102.6025798	101.0722253	99.57213846	98.10148571	96.65946383	95.24529854
230627A00006	6/27/2023	4.12	6/27/2028	111.69973	108.9978204	106.3761509	103.8318447	101.3621465	98.96441827	96.6361328	94.37486846	92.17830393
230627A00030	6/27/2023	4.17	6/27/2028	111.83079	109.1271526	106.5037913	103.9578315	101.4865169	99.08720828	96.75737729	94.49460128	92.29655793
230627A00035	6/27/2023	4.21	6/27/2028	111.93565	109.2306185	106.6059037	104.058621	101.5860133	99.18544029	96.85437289	94.59038754	92.39116112
230627A00036	6/27/2023	4.38	6/28/2027	107.51207	105.884525	104.2899613	102.7274479	101.1960854	99.69500802	98.22338177	96.78040294	95.36529681
230627A00037	6/27/2023	4.56	6/26/2026	102.69219	102.1088046	101.5320599	100.9618412	100.3980382	99.84054288	99.28924965	98.74405534	98.20485903
230627A00090	6/27/2023	4.21	6/27/2028	111.93565	109.2306185	106.6059037	104.058621	101.5860133	99.18544029	96.85437289	94.59038754	92.39116112
230628A00016	6/28/2023	4.58	6/26/2026	102.70375	102.1203248	101.5435425	100.9732864	100.4094463	99.8519142	99.30058447	98.75535395	98.21612172
230628A00017	6/28/2023	4.41	6/28/2027	107.56007	105.9321269	104.3371716	102.7742734	101.2425329	99.74108411	98.26909279	96.8257551	95.41029617
230628A00018	6/28/2023	4.23	6/28/2028	112.00108	109.2922893	106.6639805	104.113262	101.6373689	99.23365328	96.89957911	94.63271616	92.43073504
230628A00028	6/28/2023	4.58	6/24/2026	102.6776	102.0998498	101.5286148	100.9637852	100.4052537	99.85291515	99.30666681	98.76640821	98.23204105
230628A00038	6/28/2023	4.58	6/24/2026	102.6776	102.0998498	101.5286148	100.9637852	100.4052537	99.85291515	99.30666681	98.76640821	98.23204105
230628A00045	6/28/2023	4.18	6/28/2028	111.86987	109.1628205	106.5362071	103.9871456	101.5128722	99.11074031	96.7782148	94.51286656	92.31236724
230628A00061	6/28/2023	4.47	6/26/2026	102.64018	102.0569633	101.4803883	100.9103379	100.3467018	99.78937196	99.23824296	98.69321159	98.15417693
230628A00063	6/28/2023	4.47	6/29/2026	102.67848	102.0867604	101.5018667	100.92368	100.3520855	99.78697075	99.22822606	98.6757441	98.12941997
230628A00068	6/28/2023	4.29	6/28/2027	107.36807	105.7417193	104.1483306	102.5869713	101.0567428	99.55677976	98.0862487	96.64434644	95.23029875
230629A00008	6/29/2023	4.34	6/29/2028	112.30304	109.5873586	106.9523942	104.3952482	101.9131452	99.50342803	97.16355147	94.89107676	92.68366643
230629A00019	6/29/2023	4.51	6/24/2027	107.66339	106.0460127	104.4612772	102.9082683	101.3861014	99.89392421	98.43091565	96.99628434	95.58926717
230629A00025	6/29/2023	4.7	6/24/2026	102.74628	102.1683086	101.5968516	101.0318019	100.473052	99.92049678	99.37403348	98.83356159	98.29898281
230629A00037	6/29/2023	4.69	6/29/2026	102.80745	102.215306	101.6299858	101.0513762	100.4793621	99.91383129	99.35467386	98.80178249	98.25505222
230629A00042	6/29/2023	4.69	6/29/2026	102.80745	102.215306	101.6299858	101.0513762	100.4793621	99.91383129	99.35467386	98.80178249	98.25505222
230629A00045	6/29/2023	4.69	6/29/2026	102.80745	102.215306	101.6299858	101.0513762	100.4793621	99.91383129	99.35467386	98.80178249	98.25505222
230629A00046	6/29/2023	4.51	6/29/2027	107.73425	106.101996	104.5028525	102.935878	101.4001687	99.89485415	98.41909625	96.97208728	95.55304872
230629A00071	6/29/2023	4.41	6/29/2028	112.55706	109.8198569	107.1653774	104.5905772	102.0925483	99.66850987	97.31580231	95.03188039	92.81430775
230629A00072	6/29/2023	4.69	6/29/2026	102.80745	102.215306	101.6299858	101.0513762	100.4793621	99.91383128	99.35467386	98.80178249	98.25505222
230629A00076	6/29/2023	4.51	6/29/2027	107.73425	106.101996	104.5028525	102.935878	101.4001687	99.89485415	98.41909625	96.97208728	95.55304872

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230629A00094	6/29/2023	4.41	6/29/2028	112.55706	109.8198569	107.1653774	104.5905772	102.0925483	99.66850987	97.31580231	95.03188039	92.81430775
230629A00097	6/29/2023	4.41	6/29/2028	112.55706	109.8198569	107.1653774	104.5905772	102.0925483	99.66850987	97.31580231	95.03188039	92.81430775
230630A00003	6/30/2023	4.54	6/30/2027	107.79659	106.1609586	104.5585375	102.9883814	101.4495824	99.94126624	98.46259117	97.01274604	95.59094907
230630A00028	6/30/2023	4.42	6/30/2027	107.71999	106.0830359	104.4793462	102.9079785	101.3680225	99.85860195	98.37887282	96.92802206	95.50526601
230630A00030	6/30/2023	4.23	6/30/2028	112.22099	109.4993344	106.8587271	104.2962503	101.8091128	99.39464183	97.05027787	94.77356856	92.56216358
230630A00043	6/30/2023	4.6	6/30/2026	102.8094	102.2139318	101.6253675	101.0435871	100.4684739	99.89991361	99.33779471	98.78200815	98.23244732
230630A00046	6/30/2023	4.6	6/30/2026	102.8094	102.2139318	101.6253675	101.0435871	100.4684739	99.89991361	99.33779471	98.78200815	98.23244732
230630A00055	6/30/2023	4.35	6/30/2028	112.34265	109.6235445	106.9853136	104.4250522	101.9399775	99.52742472	97.18484196	94.90978397	92.69990718
230630A00062	6/30/2023	4.6	6/30/2026	102.8094	102.2139318	101.6253675	101.0435871	100.4684739	99.89991361	99.33779471	98.78200815	98.23244732
230630A00079	6/30/2023	4.65	6/30/2026	102.79727	102.2023624	101.6143426	101.0330939	100.4584998	99.89044648	99.32882265	98.77351959	98.22443103
230630A00086	6/30/2023	4.72	6/30/2026	102.8385	102.2434565	101.6552998	101.0739153	100.4991864	99.93099947	99.36924309	98.81380858	98.26458961
230630A00088	6/30/2023	4.54	6/30/2027	107.79659	106.1609586	104.5585375	102.9883814	101.4495824	99.94126624	98.46259117	97.01274604	95.59094907
230630A00094	6/30/2023	4.42	6/30/2027	107.71999	106.0830359	104.4793462	102.9079785	101.3680225	99.85860195	98.37887282	96.92802206	95.50526601
230703A00013	7/3/2023	4.34	7/3/2028	112.355	109.6273334	106.9809887	104.413037	101.9206728	99.50121001	97.15207668	94.87080872	92.6550448
230703A00015	7/3/2023	4.34	7/3/2028	112.355	109.6273334	106.9809887	104.413037	101.9206728	99.50121001	97.15207668	94.87080872	92.6550448
230703A00018	7/3/2023	4.61	7/3/2026	102.8554	102.2514085	101.6545275	101.0646274	100.4815862	99.90528465	99.33560619	98.77243698	98.21566579
230703A00019	7/3/2023	4.61	7/3/2026	102.8554	102.2514085	101.6545275	101.0646274	100.4815862	99.90528465	99.33560619	98.77243698	98.21566579
230703A00025	7/3/2023	4.73	7/3/2026	102.88492	102.2813564	101.6848895	101.0953915	100.5127406	99.93681794	99.36750734	98.80469526	98.24827077
230703A00029	7/3/2023	4.89	2/3/2026	100.88528	100.704118	100.5236121	100.3437561	100.1645466	99.98598001	99.8080529	99.63076183	99.45410339
230703A00043	7/3/2023	4.53	7/6/2027	107.86341	106.2106707	104.5917131	103.0055678	101.451303	99.92802208	98.4348617	96.97099051	95.53560753
230705A00034	7/5/2023	4.75	7/6/2026	102.93755	102.3254534	101.7206501	101.1230141	100.5324182	99.94873833	99.37185336	98.80164487	98.23799725
230705A00040	7/5/2023	4.38	7/5/2028	112.48652	109.7514958	107.0981368	104.5234904	102.0247347	99.5991684	97.24420502	94.95736685	92.73627974
230705A00042	7/5/2023	4.42	7/5/2028	112.59226	109.8558355	107.2011006	104.6251096	102.1250396	99.69818853	97.34196886	95.05390208	92.83161319
230705A00103	7/5/2023	4.56	7/6/2027	107.91208	106.2589321	104.6395723	103.053032	101.4983792	99.97471693	98.48118182	97.0169423	95.58119722
230705A00111	7/5/2023	4.9	1/6/2026	100.49861	100.395654	100.2929165	100.1903989	100.0881006	99.98602086	99.8841589	99.78251401	99.68108548
230706A00006	7/6/2023	4.59	7/6/2028	113.05528	110.3098728	107.6464527	105.0620547	102.553844	100.1191072	97.7552461	95.45977223	93.23030099
230706A00014	7/6/2023	4.99	7/6/2038	154.71906	139.7861965	126.5494369	114.8026359	104.3658999	95.08211032	86.81392622	79.44119434	72.8587109
230707A00021	9/1/2023	4.61	8/30/2030	123.57126	118.3501915	113.3866874	108.6665424	104.1764222	99.90380166	95.83691023	91.96468222	88.2767102
230707A00022	9/1/2023	4.61	8/30/2030	123.57126	118.3501915	113.3866874	108.6665424	104.1764222	99.90380166	95.83691023	91.96468222	88.2767102
230707A00023	9/1/2023	4.61	8/30/2030	123.57126	118.3501915	113.3866874	108.6665424	104.1764222	99.90380166	95.83691023	91.96468222	88.2767102
230707A00031	7/7/2023	4.84	7/7/2026	103.00588	102.390758	101.7830018	101.1824806	100.5890657	100.0026312	99.42305411	98.8502145	98.28399512
230710A00013	7/10/2023	4.55	7/10/2029	117.90446	114.0181426	110.2840291	106.6952839	103.2454173	99.92826835	96.73798611	93.66901217	90.71606408
230711A00013	7/11/2023	4.78	7/13/2026	103.05125	102.4192322	101.7949881	101.1783793	100.5692658	99.96751134	99.37298275	98.78555012	98.20508665

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230712A00002	7/12/2023	4.31	7/12/2028	112.39105	109.6376938	106.9670092	104.3759959	101.8617796	99.42160966	97.05285347	94.75298988	92.51960393
230712A00014	7/12/2023	4.62	7/13/2026	102.95123	102.3195572	101.6956617	101.0793984	100.4706274	99.86921258	99.2750207	98.68792193	98.1077895
230712A00015	7/12/2023	4.62	7/13/2026	102.95123	102.3195572	101.6956617	101.0793984	100.4706274	99.86921258	99.2750207	98.68792193	98.1077895
230712A00016	7/12/2023	4.45	7/12/2027	107.81517	106.1462767	104.5117265	102.9105245	101.341715	99.80437908	98.29763213	96.82062275	95.37253096
230712A00017	7/12/2023	4.45	7/12/2027	107.81517	106.1462767	104.5117265	102.9105245	101.341715	99.80437908	98.29763213	96.82062275	95.37253096
230712A00018	7/12/2023	4.31	7/12/2028	112.39105	109.6376938	106.9670092	104.3759959	101.8617796	99.42160966	97.05285347	94.75298988	92.51960393
230712A00019	7/12/2023	4.31	7/12/2028	112.39105	109.6376938	106.9670092	104.3759959	101.8617796	99.42160966	97.05285347	94.75298988	92.51960393
230712A00020	7/12/2023	4.31	7/12/2028	112.39105	109.6376938	106.9670092	104.3759959	101.8617796	99.42160966	97.05285347	94.75298988	92.51960393
230712A00021	7/12/2023	4.31	7/12/2028	112.39105	109.6376938	106.9670092	104.3759959	101.8617796	99.42160966	97.05285347	94.75298988	92.51960393
230712A00035	1/12/2024	4.36	1/12/2026	100.51728	100.3976677	100.2783508	100.1593329	100.0406128	99.92218931	99.80406137	99.6862278	99.56868743
230712A00039	7/12/2023	4.62	7/13/2026	102.95123	102.3195572	101.6956617	101.0793984	100.4706274	99.86921258	99.2750207	98.68792193	98.1077895
230712A00040	7/12/2023	4.45	7/12/2027	107.81517	106.1462767	104.5117265	102.9105245	101.341715	99.80437908	98.29763213	96.82062275	95.37253096
230712A00041	7/12/2023	4.31	7/12/2028	112.39105	109.6376938	106.9670092	104.3759959	101.8617796	99.42160966	97.05285347	94.75298988	92.51960393
230712A00046	7/12/2023	4.52	7/13/2026	102.88871	102.2572603	101.6335827	101.0175353	100.4089785	99.80777586	99.21379442	98.62690431	98.04697878
230712A00051	7/12/2023	4.62	7/13/2026	102.95123	102.3195572	101.6956617	101.0793984	100.4706274	99.86921258	99.2750207	98.68792193	98.1077895
230712A00056	7/12/2023	4.22	7/12/2028	112.15136	109.4012091	106.7336648	104.1457198	101.6345021	99.1972635	96.83137317	94.53431204	92.30366703
230713A00014	7/13/2023	4.2	7/13/2028	112.11058	109.3581824	106.6885229	104.098592	101.5855103	99.14652272	96.77899217	94.48039352	92.24830806
230713A00019	7/13/2023	4.51	7/13/2026	102.85099	102.2200644	101.5969053	100.9813654	100.3733052	99.77258871	99.17908311	98.59265886	98.01318949
230713A00021	7/13/2023	4.44	7/13/2026	102.8387	102.2074228	101.5839194	100.9680448	100.3596593	99.75862647	99.16481339	98.57809021	97.9983302
230713A00023	7/13/2023	4.2	7/13/2028	112.11058	109.3581824	106.6885229	104.098592	101.5855103	99.14652272	96.77899217	94.48039352	92.24830806
230713A00026	7/13/2023	4.49	7/13/2026	102.86996	102.2385713	101.614959	100.9989764	100.3904838	99.78934484	99.19542654	98.60859902	98.02873556
230713A00031	7/13/2023	4.49	7/13/2026	102.86996	102.2385713	101.614959	100.9989764	100.3904838	99.78934484	99.19542654	98.60859902	98.02873556
230713A00058	7/13/2023	4.08	7/13/2028	111.98695	109.2319645	106.5598958	103.9677211	101.4525521	99.01162561	96.64229651	94.34203235	92.10840742
230714A00020	7/14/2023	4.52	7/14/2026	102.90164	102.2673501	101.6409066	101.0221608	100.410971	99.80719918	99.21071049	98.62137343	98.03905962
230714A00022	7/14/2023	4.36	7/14/2027	107.69433	106.0209461	104.3820753	102.7767168	101.2039075	99.66272103	98.15226631	96.67168553	95.22015268
230714A00023	7/14/2023	4.18	7/14/2028	112.06969	109.3150461	106.6432738	104.0513595	101.5364163	99.09568238	96.72651426	94.42638079	92.19285758
230714A00026	7/14/2023	4.18	7/14/2028	112.06969	109.3150461	106.6432738	104.0513595	101.5364163	99.09568238	96.72651426	94.42638079	92.19285758
230714A00030	7/14/2023	4.52	7/17/2026	102.94041	102.2976159	101.6628723	101.0360293	100.4169397	99.80546003	99.2014502	98.60477365	98.01529711
230714A00034	7/14/2023	4.37	7/16/2027	107.73752	106.0582436	104.4136816	102.802821	101.2246903	99.67835564	98.16291838	96.67751376	95.22130916
230714A00036	7/14/2023	4.37	7/12/2030	121.82781	116.7894041	111.9941696	107.4290061	103.0815893	98.94032371	94.99429562	91.233229	87.64744462
230714A00042	7/14/2023	4.58	7/14/2026	102.93931	102.3048939	101.6783186	101.0594421	100.4481229	99.84422264	99.24760665	98.65814337	98.07570442
230717A00022	7/17/2023	4.59	7/17/2026	102.98495	102.3419969	101.7070956	101.0800964	100.4608519	99.84921874	99.24505673	98.64822932	98.0586032
230717A00088	7/17/2023	4.43	7/19/2027	107.87715	106.1883923	104.5346572	102.9149195	101.3281952	99.77353823	98.25003857	96.75682068	95.29304172

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230718A00013	7/18/2023	4.54	7/17/2026	102.95314	102.3102962	101.6755075	101.0486199	100.4294861	99.81796251	99.21390921	98.61718956	98.02767028
230718A00014	7/18/2023	4.37	7/19/2027	107.77763	106.0897269	104.4368309	102.8179173	101.2320025	99.67814085	98.1554227	96.66297288	95.1999489
230718A00015	7/18/2023	4.19	7/18/2028	112.14624	109.3793637	106.6959861	104.0930573	101.5676589	99.11699957	96.73840791	94.42932664	92.1873068
230718A00016	7/18/2023	4.54	7/17/2026	102.95314	102.3102962	101.6755075	101.0486199	100.4294861	99.81796251	99.21390921	98.61718956	98.02767028
230718A00023	7/18/2023	4.54	7/20/2026	102.99208	102.3407228	101.6976286	101.0626399	100.4356036	99.81637087	99.2047963	98.60073817	98.00405824
230718A00038	7/18/2023	4.46	11/13/2026	104.46513	103.4824045	102.5182294	101.5720825	100.6434607	99.73187946	98.83687212	97.95798878	97.09479579
230718A00065	7/18/2023	4.3	7/18/2033	117.88342	113.6273036	109.5976819	105.7801124	102.1611934	98.7284806	95.47041208	92.37623913	89.43596346
230718A00070	7/18/2023	4.06	7/18/2028	111.99514	109.2260245	106.5405762	103.9357357	101.4085759	98.95629732	96.57622082	94.26578188	92.02252464
230718A00093	7/18/2023	4.06	7/18/2028	111.99514	109.2260245	106.5405762	103.9357357	101.4085759	98.95629732	96.57622082	94.26578188	92.02252464
230719A00015	7/19/2023	4.37	7/19/2027	107.77763	106.0897269	104.4368309	102.8179173	101.2320025	99.67814085	98.1554227	96.66297288	95.1999489
230719A00034	7/19/2023	4.19	7/19/2028	112.15871	109.3888594	106.702667	104.0970695	101.5691407	99.11608176	96.73521448	94.42397505	92.17990836
230719A00081	12/16/2024	3.6	12/18/2026	104.03518	102.9563258	101.8998714	100.8651257	99.85142395	98.85812818	97.88462605	96.93032951	95.99467364
230719A00096	12/18/2023	4.46	12/19/2025	100.23327	100.1804202	100.1276381	100.0749283	100.0222905	99.96972465	99.9172306	99.86480819	99.81245727
230720A00037	7/20/2023	4.55	7/20/2026	103.04399	102.3918669	101.7480232	101.1123014	100.4845482	99.86461403	99.25235323	98.6476236	98.05028648
230720A00038	7/20/2023	4.55	7/20/2026	103.04399	102.3918669	101.7480232	101.1123014	100.4845482	99.86461403	99.25235323	98.6476236	98.05028648
230720A00039	7/20/2023	4.68	7/20/2026	103.08233	102.4306442	101.7872268	101.1519178	100.5245641	99.90501675	99.29313032	98.68876306	98.09177668
230721A00003	7/21/2023	4.67	7/21/2026	103.08922	102.4347212	101.788555	101.1505653	100.5205975	99.89850038	99.28412699	98.67733379	98.0779808
230721A00006	7/21/2023	4.32	7/21/2028	112.53315	109.7526323	107.0561897	104.4407409	101.9033408	99.44117253	97.05154095	94.73186627	92.47967827
230721A00029	7/21/2023	4.67	7/21/2026	103.08922	102.4347212	101.788555	101.1505653	100.5205975	99.89850038	99.28412699	98.67733379	98.0779808
230721A00038	7/21/2023	4.67	7/21/2026	103.08922	102.4347212	101.788555	101.1505653	100.5205975	99.89850038	99.28412699	98.67733379	98.0779808
230724A00037	7/24/2023	4.29	7/24/2028	112.49073	109.7023679	106.9985203	104.3760827	101.8320872	99.36369538	96.96819181	94.64297776	92.38556518
230724A00064	7/24/2023	4.53	7/19/2027	108.04302	106.3528346	104.697701	103.0765899	101.4885164	99.93253385	98.40773168	96.91323368	95.44819642
230724A00065	7/24/2023	4.37	7/18/2028	112.62867	109.8552813	107.1655465	104.5564063	102.0249382	99.56834617	97.18395475	94.86920259	92.62163681
230724A00066	7/24/2023	4.71	8/18/2026	103.49509	102.7607853	102.0369373	101.3233213	100.6197209	99.92592588	99.24173186	98.56694011	97.90135737
230725A00016	7/25/2023	4.75	7/31/2026	103.27667	102.5935022	101.9193873	101.2541443	100.5975987	99.94958067	99.30992484	98.67846998	98.05505903
230725A00018	7/25/2023	4.4	7/25/2028	112.80045	110.005074	107.2944613	104.6654969	102.1152019	99.64072784	97.23934973	94.90845967	92.64556102
230725A00023	7/25/2023	4.57	4/9/2027	106.6866	105.2900701	103.9186936	102.571845	101.2489211	99.94933788	98.67253013	97.41795039	96.18506835
230725A00028	7/25/2023	4.46	7/25/2030	122.40952	117.32015	112.4778144	107.8691191	103.4814733	99.30303621	95.32266769	91.5298828	87.9148095
230725A00071	7/25/2023	4.4	7/25/2028	112.80045	110.005074	107.2944613	104.6654969	102.1152019	99.64072784	97.23934973	94.90845967	92.64556102
230726A00011	7/26/2023	4.24	7/26/2028	112.58059	109.7810553	107.0665836	104.4340451	101.8804448	99.40291928	96.99872916	94.66525328	92.39998243
230726A00012	7/26/2023	4.24	7/26/2028	112.58059	109.7810553	107.0665836	104.4340451	101.8804448	99.40291928	96.99872916	94.66525328	92.39998243
230726A00023	7/26/2023	4.24	7/26/2028	112.58059	109.7810553	107.0665836	104.4340451	101.8804448	99.40291928	96.99872916	94.66525328	92.39998243
230727A00016	7/27/2023	4.51	7/27/2033	134.34859	125.6676588	117.6339732	110.1953533	103.3041052	96.9166102	90.99295658	85.49660517	80.39408754

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230727A00020	7/27/2023	4.39	7/27/2028	112.79951	109.9985198	107.2826004	104.6486164	102.0935734	99.61460819	97.2089819	94.87407375	92.60737489
230727A00033	7/27/2023	4.82	7/27/2026	103.67892	102.9229714	102.1781122	101.4441017	100.7207037	100.0076885	99.30483341	98.61192173	97.92874302
230727A00037	7/27/2023	4.82	7/27/2026	103.67892	102.9229714	102.1781122	101.4441017	100.7207037	100.0076885	99.30483341	98.61192173	97.92874302
230727A00063	7/27/2023	4.38	7/27/2028	112.97253	110.164839	107.4424882	104.8023354	102.2413741	99.75672956	97.34565227	95.00551109	92.73378747
230727A00070	7/27/2023	4.75	7/27/2026	103.22241	102.5506385	101.8876346	101.2332233	100.587238	99.94951657	99.31990096	98.69823712	98.08437492
230727A00073	7/27/2023	4.81	7/27/2026	103.26225	102.5903354	101.9271848	101.2726281	100.6264988	99.98863464	99.3588776	98.7370736	98.12307249
230727A00075	7/27/2023	4.5	7/27/2028	113.0971	110.2920602	107.5721842	104.9343351	102.3755155	99.89285959	97.48362582	95.14519083	92.87504335
230728A00004	7/28/2023	4.77	7/28/2026	103.24931	102.5746427	101.9088126	101.251645	100.6029715	99.96262808	99.33045478	98.70629579	98.08999924
230728A00005	7/28/2023	4.59	7/28/2027	108.26842	106.5513688	104.8702768	103.2240757	101.611743	100.032296	98.48479048	96.96831804	95.4820049
230728A00006	7/28/2023	4.46	7/28/2028	113.00211	110.1955469	107.4742714	104.8351377	102.2751415	99.79141025	97.38119654	95.04187128	92.77091785
230731A00012	7/31/2023	4.5	7/31/2029	117.99372	114.0457944	110.2544519	106.6125658	103.1133758	99.75046993	96.51776346	93.40948039	90.42013566
230731A00037	7/31/2023	4.74	7/31/2026	103.26992	102.5867757	101.9126861	101.2474681	100.5909473	99.94295382	99.30332233	98.67189159	98.04850454
230801A00021	8/1/2023	4.49	8/1/2028	113.13653	110.3168785	107.5831653	104.9322134	102.3609856	99.86657868	97.44621606	95.09724146	92.81711126
230801A00022	8/1/2023	4.65	8/2/2027	108.44012	106.7077323	105.0118151	103.3512849	101.7250976	100.1322503	98.57177923	97.04275801	95.54429556
230801A00024	8/1/2023	4.82	8/3/2026	103.36575	102.6738757	101.9912835	101.3177882	100.6532086	99.99736831	99.3500955	98.7112229	98.08058755
230802A00017	8/2/2023	4.79	8/3/2026	103.34524	102.6534477	101.970933	101.2975144	100.6330108	99.97724583	99.33004764	98.69124897	98.06068687
230802A00022	9/8/2023	4.41	9/8/2028	113.41598	110.4848112	107.6456914	104.8951481	102.2298629	99.64666506	97.14252439	94.71454352	92.35995121
230802A00023	10/16/2023	4.37	10/16/2028	113.79562	110.7500885	107.8032906	104.9514892	102.1911112	99.51873821	96.93109823	94.42505905	91.99762128
230804A00030	8/4/2023	4.88	8/4/2027	104.73164	103.7884059	102.8625321	101.9535264	101.0609192	100.1842586	99.32310967	98.47705391	97.64568809
230807A00010	8/7/2023	4.4	8/7/2028	112.9698	110.1355833	107.388175	104.7243482	102.1410197	99.63524299	97.20420117	94.84519989	92.55566124
230807A00018	8/7/2023	4.65	8/7/2026	103.30342	102.6006159	101.9074012	101.2235792	100.5489594	99.88335679	99.22659106	98.57848677	97.9388731
230807A00025	8/7/2023	4.69	8/7/2026	103.33121	102.6282949	101.9349739	101.2510465	100.5763224	99.91061643	99.25374832	98.6055426	97.96582844
230807A00033	8/7/2023	4.57	8/7/2026	103.29683	102.5934169	101.8996092	101.2152109	100.5400312	99.87388442	99.21658978	98.56797136	97.92785789
230807A00093	2/7/2024	4.49	2/6/2026	100.85156	100.6621221	100.4734045	100.2854016	100.0981091	99.91152315	99.72563959	99.54045446	99.3559638
230808A00008	8/8/2023	4.67	4/24/2026	101.91377	101.5081994	101.1058628	100.7067236	100.3107438	99.91788588	99.52811295	99.1413887	98.7576774
230808A00014	8/8/2023	4.6	8/7/2026	103.26869	102.566017	101.8729353	101.189245	100.5147557	99.84928224	99.19264449	98.54466699	97.90517892
230808A00029	8/8/2023	4.6	8/7/2026	103.26869	102.566017	101.8729353	101.189245	100.5147557	99.84928224	99.19264449	98.54466699	97.90517892
230808A00054	8/8/2023	4.19	8/8/2028	112.60977	109.7732715	107.0238485	104.3582546	101.7733915	99.26629862	96.83414551	94.47422539	92.18394859
230808A00057	8/8/2023	4.19	8/8/2028	112.60977	109.7732715	107.0238485	104.3582546	101.7733915	99.26629862	96.83414551	94.47422539	92.18394859
230808A00060	8/8/2023	4.19	8/8/2028	112.60977	109.7732715	107.0238485	104.3582546	101.7733915	99.26629862	96.83414551	94.47422539	92.18394859
230809A00020	8/9/2023	4.51	11/9/2026	104.4585	103.4870591	102.5337422	101.5980484	100.6794914	99.77760276	98.891931	98.02204081	97.16751238
230809A00026	8/9/2023	4.59	8/7/2026	103.26174	102.5590973	101.8660422	101.1823781	100.5079149	99.84246733	99.18585518	98.53790303	97.89844008
230809A00034	8/9/2023	4.59	8/10/2026	103.30164	102.5904693	101.8891163	101.197381	100.5150659	99.84197933	99.1779345	98.52274977	97.8762483

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230810A00010	8/10/2023	4.62	8/10/2026	103.32273	102.611477	101.9100425	101.2182264	100.5358313	99.86266554	99.19854225	98.5432798	97.89670134
230810A00013	8/10/2023	4.34	8/10/2028	112.84413	110.0032229	107.2495451	104.5798471	101.991023	99.48010508	97.04425635	94.68076378	92.38703186
230810A00024	8/10/2023	4.34	8/7/2028	112.80563	109.9736691	107.2284668	104.5667945	101.9855707	99.48185057	97.0528186	94.69578191	92.40816395
230810A00025	8/10/2023	4.37	5/8/2028	111.69587	109.136262	106.6493689	104.2327027	101.8838802	99.60061375	97.38070676	95.22204951	93.12261515
230810A00026	8/10/2023	4.4	1/10/2028	110.17464	107.9729935	105.8270131	103.7349005	101.6949328	99.70545588	97.76488109	95.87168197	94.02439145
230810A00053	8/10/2023	4.82	1/20/2026	100.68134	100.5393455	100.397762	100.2565918	100.115833	99.97548371	99.83554217	99.69600656	99.55687507
230810A00057	8/10/2023	4.62	8/10/2026	103.32273	102.611477	101.9100425	101.2182264	100.5358313	99.86266554	99.19854225	98.5432798	97.89670134
230811A00017	8/11/2023	4.78	8/11/2026	103.44904	102.7344988	102.0298586	101.3349169	100.649474	99.97333568	99.30631296	98.64822202	97.99888393
230814A00028	8/14/2023	4.86	8/14/2026	103.54766	102.8243412	102.1111619	101.4079117	100.714384	100.0303776	99.35569701	98.69015195	98.03355736
230814A00029	8/14/2023	4.71	2/12/2027	106.05639	104.8066813	103.5865634	102.3949965	101.2309852	100.0935798	98.98187367	97.89500126	96.83213542
230815A00037	8/15/2023	4.53	8/15/2028	113.43245	110.5693463	107.7944379	105.1044282	102.4961652	99.96663778	97.51296805	95.13240452	92.82231539
230815A00038	8/15/2023	4.57	8/16/2027	108.62462	106.8496557	105.1126812	103.4125397	101.7481238	100.1183708	98.52226049	96.95881301	95.42708669
230816A00025	8/16/2023	4.62	4/16/2027	106.95674	105.5367723	104.1427241	102.773941	101.4297935	100.1096725	98.81298882	97.5391719	96.28766947
230817A00036	8/17/2023	4.91	8/17/2026	103.62594	102.893916	102.1722687	101.4607821	100.7592422	100.0674409	99.38517605	98.71225097	98.04847438
230817A00054	5/17/2024	4.5	5/15/2026	102.11668	101.6521158	101.1917906	100.7356502	100.2836376	99.83569655	99.39177216	98.95181035	98.51575806
230818A00007	8/18/2023	4.73	8/18/2026	103.56076	102.8255248	102.1007629	101.3862541	100.6817813	99.98713371	99.3021064	98.62650004	97.96012081
230818A00024	8/18/2023	4.81	8/18/2026	103.56761	102.8330184	102.1088823	101.3949809	100.691098	99.99702329	99.31255229	98.63748625	97.97163187
230818A00025	8/18/2023	4.68	8/18/2027	108.71812	106.9389848	105.1979698	103.4939165	101.8257118	100.1922876	98.59261853	97.02571979	95.49064513
230818A00065	8/18/2023	4.82	8/18/2026	103.57486	102.8402417	102.1160768	101.4021469	100.6982357	100.004133	99.31963433	98.64454086	97.97865932
230821A00006	8/21/2023	4.66	8/21/2028	113.87348	110.9873182	108.1904372	105.4794815	102.851246	100.3026693	97.83082678	95.43292255	93.10628316
230821A00085	8/21/2023	5.04	2/23/2026	101.19961	100.9624231	100.7263529	100.4913922	100.2575331	100.0247679	99.79308889	99.5624885	99.33295918
230823A00036	8/23/2023	4.87	8/24/2026	103.69562	102.9436981	102.2027205	101.4724447	100.7526398	100.0430812	99.3435509	98.65383706	97.9737337
230823A00066	8/23/2023	4.68	8/23/2027	108.7891	106.9954544	105.2404563	103.5229177	101.8417035	100.1957249	98.58393697	97.00533629	95.45895909
230824A00008	8/24/2023	4.69	8/24/2028	112.20484	109.6775786	107.2269164	104.8500471	102.5442843	100.3070562	98.1359005	96.02845844	93.98247013
230824A00031	8/24/2023	4.49	8/24/2028	113.64785	110.7518163	107.9456947	105.2260941	102.5897758	100.0336472	97.55475378	95.15027214	92.81750272
230824A00043	8/24/2023	4.89	8/24/2026	103.71045	102.9584757	102.2174379	101.4871026	100.7672386	100.0576216	99.35803349	98.6682624	97.98810235
230824A00061	8/24/2023	4.61	8/24/2028	113.77549	110.8822245	108.078679	105.3614728	102.7273769	100.1733083	97.69632119	95.29360057	92.96245472
230825A00009	8/25/2023	4.91	8/25/2026	103.73949	102.9845851	102.2407062	101.5076085	100.7850585	100.0728293	99.37070053	98.6784581	97.9958939
230825A00010	8/25/2023	4.62	8/25/2028	113.81695	110.9202818	108.1135032	105.3932259	102.7562123	100.1993713	97.71974958	95.31452485	92.98099869
230825A00037	8/25/2023	4.91	8/25/2026	103.73949	102.9845851	102.2407062	101.5076085	100.7850585	100.0728293	99.37070053	98.6784581	97.9958939
230825A00043	8/25/2023	4.89	8/25/2026	103.72459	102.9697523	102.2259341	101.4928964	100.7704058	100.0582354	99.35616492	98.66398015	97.98147303
230828A00036	8/28/2023	4.8	8/28/2026	103.75238	102.9883115	102.2355247	101.493773	100.7628148	100.0424152	99.33234657	98.63238741	97.94232269
230828A00047	8/28/2023	4.92	8/28/2026	103.7896	103.026076	102.2738204	101.5325817	100.8021187	100.0821975	99.37259075	98.6730776	97.98344353

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230828A00056	8/28/2023	4.92	8/28/2026	103.7896	103.026076	102.2738204	101.5325817	100.8021187	100.0821975	99.37259075	98.6730776	97.98344353
230830A00028	8/30/2023	4.45	8/30/2027	108.6087	106.7950144	105.0207435	103.2846727	101.5856337	99.92250617	98.29421554	96.6997305	95.13806078
230830A00029	8/30/2023	4.45	8/30/2027	108.6087	106.7950144	105.0207435	103.2846727	101.5856337	99.92250617	98.29421554	96.6997305	95.13806078
230830A00034	8/30/2023	4.44	8/30/2028	113.38094	110.4762782	107.6621512	104.9351295	102.2919391	99.72945423	97.24468963	94.83479291	92.49703753
230830A00051	8/30/2023	4.45	8/30/2027	108.6087	106.7950144	105.0207435	103.2846727	101.5856337	99.92250617	98.29421554	96.6997305	95.13806078
230830A00055	8/30/2023	4.47	8/30/2028	113.14078	110.299999	107.5487349	104.8836656	102.3016127	99.799533	97.37451164	95.02375613	92.74459045
230831A00001	8/31/2023	4.77	8/31/2026	103.71805	102.9464175	102.1862861	101.4374032	100.6995203	99.97239626	99.25579679	98.5494944	97.85326813
230831A00006	8/31/2023	4.61	8/31/2027	108.77815	106.9624121	105.1861346	103.4481008	101.7471403	100.0821313	98.45199764	96.85570643	95.29226599
230831A00007	8/31/2023	4.48	8/31/2028	113.5062	110.5969539	107.778443	105.0472276	102.400024	99.83369749	97.3452543	94.93183406	92.59070272
230831A00016	8/31/2023	4.65	8/31/2026	103.6804	102.9082037	102.1475355	101.3981344	100.6597514	99.93214448	99.21507887	98.50832651	97.81166589
230831A00041	8/31/2023	4.48	8/31/2028	113.5062	110.5969539	107.778443	105.0472276	102.400024	99.83369749	97.3452543	94.93183406	92.59070272
230831A00066	8/31/2023	4.77	8/31/2026	103.71805	102.9464175	102.1862861	101.4374032	100.6995203	99.97239626	99.25579679	98.5494944	97.85326813
230831A00069	8/31/2023	4.61	8/31/2027	108.77815	106.9624121	105.1861346	103.4481008	101.7471403	100.0821313	98.45199764	96.85570643	95.29226599
230831A00070	8/31/2023	4.48	8/31/2028	113.5062	110.5969539	107.778443	105.0472276	102.400024	99.83369749	97.3452543	94.93183406	92.59070272
230831A00079	8/30/2024	4.28	8/29/2031	125.91965	119.5666704	113.5837739	107.9472679	102.6351134	97.62679573	92.90321094	88.44656042	84.24025457
230901A00007	9/1/2023	4.55	9/1/2027	108.6855	106.8677555	105.0895688	103.349722	101.6470454	99.98041708	98.34876091	96.75104371	95.18627328
230901A00037	9/1/2023	4.3	9/1/2028	113.22215	110.309403	107.4877034	104.7535967	102.103786	99.53512413	97.04460511	94.62935684	92.28663393
230901A00044	9/1/2023	4.55	9/1/2027	108.6855	106.8677555	105.0895688	103.349722	101.6470454	99.98041708	98.34876091	96.75104371	95.18627328
230905A00030	9/5/2023	4.55	9/5/2028	113.77068	110.8431865	108.0073628	105.2597395	102.5970077	100.0160072	97.51371841	95.08725503	92.73385694
230905A00033	9/5/2023	4.71	9/4/2026	103.78215	102.998335	102.2263869	101.466042	100.7170397	99.97912725	99.25205923	98.53559755	97.829511
230907A00051	9/7/2023	4.79	9/8/2026	103.90093	103.1053937	102.3220804	101.5507095	100.7910091	100.0427152	99.30557184	98.57933066	97.86375062
230908A00009	9/8/2023	4.55	9/8/2028	113.70237	110.7837249	107.958102	105.2220161	102.5721369	100.0052766	97.51838306	95.10853321	92.7729269
230908A00010	9/8/2023	4.73	9/9/2030	113.06652	110.327593	107.6892471	105.1469176	102.6962854	100.3332579	98.05395507	95.85469772	93.73199504
230911A00010	9/11/2023	4.9	9/11/2026	103.97479	103.1712764	102.3802249	101.6013497	100.8343706	100.079016	99.33502257	98.60213483	97.88010492
230911A00014	9/11/2023	4.61	9/11/2028	114.02262	111.0741146	108.2183756	105.451908	102.771373	100.17358	97.65547841	95.21415079	92.84680595
230912A00026	9/12/2023	4.84	9/14/2026	103.9698	103.1579014	102.3587265	101.5719807	100.7973751	100.0346298	99.28347314	98.54364203	97.81488117
230912A00036	9/12/2023	4.57	9/12/2028	113.92295	110.9729536	108.1158601	105.3481702	102.6665417	100.0677801	97.54883103	95.10677328	92.73881164
230912A00053	9/12/2023	4.74	9/7/2027	109.11165	107.2728275	105.474306	103.7148689	101.993344	100.3086059	98.65957326	97.0452068	95.46450718
230913A00013	9/13/2023	4.87	9/14/2026	103.99381	103.1818056	102.3825264	101.5956776	100.8209701	100.0581239	99.30686754	98.56693776	97.83807926
230913A00031	9/13/2023	4.91	9/15/2026	104.0402	103.225182	102.4229854	101.633306	100.8558518	100.0903399	99.33649619	98.59405469	97.86275759
230913A00032	9/13/2023	4.74	9/15/2027	109.22854	107.365712	105.5441142	103.762528	102.0197797	100.3147401	98.64632269	97.01348113	95.41520768
230913A00046	9/13/2023	4.91	9/14/2026	104.02583	103.2136777	102.4142597	101.6272734	100.8524301	100.0894494	99.33806008	98.59799872	97.86901004
230913A00049	9/13/2023	4.74	9/13/2027	109.19932	107.342493	105.5266676	103.7506209	102.0131798	100.3132161	98.64964455	97.02142073	95.42753904

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230913A00050	9/13/2023	4.6	9/13/2028	114.02185	111.0675386	108.2063305	105.4347243	102.749372	100.1470735	97.62476858	95.17953021	92.80855744
230914A00027	9/14/2023	4.76	1/8/2027	105.58662	104.4393296	103.3170854	102.2190734	101.1445132	100.092658	99.0627922	98.05423011	97.0663143
230914A00050	9/14/2023	4.67	9/14/2027	109.08668	107.2280386	105.4104953	103.6328253	101.893856	100.1924594	98.52754993	96.89808289	95.30305213
230914A00051	9/14/2023	4.84	9/14/2026	103.9698	103.1579014	102.3587265	101.5719807	100.7973751	100.0346298	99.28347314	98.54364203	97.81488117
230914A00059	7/26/2024	4.39	7/24/2026	102.94564	102.2832836	101.6294666	100.9840265	100.3468027	99.71763885	99.09638248	98.48288497	97.87700137
230914A00069	7/26/2024	4.34	7/26/2027	107.82089	106.1132665	104.441337	102.8040435	101.2003735	99.62935408	98.09004998	96.5815616	95.10302336
230914A00070	7/26/2024	4.3	7/26/2028	112.54325	109.7485578	107.0387018	104.4105588	101.8611446	99.3876057	96.98721257	94.65735301	92.3955264
230914A00125	9/16/2024	4.46	9/16/2031	127.16925	120.7269788	114.6623157	108.9509976	103.5704518	98.49966642	93.71907442	89.2104466	84.95679325
230915A00026	9/15/2023	4.57	9/15/2028	113.96406	111.0047529	108.13887	105.362901	102.6734894	100.0674261	97.54164182	95.09320034	92.71929144
230915A00030	9/15/2023	4.7	9/8/2027	109.05422	107.2130614	105.412313	103.6507521	101.9272069	100.2405518	98.58970519	96.97362724	95.39131788
230915A00054	9/15/2023	4.88	9/15/2026	104.0161	103.2011952	102.3991034	101.6095277	100.8321761	100.0667657	99.31302238	98.57068019	97.83948135
230915A00055	9/15/2023	4.7	9/15/2027	109.15571	107.2935657	105.4726372	103.691708	101.9496046	100.2451983	98.57740268	96.94517188	95.34749842
230915A00057	9/15/2023	4.75	6/15/2027	107.91118	106.3174673	104.7556361	103.2247984	101.7241018	100.252725	98.8098759	97.39479083	96.00673283
230918A00008	9/18/2023	4.91	9/18/2026	104.08331	103.2596918	102.4491562	101.6513948	100.8661068	100.0930007	99.33179405	98.58221303	97.84399225
230918A00010	9/18/2023	4.72	9/18/2029	119.4882	115.3700609	111.4199636	107.6301135	103.993123	100.501987	97.15006093	93.93104017	90.83894036
230918A00011	9/18/2023	4.91	9/18/2026	104.08331	103.2596918	102.4491562	101.6513948	100.8661068	100.0930007	99.33179405	98.58221303	97.84399225
230918A00013	9/18/2023	4.74	9/18/2030	124.44803	119.1493162	114.114274	109.3283198	104.7777538	100.4497034	96.33206874	92.41347222	88.68321131
230918A00018	9/18/2023	5.01	3/18/2026	101.5214	101.2196925	100.9197946	100.621688	100.3253568	100.0307849	99.73795656	99.44685632	99.15746877
230918A00023	9/18/2023	4.91	9/18/2026	104.08331	103.2596918	102.4491562	101.6513948	100.8661068	100.0930007	99.33179405	98.58221303	97.84399225
230918A00030	9/18/2023	5.01	9/17/2027	105.09396	104.1039972	103.1326376	102.1793514	101.243631	100.3249883	99.42295358	98.53707459	97.66691589
230919A00010	9/19/2023	4.76	9/20/2027	109.3383	107.4601011	105.6237231	103.8279479	102.0716003	100.3535485	98.67270177	97.02800906	95.41845685
230919A00029	9/19/2023	4.63	9/19/2028	114.19029	111.216097	108.3360903	105.5467379	102.844662	100.2266319	97.68955678	95.23047849	92.84656502
230919A00043	9/19/2023	4.62	9/19/2028	114.16172	111.1879384	108.3083314	105.519369	102.8176739	100.2000156	97.66330363	95.20458003	92.82101311
230919A00044	9/19/2023	4.93	9/21/2026	104.14283	103.3105191	102.4915668	101.6856482	100.8924531	100.1116816	99.3430427	98.58625475	97.84104463
230919A00047	9/19/2023	4.98	8/19/2026	103.70529	102.967343	102.2399378	101.5228495	100.8158592	100.1187542	99.43132787	98.75337909	98.08471241
230919A00055	9/19/2023	4.65	9/19/2028	114.24743	111.272414	108.3916081	105.6014756	102.8986381	100.2798644	97.74206308	95.28227539	92.89766885
230920A00002	9/20/2023	4.47	10/2/2028	114.12194	111.1061903	108.1870997	105.361053	102.62459	99.97439775	97.40730423	94.92027104	92.51038723
230920A00026	9/20/2023	4.9	9/16/2026	104.04651	103.2286626	102.423722	101.6313838	100.851353	100.0833439	99.32707949	98.58229132	97.84871902
230921A00021	9/21/2023	4.62	9/21/2028	114.40245	111.4146096	108.5216252	105.7199378	103.0061459	100.3769956	97.82937312	95.3602983	92.96691759
230922A00022	9/22/2023	4.99	9/22/2026	104.20661	103.3712066	102.5492519	101.7404197	100.9443971	100.1608809	99.38957742	98.63020227	97.88247971
230925A00003	9/25/2023	4.99	9/25/2026	104.25039	103.4063672	102.5760562	101.7591283	100.9552613	100.1641433	99.38547217	98.61895538	97.86430947
230925A00004	9/25/2023	4.74	9/25/2028	114.58964	111.5921974	108.6901131	105.8798204	103.1579085	100.5211134	97.9663104	95.49050765	93.09083941
230925A00114	9/25/2023	5.09	3/25/2026	101.64709	101.3256383	101.0062267	100.6888371	100.3734504	100.0600476	99.74860986	99.43911878	99.13155608

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
230926A00010	9/26/2023	4.74	9/26/2028	114.60382	111.6032553	108.6982223	105.8851534	103.160633	100.5213918	97.96430022	95.48636103	93.08470336
230926A00021	9/26/2023	4.73	9/26/2028	114.57506	111.5749059	108.6702779	105.8576043	103.1334697	100.4946052	97.93788142	95.46030149	93.05899477
230926A00076	9/26/2023	4.73	9/26/2028	114.57506	111.5749059	108.6702779	105.8576043	103.1334697	100.4946052	97.93788142	95.46030149	93.05899477
230927A00020	9/27/2023	5.01	10/16/2026	104.57769	103.6731432	102.7843184	101.9108035	101.0522045	100.2081409	99.37824493	98.56216133	97.75954655
230927A00021	9/27/2023	4.96	1/29/2027	106.14314	104.9326757	103.7499643	102.5940554	101.4640438	100.3590646	99.27829116	98.22093293	97.18623341
230927A00032	9/27/2023	5.02	9/23/2026	104.24596	103.4075758	102.5827257	101.7710861	100.9723409	100.186184	99.41231902	98.65045868	97.90032472
230927A00033	9/27/2023	4.78	9/25/2028	114.70458	111.7054857	108.8017845	105.9899138	103.2664616	100.6281626	98.07189103	95.59465389	93.19358438
230927A00034	9/27/2023	4.82	9/27/2028	114.84835	111.8413254	108.930097	106.1110837	103.3808623	100.7361562	98.17382808	95.69087341	93.28441393
230928A00001	9/28/2023	4.91	9/28/2026	104.28652	103.4330784	102.5936544	101.7678993	100.9554811	100.1560779	99.36937853	98.59508141	97.83289454
230928A00014	9/28/2023	4.9	9/28/2027	109.71566	107.8108944	105.9489403	104.1285792	102.3486319	100.6079606	98.90546695	97.24009044	95.6108069
230928A00016	9/28/2023	4.83	9/28/2028	114.89158	111.8810042	108.9664133	106.1442205	103.4109972	100.7634613	98.19847013	95.7130136	93.30420799
230928A00017	9/28/2023	4.83	9/28/2028	114.89158	111.8810042	108.9664133	106.1442205	103.4109972	100.7634613	98.19847013	95.7130136	93.30420799
230928A00033	9/28/2023	5.03	9/28/2026	104.32775	103.474939	102.6361146	101.8109369	100.9990746	100.2002066	99.41402257	98.6402216	97.8785124
230928A00051	9/28/2023	5.04	9/28/2026	104.73624	103.8061429	102.8927317	101.9955565	101.1141857	100.248203	99.3972066	98.5608086	97.73863439
230928A00058	9/28/2023	5.04	9/28/2026	104.73624	103.8061429	102.8927317	101.9955565	101.1141857	100.248203	99.3972066	98.5608086	97.73863439
230928A00059	9/28/2023	4.84	9/28/2028	114.79595	111.8052205	108.9113249	106.1105844	103.3994772	100.7746348	98.23283472	95.77099297	93.38615747
230928A00060	9/28/2023	4.84	9/28/2028	114.79595	111.8052205	108.9113249	106.1105844	103.3994772	100.7746348	98.23283472	95.77099296	93.38615747
230928A00061	9/28/2023	4.84	9/28/2028	114.79595	111.8052205	108.9113249	106.1105844	103.3994772	100.7746348	98.23283472	95.77099297	93.38615747
230928A00064	9/28/2023	4.78	9/30/2027	109.65805	107.7456295	105.8763386	104.0489561	102.2622991	100.515225	98.80663097	97.13545149	95.50065722
230929A00033	9/29/2023	4.92	9/29/2026	104.24984	103.3945698	102.5533776	101.725915	100.9118474	100.1108512	99.32261291	98.54682921	97.78320623
230929A00046	9/29/2023	4.66	9/29/2027	109.41978	107.5125128	105.648224	103.8256851	102.0437144	100.3011713	98.59695466	96.93000119	95.29928373
230929A00049	9/29/2023	4.87	9/30/2030	112.9391	110.2973296	107.751092	105.2960974	102.9282775	100.6437761	98.43893668	96.31029027	94.25454484
230929A00061	9/29/2023	4.92	9/29/2026	104.24984	103.3945698	102.5533776	101.725915	100.9118474	100.1108512	99.32261291	98.54682921	97.78320623
230929A00062	9/29/2023	4.78	9/29/2027	109.50755	107.6018892	105.7391257	103.9180351	102.1374389	100.3961997	98.69321933	97.02743709	95.39782854
231002A00018	10/2/2023	4.87	10/1/2027	109.70447	107.7912811	105.9212547	104.0931663	102.3058315	100.5581067	98.84888759	97.17710753	95.54173606
231002A00042	10/2/2023	4.73	10/2/2028	114.87497	111.8482777	108.9185156	106.0820557	103.3354294	100.6753159	98.09853523	95.60204175	93.18291734
231003A00005	10/3/2023	4.84	10/3/2028	114.99143	111.9650878	109.0356254	106.1994255	103.4530211	100.7930936	98.21646469	95.72009041	93.30105429
231003A00011	10/3/2023	4.89	10/15/2027	109.94641	107.9919801	106.0824485	104.2165119	102.3929161	100.6104517	98.86795126	97.1642881	95.49837443
231003A00036	10/3/2023	4.84	10/3/2028	114.99143	111.9650878	109.0356254	106.1994255	103.4530211	100.7930936	98.21646469	95.72009041	93.30105429
231004A00006	10/4/2023	4.88	10/4/2028	115.12143	112.0903637	109.1564064	106.3159208	103.5654296	100.9016039	98.32125629	95.82133369	93.39891123
231005A00035	10/5/2023	4.98	10/5/2026	104.3887	103.5159505	102.6578533	101.8140368	100.984146	100.1678377	99.36477994	98.57465128	97.7971408
231005A00037	10/5/2023	4.88	10/5/2027	109.78147	107.8564407	105.9750646	104.1360982	102.3383373	100.5806196	98.86182296	97.18086378	95.53669533
231005A00040	10/5/2023	4.98	10/5/2026	104.3887	103.5159505	102.6578533	101.8140368	100.984146	100.1678377	99.36477994	98.57465128	97.7971408

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
231005A00054	10/5/2023	4.98	10/5/2026	104.3887	103.5159505	102.6578533	101.8140368	100.984146	100.1678377	99.36477994	98.57465128	97.7971408
231006A00009	10/6/2023	4.98	10/15/2027	110.11782	108.1617174	106.2505431	104.3829948	102.5578176	100.773801	99.02977686	97.32461777	95.65723517
231006A00010	10/6/2023	4.93	10/16/2028	115.43784	112.3681777	109.3978384	106.5230702	103.7402813	101.0460352	98.43704286	95.9101554	93.46235757
231006A00032	10/6/2023	5.08	10/6/2026	104.4896	103.6135748	102.7522989	101.9054011	101.0725227	100.2533172	99.44744916	98.65459418	97.87443829
231006A00033	10/6/2023	4.98	10/6/2027	109.984	108.0542386	106.1682883	104.3248986	102.5228594	100.7610028	99.03820146	97.35336656	95.70544654
231010A00007	10/10/2023	4.83	10/12/2027	109.78878	107.8442341	105.9441874	104.0873589	102.2725103	100.4984467	98.76401507	97.06810211	95.40963295
231010A00030	10/10/2023	4.88	10/15/2026	104.4476	103.5464925	102.6610012	101.790719	100.9352556	100.094234	99.26728999	98.45407145	97.65423798
231010A00057	10/10/2023	4.66	10/10/2028	114.78223	111.7342371	108.7845436	105.9294445	103.1653985	100.4890165	97.89705436	95.38640561	92.954095
231010A00075	10/10/2023	4.78	10/10/2028	114.91475	111.8697349	108.9228038	106.0702644	103.3085867	100.6343921	98.04444635	95.53565245	93.105044
231010A00076	10/10/2023	4.66	10/10/2028	114.78223	111.7342371	108.7845436	105.9294445	103.1653985	100.4890165	97.89705436	95.38640561	92.954095
231010A00101	10/10/2023	4.78	10/10/2028	114.91475	111.8697349	108.9228038	106.0702644	103.3085867	100.6343921	98.04444635	95.53565245	93.105044
231010A00129	10/10/2023	4.93	10/13/2026	104.46269	103.5671313	102.6869944	101.8218811	100.9714084	100.135206	99.31291627	98.50419323	97.70870241
231011A00004	10/11/2023	4.81	10/8/2027	109.69329	107.7607756	105.8722657	104.0264949	102.2222448	100.4583397	98.73364468	97.04706382	95.3975388
231011A00016	10/11/2023	4.75	10/11/2028	114.84106	111.7942993	108.8457685	105.9917695	103.2287639	100.5533652	97.96233179	95.4525596	93.02107567
231011A00028	10/11/2023	4.92	10/9/2026	104.39552	103.51152	102.6425474	101.788224	100.948181	100.1220617	99.30952141	98.51022655	97.72385452
231011A00029	10/11/2023	4.81	10/8/2027	109.69329	107.7607756	105.8722657	104.0264949	102.2222448	100.4583397	98.73364468	97.04706382	95.3975388
231011A00030	10/11/2023	4.75	10/11/2028	114.84106	111.7942993	108.8457685	105.9917695	103.2287639	100.5533652	97.96233179	95.4525596	93.02107567
231012A00027	10/12/2023	4.78	10/16/2028	114.99796	111.9347609	108.9707274	106.102111	103.325325	100.6369378	98.03366484	95.51236174	93.07001749
231013A00020	10/13/2023	4.98	10/13/2026	104.50674	103.6109688	102.7306235	101.8653044	101.0146283	100.178225	99.35573659	98.54681723	97.75113235
231016A00016	10/16/2023	5.01	10/16/2026	104.57769	103.6731432	102.7843184	101.9108035	101.0522045	100.2081409	99.37824493	98.56216133	97.75954655
231016A00047	10/16/2023	4.98	2/10/2027	106.35471	105.1087628	103.892172	102.7039092	101.5429913	100.4084802	99.29948028	98.21513616	97.15463028
231016A00049	10/16/2023	4.95	7/19/2027	108.73965	107.0434925	105.3824852	103.7556053	102.1618653	100.6003155	99.07004275	97.57016828	96.09984615
231017A00017	10/17/2023	5.11	10/16/2026	104.66662	103.7616449	102.872396	101.998462	101.139449	100.2949763	99.46467609	98.64819298	97.84518332
231017A00029	10/17/2023	4.99	10/17/2028	115.51102	112.4530813	109.4958497	106.6354261	103.8680857	101.1902692	98.59857423	96.08974752	93.66067752
231017A00032	10/17/2023	4.99	10/17/2028	115.51102	112.4530813	109.4958497	106.6354261	103.8680857	101.1902692	98.59857423	96.08974752	93.66067752
231017A00033	10/17/2023	4.99	10/17/2028	115.51102	112.4530813	109.4958497	106.6354261	103.8680857	101.1902692	98.59857423	96.08974752	93.66067752
231017A00034	10/17/2023	4.99	10/17/2028	115.51102	112.4530813	109.4958497	106.6354261	103.8680857	101.1902692	98.59857423	96.08974752	93.66067752
231017A00035	10/17/2023	4.99	10/17/2028	115.51102	112.4530813	109.4958497	106.6354261	103.8680857	101.1902692	98.59857423	96.08974752	93.66067752
231017A00036	10/17/2023	4.99	10/17/2028	115.51102	112.4530813	109.4958497	106.6354261	103.8680857	101.1902692	98.59857423	96.08974752	93.66067752
231017A00037	10/17/2023	4.99	10/17/2028	115.51102	112.4530813	109.4958497	106.6354261	103.8680857	101.1902692	98.59857423	96.08974752	93.66067752
231017A00039	10/17/2023	5.12	10/16/2026	105.09652	104.1120067	103.1461494	102.1984166	101.2682994	100.355308	99.45897075	98.57883301	97.71445667
231017A00040	10/17/2023	5.12	10/16/2026	105.09652	104.1120067	103.1461494	102.1984166	101.2682994	100.355308	99.45897075	98.57883301	97.71445667
231017A00041	10/17/2023	5.12	10/16/2026	105.09652	104.1120067	103.1461494	102.1984166	101.2682994	100.355308	99.45897075	98.57883301	97.71445667

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
231018A00026	10/18/2023	5.28	1/7/2026	100.55258	100.4468031	100.3412577	100.235945	100.1308645	100.0260152	99.92139633	99.81700717	99.71284689
231019A00007	10/19/2023	5.19	10/19/2026	104.78379	103.869802	102.9718403	102.0894816	101.2223209	100.3699671	99.53204239	98.7081818	97.89803254
231019A00009	10/19/2023	5.14	10/19/2027	110.48382	108.5129845	106.5876319	104.7064387	102.8681284	101.0714698	99.3152749	97.59839743	95.91973084
231019A00031	1/22/2024	5.12	1/30/2026	100.86858	100.6985439	100.5290814	100.3601888	100.1918635	100.0241024	99.85690289	99.69026207	99.52417719
231019A00041	10/19/2023	5.08	10/19/2028	115.92186	112.8365524	109.8512794	106.9622486	104.1658347	101.4585694	98.83713368	96.29835033	93.8391773
231019A00043	10/19/2023	5.19	10/19/2026	104.78379	103.869802	102.9718403	102.0894816	101.2223209	100.3699671	99.53204239	98.7081818	97.89803254
231019A00044	10/19/2023	5.14	10/19/2027	110.48382	108.5129845	106.5876319	104.7064387	102.8681284	101.0714698	99.3152749	97.59839743	95.91973084
231020A00048	10/20/2023	5.08	10/20/2026	104.70008	103.7836886	102.8834124	101.9988283	101.1295278	100.2751164	99.4352131	98.60944983	97.7974709
231020A00049	10/20/2023	5.03	10/20/2027	110.2881	108.3163963	106.390264	104.5083726	102.6694415	100.8722356	99.11556343	97.39827528	95.71926134
231020A00051	10/20/2023	5.02	10/20/2028	115.75994	112.6741833	109.6885744	106.7993182	104.0027819	101.2954901	98.67411726	96.13547998	93.67653037
231020A00069	10/20/2023	5.08	10/15/2026	104.6249	103.7229447	102.8366101	101.9654948	101.1092082	100.2673733	99.43962545	98.6256125	97.82499381
231023A00034	4/23/2024	4.95	4/23/2026	102.01241	101.6093936	101.2095672	100.8128975	100.4193471	100.0288792	99.64145758	99.2570466	98.87561117
231024A00017	10/24/2023	4.97	10/25/2027	110.2472	108.2619619	106.3228968	104.4286529	102.5779245	100.7694529	99.00202385	97.27446617	95.5856495
231024A00029	10/24/2023	4.97	10/25/2027	110.2472	108.2619619	106.3228968	104.4286529	102.5779245	100.7694529	99.00202385	97.27446617	95.5856495
231024A00030	10/24/2023	4.96	10/24/2028	115.64082	112.5454555	109.5509122	106.6533506	103.8491018	101.1346562	98.50665597	95.96188763	93.49727475
231024A00039	10/24/2023	5.06	10/26/2026	104.77196	103.8383139	102.9213786	102.0207072	101.1358689	100.2664483	99.41204408	98.57226901	97.74674897
231024A00046	10/24/2023	4.96	10/24/2028	115.64082	112.5454555	109.5509122	106.6533506	103.8491018	101.1346562	98.50665597	95.96188763	93.49727475
231024A00082	10/24/2023	5.05	10/23/2026	104.71793	103.793	102.8844845	101.9919452	101.1149625	100.2531315	99.40606126	98.57337403	97.75470501
231025A00013	10/25/2023	5.08	10/26/2026	104.7903	103.8565653	102.9395399	102.0387796	101.1538536	100.2843462	99.4298563	98.58999658	97.76439291
231025A00024	10/25/2023	5	10/25/2028	115.7735	112.6733358	109.6742126	106.7722863	103.963877	101.2454648	98.61368201	96.06530589	93.59725127
231025A00036	10/25/2023	5.08	10/21/2026	104.71512	103.7958359	102.8927696	102.0054906	101.1335865	100.2766594	99.43432499	98.60621201	97.79196172
231027A00028	10/27/2023	4.92	10/23/2028	115.50836	112.4177926	109.4278223	106.534619	103.7345245	101.0240398	98.3998167	95.85865098	93.39747494
231027A00035	10/27/2023	4.99	10/30/2026	104.76691	103.822017	102.894229	101.9830858	101.0881419	100.2089675	99.34514784	98.49628263	97.66198543
231030A00035	10/30/2023	4.85	10/30/2028	115.62251	112.5053027	109.4902516	106.5734468	103.751149	101.0197827	98.37592765	95.81631169	93.33780308
231031A00022	10/31/2023	5.04	10/30/2026	104.81332	103.8681964	102.9401779	102.0288071	101.1336385	100.2542422	99.39020327	98.54112153	97.70661041
231031A00033	10/31/2023	5.05	10/30/2026	104.82261	103.8774323	102.9493677	102.0379514	101.1427378	100.2632971	99.39921435	98.5500893	97.7155354
231102A00022	11/2/2023	4.91	11/10/2026	104.85579	103.8794818	102.9214302	101.9811289	101.058087	100.1518315	99.26190644	98.38787253	97.52930595
231102A00024	11/2/2023	4.78	11/2/2028	115.23422	112.1191966	109.1064711	106.1921168	103.3723825	100.6436814	98.00258314	95.44580578	92.97020867
231102A00025	11/2/2023	4.9	12/8/2026	105.26568	104.2081123	103.1718973	102.1563875	101.1609656	100.1850387	99.22803692	98.28941257	97.36863885
231102A00026	11/2/2023	4.9	1/12/2027	105.80638	104.6464102	103.512002	102.4023199	101.31656	100.2539533	99.21376316	98.19528414	97.19784008
231102A00027	11/2/2023	4.89	2/9/2027	106.22999	104.9876849	103.7745953	102.5896942	101.4320053	100.3005971	99.1945801	98.11310468	97.05535878
231102A00028	11/2/2023	4.88	3/9/2027	106.64529	105.3253532	104.0350506	102.773383	101.5393951	100.3321737	99.15084595	97.99457697	96.86256771
231102A00029	11/2/2023	4.88	4/13/2027	107.17385	105.762436	104.3766182	103.0157598	101.6792427	100.3664684	99.07685803	97.80985079	96.56490376

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
231102A00030	11/2/2023	4.87	5/11/2027	107.57787	106.0847641	104.6200985	103.1831296	101.7731383	100.3894296	99.03133212	97.69819697	96.38939662
231102A00032	11/2/2023	4.91	11/2/2026	104.73693	103.7837429	102.8479688	101.9291329	101.0267777	100.1404621	99.26976049	98.41426232	97.5735713
231102A00033	11/2/2023	4.83	11/2/2027	110.09277	108.0865968	106.1275783	104.2143148	102.3454598	100.5197155	98.73583069	96.99259881	95.28885593
231102A00039	11/2/2023	4.91	10/28/2026	104.66352	103.7247801	102.8029416	101.8975506	101.0081691	100.1343746	99.27575928	98.43192951	97.60250516
231102A00064	1/22/2024	5.01	1/22/2026	100.7366	100.5889765	100.4418032	100.2950733	100.1487848	100.0029356	99.85752377	99.71254726	99.5680041
231102A00070	2/15/2024	4.86	2/16/2027	106.30065	105.0379688	103.8054463	102.6020101	101.4266373	100.2783524	99.15622492	98.05936645	96.98692848
231103A00002	11/3/2023	4.67	11/29/2027	110.16491	108.0804644	106.0468217	104.0624202	102.1257569	100.2353856	98.38991371	96.58800042	94.82835408
231103A00029	11/3/2023	4.75	11/3/2026	104.60149	103.6461741	102.7083715	101.7875984	100.8833934	99.99531167	99.12292401	98.26581649	97.42358961
231103A00034	11/3/2023	4.49	11/3/2028	114.60534	111.491712	108.4806116	105.5680956	102.7503963	100.0239116	97.38519677	94.83095649	92.35803756
231106A00007	11/6/2023	4.78	11/5/2027	110.0387	108.0244736	106.0577838	104.137219	102.261416	100.4290613	98.63888875	96.88967742	95.18024987
231107A00011	11/7/2023	4.84	11/9/2026	104.77401	103.8009359	102.8460119	101.9087317	100.9886087	100.085174	99.19797574	98.32657813	97.47056098
231108A00015	11/8/2023	4.83	11/9/2026	104.76445	103.7914245	102.8365492	101.8993171	100.9792415	100.0758537	99.18870166	98.31734973	97.46137769
231108A00028	11/8/2023	4.83	11/9/2026	104.76445	103.7914245	102.8365492	101.8993171	100.9792415	100.0758537	99.18870166	98.31734973	97.46137769
231109A00025	11/9/2023	4.75	11/9/2028	114.80929	111.7582535	108.808932	105.9573243	103.199612	100.5321497	97.95145554	95.45420326	93.03721395
231113A00038	11/13/2023	4.97	11/13/2026	104.95841	103.9731069	103.0063932	102.057741	101.1266464	100.2126242	99.31520699	98.43394426	97.56840169
231114A00006	11/14/2024	4.67	11/14/2031	129.06218	122.3910872	116.1201307	110.2230517	104.6754464	99.45462959	94.53950495	89.91044586	85.54918569
231114A00007	11/14/2024	4.89	11/14/2034	142.24378	131.8397115	122.320386	113.6048194	105.6198689	98.29943631	91.58375549	85.41875465	79.75548628
231114A00046	11/14/2023	4.62	11/14/2028	114.92122	111.7759305	108.7350914	105.7946529	102.9507434	100.1996629	97.53787466	94.96199686	92.46879488
231114A00072	11/14/2023	4.67	11/15/2027	109.96529	107.9231182	105.9298101	103.98389	102.083938	100.2285867	98.41651881	96.64646478	94.91720079
231114A00074	11/14/2023	4.6	11/14/2028	114.86094	111.7165617	108.6766091	105.7370351	102.8939687	100.1437107	97.48272493	94.90763032	92.41519284
231115A00039	11/15/2023	4.85	11/16/2026	104.88642	103.8930436	102.9185636	101.9624457	101.0241736	100.1032499	99.19919559	98.31154938	97.43986654
231117A00002	11/17/2023	4.76	11/12/2026	104.74085	103.7595015	102.7966174	101.8516786	100.9241858	100.0136582	99.1196324	98.24166191	97.37931616
231117A00003	11/17/2023	4.59	11/17/2028	114.87152	111.7182349	108.6699586	105.7226035	102.8722673	100.115221	97.44790074	94.86689909	92.36895743
231121A00015	11/21/2023	4.75	11/30/2026	104.99073	103.9572799	102.9442492	101.9510323	100.9770514	100.0217508	99.0845962	98.16507345	97.26268768
231127A00024	11/27/2023	4.78	11/27/2026	104.97765	103.9527481	102.9479345	101.9626218	100.9962454	100.0482624	99.11815045	98.20540694	97.30954784
231127A00025	11/27/2023	4.68	11/29/2027	110.18521	108.1005579	106.0667086	104.0821046	102.1452427	100.2546765	98.40901356	96.60691276	94.8470824
231127A00026	11/27/2023	4.61	11/27/2028	115.06825	111.8828056	108.8043678	105.828731	102.9518845	100.1699977	97.47941109	94.87662727	92.35830308
231128A00002	11/28/2023	4.41	11/30/2028	114.7253	111.5310509	108.4445438	105.4615322	102.5779628	99.78996521	97.09384224	94.48606145	91.96324661
231128A00003	11/28/2023	4.41	11/30/2028	114.7253	111.5310509	108.4445438	105.4615322	102.5779629	99.78996521	97.09384224	94.48606145	91.96324661
231128A00009	11/28/2023	4.73	12/14/2026	105.17868	104.1046332	103.0526152	102.0219552	101.0120064	100.0221478	99.05178289	98.10033885	97.167265
231129A00006	11/29/2023	4.25	11/29/2028	114.22252	111.038885	107.9626069	104.9894533	102.115388	99.33655654	96.64927717	94.05003185	91.53545801
231130A00072	11/30/2023	4.83	12/1/2025	100.01854	100.0157535	100.0129725	100.0101939	100.0074176	100.0046439	100.0018725	99.9991035	99.99633694
231130A00073	11/30/2023	4.61	11/30/2026	104.84869	103.8160227	102.8037564	101.8112935	100.8380562	99.88348919	98.94705841	98.0282499	97.126569

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
231130A00074	11/30/2023	4.45	11/30/2028	114.61973	111.432389	108.3524599	105.3757089	102.4980985	99.71577367	97.02505149	94.42241306	91.90449493
231201A00024	12/1/2023	4.36	12/1/2028	114.35716	111.1710254	108.092358	105.1169258	102.2406858	99.45977751	96.77051326	94.16936958	91.65297884
231201A00026	12/1/2023	4.51	12/1/2026	104.7615	103.7264871	102.711984	101.7173859	100.7421105	99.78559812	98.84731037	97.92672937	97.02335669
231201A00034	12/1/2023	4.62	3/2/2026	101.19287	100.936218	100.6808719	100.4268186	100.1740482	99.92255119	99.67231784	99.42333866	99.17560423
231205A00025	12/5/2023	4.61	12/15/2025	100.19441	100.1526399	100.1109275	100.0692678	100.0276608	99.98610636	99.94460439	99.90315477	99.8617574
231206A00012	12/6/2023	4.31	12/6/2028	114.26703	111.0681803	107.9775912	104.9909841	102.1042719	99.31355272	96.61510043	94.00535533	91.48091587
231206A00044	12/8/2023	4.71	12/8/2025	100.10693	100.08467	100.0624306	100.040215	100.0180229	99.9958545	99.97370961	99.95158822	99.9294903
231206A00046	12/6/2023	4.39	12/6/2027	109.68944	107.5903937	105.5428559	103.5452299	101.5959796	99.69362737	97.83675113	96.02398202	94.25400194
231206A00047	12/6/2023	4.31	12/6/2028	114.26703	111.0681803	107.9775912	104.9909841	102.1042719	99.31355272	96.61510043	94.00535533	91.48091587
231206A00070	12/6/2023	4.71	12/8/2025	100.10693	100.08467	100.0624306	100.040215	100.0180229	99.9958545	99.97370961	99.95158822	99.9294903
231207A00010	12/7/2023	4.38	12/7/2027	109.68218	107.5804259	105.5302958	103.5301823	101.5785443	99.67389945	97.81482128	95.99993671	94.22792366
231207A00011	12/7/2023	4.28	12/7/2028	114.18727	110.9868255	107.8947793	104.9068414	102.0189166	99.22709564	96.52764521	93.91699908	91.39174955
231207A00014	12/7/2023	4.7	12/8/2025	100.1067	100.0844396	100.0622004	100.0399849	100.0177931	99.99562484	99.97348013	99.95135893	99.92926119
231207A00016	12/7/2023	4.47	12/7/2026	104.80571	103.7535256	102.7225402	101.7121156	100.72164	99.75052604	98.79820908	97.86414629	96.94781558
231207A00034	12/7/2023	4.7	12/5/2025	100.0687	100.0547861	100.0408848	100.0269971	100.0131231	99.99926266	99.98541581	99.97158252	99.95776275
231207A00035	12/7/2023	4.47	12/7/2026	104.80571	103.7535256	102.7225402	101.7121156	100.72164	99.75052604	98.79820908	97.86414629	96.94781558
231208A00022	3/15/2024	4.69	12/15/2025	100.19495	100.1532122	100.1115269	100.0698941	100.0283135	99.98678521	99.94530904	99.9038849	99.86251269
231208A00023	3/15/2024	4.61	3/16/2026	101.37501	101.07914	100.7850154	100.4926168	100.201929	99.91293684	99.62562546	99.33998011	99.05598621
231211A00057	12/11/2023	4.58	12/11/2029	120.05311	115.6790899	111.4932099	107.4863326	103.6498141	99.97547572	96.45557676	93.08278806	89.85016804
231212A00016	12/12/2023	4.59	12/7/2026	104.92979	103.8769168	102.8452528	101.8341589	100.8430234	99.87125856	98.91829952	97.98360329	97.06664756
231212A00018	12/12/2023	4.5	12/6/2027	109.91494	107.8135327	105.7636807	103.7637859	101.8123108	99.90777669	98.04876018	96.23389129	94.46185083
231212A00067	12/12/2023	4.82	12/12/2025	100.16145	100.1280575	100.0947012	100.0613842	100.0281063	99.99486746	99.96166758	99.92850661	99.89538446
231213A00049	12/13/2023	4.14	12/13/2028	113.82897	110.6171526	107.5145907	104.516942	101.6200614	98.81999266	96.11295885	93.49535274	90.96372833
231214A00036	12/14/2023	4.19	12/14/2026	104.6098	103.5389627	102.4901082	101.4625668	100.4556928	99.46886608	98.50149135	97.55299661	96.62283213
231214A00075	12/14/2023	4.49	12/15/2025	100.1865	100.1447722	100.1030938	100.0614678	100.0198942	99.9783728	99.93690352	99.89548626	99.85412091
231215A00004	12/15/2023	4.07	12/15/2028	113.63614	110.4216761	107.3167289	104.3169358	101.4181357	98.61635771	95.90781103	93.28887561	90.75609338
231215A00018	12/15/2023	4.19	12/15/2027	109.39378	107.2728446	105.2043682	103.1867045	101.2182738	99.29755692	97.42309301	95.59347633	93.80735397
231218A00052	12/18/2023	4.54	12/18/2025	100.2253	100.1752245	100.1252149	100.0752724	100.0253968	99.97558795	99.92584577	99.87617011	99.82656081
231219A00016	12/19/2023	4.27	12/18/2026	104.74848	103.665556	102.6050967	101.5664035	100.5488103	99.55167781	98.57439237	97.61636473	96.67702873
231219A00017	12/19/2023	4.26	1/15/2027	105.12203	103.9576879	102.8192253	101.7057834	100.6165425	99.55071856	98.50756106	97.48635126	96.48640059
231219A00018	12/19/2023	4.25	2/16/2027	105.54928	104.2914961	103.0637947	101.8651002	100.694392	99.5506966	98.43308554	97.34067235	96.27261039
231219A00019	12/19/2023	4.17	12/15/2027	109.35227	107.2317806	105.1637349	103.1464935	101.1784767	99.2581658	97.38410004	95.55487394	93.76913479
231219A00020	12/19/2023	4.16	2/1/2028	109.9363	107.6758809	105.4738052	103.3281416	101.2370419	99.19873393	97.21151763	95.27376163	93.38389974

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
231219A00021	12/19/2023	4.14	3/15/2028	110.44755	108.0564449	105.7296658	103.4650663	101.2605839	99.11424009	97.02413577	94.98844766	93.00542458
231219A00022	12/19/2023	4.13	4/14/2028	110.79969	108.319571	105.9082049	103.563306	101.2826745	99.06419654	96.90584021	94.80565171	92.76175207
231219A00023	12/19/2023	4.12	6/15/2028	111.54738	108.8821427	106.2953528	103.7842267	101.3460978	98.9784111	96.67871792	94.44467037	92.27401671
231219A00025	12/19/2023	4.06	12/15/2028	113.60513	110.3911478	107.286669	104.2873323	101.3889772	98.58763302	95.87950942	93.26098669	90.7286071
231219A00060	12/19/2023	4.22	6/21/2027	107.16255	105.5578451	103.985444	102.4444412	100.9339649	99.45317543	98.00126365	96.57744938	95.18098024
231220A00028	12/20/2023	4.13	12/20/2027	109.33196	107.1977947	105.1166419	103.0868277	101.106747	99.17485714	97.28967465	95.44977263	93.6537781
231220A00030	12/20/2023	4.48	12/22/2025	100.27053	100.2093339	100.1482248	100.0872043	100.0262724	99.96542884	99.90467337	99.84400584	99.78342605
231220A00031	12/20/2023	4.23	12/21/2026	104.74636	103.6549737	102.5863997	101.5399249	100.5148677	99.51057456	98.52641819	97.56179641	96.61613085
231220A00032	12/20/2023	4.57	12/19/2025	100.23656	100.1837312	100.1309715	100.0782839	100.025668	99.97312369	99.92065091	99.86824947	99.81591923
231221A00008	12/21/2023	3.99	12/21/2028	113.45823	110.229654	107.1115276	104.0994334	101.1891575	98.3766796	95.65816251	93.02994288	90.48852206
231221A00014	12/21/2023	4.14	6/21/2027	107.03611	105.4324453	103.8610638	102.3210626	100.8115705	99.3317483	97.88078719	96.45790748	95.06235724
231221A00022	12/21/2023	4.01	12/21/2028	112.59061	109.5805216	106.6726467	103.8628611	101.1472337	98.52201743	95.98363906	93.52869012	91.15391801
231221A00039	12/21/2023	3.99	12/21/2028	113.45823	110.229654	107.1115276	104.0994334	101.1891575	98.3766796	95.65816251	93.02994288	90.48852206
231221A00103	12/21/2023	4.3	12/30/2025	100.35771	100.2742232	100.1908721	100.107661	100.0245896	99.94165759	99.85886461	99.77621032	99.69369436
231221A00104	12/21/2023	4.3	12/30/2025	100.35771	100.2742232	100.1908721	100.107661	100.0245896	99.94165759	99.85886461	99.77621032	99.69369436
231222A00004	12/22/2023	4	12/22/2028	113.50113	110.2690719	107.1476491	104.1324333	101.219201	98.40392246	95.68275204	93.05201826	90.50821487
231222A00039	12/22/2023	4.44	12/22/2025	100.26808	100.2068795	100.1457724	100.084754	100.0238241	99.9629825	99.90222905	99.84156354	99.78098576
231226A00016	12/26/2023	3.92	12/26/2028	113.2978	110.0996397	107.0123184	104.0313055	101.1522868	98.37115221	95.68398433	93.08704809	90.57678092
231226A00024	12/26/2023	4.03	12/26/2028	113.64197	110.3964555	107.2623042	104.2350493	101.3104283	98.48437502	95.7530096	93.11262846	90.55969521
231226A00043	12/26/2023	4.46	12/26/2025	100.31734	100.2450232	100.1728171	100.1007239	100.0287431	99.95687467	99.88511825	99.81347359	99.74194043
231226A00095	12/26/2023	4.22	12/28/2026	104.82987	103.7182106	102.6301902	101.5650584	100.5220977	99.50062016	98.49996624	97.51950311	96.55862335
231227A00005	12/27/2023	4.17	12/28/2026	104.77525	103.6639064	102.5762003	101.5113781	100.4687225	99.44754574	98.44718828	97.4670174	96.5064258
231227A00014	12/27/2023	4.29	12/26/2025	100.30995	100.2375874	100.1653382	100.0932025	100.0211799	99.94927021	99.87747311	99.80578836	99.73421568
231227A00023	12/27/2023	3.98	12/27/2028	113.49705	110.2509878	107.1164003	104.0888118	101.1639521	98.33774841	95.60631434	92.96594034	90.41308449
231227A00027	12/27/2023	4.42	12/26/2025	100.31445	100.2421308	100.1699271	100.0978362	100.0258579	99.95399185	99.8822378	99.81059552	99.73906474
231228A00023	12/28/2023	4.4	12/26/2025	100.313	100.2406846	100.1684821	100.0963924	100.0244153	99.95255043	99.88079758	99.80915649	99.7376269
231228A00024	12/28/2023	4.15	12/28/2026	104.7534	103.6421847	102.5546043	101.489906	100.4473725	99.42631598	98.42607709	97.44602312	96.48554679
231228A00025	12/28/2023	4.05	12/28/2027	109.26335	107.1076982	105.0059556	102.9564061	100.9574039	99.00736771	97.10477754	95.24817208	93.43614578
231215A00026	1/17/2025	3.71	1/15/2027	104.4936	103.3330842	102.1983853	101.0886494	100.0030583	98.94082942	97.90121352	96.88349323	95.88698123
231228A00026	12/28/2023	3.96	12/28/2028	113.44597	110.1978933	107.0614404	104.0321255	101.10567	98.27799291	95.54520028	92.90357555	90.34957016
231229A00017	12/29/2023	4.42	12/29/2025	100.35015	100.2694906	100.1889663	100.1085745	100.0283148	99.94818695	99.86819063	99.78832552	99.7085913
231229A00068	12/29/2023	4.42	12/29/2025	100.35015	100.2694906	100.1889663	100.1085745	100.0283148	99.94818695	99.86819063	99.78832552	99.7085913
231229A00070	12/29/2023	4.42	12/29/2025	100.35015	100.2694906	100.1889663	100.1085745	100.0283148	99.94818695	99.86819063	99.78832552	99.7085913

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
231229A00071	12/29/2023	4.42	12/29/2025	100.35015	100.2694906	100.1889663	100.1085745	100.0283148	99.94818695	99.86819063	99.78832552	99.7085913
240102A00055	1/2/2024	4.23	1/4/2027	104.93632	103.8042399	102.6966512	101.6127661	100.5518287	99.51311483	98.49593068	97.49961099	96.5235177
240103A00004	1/3/2024	4.48	1/5/2026	100.44275	100.3426166	100.2426875	100.1429656	100.0434503	99.94414099	99.84503697	99.74613758	99.64744217
240103A00005	1/3/2024	4.28	1/4/2027	104.99192	103.8595078	102.751594	101.6673888	100.6061359	99.56711121	98.54962075	97.55299915	96.57660825
240103A00010	1/3/2024	4.84	1/18/2039	154.26969	138.8134727	125.1785755	113.1356189	102.4854536	93.05502211	84.69380816	77.27078682	70.67180085
240103A00011	1/3/2024	4.84	1/18/2039	154.26969	138.8134727	125.1785755	113.1356189	102.4854536	93.0550221	84.69380816	77.27078682	70.67180085
240103A00018	1/3/2024	4.28	1/4/2027	104.99192	103.8595078	102.751594	101.6673888	100.6061359	99.56711121	98.54962075	97.55299915	96.57660825
240103A00025	1/3/2024	4.48	1/2/2026	100.40467	100.3128782	100.2212568	100.1298058	100.0385245	99.94741255	99.85646946	99.76569476	99.67508796
240103A00026	1/3/2024	4.28	1/4/2027	104.99192	103.8595078	102.751594	101.6673888	100.6061359	99.56711121	98.54962075	97.55299915	96.57660825
240103A00047	6/28/2024	4.05	1/29/2026	100.67578	100.5087665	100.3423117	100.1764098	100.0110583	99.84625431	99.68199521	99.51827829	99.35510088
240103A00049	6/28/2024	4.05	1/29/2026	100.67578	100.5087665	100.3423117	100.1764098	100.0110583	99.84625431	99.68199521	99.51827829	99.35510088
240103A00050	6/28/2024	4.05	1/29/2026	100.67578	100.5087665	100.3423117	100.1764098	100.0110583	99.84625431	99.68199521	99.51827829	99.35510088
240103A00051	6/28/2024	4.05	1/29/2026	100.67578	100.5087665	100.3423117	100.1764098	100.0110583	99.84625431	99.68199521	99.51827829	99.35510088
240103A00052	6/28/2024	4.05	1/29/2026	100.67578	100.5087665	100.3423117	100.1764098	100.0110583	99.84625431	99.68199521	99.51827829	99.35510088
240103A00054	6/28/2024	3.94	6/29/2026	102.36776	101.7770824	101.1932161	100.6160484	100.0454645	99.4813522	98.92360182	98.37210616	97.82676044
240103A00056	6/28/2024	3.94	6/29/2026	102.36776	101.7770824	101.1932161	100.6160484	100.0454645	99.4813522	98.92360182	98.37210616	97.82676044
240103A00057	6/28/2024	3.94	6/29/2026	102.36776	101.7770824	101.1932161	100.6160484	100.0454645	99.4813522	98.92360182	98.37210616	97.82676044
240103A00058	6/28/2024	3.94	6/29/2026	102.36776	101.7770824	101.1932161	100.6160484	100.0454645	99.4813522	98.92360182	98.37210616	97.82676044
240103A00059	6/28/2024	3.94	6/29/2026	102.36776	101.7770824	101.1932161	100.6160484	100.0454645	99.4813522	98.92360182	98.37210616	97.82676044
240104A00070	12/13/2024	3.83	3/5/2027	105.24182	103.9405963	102.6698174	101.4284179	100.2153794	99.02973078	97.87054478	96.73693587	95.62805786
240105A00017	1/5/2024	4.29	1/5/2027	105.01697	103.8815801	102.770814	101.683876	100.6200044	99.57846945	98.55857214	97.55964228	96.58103715
240108A00022	1/8/2024	4.46	1/8/2026	100.47867	100.3701854	100.2619462	100.1539526	100.0462038	99.93869891	99.83143712	99.72441754	99.61763931
240108A00023	1/8/2024	4.27	1/8/2027	105.0363	103.8923077	102.773309	101.6784934	100.607082	99.55832893	98.53151991	97.5259703	96.54102375
240108A00038	1/8/2024	4.13	1/8/2029	114.11196	110.8224814	107.6468067	104.5803276	101.6186498	98.75758375	95.9931341	93.32148892	90.73901024
240108A00040	1/8/2024	4.13	1/8/2029	114.11196	110.8224814	107.6468067	104.5803276	101.6186498	98.75758375	95.9931341	93.32148892	90.73901024
240108A00041	1/9/2024	4.13	1/9/2029	114.12401	110.8315251	107.653028	104.5838966	101.6197265	98.75631891	95.98966953	93.31595821	90.73153926
240109A00025	1/9/2024	4.47	1/9/2026	100.49242	100.38115	100.2701381	100.1593851	100.0488899	99.93865155	99.82866919	99.71894186	99.60946865
240109A00042	1/9/2024	3.99	1/9/2029	113.91525	110.6204829	107.4399348	104.3689686	101.4031666	98.53831733	95.77040463	93.09559728	90.51023917
240109A00048	1/9/2024	4.12	1/9/2029	114.0923	110.8003168	107.6223087	104.5536538	101.5899479	98.72699282	95.96078452	93.28750328	90.70350375
240110A00001	1/10/2024	4.42	1/9/2026	100.48687	100.3755998	100.2645931	100.1538451	100.0433549	99.93312164	99.82314432	99.71342203	99.60395383
240110A00010	1/10/2024	4.42	1/12/2026	100.52445	100.4048272	100.2855034	100.1664787	100.0477518	99.92932161	99.81118692	99.6933466	99.57579951
240110A00021	1/10/2024	4.13	1/10/2028	109.5947	107.3993981	105.2596328	103.1736104	101.1396118	99.15598604	97.22114793	95.33357422	93.49180092
240111A00025	1/11/2024	4.19	1/11/2027	104.98742	103.8352255	102.7083962	101.6061003	100.5275417	99.47195842	98.43862091	97.42683018	96.43591627

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240111A00031	1/11/2024	4.19	1/11/2027	104.98742	103.8352255	102.7083962	101.6061003	100.5275417	99.47195842	98.43862091	97.42683018	96.43591627
240111A00046	12/13/2024	3.68	3/19/2027	105.21439	103.8813153	102.5752683	101.2954377	100.0410437	98.8113375	97.60560007	96.42314045	95.26329444
240112A00022	1/12/2024	4.24	1/12/2026	100.50295	100.3833488	100.2640455	100.1450412	100.0263346	99.90792472	99.78981029	99.67199019	99.55446328
240112A00036	1/12/2024	4.07	1/12/2027	104.86497	103.7106815	102.5818742	101.4777076	100.3973803	99.34012507	98.30520746	97.29192388	96.29960008
240112A00040	1/12/2024	4.24	1/12/2026	100.50295	100.3833488	100.2640455	100.1450412	100.0263346	99.90792472	99.78981029	99.67199019	99.55446328
240112A00044	1/12/2024	4.24	1/12/2026	100.50295	100.3833488	100.2640455	100.1450412	100.0263346	99.90792472	99.78981029	99.67199019	99.55446328
240112A00052	1/12/2024	4.07	1/12/2027	104.86497	103.7106815	102.5818742	101.4777076	100.3973803	99.34012507	98.30520746	97.29192388	96.29960008
240117A00021	1/17/2024	4.06	1/17/2029	114.23402	110.911617	107.7049823	104.6093899	101.6203375	98.73353461	95.94489117	93.25050658	90.64665974
240117A00023	1/17/2024	4.13	1/19/2027	105.10941	103.9325626	102.7821448	101.6572702	100.5570939	99.48080773	98.42763845	97.39684597	96.3877215
240117A00054	1/17/2024	4.22	1/18/2028	109.88989	107.6691197	105.5049351	103.3954897	101.3390169	99.33382136	97.37827578	95.47081719	93.60994405
240118A00020	1/18/2024	4.25	2/18/2027	105.57646	104.312827	103.0795444	101.8755268	100.69974	99.55119798	98.42896032	97.33212941	96.25984812
240119A00007	1/19/2024	4.23	1/19/2029	114.5644	111.2367406	108.0250228	104.92451	101.930692	99.03927071	96.24614907	93.54741994	90.93935604
240119A00024	1/19/2024	4.49	1/20/2026	100.6346	100.4926479	100.3511146	100.2099945	100.0692856	99.92898619	99.78909438	99.64960838	99.51052638
240119A00028	1/19/2024	4.48	1/13/2026	100.54431	100.4218943	100.2997903	100.177999	100.0565192	99.93534964	99.81448911	99.69393638	99.57369022
240119A00029	1/19/2024	4.3	1/13/2027	105.13981	103.9810246	102.8478734	101.7395067	100.6551163	99.59392911	98.55520493	97.53823473	96.54233911
240119A00044	1/23/2024	4.23	1/23/2029	114.61372	111.2739804	108.0509194	104.939753	101.93593	99.03511401	96.23317197	93.52616316	90.91032886
240122A00006	1/22/2024	4.25	1/22/2027	105.20739	104.0226738	102.8647267	101.7326455	100.6255694	99.5426752	98.48317573	97.44631754	96.43137933
240122A00050	1/22/2024	4.25	1/22/2027	105.20739	104.0226738	102.8647267	101.7326455	100.6255694	99.5426752	98.48317573	97.44631754	96.43137933
240123A00037	1/23/2024	4.2	1/17/2029	114.44394	111.1238402	107.9192789	104.8255402	101.8381356	98.95278734	96.1654175	93.47213681	90.86923477
240123A00057	1/23/2024	4.48	1/23/2026	100.67127	100.5209408	100.3710759	100.2216694	100.0727192	99.92422328	99.77617942	99.62858558	99.48143968
240125A00007	1/25/2024	4.27	1/25/2027	105.27228	104.0786527	102.9121746	101.7719299	100.6570397	99.56666381	98.49999907	97.45627694	96.43476187
240125A00040	1/25/2024	4.24	12/15/2026	104.67599	103.6019549	102.5500251	101.5195239	100.5098004	99.52022971	98.55021191	97.59917063	96.66655201
240125A00068	1/25/2024	4.11	1/25/2028	109.89767	107.6542293	105.4683787	103.3382231	101.2619498	99.23782007	97.26416545	95.33938429	93.46193846
240125A00069	1/25/2024	4.11	1/25/2028	109.89767	107.6542293	105.4683787	103.3382231	101.2619498	99.23782007	97.26416545	95.33938429	93.46193846
240126A00031	1/26/2024	4.31	1/26/2026	100.69323	100.5344244	100.376128	100.2183385	100.0610532	99.9042698	99.74798588	99.59219903	99.43690685
240126A00032	1/26/2024	4.31	1/26/2026	100.69323	100.5344244	100.376128	100.2183385	100.0610532	99.9042698	99.74798588	99.59219903	99.43690685
240130A00044	1/30/2024	4.14	1/30/2029	114.40932	111.0531186	107.8147532	104.6893762	101.672368	98.75932836	95.9460648	93.22858092	90.60306602
240130A00047	1/30/2024	4.01	1/30/2029	114.22925	110.8701891	107.6292255	104.5014882	101.482343	98.56737586	95.7523815	93.03335145	90.4064637
240130A00057	1/30/2024	4.15	1/29/2027	105.27002	104.0637561	102.885208	101.7334256	100.6075035	99.50657701	98.4298196	97.37644077	96.34568421
240130A00059	1/30/2024	4.33	1/30/2026	100.74628	100.5762727	100.4068433	100.2379854	100.0696959	99.90197208	99.73481107	99.56821004	99.40216619
240130A00068	1/30/2024	4.17	1/30/2029	114.50622	111.1484564	107.9085704	104.7817126	101.763262	98.84881705	96.034184	93.31536529	90.68854905
240130A00089	1/30/2024	4.17	1/30/2029	114.50622	111.1484564	107.9085704	104.7817126	101.763262	98.84881705	96.034184	93.31536529	90.68854905
240131A00013	1/31/2024	4.13	2/1/2027	105.20265	103.9895919	102.8045745	101.6466352	100.5148526	99.40834671	98.32627682	97.26783901	96.23226434

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240131A00014	1/31/2024	4.04	1/31/2029	114.09812	110.7441149	107.5079949	104.3849041	101.370217	98.45952814	95.64863999	92.93355174	90.31044857
240131A00015	1/31/2024	4.02	1/31/2029	108.8858	106.7749972	104.7301958	102.7488106	100.8283765	98.96654265	97.16106678	95.40980902	93.71072652
240131A00022	3/1/2024	4.13	3/1/2027	105.57358	104.2792765	103.0164364	101.7839191	100.5806389	99.40556154	98.25770114	97.13611731	96.03991263
240131A00034	1/31/2024	4	1/29/2027	105.0927	103.8875528	102.7101017	101.5593989	100.4345395	99.33465919	98.2589319	97.20656753	96.17681017
240131A00039	1/31/2024	4.22	7/31/2026	102.91881	102.2369964	101.5642208	100.9003045	100.2450732	99.59835737	98.95999169	98.32981517	97.70767093
240131A00076	1/31/2024	4.35	1/30/2026	100.73811	100.5682406	100.398943	100.2302149	100.0620535	99.894456	99.72741953	99.56094133	99.39501861
240131A00080	1/31/2024	4.16	1/29/2027	105.19785	103.993331	102.8164632	101.6663053	100.5419544	99.4425482	98.36726221	97.31530804	96.28593132
240201A00003	2/1/2024	4.17	2/2/2026	100.7555	100.577152	100.3994385	100.222355	100.0458984	99.87006513	99.69485198	99.52025565	99.34627287
240201A00027	2/1/2024	3.83	2/1/2029	113.67113	110.3151559	107.0774157	103.953028	100.9373448	98.02593945	95.21459505	92.49929247	89.87619985
240201A00038	2/1/2024	4.3	2/2/2026	100.76645	100.5882149	100.4106151	100.2336435	100.0572968	99.88157164	99.70646482	99.53197305	99.35809309
240201A00040	2/1/2024	4.08	2/1/2030	118.59931	114.1062362	109.8122599	105.7074214	101.7823185	98.02807177	94.43629252	90.99905225	87.70885479
240201A00042	2/1/2024	4.24	2/1/2033	130.62892	122.6034154	115.144644	108.2092546	101.7574385	95.75262539	90.16120328	84.9522639	80.09737141
240201A00043	2/1/2024	4.27	2/1/2034	134.14207	124.9205115	116.4278572	108.6020385	101.3866019	94.73017164	88.58596716	82.91136906	77.66752818
240201A00056	2/1/2024	4.3	2/2/2026	100.76645	100.5882149	100.4106151	100.2336435	100.0572968	99.88157164	99.70646482	99.53197305	99.35809309
240201A00065	2/1/2024	4.33	2/2/2026	100.77178	100.5935411	100.4159344	100.2389559	100.0626023	99.88687029	99.71175662	99.53725802	99.36337125
240202A00016	2/2/2024	4.25	2/2/2027	105.35903	104.1421536	102.9534648	101.7919947	100.6568151	99.54703969	98.46182152	97.40035097	96.3618537
240202A00017	2/2/2024	4.23	8/3/2026	103.0106	102.3194592	101.6376039	100.9648492	100.3010137	99.64592074	98.99939816	98.36127843	97.73139832
240202A00029	2/2/2024	4.15	2/2/2029	114.4801	111.1137175	107.8657864	104.7314149	101.7059494	98.78495812	95.96421888	93.23970761	90.60758766
240202A00030	2/2/2024	4.32	2/3/2031	123.94584	118.2559646	112.8690192	107.7671558	102.9336769	98.35295616	94.01036288	89.89219343	85.98560707
240206A00017	2/6/2024	4.33	8/6/2027	107.94969	106.2105698	104.5082467	102.8416128	101.2096094	99.6112198	98.0454673	96.5114132	95.0081549
240207A00006	2/7/2024	4.06	2/7/2029	114.49521	111.1072286	107.8390331	104.6856572	101.6423727	98.70467801	95.86828548	93.12910982	90.48325699
240207A00022	2/7/2024	4.25	2/7/2028	110.2161	107.9347436	105.7126043	103.5477089	101.4381695	99.3821767	97.37799527	95.42396057	93.51847506
240207A00025	2/8/2024	4.2	1/8/2029	114.33374	111.0407493	107.8616571	104.7918484	101.8269262	98.9626981	96.1951659	93.52051508	90.93510513
240208A00053	2/8/2024	4.58	2/9/2026	100.90781	100.7099723	100.5129201	100.3166489	100.1211539	99.92643061	99.73247433	99.5392805	99.34684459
240208A00055	2/8/2024	4.37	2/8/2027	105.58569	104.350368	103.1440554	101.9657389	100.8144506	99.68926675	98.58930545	97.51372406	96.46171715
240209A00007	2/9/2024	4.5	12/9/2025	100.11591	100.0908513	100.0658198	100.0408158	100.0158394	99.9908903	99.9659686	99.94107421	99.91620709
240209A00019	2/9/2024	4.39	2/9/2027	105.62386	104.3854549	103.1761987	101.9950687	100.8410905	99.71333404	98.61091152	97.53297476	96.47871313
240209A00020	2/9/2024	4.58	2/9/2026	100.90781	100.7099723	100.5129201	100.3166489	100.1211539	99.92643061	99.73247433	99.5392805	99.34684459
240212A00029	2/12/2024	4.58	2/12/2026	100.94706	100.7408408	100.5354722	100.3309523	100.1272757	99.92443732	99.72243177	99.52125394	99.32089866
240213A00022	2/13/2024	4.6	8/13/2026	103.34866	102.6289221	101.9192391	101.2194018	100.5292061	99.84845304	99.17694956	98.51450762	97.86094429
240214A00007	2/14/2024	4.7	2/17/2026	101.03882	100.8185713	100.5992934	100.3809803	100.1636255	99.94722272	99.73176562	99.51724797	99.30366358
240214A00019	2/15/2024	4.41	1/26/2029	115.23008	111.8719758	108.6313414	105.503357	102.4834321	99.56719386	96.75047465	94.02930134	91.39988467
240215A00026	2/15/2024	4.48	2/10/2027	105.74719	104.5051566	103.2924158	102.1079405	100.9507491	99.81990535	98.7145151	97.63372446	96.57671736

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240215A00033	2/15/2024	4.35	2/16/2027	105.7605	104.4999752	103.2696088	102.0683248	100.8950995	99.74895641	98.62896421	97.53423377	96.46391594
240215A00046	4/1/2024	4.49	4/1/2027	106.46426	105.0919809	103.7440631	102.4199098	101.1189448	99.84061019	98.58436551	97.3496871	96.13606746
240216A00012	2/16/2024	4.53	8/16/2027	108.4292	106.6581972	104.9250641	103.228653	101.5678607	99.94162846	98.34893974	96.78881817	95.26032543
240220A00031	2/20/2024	4.68	2/20/2026	101.07452	100.8458753	100.6182735	100.3917079	100.1661713	99.94165675	99.71815726	99.4956659	99.27417583
240221A00014	2/21/2024	4.53	2/22/2027	105.98041	104.7027525	103.4560301	102.2391287	101.0509858	99.89058887	98.75697268	97.64921621	96.56644029
240221A00015	2/21/2024	4.48	2/22/2028	110.94023	108.6060027	106.3332149	104.1197883	101.9637339	99.86314682	97.81620192	95.82114972	93.87631253
240226A00010	2/26/2024	4.53	7/15/2027	107.98775	106.3090983	104.6651048	103.0547586	101.4770914	99.931172	98.41610451	96.93102665	95.47510815
240226A00025	2/26/2024	4.43	2/26/2027	106.00228	104.7116774	103.4526206	102.2239582	101.0245978	99.85349865	98.70966909	97.59216324	96.50007857
240229A00026	2/29/2024	4.74	2/27/2026	101.1829	100.9345994	100.6875181	100.4416451	100.1969717	99.95348908	99.71118859	99.47006167	99.23009982
240229A00027	2/29/2024	4.54	2/26/2027	106.05051	104.761002	103.5029811	102.2753041	101.0768811	99.90667391	98.76369303	97.64699473	96.55567849
240301A00023	3/1/2024	4.17	3/1/2029	115.14898	111.6818549	108.3392583	105.1159404	102.0069114	99.00742468	96.11296346	93.31922759	90.62212167
240301A00024	3/1/2024	4.17	3/1/2029	115.14898	111.6818549	108.3392583	105.1159404	102.0069114	99.00742468	96.11296346	93.31922759	90.62212167
240301A00025	3/1/2024	4.45	3/1/2027	105.97934	104.682316	103.4168007	102.1816534	100.9757872	99.79816667	98.64780472	97.52375984	96.4251335
240305A00010	3/5/2024	4.66	3/5/2026	101.24308	100.9780209	100.714354	100.4520704	100.191159	99.931609	99.6734098	99.4165508	99.16102153
240305A00011	3/5/2024	4.55	9/4/2026	103.60402	102.8216865	102.0511952	101.2922783	100.5446761	99.80813646	99.08241498	98.36727423	97.66248375
240306A00010	3/6/2024	4.22	3/6/2029	115.1283	111.6534445	108.3037038	105.0738138	101.9587689	98.95380591	96.0543903	93.25620386	90.55513265
240307A00022	3/7/2024	4.09	3/7/2029	114.95615	111.475249	108.1199296	104.8849064	101.7651505	98.75587643	95.85252859	93.05076849	90.34646294
240308A00005	3/8/2024	4.03	3/8/2029	114.76799	111.2873844	107.9324715	104.6979572	101.5788083	98.57023519	95.6676778	92.86679333	90.16344422
240308A00011	3/8/2024	4.54	3/9/2026	101.26341	100.9872002	100.7125128	100.4393309	100.167642	99.8974339	99.62869433	99.36141129	99.09557287
240308A00031	3/8/2024	4.46	9/16/2026	103.69192	102.8756424	102.07225	101.2814429	100.5029265	99.73641525	98.9816326	98.23831032	97.50618834
240311A00006	3/11/2024	4.6	3/11/2026	101.30624	101.0243971	100.7441395	100.4654498	100.1883146	99.91272093	99.6386558	99.36610644	99.09506018
240311A00009	3/11/2024	4.38	3/11/2027	106.02753	104.7072056	103.4159536	102.1528147	100.9168693	99.70723761	98.52307832	97.36358584	96.22798865
240312A00009	3/12/2024	4.68	3/12/2026	101.34207	101.0573856	100.7743161	100.4928459	100.2129614	99.93464908	99.65789562	99.38268786	99.10901276
240312A00013	3/12/2024	4.68	3/12/2026	101.34207	101.0573856	100.7743161	100.4928459	100.2129614	99.93464908	99.65789562	99.38268786	99.10901276
240312A00015	3/12/2024	4.13	3/12/2029	115.15064	111.6523438	108.2806773	105.0303127	101.8961827	98.8734637	95.95756252	93.1441036	90.42891735
240313A00023	3/13/2024	4.68	3/13/2026	101.35546	101.0679685	100.7821265	100.4979152	100.2153207	99.93432914	99.65492672	99.3770999	99.10083527
240314A00012	3/14/2024	4.62	3/13/2026	101.35844	101.0707232	100.7846585	100.5002284	100.2174189	99.93621593	99.65660575	99.37857472	99.10210937
240314A00013	3/14/2024	4.62	3/13/2026	101.35844	101.0707232	100.7846585	100.5002284	100.2174189	99.93621593	99.65660575	99.37857472	99.10210937
240315A00015	3/15/2024	4.8	3/16/2026	101.43095	101.1349831	100.8407551	100.5482537	100.2574635	99.96836938	99.68095648	99.39521004	99.11111547
240318A00014	3/18/2024	4.67	3/18/2026	101.4405	101.1387163	100.8387408	100.5405603	100.2441583	99.94951902	99.65662654	99.36546525	99.07601972
240318A00015	3/18/2024	4.47	2/20/2029	115.76992	112.3264511	109.0056041	105.802254	102.7115213	99.72876295	96.84955892	94.06969978	91.38517516
240318A00020	3/18/2024	4.48	3/19/2029	114.98919	111.7152463	108.5592958	105.5163993	102.5818489	99.75115897	97.02005505	94.38446224	91.84049495
240319A00003	3/19/2024	4.65	3/19/2026	101.448	101.1434118	100.8406693	100.5397541	100.2406496	99.94333921	99.64780686	99.35403646	99.06201217

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240319A00004	3/19/2024	4.47	3/19/2027	106.35041	105.0079551	103.692718	102.4038812	101.1406589	99.90229694	98.68807089	97.49728473	96.32926938
240319A00012	3/19/2024	4.77	4/14/2026	101.81758	101.4400922	101.0654195	100.6935283	100.3243875	99.95796663	99.59423551	99.23316448	98.8747243
240319A00014	3/19/2024	4.44	3/19/2029	116.02781	112.5011676	109.1025306	105.8265323	102.6680607	99.62224768	96.68445507	93.85026273	91.11545679
240320A00010	3/20/2024	4.77	3/20/2036	145.73514	133.717827	122.8538251	113.0244831	104.1239977	96.05796142	88.74207927	82.10103614	76.06749614
240322A00013	3/22/2024	4.18	3/22/2029	115.44168	111.9101553	108.5073163	105.2277615	102.0663472	99.01817362	96.07857255	93.24309445	90.50749714
240322A00014	3/22/2024	4.51	5/22/2026	102.24575	101.7609077	101.2806817	100.8050032	100.3338075	99.86703134	99.40461258	98.94649021	98.4926044
240322A00018	3/22/2024	4.34	3/22/2027	106.22034	104.8718687	103.549869	102.2535797	100.9822677	99.73522814	98.51178285	97.31127911	96.13308845
240322A00029	3/22/2024	4.36	3/22/2027	106.24689	104.8982271	103.576045	102.2795764	101.0080881	99.76087529	98.53725959	97.33658822	96.15823265
240322A00032	3/22/2024	4.67	3/23/2026	101.4862	101.1706335	100.8570445	100.5454097	100.2357108	99.92792982	99.62204885	99.31805027	99.01591666
240325A00040	3/25/2024	4.46	4/30/2027	106.82804	105.3708533	103.9408926	102.5374593	101.1598776	99.80749432	98.47967763	97.17581651	95.89531978
240325A00060	3/25/2024	4.57	3/25/2026	101.50342	101.182003	100.8626306	100.5452834	100.2299422	99.9165878	99.6052015	99.29576471	98.98825909
240326A00042	3/26/2024	4.71	3/26/2026	101.53917	101.2151427	100.8931925	100.5732966	100.2554356	99.93958989	99.62574041	99.31386819	99.00395458
240327A00016	3/27/2024	4.56	3/27/2026	101.52672	101.1996788	100.8747504	100.5519144	100.2311508	99.91243948	99.59576078	99.28109525	98.96842369
240327A00025	3/27/2024	4.35	3/26/2027	106.2889	104.930715	103.5980371	102.2901794	101.0064791	99.74629688	98.50901622	97.29404202	96.10079987
240327A00028	3/27/2024	4.4	3/27/2028	111.21105	108.77738	106.4098871	104.1063954	101.8648104	99.68311895	97.55938564	95.49174944	93.47842023
240328A00017	3/28/2024	4.6	3/30/2026	101.5798	101.2442801	100.9109769	100.5798685	100.2509331	99.92414947	99.59949655	99.27695354	98.9564999
240328A00018	3/28/2024	4.39	3/29/2027	106.38424	105.0184518	103.6774529	102.3606129	101.067322	99.79699048	98.54904824	97.32294383	96.11814374
240328A00022	3/28/2024	4.3	3/28/2028	111.16116	108.7217646	106.3488382	104.0401933	101.7937261	99.60741483	97.47931538	95.40755821	93.39034492
240328A00023	3/28/2024	4.22	3/28/2029	115.65161	112.0994955	108.677333	105.3796686	102.201311	99.1373137	96.18296207	93.33376097	90.58542345
240328A00026	3/28/2024	4.6	3/27/2026	101.53972	101.2126551	100.8877004	100.5648384	100.2440488	99.9253116	99.60860716	99.29391602	98.98121898
240328A00027	3/28/2024	4.39	3/29/2027	106.38424	105.0184518	103.6774529	102.3606129	101.067322	99.79699048	98.54904824	97.32294383	96.11814374
240328A00052	3/28/2024	4.34	3/28/2029	115.80464	112.2562089	108.8374255	105.5428572	102.36733	99.30591382	96.35390905	93.5068349	90.76041784
240328A00061	3/28/2024	4.35	3/28/2029	115.83854	112.2895371	108.870197	105.5750872	102.399033	99.33710389	96.38459972	93.53703926	90.79014854
240328A00063	3/28/2024	4.47	3/28/2030	120.97869	116.2694023	111.7748529	107.4841019	103.3868241	99.47327062	95.73423432	92.16101636	88.74539578
240328A00064	3/28/2024	4.48	3/28/2031	125.41304	119.5242073	113.9562581	108.6899561	103.7073185	98.99152582	94.52684084	90.29853367	86.29281226
240328A00065	7/16/2024	4.46	7/16/2032	130.27457	122.8427306	115.9002479	109.4120524	103.3457734	97.6715184	92.36167	87.39070138	82.73500717
240401A00006	4/1/2024	4.32	4/2/2029	115.42059	111.9851792	108.6763265	105.4886461	102.417011	99.45653988	96.6025842	93.8507155	91.19671382
240401A00009	4/1/2024	4.79	4/1/2026	101.64712	101.3061585	100.9674808	100.6310665	100.296893	99.96493799	99.63517938	99.30759548	98.98216481
240401A00016	4/1/2024	4.47	4/1/2027	106.53448	105.1601621	103.8102651	102.4841887	101.1813548	99.90120378	98.64319349	97.40679865	96.19151025
240401A00027	4/1/2024	4.82	4/1/2026	101.65729	101.3163045	100.9776055	100.6411701	100.3069755	99.97499948	99.64522001	99.31761533	98.99216401
240402A00015	4/2/2024	4.61	11/15/2027	109.84581	107.8048596	105.8127448	103.8679949	101.9691907	100.1149656	98.30400264	96.53503296	94.80683333
240402A00044	4/2/2024	4.83	4/2/2026	101.67449	101.3306933	100.9892196	100.6500484	100.3131565	99.9785208	99.64611884	99.31592825	98.98792699
240403A00006	4/3/2024	4.71	4/3/2026	101.67118	101.324332	100.9798588	100.637732	100.2979278	99.96042236	99.62519248	99.29221513	98.9614676

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240403A00008	4/3/2024	4.67	4/2/2027	106.72258	105.3456335	103.9931693	102.6645919	101.359321	100.0767948	98.81646894	97.57781626	96.36032574
240403A00010	4/3/2024	4.54	4/5/2027	106.68683	105.3000797	103.9381481	102.6004233	101.2863137	99.99524644	98.7266669	97.48003785	96.25483876
240403A00013	4/3/2024	4.58	4/17/2028	111.92772	109.4251501	106.992097	104.6262386	102.3253451	100.0872738	97.90996536	95.79143997	93.72979383
240403A00018	4/3/2024	4.67	4/5/2027	106.76616	105.3803998	104.0194145	102.682597	101.3693568	100.0791227	98.81134118	97.56547622	96.34100845
240403A00022	4/3/2024	4.53	4/3/2029	116.52834	112.9503775	109.5036033	106.1825114	102.9818581	99.8966463	96.92211239	94.05371428	91.28711981
240404A00004	4/4/2024	4.45	4/4/2029	116.26897	112.6924869	109.2472774	105.9278284	102.7288882	99.64545232	96.67275025	93.80623356	91.04156421
240404A00012	4/4/2024	4.46	4/4/2029	116.30307	112.7260051	109.2802328	105.9602362	102.7607633	99.6768088	96.70360195	93.83659377	91.07144576
240404A00014	4/4/2024	4.78	4/6/2026	101.71211	101.3571123	101.0046009	100.6545491	100.306931	99.96172141	99.61889515	99.27842757	98.94029429
240404A00015	4/4/2024	4.6	4/5/2027	106.67057	105.2854938	103.9251826	102.5890277	101.2764391	99.98684571	98.71969434	97.47444926	96.25059137
240404A00019	6/3/2024	4.55	6/1/2027	107.39859	105.8488991	104.3297929	102.8404399	101.3800405	99.94782336	98.54304397	97.16498364	95.81294828
240404A00020	6/3/2024	4.55	6/1/2027	107.39859	105.8488991	104.3297929	102.8404399	101.3800405	99.94782336	98.54304397	97.16498364	95.81294828
240404A00021	4/4/2024	4.57	4/1/2031	123.25133	117.9707502	112.970742	108.2345991	103.7467018	99.49244201	95.45815224	91.63104011	87.99912772
240404A00022	4/4/2024	4.78	4/6/2026	101.71211	101.3571123	101.0046009	100.6545491	100.306931	99.96172141	99.61889515	99.27842757	98.94029429
240404A00023	4/4/2024	4.51	4/24/2028	111.85425	109.3323488	106.881028	104.4979104	102.1807157	99.92725392	97.73542053	95.60319311	93.52862742
240405A00005	4/5/2024	4.81	4/6/2026	101.72269	101.3676737	101.0151395	100.665065	100.3174244	99.97219241	99.62934386	99.28885409	98.95069874
240405A00006	4/5/2024	4.63	4/5/2027	106.71154	105.3261678	103.9655677	102.6291288	101.316261	100.026393	98.75897156	97.51346081	96.28934154
240405A00017	4/5/2024	4.5	4/5/2027	106.63218	105.2458208	103.884275	102.5469293	101.2331925	99.94249181	98.67427282	97.42799843	96.20314828
240408A00015	4/8/2024	4.54	4/5/2029	116.58928	113.004433	109.551218	106.2241022	103.0178167	99.92734081	96.94788874	94.07489761	91.30401574
240408A00020	4/8/2024	4.86	4/8/2026	101.76813	101.4074491	101.0493354	100.6937612	100.3406993	99.99012324	99.64200661	99.29632352	98.95304841
240408A00026	4/8/2024	4.86	4/8/2026	101.76813	101.4074491	101.0493354	100.6937612	100.3406993	99.99012324	99.64200661	99.29632352	98.95304841
240409A00021	4/9/2024	4.83	4/9/2026	101.77119	101.4077244	101.0468628	100.6885805	100.33285	99.97964371	99.62893492	99.28069703	98.93490389
240409A00035	4/9/2024	4.66	4/9/2027	106.81051	105.4130825	104.0408259	102.6931121	101.3693376	100.0689179	98.79128751	97.53589854	96.30222034
240410A00007	4/10/2024	4.64	4/10/2028	112.15156	109.6628681	107.2428502	104.8892254	102.5998048	100.3724846	98.20524219	96.09613272	94.04328535
240410A00008	4/10/2024	4.56	4/10/2029	116.98311	113.3705201	109.8911684	106.5394323	103.3099551	100.1976338	97.19760538	94.30523432	91.51610075
240412A00017	4/12/2024	4.84	4/10/2026	101.81425	101.4476122	101.0836289	100.7222712	100.3635103	100.0073184	99.65366767	99.3025309	98.95388121
240415A00060	4/15/2024	5.06	4/15/2026	101.94079	101.5602405	101.1825459	100.807675	100.4355962	100.0662782	99.69969019	99.33580189	98.9745834
240416A00018	4/16/2024	5.04	4/16/2026	101.94763	101.5642798	101.1838249	100.8062348	100.4314771	100.05952	99.69033181	99.32388173	98.96013919
240416A00019	4/16/2024	4.91	4/16/2027	107.26109	105.8405067	104.4458241	103.0763929	101.7315842	100.4107899	99.1134213	97.83890848	96.58669973
240416A00020	4/16/2024	4.85	4/17/2028	112.58174	110.0711604	107.6302663	105.2567358	102.9483339	100.7029131	98.51840936	96.39283835	94.32429194
240416A00030	4/16/2024	4.78	4/16/2027	107.18026	105.7586541	104.3629964	102.9926313	101.6469284	100.3252782	99.02709045	97.75179416	96.49883632
240417A00015	4/17/2024	4.76	4/16/2027	107.15232	105.7309189	104.3354624	102.965295	101.6197866	100.2983275	99.00032774	97.72521637	96.47244046
240417A00016	4/17/2024	4.63	4/17/2029	117.32071	113.6817245	110.1776165	106.8026592	103.5514042	100.418662	97.39948867	94.48917294	91.68322367
240417A00017	4/17/2024	4.63	4/17/2029	117.32071	113.6817245	110.1776165	106.8026592	103.5514042	100.418662	97.39948867	94.48917294	91.68322367

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240418A00004	4/18/2024	4.87	4/18/2031	127.7944	121.7793431	116.094383	110.7195838	105.636312	100.8271483	96.27580278	91.96703605	87.8865861
240418A00019	4/18/2024	5.05	4/17/2026	101.96586	101.5796825	101.1964408	100.8161053	100.4386429	100.064021	99.69220735	99.32317043	98.95687907
240419A00026	4/23/2024	5.07	4/1/2026	101.74202	101.4008547	101.0619783	100.7253663	100.3909961	100.0588453	99.72889189	99.40111415	99.07549061
240422A00040	4/22/2024	4.85	10/22/2026	104.586	103.6636408	102.7576146	101.8674907	100.9928523	100.133297	99.28843627	98.45789498	97.64131056
240422A00041	4/22/2024	4.92	4/22/2026	102.01454	101.6139835	101.2165805	100.8222986	100.431101	100.0429515	99.65781438	99.27565464	98.89643769
240423A00027	4/23/2024	4.93	3/31/2027	107.04496	105.6713858	104.3221431	102.9966424	101.6943091	100.4145863	99.15693493	97.9208324	96.70577235
240423A00028	4/23/2024	5.08	3/31/2026	101.7309	101.3925371	101.056423	100.7225346	100.3908497	100.0613468	99.73400432	99.40880112	99.0857163
240423A00032	4/23/2024	5.06	4/20/2026	102.01306	101.6184029	101.2268147	100.8382574	100.452696	100.0700957	99.69042239	99.31364245	98.93972279
240423A00034	4/23/2024	4.92	4/19/2027	107.32074	105.8911833	104.487827	103.110012	101.7570993	100.4284704	99.1235271	97.84169049	96.5824
240424A00030	4/24/2024	4.89	4/21/2027	107.3089	105.8737314	104.4649638	103.0819254	101.7239701	100.390473	99.08082976	97.79445525	96.53078325
240425A00010	4/25/2024	4.83	4/26/2027	107.40202	105.950268	104.5254709	103.1269439	101.7540212	100.4060594	99.08243599	97.78254889	96.50581546
240425A00021	4/25/2024	4.83	4/26/2027	107.40202	105.950268	104.5254709	103.1269439	101.7540212	100.4060594	99.08243599	97.78254889	96.50581546
240425A00028	4/25/2024	4.9	4/25/2028	112.82142	110.2846723	107.8189187	105.421769	103.090928	100.8241914	98.61944102	96.47464157	94.38783634
240425A00029	4/25/2024	4.85	4/25/2029	117.93332	114.2667103	110.7365672	107.3370748	104.0626955	100.9081566	97.86843618	94.93874941	92.11453644
240425A00030	4/25/2024	4.85	4/25/2029	117.93332	114.2667103	110.7365672	107.3370748	104.0626955	100.9081566	97.86843618	94.93874941	92.11453644
240425A00032	4/25/2024	4.92	4/25/2030	123.35524	118.5107671	113.8901966	109.481962	105.2751586	101.2594984	97.42527223	93.76331392	90.26496733
240425A00033	4/25/2024	4.96	4/27/2026	102.10232	101.6875847	101.2762199	100.8681895	100.463453	100.0619705	99.66370299	99.26861178	98.87665895
240425A00034	4/25/2024	4.96	4/27/2026	102.10232	101.6875847	101.2762199	100.8681895	100.463453	100.0619705	99.66370299	99.26861178	98.87665895
240426A00012	4/26/2024	4.92	4/27/2026	102.08588	101.6711759	101.2598513	100.8518609	100.4471642	100.0457213	99.64749299	99.25244084	98.86052685
240426A00024	4/26/2024	4.79	4/26/2029	117.04996	113.5235921	110.1290998	106.8607778	103.713201	100.6812094	97.75989292	94.94457792	92.23081467
240426A00026	4/26/2024	5.05	4/30/2026	102.15341	101.7304976	101.3110906	100.8951409	100.4826057	100.0734433	99.66761229	99.26507226	98.8657833
240426A00044	4/26/2024	4.78	4/26/2027	107.33078	105.8795536	104.4552791	103.0572658	101.6848481	100.3373827	99.01424758	97.71484069	96.43857965
240429A00006	4/29/2024	4.86	10/29/2026	104.69744	103.7547862	102.829169	101.9201265	101.0272156	100.1500093	99.28809515	98.44107531	97.60856554
240429A00008	4/29/2024	4.93	4/29/2026	102.11858	101.6982065	101.2812992	100.8678124	100.4577041	100.050933	99.64745852	99.24724067	98.85024012
240429A00052	4/29/2024	4.91	5/3/2027	107.51828	106.0476509	104.6046422	103.1885398	101.7986542	100.4343194	99.09489127	97.77974714	96.48828452
240430A00034	4/30/2024	4.69	4/30/2029	117.71093	114.0268326	110.4805622	107.0662117	103.7781627	100.611067	97.55983173	94.61960603	91.78576801
240430A00035	4/30/2024	4.94	4/30/2027	107.51701	106.0546413	104.6195925	103.2111584	101.828661	100.4714445	99.13887511	97.83033954	96.5452446
240501A00017	5/1/2024	5.13	5/1/2026	102.20163	101.7758226	101.353562	100.9348069	100.5195136	100.1076394	99.69914221	99.29398056	98.89211373
240501A00018	12/23/2024	4.83	12/23/2026	105.42046	104.3195373	103.2417139	102.1862681	101.1525068	100.1397655	99.14740648	98.17481772	97.22141146
240501A00054	5/6/2024	4.79	5/4/2029	117.85097	114.1596323	110.6066316	107.1860264	103.8921667	100.719675	97.66343111	94.71855848	91.88041135
240502A00013	5/2/2024	4.68	5/2/2028	112.56428	110.0068318	107.5215786	105.1060685	102.7579486	100.47496	98.25493278	96.09578271	93.99550673
240502A00017	5/2/2024	4.81	5/2/2028	112.70257	110.147172	107.6638227	105.2500822	102.9036045	100.622137	98.4035161	96.24566322	94.14658083
240502A00030	5/2/2024	4.75	5/2/2029	117.6839	114.001168	110.4562626	107.0432811	103.7566019	100.5908736	97.54100085	94.60213027	91.76963783

	Parallel-Shift Sensitivity Analysis											
11/30/2025				Price								
REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240503A00009	5/3/2024	4.61	5/3/2029	117.20879	113.5314599	109.9919365	106.5843115	103.3029585	100.1425222	97.09790307	94.16424458	91.33691962
240503A00016	5/3/2024	4.72	5/3/2028	112.36466	109.8133573	107.3340444	104.9242761	102.5817071	100.3040858	98.08924943	95.93512035	93.83970188
240503A00035	5/3/2024	4.92	5/1/2026	102.11295	101.6873678	101.2653293	100.8467948	100.4317208	100.0200646	99.61178403	99.20683774	98.80518498
240506A00011	5/6/2024	4.46	5/4/2029	116.96115	113.2786728	109.7345012	106.3226868	103.0375732	99.8737764	96.82617087	93.88987516	91.06023909
240506A00020	5/6/2024	4.73	5/6/2027	107.30124	105.8240028	104.3746614	102.9524908	101.5567914	100.1868872	98.84212465	97.52187207	96.22551836
240507A00017	5/7/2024	4.51	5/8/2028	112.22621	109.6561531	107.1591362	104.7326618	102.3743343	100.0818543	97.85301377	95.68569242	93.57785312
240507A00019	5/7/2024	4.51	5/8/2028	112.22621	109.6561531	107.1591362	104.7326618	102.3743343	100.0818543	97.85301377	95.68569242	93.57785312
240507A00020	5/7/2024	4.6	5/7/2027	107.23132	105.7501628	104.2970475	102.8712475	101.4720578	100.0987971	98.75080693	97.42745082	96.12811319
240507A00021	5/7/2024	4.77	5/7/2026	102.16278	101.720002	101.2810787	100.845956	100.4145843	99.98691531	99.56290126	99.14249531	98.72565139
240507A00034	5/7/2024	4.9	5/7/2026	102.18868	101.7462087	101.3075762	100.872737	100.441642	100.0142428	99.59049183	99.17034247	98.75374877
240507A00042	5/7/2024	4.57	5/7/2029	117.12173	113.4345483	109.8859742	106.4700444	103.181083	100.0136885	96.96271865	94.02327652	91.19069749
240507A00043	5/7/2024	4.9	5/7/2026	102.18868	101.7462087	101.3075762	100.872737	100.441642	100.0142428	99.59049183	99.17034247	98.75374877
240507A00048	5/7/2024	4.73	5/7/2027	107.31552	105.8354212	104.3833249	102.9584989	101.56024	100.1878684	98.84072722	97.51818148	96.21961694
240507A00049	5/7/2024	4.64	5/8/2028	112.36578	109.7977737	107.3026666	104.8779659	102.521283	100.230325	98.00289033	95.83686446	93.73021587
240507A00051	5/7/2024	4.57	5/7/2029	117.12173	113.4345483	109.8859742	106.4700444	103.181083	100.0136885	96.96271865	94.02327652	91.19069749
240508A00005	5/8/2024	4.59	5/8/2031	126.91783	120.8526417	115.1242824	109.7121767	104.5971144	99.76115103	95.18751824	90.86054051	86.76555864
240508A00006	5/8/2024	4.92	5/8/2026	102.21155	101.766229	101.3248027	100.8872185	100.4534265	100.0233773	99.59702239	99.17431427	98.75520611
240509A00005	5/9/2024	4.62	5/9/2029	117.32342	113.6270411	110.0697872	106.6456665	103.3489746	100.1742827	97.1164231	94.17047518	91.33175193
240509A00010	5/9/2024	4.6	5/10/2027	107.27368	105.7839339	104.3225442	102.8887701	101.4818951	100.1012269	98.74609683	97.41585833	96.10988632
240509A00022	5/9/2024	4.66	5/9/2028	112.42915	109.8575477	107.3590186	104.9310614	102.5712791	100.2773714	98.04712925	95.87843128	93.76923946
240509A00023	5/9/2024	4.6	5/9/2029	117.25326	113.5581047	110.0020402	106.5790759	103.2835084	100.1099102	97.05311479	94.10820236	91.27048701
240510A00020	5/10/2024	4.63	5/10/2027	107.3176	105.8275187	104.3657988	102.9317003	101.5245062	100.1435245	98.78808608	97.45754434	96.15127408
240513A00022	5/13/2024	4.92	5/13/2026	102.28198	101.8225409	101.3672499	100.9160475	100.4688785	100.0256888	99.58642518	99.15103557	98.71946865
240513A00024	5/13/2024	4.74	5/13/2027	107.4159	105.9185266	104.4497786	103.0089035	101.595175	100.2078918	98.84637586	97.50997231	96.19804784
240513A00025	5/13/2024	4.67	5/12/2028	112.49531	109.9144739	107.4071947	104.9709512	102.6033231	100.3019876	98.06471512	95.88936421	93.77387813
240513A00026	5/13/2024	4.6	5/14/2029	117.31942	113.6088817	110.0385299	106.6022978	103.294417	100.1093988	97.0420198	94.08730698	91.24052457
240513A00045	5/17/2024	4.73	6/17/2027	107.90946	106.3100555	104.7427031	103.2065136	101.7006274	100.224216	98.77648093	97.35665203	95.96398646
240514A00049	5/14/2024	4.84	2/5/2026	100.91667	100.7297819	100.5435954	100.3581041	100.173304	99.9891912	99.80576188	99.62301218	99.4409383
240514A00065	5/14/2024	4.59	5/14/2029	117.2842	113.5742778	110.0045253	106.5688759	103.2615615	100.0770943	97.01025132	94.05606004	91.20978523
240515A00002	5/15/2024	4.4	11/13/2028	114.46919	111.3284625	108.2921094	105.3560799	102.5165043	99.76968448	97.11208538	94.54032691	92.0511761
240515A00003	5/15/2024	4.36	5/15/2029	116.75188	113.0417518	109.4721517	106.0369858	102.7304602	99.54706263	96.48154755	93.52892153	90.68442976
240515A00023	5/15/2024	4.51	5/15/2029	117.01541	113.3073565	109.7395481	106.3059131	103.0006754	99.81833934	96.75367501	93.80170345	90.95768342
240515A00024	5/15/2024	4.59	5/15/2028	112.33658	109.749334	107.2360763	104.7942584	102.4214386	100.1152737	97.87351429	95.694001	93.57465969

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240515A00026	5/15/2024	4.64	5/17/2027	107.32485	105.8171665	104.3385067	102.8881039	101.465217	100.06913	98.69915185	97.3546144	96.03487203
240515A00027	5/15/2024	4.5	5/19/2027	107.25185	105.7374691	104.2523658	102.7957673	101.3669228	99.96510744	98.58962127	97.23978797	95.91495399
240515A00035	5/15/2024	4.57	5/15/2028	112.28656	109.6999504	107.1873105	104.7460968	102.3738681	100.0682813	97.82708784	95.64812841	93.52932931
240515A00036	5/17/2024	4.63	6/17/2027	107.75253	106.1544049	104.5883096	103.0533552	101.5486825	100.0734638	98.62690104	97.20822464	95.81669228
240515A00037	5/15/2024	4.5	5/15/2029	116.98016	113.2727256	109.7055173	106.2724658	102.9677955	99.78601123	96.72188368	93.77043442	90.92692272
240515A00038	5/15/2024	4.5	5/15/2029	116.98016	113.2727256	109.7055173	106.2724658	102.9677955	99.78601123	96.72188368	93.77043442	90.92692272
240515A00039	5/15/2024	4.57	5/15/2030	122.03437	117.1610737	112.516004	108.0872226	103.8634831	99.83418317	95.98932432	92.31947434	88.81573219
240515A00041	7/1/2024	4.69	7/1/2027	108.05169	106.4111719	104.8039954	103.2292103	101.6859035	100.1731963	98.69024232	97.2362263	95.81036241
240515A00048	7/1/2024	4.55	7/2/2029	117.79921	113.9376095	110.2265302	106.6592435	103.2293619	99.93081968	96.7578547	93.7049912	90.76702381
240515A00050	7/1/2024	4.55	7/2/2029	117.79921	113.9376095	110.2265302	106.6592435	103.2293619	99.93081968	96.7578547	93.7049912	90.76702381
240515A00052	7/1/2024	4.79	7/3/2034	140.02158	130.1071358	121.0069906	112.6490719	104.9680695	97.90476817	91.40544895	85.42135136	79.90819131
240515A00066	6/28/2024	4.8	6/29/2026	102.87194	102.2795788	101.6940454	101.1152242	100.5430004	99.97726155	99.41789776	98.86480169	98.31786835
240515A00067	6/28/2024	4.8	6/29/2026	102.87194	102.2795788	101.6940454	101.1152242	100.5430004	99.97726155	99.41789776	98.86480169	98.31786835
240515A00068	6/28/2024	4.8	6/29/2026	102.87194	102.2795788	101.6940454	101.1152242	100.5430004	99.97726155	99.41789776	98.86480169	98.31786835
240515A00089	5/15/2024	4.5	5/15/2029	116.98016	113.2727256	109.7055173	106.2724658	102.9677955	99.78601123	96.72188368	93.77043442	90.92692272
240516A00025	5/17/2024	4.55	10/16/2028	114.32348	111.2701886	108.3158238	105.4566402	102.6890588	100.0096551	97.41515186	94.90241145	92.46842937
240516A00038	5/16/2024	4.9	5/18/2026	102.34325	101.8697061	101.4005593	100.9357511	100.4752212	100.0189107	99.56676148	99.11871665	98.67472032
240517A00011	5/17/2024	4.61	5/17/2028	112.41381	109.8199833	107.3004805	104.8527374	102.4742961	100.1627982	97.91598026	95.73166906	93.60777767
240517A00017	5/17/2024	4.4	5/17/2029	116.91883	113.2000796	109.6223613	106.1795544	102.8658359	99.67566692	96.60377658	93.64514786	90.79500382
240517A00026	5/17/2024	4.68	5/17/2027	107.38416	105.8760186	104.3969079	102.946062	101.5227394	100.1262243	98.75582511	97.41087363	96.09072405
240520A00016	5/20/2024	4.57	8/16/2027	108.62462	106.8496557	105.1126812	103.4125397	101.7481238	100.1183708	98.52226049	96.95881301	95.42708669
240520A00017	5/20/2024	4.94	4/15/2026	101.89545	101.5150061	101.1374142	100.7626454	100.3906682	100.0214513	99.65496381	99.29117549	98.93005644
240520A00018	5/20/2024	4.84	10/15/2026	104.41214	103.511202	102.6258794	101.7557638	100.9004651	100.0596062	99.23282289	98.41976324	97.62008682
240520A00020	5/20/2024	4.79	1/15/2027	105.7276	104.5595788	103.4174893	102.3004761	101.2077181	100.1384299	99.09185959	98.06728719	97.06402289
240520A00025	5/20/2024	4.75	4/15/2027	107.02293	105.6069321	104.2167069	102.85161	101.5110168	100.1943231	98.90094404	97.63031353	96.38188333
240520A00027	5/20/2024	4.7	10/15/2027	109.58454	107.633646	105.7275822	103.8650479	102.0447909	100.2656033	98.52631943	96.82581433	95.16300177
240520A00041	5/20/2024	4.83	11/25/2026	104.99867	103.979306	102.9798112	101.9996116	101.0381514	100.0948959	99.16933086	98.26096108	97.36930975
240521A00006	5/21/2024	4.9	5/21/2026	102.38535	101.9033156	101.4258363	100.9528476	100.4842861	100.0200897	99.56019748	99.10454952	98.65308713
240522A00012	5/22/2024	4.67	5/22/2028	112.63307	110.0224381	107.486977	105.0240856	102.6312654	100.3061196	98.04634843	95.84974435	93.71418788
240522A00027	5/22/2024	4.62	5/21/2027	107.45891	105.9373968	104.4453993	102.9821338	101.5468412	100.1387885	98.75726797	97.40159591	96.07111171
240522A00039	5/22/2024	4.76	5/24/2027	107.60334	106.0741907	104.5748336	103.1044692	101.6623281	100.2476679	98.85977161	97.49794695	96.16152486
240523A00027	5/23/2024	4.49	5/24/2029	117.32899	113.5830462	109.9798336	106.5131259	103.1770021	99.9658312	96.87425632	93.89717994	91.02974972
240523A00033	5/24/2024	4.8	12/24/2027	110.78935	108.6284674	106.5213609	104.46633	102.4617405	100.5060219	98.59766434	96.73521577	94.91727935

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240523A00035	5/24/2024	4.78	11/24/2027	110.31542	108.243799	106.2223316	104.2494834	102.3237802	100.4438028	98.60818482	96.81560994	95.06480991
240523A00037	5/24/2024	4.78	1/24/2028	111.19108	108.939145	106.7448321	104.6062516	102.5215942	100.4891242	98.50717565	96.57414941	94.68850945
240523A00043	5/24/2024	4.81	2/24/2028	111.7189	109.3697176	107.0824431	104.8549755	102.6853074	100.5715164	98.51176097	96.50427583	94.54736843
240524A00011	5/24/2024	5.02	5/19/2026	102.41396	101.9374297	101.465351	100.9976624	100.5343027	100.0752118	99.6203306	99.16960132	98.72296709
240524A00027	5/24/2024	4.82	6/30/2027	108.24616	106.6067814	105.0006797	103.4269082	101.8845571	100.3727506	98.89064506	97.4374279	96.01231576
240125A00058	1/16/2025	3.85	6/11/2027	106.45454	104.8840116	103.3448026	101.836047	100.3569129	98.90659789	97.48432848	96.08935827	94.72096698
240131A00019	1/16/2025	3.69	6/12/2026	102.04102	101.4987227	100.9622007	100.4313612	99.90611399	99.38637079	98.87204524	98.36305277	97.85931055
240208A00030	1/16/2025	4.05	1/23/2026	100.60677	100.4565163	100.3067241	100.1573902	100.0085123	99.86008856	99.7121167	99.56459469	99.41752044
240118A00057	3/14/2025	3.81	5/14/2027	106.05901	104.5693273	103.1081915	101.6748503	100.2685784	98.88867549	97.53446469	96.20529202	94.90052522
240308A00010	5/22/2025	3.88	6/24/2026	102.27695	101.7005066	101.1305663	100.567021	100.0097636	99.45868898	98.91369463	98.37468016	97.84154744
240503A00030	5/22/2025	4.46	7/17/2026	102.90223	102.2595751	101.6249666	100.9982575	100.3793007	99.76795256	99.16407318	98.56752594	97.9781776
240508A00008	5/8/2025	4.42	5/10/2027	106.90474	105.4195359	103.962579	102.5331334	101.1304859	99.75394757	98.4028527	97.07655767	95.7744402
230831A00078	8/29/2025	3.91	8/30/2030	120.17503	115.0348502	110.1493014	105.5043161	101.0866841	96.88399793	92.88459884	89.07752712	85.45247592
230914A00143	9/15/2025	4.06	9/16/2030	121.09044	115.8784226	110.9265708	106.2204646	101.746565	97.4921522	93.44527125	89.59468185	85.92981178
ADV1006437	5/28/2024	4.799	6/28/2027	108.18268	106.549547	104.9495032	103.3816092	101.8449628	100.3386956	98.86197081	97.41398228	95.99395286
ADV1006438	5/28/2024	4.644	5/29/2029	117.67492	113.9153649	110.2993723	106.8206617	103.4732631	100.2514998	97.14997236	94.1635433	91.28732301
ADV1006450	5/28/2024	5.047	5/28/2026	102.55688	102.0547969	101.5576369	101.0653293	100.5778031	100.0949889	99.6168186	99.14322525	98.67414336
ADV1006474	5/28/2024	5.044	5/28/2026	102.55539	102.0533091	101.5561535	101.0638501	100.5763282	100.0935182	99.61535199	99.14176278	98.67268499
ADV1006478	5/28/2024	4.775	5/30/2028	113.01049	110.3725334	107.811139	105.3236302	102.9074422	100.5601156	98.27929155	96.06270643	93.90818784
ADV1006508	5/29/2024	4.746	9/12/2028	114.42249	111.4653773	108.6013418	105.8268779	103.1386381	100.5334224	98.00817164	95.55995956	93.18598635
ADV1006512	5/29/2024	4.762	7/17/2028	113.66541	110.8808543	108.180121	105.5601561	103.0180348	100.5509588	98.15625011	95.831345	93.57378809
ADV1006532	5/29/2024	5.092	2/27/2026	101.27012	101.0216674	100.7744339	100.5284093	100.283585	100.0399521	99.79750195	99.55622602	99.3161158
ADV1006538	5/29/2024	4.952	11/25/2026	105.12094	104.1009109	103.100761	102.1199154	101.157818	100.2139341	99.28774909	98.37876768	97.48651283
ADV1006559	5/29/2024	4.894	7/30/2027	108.81016	107.0828356	105.391749	103.7358266	102.114035	100.5253815	98.96891192	97.44370875	95.94888946
ADV1006562	5/29/2024	4.768	6/29/2029	118.55552	114.6888449	110.9724797	107.3997213	103.9642053	100.6598872	97.48102392	94.42215751	91.47809871
ADV1006570	5/29/2024	4.908	5/28/2027	107.88499	106.3425741	104.8304055	103.3476732	101.8935908	100.4674	99.0683683	97.69578865	96.34897799
ADV1006582	5/30/2024	5.037	5/29/2026	102.56613	102.061232	101.5613126	101.0662974	100.5761144	100.0906931	99.60996432	99.13386019	98.66231417
ADV1006583	5/30/2024	4.859	5/28/2027	107.81064	106.2688194	104.7572363	103.2750779	101.8215583	100.3959193	98.99742904	97.62538065	96.2790914
ADV1006595	5/30/2024	5.031	5/29/2026	102.56313	102.0582401	101.5583294	101.0633228	100.5731483	100.0877355	99.60701514	99.13091936	98.65938163
ADV1006596	5/30/2024	4.859	5/28/2027	107.81064	106.2688194	104.7572363	103.2750779	101.8215583	100.3959193	98.99742904	97.62538065	96.2790914
ADV1006598	5/30/2024	4.783	5/30/2028	113.03065	110.3924324	107.8307847	105.3430273	102.9265952	100.579029	98.29796964	96.08115358	93.92640826
ADV1006599	5/30/2024	4.695	5/30/2029	117.87001	114.1041511	110.4821683	106.9977611	103.644943	100.4180218	97.31158373	94.32047761	91.43980109
ADV1006606	5/30/2024	4.579	5/30/2029	116.42958	112.9350328	109.5727737	106.3369766	103.2221064	100.2229047	97.33437363	94.55176155	91.87054932

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1006633	5/31/2024	4.653	5/28/2027	107.60815	106.0661209	104.5543654	103.0720665	101.618437	100.1927175	98.79417454	97.42210031	96.07581091
ADV1006634	5/31/2024	4.572	5/31/2028	112.69567	110.0549864	107.4911278	105.0014001	102.5832248	100.2341295	97.95174286	95.73378983	93.57808702
ADV1006650	5/31/2024	4.854	5/29/2026	102.50981	102.004656	101.5044841	101.0092247	100.5188054	100.0331557	99.55220591	99.07588816	98.60413566
ADV1006652	5/31/2024	4.854	5/29/2026	102.50981	102.004656	101.5044841	101.0092247	100.5188054	100.0331557	99.55220591	99.07588816	98.60413566
ADV1006656	5/31/2024	4.99	5/29/2026	102.54262	102.0377928	101.5379403	101.0429915	100.5528743	100.0675183	99.5868542	99.11081426	98.63933189
ADV1006657	5/31/2024	4.811	5/28/2027	107.73799	106.1967419	104.6857211	103.2041135	101.751134	100.3260245	98.92805345	97.5565144	96.21072489
ADV1006659	5/31/2024	4.732	5/31/2028	112.9149	110.2753649	107.7125163	105.2236759	102.806272	100.4578387	98.17601087	95.95851924	93.80318588
ADV1006680	6/3/2024	4.924	6/3/2026	102.58496	102.0660467	101.5523908	101.0439133	100.5405362	100.042183	99.54877855	99.0602494	98.57652343
ADV1006681	6/3/2024	4.731	6/3/2027	107.70898	106.1511373	104.6240927	103.1270089	101.6590781	100.2195209	98.80758519	97.4225452	96.06369997
ADV1006683	6/3/2024	4.637	6/5/2028	112.74855	110.0966842	107.5221801	105.0223155	102.5944847	100.2361901	97.94503636	95.71872599	93.55505443
ADV1006724	6/4/2024	4.536	6/4/2027	107.53511	105.9739571	104.4437316	102.9435885	101.4727147	100.0303259	98.61566514	97.22800216	95.86663173
ADV1006734	6/4/2024	4.987	12/4/2025	100.05951	100.0483717	100.0372475	100.026134	100.015031	100.0039386	99.9928568	99.98178551	99.97072475
ADV1006742	6/4/2024	4.992	12/4/2025	100.05957	100.0484322	100.0373079	100.0261943	100.0150913	100.0039989	99.99291702	99.98184569	99.97078488
ADV1006757	6/5/2024	4.883	12/5/2025	100.07236	100.0584346	100.0445215	100.0306221	100.0167365	100.0028645	99.98900629	99.97516171	99.96133076
ADV1006759	6/5/2024	4.502	6/5/2029	117.26597	113.4933154	109.8654442	106.3759886	103.0188999	99.78842837	96.67910656	93.68573367	90.80336106
ADV1006780	6/5/2024	4.435	6/1/2029	116.97281	113.2171435	109.6053123	106.1310043	102.7882239	99.57127105	96.47472455	93.49342699	90.62247034
ADV1006792	6/6/2024	4.967	12/8/2025	100.11286	100.0905911	100.068347	100.0461266	100.0239299	100.0017567	99.97960708	99.95748098	99.93537834
ADV1006793	6/6/2024	4.835	6/8/2026	102.60711	102.0741626	101.5467674	101.0248374	100.5082877	99.9970353	99.49099884	98.99009857	98.49425639
ADV1006802	6/6/2024	4.287	6/6/2029	116.77738	113.0036071	109.3749923	105.8851434	102.5279847	99.29774175	96.18892375	93.1963084	90.31492702
ADV1006838	6/7/2024	4.941	1/7/2026	100.52813	100.4222464	100.3165947	100.2111769	100.1059924	100.0010402	99.89631963	99.7918298	99.68756994
ADV1006844	6/7/2024	4.772	6/7/2027	107.83044	106.2601912	104.7211045	103.2123288	101.7330413	100.2824484	98.85978458	97.46431126	96.09531532
ADV1006845	6/7/2024	4.686	6/7/2028	112.9017	110.2420118	107.6600188	105.1529823	102.7182813	100.3534031	98.05593857	95.82357715	93.65410187
ADV1006846	6/7/2024	4.579	6/7/2029	117.56878	113.7848276	110.1462155	106.6465428	103.2797314	100.0400042	96.92186765	93.92009694	91.02972069
ADV1006860	6/10/2024	4.684	6/10/2030	122.89416	117.9254786	113.1925519	108.6828787	104.3846918	100.2869086	96.3790863	92.65138237	89.0945163
ADV1006862	6/10/2024	4.698	6/12/2028	113.0037	110.3281576	107.7310598	105.2096322	102.7612169	100.3832669	98.07334048	95.82909634	93.64828864
ADV1006864	6/10/2024	4.684	6/10/2030	122.89416	117.9254786	113.1925519	108.6828787	104.3846918	100.2869086	96.3790863	92.65138237	89.0945163
ADV1006866	6/10/2024	4.751	6/10/2032	131.85772	124.4806609	117.5822582	111.1286638	105.088602	99.43315956	94.13559552	89.17116668	84.51696857
ADV1006868	6/10/2024	4.737	6/10/2031	127.6863	121.517753	115.6961421	110.1999921	105.0092709	100.1052848	95.47058268	91.0888662	86.9449082
ADV1006872	6/10/2024	4.778	6/10/2027	107.88408	106.3048145	104.7569881	103.2397318	101.7522117	100.2936236	98.8631921	97.46016892	96.08383197
ADV1006873	6/10/2024	4.612	6/4/2029	117.64568	113.869211	110.2375147	106.7442313	103.3833174	100.1490282	97.03590032	94.03873686	91.15259266
ADV1006874	6/11/2024	4.614	6/1/2029	117.61143	113.8444135	110.2215536	106.7365274	103.3833281	100.1562449	97.04984612	94.05896462	91.17868288
ADV1006912	6/11/2024	4.816	6/11/2026	102.67549	102.1335008	101.5972487	101.0666475	100.5416078	100.0220425	99.50786577	98.99899403	98.49534517
ADV1006931	6/12/2024	4.404	6/12/2029	117.00559	113.2169708	109.574403	106.0714391	102.701951	99.4601149	96.3403942	93.33752391	90.44649554

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1006934	6/12/2024	4.933	12/12/2025	100.1653	100.1318982	100.0985388	100.0652187	100.0319376	99.99869566	99.96549267	99.93232859	99.89920333
ADV1006935	6/12/2024	4.796	6/12/2026	102.64045	102.0962341	101.5578078	101.025079	100.4979574	99.97635448	99.46018368	98.94936024	98.44380114
ADV1006936	6/12/2024	4.561	6/14/2027	107.60449	106.0160815	104.4594199	102.9336264	101.4378533	99.97128367	98.53312985	97.12263209	95.73905735
ADV1006937	6/12/2024	4.656	6/12/2026	102.60287	102.0583094	101.519547	100.9864919	100.4590536	99.93714326	99.42067414	98.90956119	98.40372115
ADV1006953	6/12/2024	4.55	6/14/2027	107.58731	105.9990431	104.4425186	102.9168597	101.4212189	99.95477927	98.51675324	97.10638111	95.72292989
ADV1006954	6/12/2024	4.466	6/12/2028	112.40481	109.7370389	107.1475394	104.6335403	102.1923888	99.82154288	97.51856567	95.28112048	93.1069659
ADV1006955	6/12/2024	4.371	6/12/2029	116.88665	113.1001606	109.4596606	105.9587059	102.5911705	99.3512325	96.23335743	93.23228213	90.34299989
ADV1006956	6/12/2024	4.382	6/12/2029	116.9263	113.1390973	109.4979081	105.9962837	102.6280973	99.38752663	96.26903635	93.26736272	90.37749844
ADV1006960	6/12/2024	4.668	6/12/2026	102.60935	102.0647669	101.5259844	100.9929095	100.4654514	99.94352154	99.42703299	98.91590076	98.41004159
ADV1006962	6/12/2024	4.822	6/12/2026	102.65448	102.1102223	101.5717527	101.0389809	100.5118166	99.99017125	99.47395839	98.96309321	98.45749269
ADV1006965	6/17/2024	4.601	7/1/2027	107.91082	106.2714935	104.6654838	103.0918458	101.5496672	100.0380696	98.55620697	97.10326454	95.67845684
ADV1006966	6/12/2024	4.44	6/12/2029	117.13534	113.3444001	109.6995764	106.1944208	102.8228026	99.5788957	96.45716158	93.45233313	90.55939989
ADV1006967	6/12/2024	4.643	6/14/2027	107.73254	106.1430946	104.5854115	103.0586144	101.5618552	100.0943165	98.65521007	97.24377579	95.85928019
ADV1006980	6/13/2024	4.665	6/15/2026	102.64772	102.0946429	101.5475419	101.0063247	100.4708965	99.94116449	99.41703781	98.89842758	98.38524679
ADV1006988	6/13/2024	4.393	6/13/2029	116.97857	113.1874946	109.5426585	106.0376012	102.6661831	99.42256953	96.30121386	93.29684176	90.404436
ADV1006989	6/13/2024	4.955	12/15/2025	100.20614	100.1643953	100.1227008	100.0810588	100.0394691	99.99793165	99.95644636	99.91501311	99.87363179
ADV1007000	6/13/2024	4.793	6/15/2026	102.67928	102.1265676	101.5798286	101.0389631	100.5038765	99.97447643	99.45067224	98.93237532	98.41949891
ADV1007001	6/13/2024	4.268	6/13/2029	116.00213	112.3767317	108.8911115	105.5390277	102.3145576	99.21207779	96.22624738	93.35199163	90.58448712
ADV1007016	6/13/2024	4.324	6/13/2028	112.24159	109.569011	106.9749948	104.4567589	102.0116355	99.63706871	97.33060836	95.0899053	92.9127064
ADV1007017	6/13/2024	4.543	8/4/2027	108.28868	106.5520977	104.8521651	103.187786	101.5579085	99.96152237	98.39765695	96.86537923	95.36379193
ADV1007019	6/13/2024	4.42	6/14/2027	107.49648	105.9070536	104.3494254	102.8227151	101.3260732	99.85868059	98.41974787	97.00851351	95.62424283
ADV1007020	6/13/2024	4.251	2/2/2029	115.05103	111.6696642	108.4073184	105.2590813	102.2202737	99.28643987	96.45333492	93.7169132	91.07331768
ADV1007052	6/14/2024	4.323	6/14/2029	116.73902	112.9492941	109.3058884	105.8023318	102.4324767	99.19048136	96.0707927	93.06813028	90.17747135
ADV1007060	6/14/2024	4.361	5/21/2029	116.56808	112.8508365	109.274896	105.8341071	102.5226234	99.33488433	96.2655991	93.30973223	90.46248976
ADV1007061	6/14/2024	4.959	12/15/2025	100.20631	100.1645641	100.1228695	100.0812273	100.0396375	99.9980999	99.95661447	99.91518108	99.87379963
ADV1007063	6/14/2024	4.804	6/15/2026	102.6853	102.1325757	101.5858177	101.0449335	100.5098284	99.98040982	99.45658734	98.93827226	98.42537783
ADV1007066	6/14/2024	4.562	6/14/2027	107.60554	106.0171072	104.4604271	102.9346159	101.4388257	99.97223976	98.53407023	97.12355737	95.7399681
ADV1007068	6/18/2024	4.512	11/1/2027	109.45936	107.4624114	105.5123588	103.6078167	101.7474473	99.92996141	98.15411591	96.41871193	94.72259294
ADV1007075	6/14/2024	4.422	6/14/2027	107.49961	105.910153	104.3524998	102.825765	101.329099	99.86168276	98.42272677	97.01146954	95.62717636
ADV1007076	6/14/2024	4.562	6/14/2027	107.60554	106.0171072	104.4604271	102.9346159	101.4388257	99.97223976	98.53407023	97.12355737	95.7399681
ADV1007096	6/17/2024	4.852	6/17/2026	102.73889	102.1804127	101.6280264	101.0816325	100.5411337	100.0064346	99.47744207	98.95406477	98.43621344
ADV1007098	6/17/2024	4.614	6/17/2027	107.72976	106.1317501	104.5657773	103.0309453	101.526395	100.0512984	98.60485734	97.18630224	95.79489063
ADV1007099	6/17/2024	4.522	6/20/2028	112.65899	109.9647016	107.3499209	104.8118145	102.3476698	99.95488812	97.63097948	95.37355697	93.18033186

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ADV1007100	6/17/2024	4.415	6/18/2029	117.12353	113.3151524	109.654096	106.1338346	102.7481651	99.49119378	96.35731902	93.34121501	90.43781647
ADV1007107	6/17/2024	4.278	6/18/2029	116.9	113.0886539	109.4249526	105.9023454	102.5146092	99.25583148	96.12039304	93.10295166	90.19842677
ADV1007114	6/17/2024	4.74	6/18/2029	114.88389	111.8083192	108.8452503	105.9897882	103.2372845	100.5833222	98.023703	95.55443486	93.17172025
ADV1007146	6/18/2024	4.482	6/20/2028	112.55474	109.8618087	107.2483588	104.7115537	102.2486813	99.85714406	97.5344527	95.27822113	93.08616144
ADV1007153	6/20/2024	4.502	2/25/2028	111.03415	108.6898601	106.4074548	104.184831	102.0199793	99.91097547	97.85597626	95.85321505	93.90099798
ADV1007157	6/18/2024	4.969	12/18/2025	100.24695	100.1968512	100.1468238	100.0968635	100.0469701	99.99714356	99.94738367	99.89769031	99.84806335
ADV1007160	6/18/2024	4.638	1/19/2027	105.61573	104.4369593	103.2846212	102.1578295	101.0557398	99.97754488	98.92247206	97.88978185	96.878766
ADV1007166	6/18/2024	4.965	12/18/2025	100.24674	100.1966496	100.1466224	100.0966622	100.046769	99.99694258	99.94718285	99.89748965	99.84786286
ADV1007167	6/18/2024	4.805	6/18/2026	102.7264	102.1651681	101.610092	101.0610669	100.5179942	99.98077695	99.44932075	98.923533	98.40332313
ADV1007168	6/18/2024	4.556	6/18/2027	107.65283	106.0525975	104.4844777	102.947573	101.4410208	99.96399	98.51567933	97.09531629	95.7021557
ADV1007173	6/18/2024	4.389	6/20/2034	121.15851	116.0790213	111.3037048	106.81107	102.5813263	98.59623305	94.83896698	91.29400223	87.94700095
ADV1007211	6/20/2024	4.562	9/27/2027	109.07527	107.1794631	105.326246	103.5143966	101.742739	100.0101388	98.31550116	96.65776933	95.03592286
ADV1007218	6/20/2024	4.777	8/20/2026	103.57279	102.8325267	102.1028789	101.3836206	100.6745306	99.97539378	99.28600133	98.6061501	97.93564257
ADV1007219	6/20/2024	4.682	12/21/2026	105.23281	104.1385781	103.0672025	102.0179674	100.9901905	99.98321698	98.99641876	98.02919267	97.08095945
ADV1007220	6/20/2024	4.59	6/21/2027	107.74876	106.139192	104.5620154	103.0163238	101.5012432	100.0159314	98.55957678	97.13139711	95.73063782
ADV1007227	6/20/2024	4.835	6/22/2026	102.79747	102.224855	101.6586384	101.0987118	100.5449707	99.99731268	99.45563777	98.91984809	98.38984791
ADV1007228	6/20/2024	4.588	6/21/2027	107.7456	106.1360564	104.5589053	103.0132388	101.4981828	100.0128952	98.55656439	97.1284081	95.7276718
ADV1007230	6/20/2024	4.494	6/20/2028	112.58528	109.891946	107.2781028	104.7409138	102.2776668	99.88576389	97.56271544	95.30613515	93.11373481
ADV1007267	6/21/2024	4.49	6/21/2028	112.5886	109.8923234	107.2756784	104.735827	102.2700498	99.87574192	97.55040732	95.29165357	93.09718674
ADV1007285	12/24/2024	4.775	12/24/2025	100.31439	100.2476179	100.1809429	100.1143684	100.0478941	99.98151979	99.91524532	99.84907043	99.78299488
ADV1007317	6/25/2024	4.989	12/26/2025	100.35563	100.2832751	100.2110373	100.1389124	100.0669001	99.99500003	99.92321209	99.85153597	99.77997139
ADV1007329	6/25/2024	4.377	6/25/2029	117.07602	113.2479158	109.5685303	106.0312446	102.6297708	99.35813633	96.21066613	93.18196578	90.26690611
ADV1007342	6/25/2024	4.995	12/26/2025	100.35606	100.283709	100.2114708	100.1393455	100.0673328	99.99543246	99.92364416	99.85196768	99.78040275
ADV1007351	6/25/2024	4.983	12/26/2025	100.35519	100.2828412	100.2106038	100.1384793	100.0664673	99.99456761	99.92278003	99.85110426	99.77954004
ADV1007352	6/25/2024	4.827	6/25/2026	102.83347	102.2523851	101.6778795	101.109844	100.5481698	99.99275015	99.4434809	98.90026016	98.36298825
ADV1007353	6/25/2024	4.575	6/25/2027	107.78174	106.1604944	104.572002	103.0153434	101.4896291	99.99400287	98.52763946	97.08974368	95.67954882
ADV1007378	6/26/2024	4.529	6/26/2030	122.37923	117.3745143	112.6092885	108.0707553	103.7468698	99.62629377	95.69834937	91.95297752	88.38069843
ADV1007379	6/26/2024	4.573	6/26/2031	126.94001	120.743997	114.8991081	109.3834587	104.1766447	99.25963482	94.61467144	90.22517823	86.07567555
ADV1007380	6/26/2024	4.622	6/28/2032	131.18661	123.7771738	116.8519923	110.3765945	104.3191468	98.6502358	93.3426722	88.37131118	83.71288828
ADV1007385	6/26/2024	4.302	6/26/2029	117.09036	113.2519939	109.5629998	106.0167193	102.6068274	99.32731663	96.17247936	93.13689075	90.21539305
ADV1007406	6/27/2024	4.515	6/27/2028	112.73533	110.0197222	107.3846757	104.8272979	102.3448243	99.9346074	97.59411129	95.32090581	93.11266154
ADV1007410	6/27/2024	4.998	12/29/2025	100.39673	100.3160321	100.2354692	100.1550387	100.0747405	99.99457424	99.91453953	99.83463609	99.75486361
ADV1007413	6/27/2024	4.827	6/29/2026	102.88796	102.2955317	101.7099362	101.1310537	100.5587692	99.99297021	99.433547	98.88039213	98.33340063

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ADV1007414	6/27/2024	4.997	12/29/2025	100.39665	100.3159516	100.2353887	100.1549584	100.0746602	99.99449398	99.91445934	99.83455597	99.75478355
ADV1007421	7/1/2024	4.411	6/18/2029	117.1117	113.3036507	109.6429148	106.1229621	102.7375903	99.48090608	96.34730845	93.33147203	90.42833202
ADV1007425	6/27/2024	4.798	7/31/2026	103.30926	102.6259838	101.9517588	101.2864064	100.6297523	99.98162675	99.34186417	98.7103034	98.08678737
ADV1007426	6/27/2024	4.473	6/28/2027	107.77676	106.1450451	104.5464271	102.9799679	101.4447643	99.93994678	98.46467793	97.01815071	95.59958728
ADV1007429	6/27/2024	4.826	6/29/2026	102.88737	102.2949473	101.7093538	101.1304732	100.5581906	99.99239354	99.43297221	98.8798192	98.33282955
ADV1007447	6/28/2024	4.576	6/28/2027	107.82586	106.1956978	104.5985657	103.0335318	101.4996954	99.99618933	98.52217818	97.07685704	95.65944999
ADV1007449	6/28/2024	4.391	6/28/2029	117.16585	113.3273041	109.638141	106.0916927	102.6816329	99.4019533	96.2469452	93.21118305	90.28950852
ADV1007452	6/28/2024	4.403	6/28/2029	117.20963	113.3702933	109.6803601	106.1331637	102.7223772	99.44199123	96.28629653	93.2498668	90.32754304
ADV1007489	6/28/2024	4.799	8/14/2026	103.50429	102.7811383	102.0681308	101.3650509	100.6716917	99.98785223	99.31333697	98.6479557	97.99152337
ADV1007515	7/1/2024	5.041	1/2/2026	100.46166	100.3698085	100.278132	100.186626	100.0952898	100.0041231	99.9131254	99.82229616	99.73163495
ADV1007522	7/1/2024	4.894	7/1/2026	102.96036	102.3621261	101.7708526	101.1864196	100.6087089	100.037605	99.47299485	98.91476817	98.36281704
ADV1007585	7/2/2024	4.518	7/2/2029	117.68692	113.8274249	110.1183929	106.5530951	103.125146	99.82848217	96.6573433	93.60625549	90.67001513
ADV1007586	7/2/2024	4.518	7/2/2029	117.68692	113.8274249	110.1183929	106.5530951	103.125146	99.82848217	96.6573433	93.60625549	90.67001513
ADV1007610	7/3/2024	4.582	7/6/2027	107.95249	106.2990175	104.6793384	103.0924848	101.5375245	100.0135605	98.51972902	97.05519846	95.61916748
ADV1007622	7/3/2024	4.58	7/6/2027	107.94924	106.295798	104.6761458	103.0893185	101.5343841	100.0104455	98.51663901	97.05213302	95.61612618
ADV1007623	7/8/2024	4.946	1/8/2026	100.53547	100.4268647	100.3185112	100.2104037	100.1025413	99.99492317	99.88754847	99.7804163	99.67352582
ADV1007648	7/5/2024	4.367	7/5/2029	116.72585	112.9629397	109.3478101	105.8737526	102.5344087	99.32374699	96.23604396	93.26586617	90.4080537
ADV1007651	7/5/2024	4.224	7/5/2029	116.92304	113.061742	109.35156	105.7857176	102.3577808	99.0616413	95.89149723	92.84183617	89.90741885
ADV1007660	7/5/2024	4.343	7/6/2029	117.09609	113.2359382	109.5267487	105.9617537	102.5345287	99.23897412	96.06929641	93.01999092	90.08582568
ADV1007673	7/5/2024	4.194	7/5/2029	116.81283	112.9535347	109.245303	105.6813545	102.2552577	98.96090605	95.79249966	92.74452793	89.81175329
ADV1007693	7/8/2024	4.357	4/9/2029	116.02015	112.4332979	108.978646	105.6506186	102.443907	99.35345334	96.37443745	93.5022642	90.73255194
ADV1007695	7/8/2024	4.378	1/10/2029	114.92685	111.6188342	108.4253129	105.3416439	102.3634019	99.48636826	96.70651993	94.020019	91.42320291
ADV1007696	7/8/2024	4.411	9/13/2028	113.48881	110.5420978	107.6883105	104.923949	102.2456711	99.65028197	97.13472676	94.69608335	92.3315556
ADV1007703	7/8/2024	4.366	7/8/2027	107.74541	106.0861155	104.4608456	102.8686226	101.3085043	99.77958421	98.28098996	96.81188145	95.37144943
ADV1007720	7/9/2024	4.76	1/9/2026	100.53602	100.4245649	100.3133698	100.2024348	100.0917591	99.98134156	99.87118136	99.7612775	99.65162905
ADV1007723	7/9/2024	4.593	7/9/2026	102.92885	102.3078163	101.6942981	101.0881598	100.4892684	99.89749425	99.31271073	98.7347942	98.16362394
ADV1007732	7/9/2024	4.894	1/9/2026	100.54345	100.4320617	100.320936	100.2100693	100.0994609	99.98910969	99.87901479	99.76917527	99.65959019
ADV1007736	7/9/2024	4.517	7/9/2027	107.88729	106.2260367	104.5988511	103.0047541	101.4428015	99.91208524	98.41173119	96.94089768	95.49877399
ADV1007761	7/10/2024	4.57	7/10/2026	102.92779	102.303964	101.6877219	101.0789261	100.4774421	99.88313816	99.29588613	98.71556068	98.14203948
ADV1007770	7/10/2024	4.353	7/12/2027	107.778	106.1073668	104.4711447	102.8683379	101.297988	99.75917329	98.25100691	96.77263507	95.32323557
ADV1007786	7/11/2024	4.084	7/11/2029	116.4802	112.6098727	108.8916596	105.3187051	101.8845079	98.5828971	95.4080131	92.35428972	89.41643781
ADV1007787	7/11/2024	4.357	7/12/2027	107.66591	105.9982477	104.3649049	102.76489	101.1972481	99.66106037	98.1554429	96.67954464	95.23254601
ADV1007788	7/11/2024	4.292	7/11/2028	112.33349	109.583677	106.9163732	104.3285842	101.8174438	99.38020904	97.0142542	94.71706489	92.48623242

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1007789	7/11/2024	4.221	7/11/2029	116.70833	112.841011	109.1254726	105.5548831	102.1227625	98.82295968	95.64963324	92.59723425	89.66048957
ADV1007793	7/11/2024	4.233	5/9/2029	115.9689	112.2961408	108.7618473	105.3600507	102.0850691	98.93149558	95.89418338	92.96823166	90.14897256
ADV1007797	7/11/2024	4.612	6/30/2026	102.77822	102.183389	101.595443	101.0142671	100.4397448	99.87176224	99.31020826	98.75497412	98.20595354
ADV1007814	7/12/2024	4.764	1/12/2026	100.56881	100.4490664	100.3296247	100.2104825	100.0916385	99.97309156	99.8548405	99.73688419	99.61922148
ADV1007817	7/12/2024	4.381	7/9/2027	107.6649	106.0055283	104.3801937	102.7879148	101.2277484	99.69878718	98.20015796	96.73101983	95.29056282
ADV1007827	7/12/2024	4.093	7/12/2029	116.52535	112.6513534	108.9296945	105.3535086	101.9162809	98.61182791	95.43427821	92.37805469	89.43785801
ADV1007828	7/12/2024	4.233	7/12/2029	116.76466	112.8934736	109.1742965	105.6002878	102.1649538	98.86213069	95.68596515	92.63089714	89.69164317
ADV1007829	7/12/2024	4.234	7/12/2029	116.76835	112.8970946	109.177852	105.6037796	102.1683839	98.86550065	95.68927675	92.634152	89.69484286
ADV1007830	7/12/2024	4.234	7/12/2029	116.76835	112.8970946	109.177852	105.6037796	102.1683839	98.86550065	95.68927675	92.634152	89.69484286
ADV1007865	7/15/2024	4.703	1/15/2026	100.60089	100.472784	100.3450222	100.2176014	100.0905202	99.96377725	99.83737112	99.71130043	99.58556379
ADV1007874	7/15/2024	4.332	7/15/2027	107.66405	105.9881101	104.3467774	102.7390465	101.1639502	99.62055836	98.10797619	96.62534243	95.1718278
ADV1007889	7/15/2024	4.252	3/12/2027	105.97056	104.6468294	103.3519724	102.0850444	100.8451409	99.63139656	98.4429831	97.27910732	96.13900927
ADV1007906	7/16/2024	4.081	7/16/2029	116.52866	112.6432131	108.9109272	105.324882	101.878512	98.56558637	95.38018957	92.31670358	89.36979089
ADV1007913	7/16/2024	4.594	1/16/2026	100.60863	100.477653	100.3470303	100.2167641	100.086853	99.95729524	99.82808952	99.69923429	99.57072808
ADV1007923	7/16/2024	4.075	7/16/2029	116.50643	112.6213949	108.8895055	105.3038453	101.8578492	98.54528673	95.36024292	92.29710003	89.35052091
ADV1007924	7/16/2024	4.075	7/16/2029	116.50643	112.6213949	108.8895055	105.3038453	101.8578492	98.54528673	95.36024292	92.29710003	89.35052091
ADV1007925	7/16/2024	4.545	7/16/2026	102.94576	102.3056635	101.6735547	101.0492807	100.432696	99.82365888	99.22203109	98.62767765	98.04046689
ADV1007927	7/16/2024	4.54	7/16/2026	102.94259	102.3025047	101.6704071	101.0461442	100.4295706	99.82054444	99.21892751	98.62458483	98.03738475
ADV1007928	7/16/2024	4.295	1/18/2028	110.05497	107.8323441	105.6663367	103.5551073	101.496888	99.48998257	97.53276234	95.62366331	93.76118291
ADV1007939	7/16/2024	4.527	7/16/2026	102.93434	102.2942916	101.6622233	101.0379894	100.4214445	99.81244688	99.21085819	98.61654351	98.02937118
ADV1007941	7/16/2024	4.12	7/17/2028	112.14585	109.3774639	106.6926491	104.088348	101.5616399	99.10973066	96.7299467	94.41972839	92.17662454
ADV1007944	7/16/2024	4.512	7/16/2026	102.92483	102.2848151	101.6527805	101.0285801	100.4120683	99.80310355	99.20154744	98.60726506	98.02012474
ADV1007957	7/17/2024	4.221	7/19/2027	107.6524	105.9634714	104.309607	102.6897813	101.1030081	99.54833951	98.02486358	96.53170301	95.06801331
ADV1008000	7/23/2024	4.195	7/2/2029	116.50115	112.6631393	108.9749646	105.4299264	102.0216613	98.74412672	95.59158242	92.55857372	89.63991541
ADV1008001	7/18/2024	4.526	7/20/2026	102.98513	102.3337441	101.6906209	101.0556039	100.4285402	99.80928076	99.19768023	98.59359683	97.99689231
ADV1008011	7/18/2024	4.532	7/20/2026	102.989	102.3376006	101.6944634	101.0594326	100.4323552	99.81308223	99.20146825	98.59737153	98.0006538
ADV1008031	7/19/2024	4.252	7/19/2027	107.70355	106.0141672	104.3598613	102.7396026	101.1524045	99.59731873	98.07343331	96.57987068	95.11578611
ADV1008042	7/19/2024	4.77	1/20/2026	100.67627	100.5342044	100.3925591	100.2513273	100.1105072	99.97009686	99.83009453	99.69049838	99.55130661
ADV1008099	7/23/2024	4.563	7/23/2026	103.04726	102.3872756	101.7357621	101.0925612	100.4575145	99.8304673	99.21126882	98.59977212	97.99583389
ADV1008102	7/23/2024	4.373	7/23/2027	107.83732	106.1378024	104.4736921	102.8439458	101.247563	99.6835823	98.15107896	96.64916361	95.17698027
ADV1008103	7/23/2024	4.746	1/23/2026	100.71244	100.5620062	100.4120378	100.2625282	100.1134753	99.96487689	99.81673099	99.66903548	99.52178826
ADV1008104	7/23/2024	4.563	7/23/2026	103.04726	102.3872756	101.7357621	101.0925612	100.4575145	99.8304673	99.21126882	98.59977212	97.99583389
ADV1008109	7/23/2024	4.252	7/23/2029	116.16712	112.4434784	108.866681	105.4300168	102.1271224	98.95196507	95.89882334	92.96226844	90.13714749

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ADV1008134	7/24/2024	4.357	7/24/2026	102.97122	102.3081334	101.6536046	101.0074698	100.3695678	99.73974184	99.11783895	98.50371006	97.8972098
ADV1008145	7/24/2024	4.328	7/26/2027	107.80176	106.0942746	104.4224844	102.7853304	101.1818001	99.61092044	98.07175593	96.56340689	95.08500765
ADV1008146	7/24/2024	4.302	11/29/2027	109.41871	107.3420036	105.3159517	103.3389952	101.4096354	99.52642964	97.6879893	95.89297709	94.14010484
ADV1008195	7/25/2024	4.41	7/26/2027	107.85243	106.1459979	104.4752086	102.839011	101.2363945	99.6663876	98.1280567	96.6205036	95.14286412
ADV1008196	7/25/2024	4.232	7/26/2027	107.76155	106.0523193	104.3788512	102.7400878	101.1350139	99.56265369	98.02206927	96.51235857	95.03265364
ADV1008198	7/25/2024	4.133	7/25/2029	116.8296	112.9129867	109.1515539	105.5382498	102.0663879	98.72962482	95.52194005	92.43761778	89.47122931
ADV1008208	7/26/2024	4.678	1/26/2026	100.74142	100.582635	100.4243583	100.266587	100.1093188	99.95255112	99.79628167	99.64050804	99.48522787
ADV1008216	7/26/2024	4.284	7/26/2029	116.48034	112.6452089	108.9616114	105.4225941	102.0215708	98.75229898	95.60885916	92.58563592	89.67730021
ADV1008218	7/26/2024	4.53	7/26/2033	134.49595	125.8123155	117.7758173	110.3343078	103.4401175	97.04964917	91.123009	85.62367318	80.51818625
ADV1008219	7/26/2024	4.588	7/26/2035	141.79542	130.6636662	120.5443967	111.3387939	102.9582148	95.32309594	88.36197842	82.01064204	76.21133613
ADV1008220	7/26/2024	4.464	7/26/2032	130.4006	122.9356732	115.9639544	109.449973	103.3610033	97.6668335	92.33955949	87.35339649	82.68450714
ADV1008221	7/26/2024	4.2	7/26/2029	116.81116	112.8993484	109.1424509	105.5334283	102.0656076	98.73265845	95.52857269	92.44764605	89.48446076
ADV1008223	7/26/2024	4.252	7/26/2028	112.4142	109.6212285	106.9130596	104.2865681	101.7387709	99.26681528	96.86797261	94.53963158	92.27929242
ADV1008224	7/26/2024	4.252	7/26/2028	112.4142	109.6212285	106.9130596	104.2865681	101.7387709	99.26681528	96.86797261	94.53963158	92.27929242
ADV1008225	7/26/2024	4.588	7/26/2035	141.79542	130.6636662	120.5443967	111.3387939	102.9582148	95.32309594	88.36197842	82.01064204	76.21133613
ADV1008226	7/26/2024	4.2	7/26/2029	116.81116	112.8993484	109.1424509	105.5334283	102.0656076	98.73265845	95.52857269	92.44764605	89.48446076
ADV1008228	7/26/2024	4.498	7/26/2034	128.79531	121.5162568	114.7786116	108.5369511	102.7499887	97.38016881	92.39330699	87.75826661	83.44666839
ADV1008231	7/26/2024	4.099	11/26/2029	118.2059	113.9040074	109.7862332	105.8436916	102.0679743	98.45112191	94.98559785	91.66426346	88.48035479
ADV1008232	7/26/2024	4.673	1/26/2026	100.74063	100.5818436	100.4235679	100.2657976	100.1085303	99.95176359	99.7954951	99.63972244	99.48444323
ADV1008233	7/26/2024	4.475	7/27/2026	103.04047	102.3693536	101.706996	101.0532251	100.4078747	99.77078254	99.14179074	98.52074532	97.9074962
ADV1008245	7/29/2024	4.292	7/29/2027	107.77997	106.0644034	104.3848141	102.7401364	101.1293455	99.55145685	98.00552407	96.4906371	95.00592047
ADV1008247	7/29/2024	4.465	7/29/2026	103.05886	102.3821019	101.714243	101.0551097	100.4045316	99.76234276	99.1283816	98.50249059	97.88451623
ADV1008249	7/29/2024	4.664	1/29/2026	100.77829	100.611139	100.4445465	100.2785075	100.1130192	99.94807893	99.78368391	99.61983149	99.45651898
ADV1008250	7/29/2024	4.466	7/29/2026	103.05953	102.382769	101.7149077	101.0557719	100.4051914	99.76300012	99.12903656	98.50314317	97.88516646
ADV1008251	7/29/2024	4.752	7/29/2026	101.81214	101.4339547	101.0593005	100.6881255	100.3203757	99.95599811	99.59494111	99.23715411	98.88258759
ADV1008257	7/29/2024	4.184	7/30/2029	116.79956	112.8766224	109.1094172	105.4908496	102.0141959	98.67307799	95.46144377	92.37354786	89.40393426
ADV1008260	7/29/2024	4.444	7/29/2032	130.29341	122.8233667	115.8474492	109.3300867	103.2384592	97.54227072	92.21354191	87.2264207	82.55700958
ADV1008263	7/31/2024	4.308	5/25/2027	106.9374	105.4107162	103.913839	102.4459656	101.0063255	99.59417463	98.20879494	96.84949274	95.51559791
ADV1008275	7/30/2024	4.123	7/31/2028	112.32656	109.5164263	106.7920404	104.1502318	101.5879686	99.10235268	96.69061218	94.35009546	92.0782647
ADV1008320	7/31/2024	4.126	7/30/2027	107.63447	105.9153096	104.2322755	102.5842966	100.9703418	99.38942034	97.84058031	96.32290629	94.83551773
ADV1008323	7/31/2024	4.191	7/31/2028	112.31102	109.5054548	106.7854164	104.1477389	101.5894011	99.10751484	96.69931794	94.36216777	92.09353507
ADV1008348	8/1/2024	4.031	2/1/2029	114.08633	110.7294752	107.4907	104.365134	101.3481408	98.43530452	95.62241794	92.90547119	90.28064101
ADV1008352	8/1/2024	4.511	2/2/2026	100.80894	100.6306457	100.4529875	100.2759577	100.099553	99.92377006	99.74860563	99.57405644	99.40011926

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ADV1008361	8/1/2024	4.307	8/3/2026	103.01985	102.3293017	101.6480258	100.9758343	100.3125464	99.65798577	99.01198083	98.37436447	97.74497391
ADV1008374	8/1/2024	4.355	2/2/2026	100.7932	100.6147984	100.4370328	100.2598975	100.0833891	99.90750428	99.73223974	99.5575922	99.38355838
ADV1008387	8/2/2024	3.946	8/3/2026	102.82063	102.1302151	101.4490781	100.777035	100.1139046	99.45951027	98.81367999	98.1762463	97.54704609
ADV1008388	8/2/2024	4.208	2/2/2026	100.75458	100.5763488	100.3987523	100.221784	100.0454406	99.86971884	99.69461546	99.52012717	99.34625074
ADV1008389	8/2/2024	3.794	8/2/2029	115.37852	111.4735275	107.7241077	104.1231536	100.6639306	97.34005179	94.1454571	91.0743946	88.12140279
ADV1008391	8/2/2024	3.99	9/16/2026	103.31742	102.5027976	101.7010505	100.9118706	100.1349635	99.37004429	98.61683647	97.87507219	97.14449168
ADV1008396	8/2/2024	3.86	8/2/2028	111.43892	108.6397421	105.9261156	103.2948676	100.7429697	98.26752721	95.86577188	93.53505559	91.27284404
ADV1008398	8/2/2024	3.791	8/2/2029	115.36727	111.4624927	107.7132756	104.1125182	100.6534864	97.32979313	94.13537874	91.06449144	88.11166992
ADV1008404	8/2/2024	3.886	8/2/2027	107.14717	105.4261511	103.7413974	102.0918296	100.4764091	98.89413842	97.34405902	95.82524938	94.33682318
ADV1008405	8/2/2024	4.049	8/3/2026	102.84306	102.1531754	101.4725582	100.8010193	100.1383778	99.48445769	98.83908737	98.20209985	97.57333243
ADV1008407	8/2/2024	3.891	8/2/2027	107.15567	105.4345708	103.7497439	102.1001042	100.4846131	98.90227312	97.35212561	95.83324902	94.34475703
ADV1008410	8/2/2024	3.883	8/2/2027	107.14208	105.4210993	103.7363895	102.0868648	100.4714867	98.8892576	97.33921908	95.82044959	94.33206286
ADV1008411	8/2/2024	3.804	8/2/2029	115.416	111.5103102	107.7602148	104.1586046	100.6987448	97.37424732	94.17905163	91.10740512	88.15384567
ADV1008413	8/2/2024	4.029	8/3/2026	102.82936	102.1395355	101.45897	100.7874823	100.1248916	99.47102177	98.82570128	98.18876312	97.5600446
ADV1008416	8/2/2024	3.874	8/2/2027	107.12679	105.4059439	103.7213658	102.0719705	100.4567194	98.87461514	97.32469923	95.80605023	94.31778192
ADV1008417	8/2/2024	3.857	8/2/2028	111.43075	108.6316842	105.9181669	103.2870255	100.7352319	98.25989126	95.85823549	93.52761651	91.2655001
ADV1008418	8/2/2024	3.791	8/2/2029	115.36727	111.4624927	107.7132756	104.1125182	100.6534864	97.32979313	94.13537874	91.06449144	88.11166992
ADV1008419	8/2/2024	3.865	8/2/2027	107.1115	105.3907886	103.7063422	102.0570762	100.4419521	98.85997268	97.31017939	95.79165087	94.30350098
ADV1008424	8/2/2024	3.748	8/2/2028	111.33362	108.5315114	105.8151443	103.1813343	100.6270435	98.14936801	95.7455313	93.41287722	91.14886397
ADV1008425	8/2/2024	4.221	2/2/2026	100.7569	100.5786707	100.401071	100.2240997	100.0477533	99.87202851	99.6969221	99.52243079	99.34855136
ADV1008426	8/2/2024	3.679	8/2/2029	115.22719	111.317673	107.5641069	103.9593679	100.4966978	97.16968751	93.97225635	90.89863314	87.94333837
ADV1008432	8/5/2024	3.693	8/5/2027	106.85318	105.1264884	103.4363123	101.7815597	100.1611809	98.57416764	97.01955134	95.49640101	94.00382143
ADV1008441	8/5/2024	3.734	8/6/2029	115.19662	111.2837104	107.5270965	103.9196255	100.4545149	97.12533277	93.92597763	90.85065905	87.89387975
ADV1008442	8/5/2024	3.826	8/7/2028	111.40286	108.5902206	105.8638831	103.2206368	100.657414	98.17128325	95.75944164	93.41920859	91.1480193
ADV1008443	8/5/2024	3.838	9/7/2027	107.49321	105.6693662	103.8855525	102.1405528	100.4332029	98.76238433	97.127023	95.52608633	93.95858146
ADV1008444	8/5/2024	3.836	10/5/2027	107.82595	105.919756	104.0568681	102.2360438	100.4560885	98.71584934	97.01421301	95.35010454	93.72248552
ADV1008448	8/5/2024	3.892	8/5/2027	107.1929	105.4632072	103.7700902	102.1124498	100.4892349	98.89943573	97.34208242	95.81624266	94.32101996
ADV1008449	8/5/2024	3.821	8/6/2029	115.52366	111.6046522	107.8421255	104.228915	100.7582315	97.423637	94.21902408	91.13859663	88.17685197
ADV1008450	8/5/2024	3.892	8/5/2027	107.1929	105.4632072	103.7700902	102.1124498	100.4892349	98.89943573	97.34208242	95.81624266	94.32101996
ADV1008451	8/5/2024	4.008	8/5/2031	124.10225	117.8703231	111.9986804	106.4644554	101.2463589	96.32456027	91.68058024	87.29719077	83.15832379
ADV1008452	8/5/2024	3.976	8/5/2026	102.86431	102.1681201	101.4813711	100.8038668	100.1354214	99.47585373	98.82498759	98.18265139	97.54867803
ADV1008462	8/7/2024	3.893	8/2/2027	107.15817	105.437053	103.7522007	102.1025362	100.4870207	98.90465676	97.35448566	95.83558584	94.34707096
ADV1008468	8/5/2024	4.047	8/5/2026	102.86481	102.1692533	101.4831128	100.8062004	100.1383305	99.47932272	98.82900124	98.18719495	97.55373719

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ADV1008472	8/5/2024	3.867	8/5/2027	107.15022	105.4209059	103.7281583	102.0708807	100.4480221	98.8585729	97.30156344	95.77606155	94.28117089
ADV1008502	8/6/2024	4.121	8/6/2026	102.9274	102.2288137	101.5397214	100.8599339	100.1892633	99.52752705	98.87454706	98.23015018	97.59416773
ADV1008503	10/4/2024	3.864	10/4/2027	107.86691	105.9630898	104.1024542	102.2837751	100.5058627	98.76756817	97.06778271	95.40543525	93.77949117
ADV1008505	8/6/2024	4.334	2/6/2026	100.82573	100.6362865	100.4475653	100.2595588	100.0722629	99.88567357	99.69978682	99.51459862	99.33010501
ADV1008506	10/4/2024	3.867	10/4/2027	107.87254	105.9686601	104.1079714	102.2892403	100.5112766	98.77293197	97.07309723	95.41070137	93.78470977
ADV1008509	8/6/2024	4.127	8/6/2026	102.93156	102.2329539	101.5438457	100.8640425	100.1933564	99.53160464	98.87860935	98.2341973	97.59819984
ADV1008510	8/6/2024	3.806	8/6/2029	115.74804	111.8174516	108.0439405	104.4203093	100.9397376	97.59575775	94.38223479	91.29334661	88.32356613
ADV1008511	8/6/2024	3.955	8/6/2027	107.31216	105.5786629	103.8818573	102.2206419	100.5939607	99.00079961	97.44018444	95.91117888	94.41288263
ADV1008512	8/6/2024	3.806	8/6/2029	115.74804	111.8174516	108.0439405	104.4203093	100.9397376	97.59575775	94.38223479	91.29334661	88.32356613
ADV1008522	8/6/2024	4.109	8/7/2026	102.93106	102.229658	101.5378348	100.8553914	100.1821376	99.51788837	98.86246379	98.21568853	97.57739193
ADV1008523	8/6/2024	3.939	8/6/2027	107.2848	105.5515479	103.8549795	102.1939971	100.5675446	98.97460816	97.41421373	95.88542507	94.38734198
ADV1008531	8/7/2024	4.353	2/9/2026	100.86669	100.6688609	100.4718141	100.2755485	100.0800593	99.88534186	99.69139166	99.49820406	99.30577452
ADV1008546	8/7/2024	4.17	8/7/2026	102.97348	102.2719191	101.579933	100.8973282	100.2239146	99.5595071	98.90392574	98.25699516	97.6185447
ADV1008547	8/7/2024	3.99	8/9/2027	107.4088	105.6661824	103.9605729	102.2908541	100.6559567	99.05485436	97.48656127	95.95013006	94.44464996
ADV1008557	8/7/2024	4.096	8/7/2026	102.92201	102.2206515	101.5288631	100.846454	100.1732343	99.50901881	98.85362764	98.20688548	97.56862167
ADV1008570	8/8/2024	3.887	8/8/2029	116.07592	112.1335236	108.3488034	104.7145277	101.223843	97.87025131	94.64758901	91.55000727	88.57195395
ADV1008577	8/8/2024	4.076	8/10/2026	102.9932	102.282552	101.5817293	100.8905309	100.2087592	99.53622183	98.87273184	98.21810719	97.57217072
ADV1008595	8/9/2024	3.986	8/9/2027	107.40178	105.6592155	103.9536597	102.2839938	100.6491485	99.04809756	97.47985505	95.94347366	94.43804265
ADV1008612	8/12/2024	4.364	2/12/2026	100.90566	100.6994309	100.4940527	100.2895235	100.085838	99.88299084	99.68097682	99.47979076	99.27942752
ADV1008616	8/12/2024	4.385	8/12/2026	101.68391	101.3102043	100.9401818	100.5737827	100.2109473	99.85161763	99.4957368	99.1432493	98.7941009
ADV1008618	8/12/2024	4.287	2/12/2026	100.90406	100.6976776	100.4921526	100.2874788	100.0836509	99.88066374	99.6785119	99.47719021	99.27669349
ADV1008646	8/13/2024	3.838	8/13/2029	115.66411	111.7226556	107.9392136	104.3065231	100.817701	97.46622153	94.24589576	91.15085173	88.17551611
ADV1008647	8/13/2024	3.885	8/13/2027	107.27524	105.5227949	103.8077308	102.1289187	100.4852733	98.87575256	97.29935604	95.75512256	94.24212831
ADV1008648	8/15/2024	3.881	8/16/2027	107.30421	105.543245	103.8199692	102.1332381	100.4819531	98.86506021	97.28154738	95.73044254	94.21081154
ADV1008666	8/14/2024	4.249	2/17/2026	100.94229	100.7221198	100.5029247	100.2846943	100.0674222	99.85110193	99.6357273	99.42129203	99.20778994
ADV1008670	8/14/2024	4.054	8/14/2026	102.97441	102.2533	101.5423131	100.8412345	100.1498577	99.46798213	98.79541238	98.13195856	97.4774359
ADV1008686	8/14/2024	3.893	8/16/2027	107.32506	105.5639075	103.8404481	102.1535368	100.5020748	98.88500812	97.30132454	95.75005194	94.23025609
ADV1008713	8/15/2024	3.965	8/15/2029	115.69127	111.8468694	108.1573192	104.6154762	101.2145702	97.9481811	94.81021886	91.79490449	88.89675221
ADV1008716	8/15/2024	4.461	12/18/2025	100.22183	100.1717645	100.1217705	100.0718436	100.0219835	99.97219017	99.92246346	99.87280324	99.82320935
ADV1008717	8/15/2024	4.437	1/15/2026	100.56675	100.438683	100.3109595	100.1835769	100.0565339	99.92982897	99.8034608	99.67742798	99.55172912
ADV1008720	8/15/2024	4.228	8/17/2026	103.13565	102.4055309	101.685773	100.9761575	100.2764709	99.58650541	98.90605899	98.23493529	97.57294328
ADV1008766	8/26/2024	4.144	8/26/2026	103.18174	102.426313	101.6819609	100.948445	100.2255295	99.51298566	98.81059117	98.11813004	97.43539238
ADV1008768	8/26/2024	3.971	8/26/2027	107.58105	105.7900457	104.0377953	102.3231043	100.6448297	99.00187536	97.39318956	95.81776264	94.27462492

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ADV1008771	8/19/2024	3.982	8/19/2027	107.51582	105.7446852	104.011579	102.3153411	100.6548593	99.02906648	97.43693812	95.87749046	94.34977825
ADV1008800	8/20/2024	3.845	8/20/2029	115.76768	111.8044718	108.0007986	104.3492995	100.8429971	97.47527801	94.23987191	91.13083105	88.14251156
ADV1008819	8/20/2024	4.106	8/20/2026	103.08222	102.3439419	101.6162644	100.8989565	100.1917973	99.49457209	98.8070723	98.12909511	97.46044332
ADV1008827	8/21/2024	4.231	2/23/2026	101.00989	100.7729549	100.5371349	100.3024236	100.0688133	99.83629616	99.60486449	99.37451069	99.14522724
ADV1008829	8/21/2024	4.056	8/21/2026	103.05748	102.3165105	101.5862168	100.8663684	100.1567421	99.45712093	98.76729397	98.08705628	97.41620861
ADV1008832	8/21/2024	3.867	8/23/2027	107.36231	105.5815559	103.8392093	102.1340938	100.4650804	98.83108641	97.23107258	95.66404118	94.1290338
ADV1008842	8/21/2024	4.074	8/21/2026	103.03384	102.293452	101.5637244	100.8444278	100.1353392	99.43624229	98.7469265	98.0671873	97.39682582
ADV1008843	8/21/2024	4.244	2/23/2026	101.00112	100.7643195	100.5286381	100.2940633	100.0605874	99.82820268	99.59690146	99.36667617	99.13751932
ADV1008861	8/22/2024	4.111	8/24/2026	103.13376	102.3841057	101.6453728	100.9173192	100.1997142	99.49233383	98.7949603	98.1073821	97.42939363
ADV1008862	8/22/2024	3.953	8/23/2027	107.51339	105.7312671	103.9875765	102.2811415	100.6108325	98.97556618	97.37430261	95.80604346	94.26982973
ADV1008905	8/23/2024	3.952	8/24/2026	103.06778	102.3177078	101.5785717	100.8501315	100.132156	99.42442043	98.72670666	98.03880259	97.3605021
ADV1008938	8/26/2024	3.994	8/26/2026	103.0696	102.3146313	101.5707387	100.8376774	100.115212	99.40311367	98.70116015	98.00913557	97.32683011
ADV1008945	8/26/2024	3.761	8/26/2027	107.33751	105.5464782	103.7942447	102.0796125	100.4014362	98.75861781	97.1501035	95.57488181	94.03198131
ADV1008946	8/26/2024	3.841	8/26/2027	107.3516	105.5626871	103.8124869	102.0998085	100.42351	98.78249616	97.17571633	95.60216179	94.06086373
ADV1008974	8/26/2024	4.187	2/26/2026	101.03483	100.7895259	100.5454119	100.3024806	100.0607235	99.82013214	99.58069804	99.34241289	99.10526847
ADV1009003	8/26/2024	3.951	8/26/2026	103.09003	102.3342794	101.5896274	100.8558272	100.1326425	99.4198439	98.71720864	98.0245202	97.34156821
ADV1009013	8/26/2024	4.034	8/26/2026	103.0995	102.344413	101.6003979	100.8672154	100.14463	99.43241287	98.73034176	98.03820076	97.35578005
ADV1009014	8/26/2024	3.869	8/26/2027	107.40102	105.6116567	103.8610149	102.147903	100.4711788	98.82974707	97.22255672	95.64859889	94.1069046
ADV1009026	8/26/2024	4.206	2/26/2026	101.03948	100.7941656	100.5500439	100.307105	100.0653403	99.82474131	99.58529964	99.34700697	99.10985503
ADV1009074	8/27/2024	3.885	8/27/2027	107.44078	105.6483207	103.8946896	102.1786914	100.4991794	98.85505423	97.24526078	95.66878641	94.12465856
ADV1009082	8/27/2024	4.187	8/26/2033	132.08688	123.4050512	115.3783123	107.9532971	101.0812737	94.7177162	88.82192015	83.35665473	78.28784863
ADV1009084	8/27/2024	3.811	8/27/2029	115.71502	111.7330099	107.9119809	104.2444693	100.7234059	97.34209228	94.09417909	90.97364509	87.9747781
ADV1009085	8/27/2024	3.854	8/25/2028	111.68251	108.815713	106.0381025	103.3463078	100.7371131	98.20744801	95.75437942	93.37510426	91.06694261
ADV1009086	8/27/2024	3.817	8/1/2029	114.68238	110.9708029	107.4065312	103.9827953	100.6931795	97.531603	94.49230028	91.56980221	88.75891895
ADV1009087	10/1/2024	3.806	10/1/2027	107.72385	105.8296725	103.9783037	102.1685239	100.3991584	98.6690729	96.9771723	95.32239863	93.70372981
ADV1009092	8/27/2024	4.029	8/27/2026	103.10704	102.3491518	101.6024143	100.8665869	100.1414315	99.42671708	98.72221902	98.02771919	97.34300567
ADV1009097	8/27/2024	3.831	8/28/2028	111.65265	108.7778803	105.99276	103.2938895	100.6780289	98.14208482	95.68310296	93.2982602	90.98485787
ADV1009134	8/28/2024	3.914	8/28/2026	103.08514	102.3238428	101.5737984	100.8347608	100.1064888	99.38874812	98.68131147	97.98395788	97.29647273
ADV1009152	8/29/2024	4.198	2/27/2026	101.04906	100.8009779	100.5541082	100.3084461	100.0639828	99.82070956	99.57861776	99.3376988	99.09794421
ADV1009154	8/29/2024	3.884	8/30/2027	107.47493	105.6738925	103.9119992	102.1880381	100.5008492	98.84932043	97.23238501	95.64901904	94.09823936
ADV1009155	8/29/2024	3.862	8/29/2028	111.75079	108.8718518	106.0827453	103.3800686	100.7605726	98.22115532	95.75885418	93.37083843	91.05440213
ADV1009156	8/29/2024	3.808	8/29/2029	115.72569	111.7378139	107.9113484	104.2387997	100.7130716	97.32744078	94.07553464	90.95131036	87.94903569
ADV1009169	8/29/2024	3.827	8/29/2029	115.79832	111.8090703	107.9812702	104.3074266	100.7804416	97.39359067	94.14049968	91.01512455	88.01173179

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ADV1009199	8/30/2024	4.049	8/31/2026	103.16909	102.3997754	101.6419382	100.8953254	100.159689	99.434788	98.72038871	98.01626401	97.3221933
ADV1009202	8/30/2024	3.898	8/30/2027	107.49964	105.6983822	103.9362661	102.2120855	100.5246802	98.87293815	97.25579247	95.67221924	94.12123526
ADV1009206	8/30/2024	4.054	8/31/2026	103.1729	102.4035664	101.6457133	100.8990849	100.1634329	99.43851661	98.72410214	98.0199624	97.32587682
ADV1009228	9/3/2024	3.768	9/3/2027	107.44874	105.6343961	103.8597118	102.1234699	100.4245031	98.7616912	97.13395922	95.54027479	93.97964611
ADV1009240	9/3/2024	3.792	9/4/2029	115.73522	111.7299331	107.8873734	104.1999747	100.6605735	97.26238209	93.99896627	90.86422427	87.85236753
ADV1009244	9/3/2024	3.868	9/3/2027	107.49879	105.6862693	103.9133326	102.1787627	100.4813953	98.82011334	97.19384478	95.60155991	94.04226952
ADV1009248	9/3/2024	3.937	12/16/2026	104.37267	103.2975375	102.2446053	101.2131879	100.2026299	99.21230231	98.24160114	97.28994632	96.35678044
ADV1009249	9/3/2024	3.843	12/15/2027	108.67765	106.564324	104.5033077	102.4929571	100.5316966	98.61801109	96.75044359	94.9275921	93.14810727
ADV1009291	9/5/2024	3.683	12/5/2028	112.33129	109.1650252	106.1060992	103.1502673	100.293476	97.53185529	94.8617093	92.27950731	89.78187539
ADV1009297	9/5/2024	3.631	9/5/2029	115.41433	111.4045746	107.5580845	103.8672594	100.3249039	96.92419974	93.65868404	90.52222796	87.50901741
ADV1009298	9/5/2024	3.617	9/5/2029	115.36045	111.3517216	107.5062271	103.816368	100.2749499	96.87515564	93.6105234	90.47492532	87.46254823
ADV1009305	9/5/2024	3.995	3/5/2026	101.09	100.8249655	100.5613303	100.2990808	100.0382061	99.77869543	99.52053794	99.26372304	99.00824021
ADV1009308	9/5/2024	3.871	9/8/2026	103.1291	102.3376137	101.5582928	100.7908582	100.0350392	99.29057316	98.5572053	97.83468849	97.12278288
ADV1009314	9/5/2024	3.781	1/5/2028	108.68077	106.5114066	104.3966807	102.3348378	100.3241961	98.36314035	96.45011868	94.5836397	92.76226951
ADV1009336	9/6/2024	3.698	9/8/2026	103.04806	102.2561641	101.4764517	100.7086438	99.95246891	99.2076637	98.47397286	97.75114862	97.03895058
ADV1009337	9/6/2024	3.786	9/4/2026	103.017	102.2371527	101.4691222	100.7126401	99.96744706	99.23329158	98.50992953	97.79712395	97.09464478
ADV1009353	9/9/2024	3.541	9/10/2029	115.12119	111.1024498	107.2479238	103.5499691	100.0013452	96.59518959	93.32499595	90.18459333	87.1681267
ADV1009354	9/9/2024	3.541	9/10/2029	115.12119	111.1024498	107.2479238	103.5499691	100.0013452	96.59518959	93.32499595	90.18459333	87.1681267
ADV1009355	9/9/2024	3.541	9/10/2029	115.12119	111.1024498	107.2479238	103.5499691	100.0013452	96.59518959	93.32499595	90.18459333	87.1681267
ADV1009390	9/10/2024	3.564	9/10/2029	114.92217	110.9149138	107.0712527	103.3835823	99.84469521	96.4477599	93.18629919	90.05416942	87.04554116
ADV1009394	9/10/2024	3.563	9/10/2029	114.91832	110.9111303	107.0675406	103.3799396	99.84111972	96.4442497	93.18285237	90.05078415	87.04221569
ADV1009404	9/10/2024	3.947	3/10/2026	101.11469	100.8359138	100.5586873	100.2829965	100.0088288	99.73617135	99.46501167	99.19533733	98.92713607
ADV1009405	9/10/2024	3.947	3/10/2026	101.11469	100.8359138	100.5586873	100.2829965	100.0088288	99.73617135	99.46501167	99.19533733	98.92713607
ADV1009406	9/10/2024	3.947	3/10/2026	101.11469	100.8359138	100.5586873	100.2829965	100.0088288	99.73617135	99.46501167	99.19533733	98.92713607
ADV1009407	9/10/2024	3.95	9/10/2026	103.21374	102.416276	101.6311552	100.8580927	100.0968116	99.34704386	98.60852928	97.8810155	97.16425771
ADV1009409	9/10/2024	3.95	9/10/2026	103.21374	102.416276	101.6311552	100.8580927	100.0968116	99.34704386	98.60852928	97.8810155	97.16425771
ADV1009418	9/11/2024	4.04	12/11/2025	100.12406	100.0934681	100.06291	100.032387	100.001899	99.97144591	99.9410277	99.91064429	99.88029562
ADV1009420	9/11/2024	3.627	3/11/2027	105.05439	103.7406881	102.4559406	101.1991893	99.96951801	98.7660505	97.58794855	96.43440969	95.3046654
ADV1009421	9/11/2024	3.91	3/11/2026	101.11548	100.8339265	100.553951	100.2755423	99.9986874	99.72337308	99.44958643	99.17731467	98.90654514
ADV1009423	9/11/2024	3.892	3/11/2026	101.13016	100.8483656	100.5681519	100.289509	100.0124234	99.73688211	99.46287208	99.19038045	98.91939452
ADV1009446	9/12/2024	3.779	9/14/2026	103.12327	102.3150409	101.5194962	100.7363415	99.96528857	99.20605812	98.45837933	97.72198962	96.99663434
ADV1009447	9/12/2024	3.644	9/13/2027	107.21247	105.3741657	103.576516	101.8183106	100.0983857	98.41562223	96.76894357	95.15731368	93.57973501
ADV1009462	9/12/2024	3.629	9/13/2027	107.18523	105.3471829	103.5497831	101.7918228	100.0721386	98.38961135	96.74316473	95.13176273	93.55440793

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009463	9/12/2024	3.626	9/12/2028	111.24717	108.3352513	105.5153227	102.7839128	100.1377079	97.57354079	95.08838329	92.67933924	90.34363761
ADV1009481	9/13/2024	4.073	9/13/2034	134.32178	124.4422366	115.3959079	107.1073905	99.50849869	92.53753745	86.13865283	80.26125034	74.85947409
ADV1009482	9/13/2024	4.294	9/13/2039	148.69185	132.93635	119.1296808	107.0151834	96.3714732	87.00741777	78.75785267	71.47992435	65.04996452
ADV1009486	9/13/2024	3.937	3/13/2026	101.14512	100.8579617	100.5724436	100.2885552	100.0062824	99.72561141	99.44652849	99.16902009	98.89307279
ADV1009487	9/13/2024	3.722	9/14/2026	103.07719	102.2691565	101.4738058	100.6908431	99.91998021	99.16093779	98.41344508	97.67723955	96.95206657
ADV1009492	9/13/2024	3.58	9/13/2029	115.01512	110.9973758	107.1439526	103.4472113	99.89991146	96.49518972	93.22653765	90.08778135	87.07306212
ADV1009493	9/13/2024	3.602	9/13/2028	111.18964	108.275667	105.4538343	102.7206652	100.0728419	97.50719328	95.02068695	92.61042245	90.27362446
ADV1009494	9/13/2024	3.577	9/13/2027	107.0904	105.2532362	103.4567049	101.6995973	99.98075021	98.29904518	96.65340612	95.04279744	93.4662221
ADV1009496	9/13/2024	3.583	9/13/2027	107.1013	105.2640286	103.4673974	101.7101917	99.9912484	98.30944887	96.663717	95.05301717	93.47635228
ADV1009502	9/13/2024	3.563	9/13/2027	107.06498	105.228054	103.4317557	101.6748769	99.95625442	98.27476991	96.6293474	95.01895141	93.442585
ADV1009506	9/13/2024	3.587	6/14/2027	106.08306	104.507002	102.9624692	101.4485917	99.96452767	98.50946583	97.08262386	95.68324721	94.31060784
ADV1009507	9/13/2024	3.566	9/13/2027	107.07043	105.2334502	103.4371019	101.6801741	99.96150352	98.27997176	96.63450284	95.02406127	93.4476501
ADV1009508	9/13/2024	3.569	12/13/2027	108.08522	105.9836269	103.9339944	101.9346954	99.9841677	98.08090905	96.22347446	94.41047348	92.64056772
ADV1009545	9/16/2024	3.674	9/16/2026	103.06048	102.2469318	101.4462435	100.6581114	99.88224143	99.11834872	98.36615706	97.62539871	96.89581407
ADV1009546	9/16/2024	3.542	9/16/2027	107.06051	105.2151064	103.4106679	101.6459883	99.91990403	98.23129555	96.57908501	94.96223445	93.37974393
ADV1009547	9/16/2024	3.57	9/18/2028	111.1531	108.2252914	105.3904483	102.6450787	99.98584232	97.40954459	94.91312961	92.49367307	90.14837566
ADV1009550	9/16/2024	3.67	9/16/2026	103.05725	102.2437205	101.4430463	100.6549281	99.87907203	99.115193	98.36301487	97.62226991	96.89269851
ADV1009552	9/16/2024	3.676	9/16/2026	103.06209	102.2485375	101.4478421	100.659703	99.88382613	99.11992658	98.36772815	97.62696311	96.89737185
ADV1009579	9/17/2024	3.902	3/24/2026	101.25828	100.9403541	100.624435	100.3105013	99.9985343	99.6885154	99.38042638	99.07424918	98.769966
ADV1009589	9/17/2024	3.82	3/17/2026	101.17617	100.8776042	100.5808129	100.2857826	99.99249752	99.70094214	99.41110105	99.12295902	98.83650102
ADV1009590	9/17/2024	3.63	9/17/2026	103.09258	102.2753315	101.4710533	100.6794404	99.90019471	99.13302777	98.3776599	97.63382003	96.90124535
ADV1009591	9/17/2024	3.571	9/17/2029	115.02251	110.9930101	107.1287325	103.421996	99.86551864	96.45239646	93.17608147	90.03036133	87.00934011
ADV1009613	9/18/2024	3.635	9/20/2027	107.27597	105.417184	103.5998619	101.8227908	100.0848052	98.38478283	96.72164222	95.09434098	93.50187407
ADV1009620	9/18/2024	3.927	3/18/2026	101.19829	100.8971278	100.5977745	100.3002104	100.0044196	99.71038603	99.418094	99.12752797	98.83867256
ADV1009621	9/18/2024	3.762	9/18/2026	103.15352	102.3339726	101.5274688	100.7336954	99.95235211	99.18314834	98.42580237	97.68004113	96.94559994
ADV1009625	9/18/2024	3.596	9/18/2029	115.12997	111.0955049	107.2265478	103.515406	99.9547848	96.53776781	93.25779512	90.10864277	87.08440363
ADV1009628	9/18/2024	3.804	3/18/2026	101.18241	100.8810483	100.5814978	100.2837406	99.98776037	99.69354124	99.40106736	99.1103231	98.82129305
ADV1009629	9/18/2024	3.639	9/18/2026	103.11077	102.2906414	101.483577	100.6892636	99.90740044	99.13769597	98.37986782	97.63364227	96.89875398
ADV1009631	9/18/2024	3.804	3/18/2026	101.18241	100.8810483	100.5814978	100.2837406	99.98776037	99.69354124	99.40106736	99.1103231	98.82129305
ADV1009638	9/18/2024	3.651	9/18/2026	103.12051	102.3003437	101.4932363	100.6988804	99.91697513	99.14722906	98.38935975	97.64309349	96.90816493
ADV1009641	9/18/2024	3.641	9/18/2026	103.11239	102.2922584	101.4851869	100.6908664	99.90899622	99.13928482	98.38144981	97.63521747	96.90032247
ADV1009658	9/19/2024	3.859	3/19/2026	101.18881	100.8848966	100.5828171	100.2825591	99.98410597	99.68744148	99.39254945	99.09941392	98.80801914
ADV1009662	9/19/2024	3.613	9/20/2027	107.23546	105.377053	103.5601021	101.7833955	100.045768	98.34609731	96.68330223	95.05634053	93.46420731

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1009663	9/19/2024	3.613	9/20/2027	107.23546	105.377053	103.5601021	101.7833955	100.045768	98.34609731	96.68330223	95.05634053	93.46420731
ADV1009675	9/19/2024	3.692	11/19/2026	103.79272	102.7966285	101.8196779	100.8613218	99.92103253	98.9983021	98.09264145	97.20357952	96.33066247
ADV1009678	9/19/2024	3.707	10/19/2026	103.45414	102.5465753	101.6549595	100.7788701	99.91790359	99.07167038	98.23979415	97.42191128	96.61767038
ADV1009688	9/19/2024	3.858	3/19/2026	101.18851	100.884594	100.582515	100.2822576	99.9838051	99.6871412	99.39224974	99.09911479	98.80772058
ADV1009728	9/20/2024	3.503	9/20/2027	107.16525	105.3051375	103.4865583	101.7083003	99.96919507	98.26811738	96.603983	94.97574694	93.38240168
ADV1009752	9/23/2024	3.597	9/23/2027	107.2398	105.3728373	103.5476683	101.7630877	100.0179297	98.3110707	96.6414271	95.00795396	93.40964307
ADV1009770	9/23/2024	3.596	9/23/2027	107.23796	105.3710115	103.5458596	101.7612958	100.0161544	98.30931153	96.63968386	95.00622635	93.40793081
ADV1009789	9/24/2024	3.584	9/24/2027	107.22709	105.3574016	103.5296273	101.7425539	99.99501536	98.28588761	96.61408645	94.97856601	93.37831701
ADV1009793	9/24/2024	3.611	3/24/2027	105.18207	103.837742	102.5192212	101.2257875	99.95674851	98.71143739	97.48921173	96.28945243	95.11156262
ADV1009805	9/24/2024	3.791	3/24/2026	101.22206	100.9041975	100.5883365	100.2744607	99.96255155	99.65259039	99.344559	99.03843933	98.73421357
ADV1009834	9/25/2024	3.664	9/25/2026	103.14918	102.3101317	101.4847426	100.6726809	99.87362561	99.08726578	98.31330034	97.5514377	96.80139533
ADV1009836	9/25/2024	3.705	3/25/2026	101.22762	100.9067224	100.5878698	100.27104	99.95621381	99.64337224	99.33249647	99.02356795	98.71656835
ADV1009840	9/25/2024	3.701	3/25/2026	101.22634	100.9054464	100.5865963	100.269769	99.95494541	99.64210637	99.33123312	99.0223071	98.71531001
ADV1009841	9/25/2024	3.577	9/25/2026	103.13539	102.2956051	101.4695056	100.6567567	99.85703648	99.07003328	98.29544525	97.53298004	96.78235445
ADV1009842	9/25/2024	3.585	9/25/2026	103.14204	102.3022254	101.4760959	100.6633174	99.86356794	99.0765358	98.30191915	97.53942564	96.78877205
ADV1009857	9/25/2024	3.597	9/25/2026	103.15201	102.3121559	101.4859814	100.6731585	99.87336515	99.08628959	98.31163001	97.54909404	96.79839846
ADV1009867	9/26/2024	3.668	9/26/2029	115.49526	111.430513	107.5332987	103.7958235	100.2107009	96.77092501	93.46984907	90.30116478	87.25888344
ADV1009868	9/26/2024	3.558	9/27/2027	107.34635	105.4646044	103.6252276	101.8270083	100.0687754	98.34939917	96.66778931	95.02289346	93.41369546
ADV1009872	9/26/2024	3.719	9/28/2026	103.22807	102.3802885	101.5464392	100.7261797	99.91917951	99.12511891	98.34368832	97.57458798	96.81752756
ADV1009875	9/26/2024	3.644	9/27/2027	107.37222	105.4926444	103.6553464	101.8591193	100.1027956	98.38524884	96.70539193	95.06217547	93.45458617
ADV1009876	9/26/2024	3.64	9/28/2026	103.22089	102.3723332	101.5377337	100.716748	99.9090448	99.11430341	98.33221352	97.56247462	96.80479563
ADV1009880	9/26/2024	3.727	9/28/2026	103.23478	102.3869729	101.5530931	100.7328035	99.92577351	99.13168346	98.35022375	97.58109461	96.82400572
ADV1009882	9/26/2024	3.658	9/1/2027	107.22177	105.3853939	103.5903034	101.8353275	100.119333	98.4412264	96.79995149	95.1944883	93.62385147
ADV1009896	9/26/2024	3.656	9/27/2027	107.39448	105.5146852	103.6771791	101.8807477	100.1242236	98.40648002	96.7264299	95.08302372	93.47524808
ADV1009897	9/26/2024	3.687	9/26/2028	111.57551	108.6186175	105.756199	102.9847213	100.3008016	97.70120254	95.18282469	92.74270013	90.37798599
ADV1009908	9/27/2024	3.634	9/27/2027	107.35326	105.4738715	103.636763	101.8407211	100.0845786	98.36720899	96.6875254	95.04447854	93.43705521
ADV1009916	9/27/2024	3.624	9/27/2029	115.33393	111.2694125	107.3725541	103.6355576	100.0510297	96.61195762	93.31168764	90.1439049	87.10261424
ADV1009921	9/27/2024	3.546	9/27/2028	111.39155	108.429683	105.5626468	102.7868933	100.0990246	97.49578906	94.97407339	92.53089625	90.16340182
ADV1009930	9/27/2024	3.605	9/27/2027	107.29948	105.4206095	103.5840038	101.7884554	100.0327972	98.31590308	96.63668631	94.99409786	93.38712476
ADV1009933	9/27/2024	3.522	9/27/2027	107.27914	105.3980439	103.5593081	101.7617171	100.0041001	98.28532793	96.60431051	94.95999582	93.35136803
ADV1009935	9/27/2024	3.525	9/27/2027	107.2847	105.4035575	103.5647695	101.7671274	100.0094603	98.29063878	96.609573	94.96521082	93.35653638
ADV1009937	9/27/2024	3.522	9/27/2027	107.27914	105.3980439	103.5593081	101.7617171	100.0041001	98.28532793	96.60431051	94.95999582	93.35136803
ADV1009938	9/27/2024	3.676	9/29/2028	111.42588	108.4659404	105.6007524	102.8267809	100.140639	97.53908453	95.01901246	92.57744867	90.2115436

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ADV1009939	9/27/2024	3.676	9/22/2028	111.34859	108.4098678	105.5646859	102.8095347	100.1410614	97.55605856	95.05145636	92.62431621	90.27182413
ADV1009941	9/27/2024	3.675	9/15/2028	111.26845	108.3509742	105.525821	102.7895197	100.1387509	97.570341	95.08125489	92.66858879	90.32956365
ADV1009942	9/27/2024	3.674	9/8/2028	111.18837	108.2921007	105.4869582	102.7694967	100.1364294	97.584616	95.11105528	92.71287756	90.3873381
ADV1009970	9/30/2024	3.7	11/3/2028	111.8701	108.8060162	105.8429733	102.9770836	100.204635	97.52207836	94.92601931	92.41321066	89.98054511
ADV1009971	9/30/2024	3.7	11/10/2028	111.9465	108.8612153	105.878302	102.9938028	100.2039333	97.50507614	94.89377293	92.36671619	89.92074189
ADV1009973	9/30/2024	3.7	11/17/2028	112.02292	108.9163948	105.9135945	103.0104772	100.2031852	97.48803216	94.86149502	92.32020538	89.86094192
ADV1009975	9/30/2024	3.7	11/17/2028	112.02292	108.9163948	105.9135945	103.0104772	100.2031852	97.48803216	94.86149502	92.32020538	89.86094192
ADV1009987	9/30/2024	3.6	9/30/2027	107.45865	105.5672982	103.7186816	101.9115864	100.1448402	98.41731139	96.7279068	95.07557069	93.45928305
ADV1009989	9/30/2024	3.6	9/30/2027	107.45865	105.5672982	103.7186816	101.9115864	100.1448402	98.41731139	96.7279068	95.07557069	93.45928305
ADV1010009	10/1/2024	3.613	10/1/2026	103.23474	102.3777473	101.5349891	100.7061094	99.89076737	99.08863316	98.29938762	97.52272178	96.7583365
ADV1010014	10/1/2024	3.62	10/2/2028	111.4516	108.4794986	105.6028521	102.8180903	100.1217949	97.51069327	94.98165158	92.53166815	90.15786708
ADV1010017	10/1/2024	3.694	10/1/2026	103.24376	102.3875439	101.5455375	100.7173853	99.90274729	99.1012945	98.31270858	97.53668134	96.77291438
ADV1010021	10/1/2024	3.817	4/1/2026	101.32157	100.9812939	100.6432984	100.3075629	99.97406478	99.64278187	99.31369211	98.98677379	98.6620055
ADV1010023	10/1/2024	3.703	10/1/2026	103.25139	102.3951468	101.5531055	100.7249188	99.91024664	99.10876011	98.32014083	97.54408061	96.78028104
ADV1010032	10/30/2024	3.564	10/29/2027	107.57371	105.6039449	103.6803331	101.8015179	99.96618753	98.17307723	96.42096737	94.70868154	93.03508471
ADV1010033	10/30/2024	3.564	10/29/2027	107.57371	105.6039449	103.6803331	101.8015179	99.96618753	98.17307723	96.42096737	94.70868154	93.03508471
ADV1010040	10/2/2024	3.63	10/18/2027	107.5838	105.6442326	103.7494837	101.8982487	100.0892707	98.32133763	96.59327973	94.90396823	93.25231347
ADV1010084	10/3/2024	3.638	10/4/2027	107.57851	105.6750096	103.8147466	101.9964821	100.2190237	98.48122087	96.78196246	95.12017558	93.49482383
ADV1010086	10/3/2024	3.641	10/3/2029	115.76085	111.6630458	107.7350321	103.9688881	100.3571054	96.89256278	93.56850361	90.37851578	87.3165121
ADV1010107	10/3/2024	3.82	10/5/2026	103.39652	102.5284126	101.674902	100.8356186	100.0102085	99.1983295	98.3996505	97.61385115	96.84062142
ADV1010108	10/3/2024	3.82	10/5/2026	103.39652	102.5284126	101.674902	100.8356186	100.0102085	99.1983295	98.3996505	97.61385115	96.84062142
ADV1010118	10/4/2024	4.004	10/5/2026	103.55456	102.6857077	101.8314576	100.9914436	100.1653115	99.35271887	98.55333455	97.76683801	96.99291904
ADV1010124	10/4/2024	3.91	10/4/2027	107.95316	106.0485015	104.1870517	102.3675737	100.5888771	98.84981301	97.14927194	95.48618252	93.85950977
ADV1010129	10/4/2024	3.951	10/5/2026	103.5696	102.6998435	101.8447164	101.0038517	100.1768943	99.36350087	98.56333933	97.77608833	97.00143687
ADV1010130	10/4/2024	3.864	10/4/2028	112.39367	109.397449	106.4976252	103.6905801	100.9728544	98.34113662	95.79225608	93.32317615	90.9309878
ADV1010146	10/7/2024	3.988	10/7/2027	108.13507	106.220381	104.3492856	102.520538	100.7329323	98.98530483	97.27653225	95.60552976	93.97124961
ADV1010149	10/7/2024	4.086	10/8/2026	103.66125	102.7834776	101.9206033	101.0722466	100.238043	99.41764001	98.61069662	97.81688314	97.03588055
ADV1010157	10/7/2024	4.119	7/10/2026	102.60605	101.9839043	101.3693237	100.7621659	100.1622967	99.56958512	98.98390342	98.40512677	97.83313335
ADV1010172	10/8/2024	4.484	10/8/2036	144.23775	131.7159812	120.4551472	110.3195082	101.1886685	92.95576489	85.52588082	78.81465348	72.7470495
ADV1010179	10/8/2024	3.997	10/8/2027	108.16414	106.246407	104.3723933	102.5408475	100.7505587	99.00035835	97.28911866	95.61575044	93.97920183
ADV1010211	10/9/2024	4.122	8/14/2026	103.02394	102.3026632	101.5915048	100.8902562	100.1987109	99.51666796	98.84393227	98.18031385	97.5256279
ADV1010218	10/9/2024	4	10/9/2029	116.94312	112.8132686	108.8547464	105.0595485	101.420083	97.92915017	94.57992005	91.36591178	88.28097375
ADV1010225	10/10/2024	4.003	10/10/2029	116.41839	112.4141696	108.5769181	104.8987242	101.3720983	97.98994453	94.74553778	91.63250232	88.64479175

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1010250	10/11/2024	3.987	10/13/2026	103.69703	102.8042319	101.926839	101.0644544	100.2166949	99.38318998	98.5635819	97.75752461	96.96468352
ADV1010259	10/11/2024	3.99	4/11/2029	114.78666	111.2150006	107.7753767	104.4622099	101.2701867	98.19424532	95.22956224	92.37153961	89.61579357
ADV1010330	10/15/2024	3.881	10/15/2027	108.16468	106.22509	104.3301719	102.478626	100.6692032	98.90069883	97.17195018	95.48183513	93.82927033
ADV1010339	10/16/2024	3.955	1/18/2028	109.31688	107.1024113	104.9443932	102.8409916	100.7904432	98.79105614	96.84120627	94.93933371	93.08393989
ADV1010353	10/16/2024	4.117	4/16/2026	101.59855	101.2159312	100.836207	100.4593441	100.08531	99.7140728	99.34560118	98.97986414	98.6168312
ADV1010403	10/18/2024	4.038	10/19/2026	103.75155	102.8425432	101.9494962	101.071993	100.2096298	99.3620167	98.52877694	97.70954663	96.90397406
ADV1010404	10/18/2024	4.141	4/20/2026	101.65498	101.261112	100.8703083	100.4825315	100.0977464	99.71591842	99.33701337	98.9609977	98.58783834
ADV1010445	10/21/2024	4.121	4/21/2026	101.6863	101.2892566	100.8953258	100.5044704	100.1166543	99.73184205	99.34999867	98.97108979	98.59508155
ADV1010449	10/21/2024	3.958	10/21/2027	108.38373	106.4254068	104.5125207	102.643746	100.8178028	99.03345654	97.28951654	95.5848338	93.91829938
ADV1010450	10/21/2024	4.021	10/21/2026	103.82363	102.9077768	102.0081167	101.1242203	100.2556754	99.40208395	98.56306164	97.73823723	96.92725202
ADV1010455	10/21/2024	4.042	10/21/2027	108.40607	106.4500745	104.539422	102.6727862	100.8488913	99.06650642	97.32444432	95.62155937	93.95674582
ADV1010487	10/23/2024	4.191	7/23/2026	102.80426	102.1451661	101.4945372	100.852213	100.218035	99.59184869	98.97350339	98.36285229	97.75975218
ADV1010488	10/23/2024	4.143	10/23/2026	103.89478	102.9738666	102.0693122	101.1806858	100.3075689	99.44955732	98.60626109	97.77730342	96.96232035
ADV1010522	10/25/2024	4.07	10/15/2027	108.38529	106.4460947	104.5515097	102.7002402	100.8910402	99.1227073	97.3940814	95.70404268	94.05151003
ADV1010530	10/25/2024	4.072	10/25/2027	108.51242	106.5443367	104.6221002	102.7443679	100.9098433	99.11727577	97.36545945	95.65323086	93.97946724
ADV1010541	10/25/2024	4.141	10/25/2029	109.00112	106.9109759	104.8848067	102.9201213	101.0145422	99.16580198	97.37173701	95.63028223	93.93946581
ADV1010543	10/25/2024	4.153	10/26/2026	103.94077	103.0112252	102.0983409	101.2016704	100.3207841	99.45526737	98.60472009	97.76875584	96.94700146
ADV1010586	10/29/2024	4.219	10/29/2026	104.03875	103.1003168	102.1788464	101.2738804	100.3849777	99.51171294	98.65367583	97.81047015	96.98171338
ADV1010587	10/29/2024	4.204	10/29/2027	108.81786	106.8356891	104.8999153	103.0091716	101.1621395	99.35754791	97.59417102	95.87082656	94.18637379
ADV1010594	10/29/2024	4.246	10/1/2029	116.24259	112.4842075	108.8784645	105.4182526	102.0968305	98.9078074	95.84512209	92.90302455	90.07605809
ADV1010598	10/29/2024	4.188	10/29/2031	115.46046	111.801169	108.3111849	104.9811039	101.802116	98.76596281	95.86489929	93.09165854	90.43941901
ADV1010603	10/30/2024	4.18	10/30/2029	117.89904	113.6908061	109.6593075	105.7961803	102.0934978	98.5437486	95.13981234	91.87493719	88.74271895
ADV1010604	10/30/2024	4.127	10/30/2026	104.03141	103.0892957	102.1642676	101.2558681	100.3636514	99.48718755	98.62606171	97.77987349	96.94823632
ADV1010613	10/30/2024	4.207	10/30/2028	113.4893	110.4089207	107.4296333	104.5475704	101.7590312	99.06047674	96.44852189	93.91992777	91.47159455
ADV1010632	10/31/2024	4.195	10/31/2029	117.71379	113.6126272	109.6847238	105.921756	102.315851	98.85955576	95.54581229	92.3679346	89.3195869
ADV1010643	10/31/2024	4.363	1/30/2026	100.74031	100.5704406	100.4011401	100.2324093	100.0642451	99.89664483	99.72960562	99.56312467	99.39719921
ADV1010655	10/31/2024	4.239	10/30/2026	104.06979	103.1284022	102.2040763	101.2963515	100.4047832	99.5289424	98.66841532	97.82280249	96.99171828
ADV1010656	11/1/2024	4.228	11/1/2029	118.11989	113.9015975	109.8606482	105.9886381	102.2776047	98.72000256	95.30868002	92.0368559	88.89809858
ADV1010704	11/4/2024	4.171	12/15/2026	104.68219	103.6070208	102.5539992	101.5224455	100.511707	99.52115738	98.55019511	97.59824244	96.66474414
ADV1010711	11/8/2024	4.255	6/15/2027	107.14072	105.5532626	103.997572	102.4727678	100.9780004	99.51245132	98.07533116	96.66587871	95.28335956
ADV1010761	11/7/2024	4.317	11/9/2026	104.27762	103.307072	102.3546409	101.4198222	100.5021298	99.6010955	98.71626801	97.8472122	96.99350844
ADV1010774	11/7/2024	4.321	11/9/2026	104.28145	103.3108799	102.3584293	101.4235913	100.5058798	99.60482676	98.71998073	97.8509066	96.99718475
ADV1010775	11/7/2024	4.274	11/8/2027	109.08832	107.0750568	105.1095482	103.1903673	101.316139	99.48553831	97.69728836	95.95015813	94.24296052

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1010794	11/8/2024	4.27	11/8/2027	109.08043	107.0672463	105.1018159	103.1827116	101.3085584	99.47803145	97.68985386	95.94279464	94.23566673
ADV1010801	11/8/2024	4.385	4/9/2026	101.61416	101.2509922	100.890426	100.5324379	100.1770003	99.82408584	99.47366761	99.12571908	98.78021411
ADV1010815	11/13/2024	4.286	10/1/2029	117.9709	113.8437962	109.8868063	106.0920294	102.4519683	98.95951089	95.60790857	92.39075553	89.30196965
ADV1010859	11/12/2024	4.402	11/12/2027	109.39416	107.3663487	105.3868852	103.4543183	101.5672487	99.72432798	97.92425716	96.16578411	94.44770162
ADV1010939	11/15/2024	4.383	11/15/2027	109.39634	107.359908	105.3722328	103.4318393	101.5373107	99.68728245	97.88043977	96.11551574	94.39128906
ADV1010947	11/15/2024	4.391	10/20/2026	104.0822	103.1687912	102.2714584	101.3897823	100.5233549	99.67178239	98.83468454	98.0116939	97.20245539
ADV1011013	11/19/2024	4.412	5/19/2026	102.12866	101.6528503	101.1814868	100.7145092	100.2518563	99.79346793	99.33928518	98.8892502	98.44330616
ADV1011018	11/19/2024	4.357	11/19/2026	104.4473	103.4477291	102.467348	101.5056073	100.5619782	99.63595173	98.7270379	97.83476472	96.95867745
ADV1011019	11/19/2024	4.313	11/19/2027	109.30928	107.2622963	105.2645829	103.3146489	101.4110549	99.55241461	97.7373929	95.96470337	94.23310619
ADV1011040	11/20/2024	4.303	11/20/2026	104.47676	103.4732331	102.4890352	101.5236154	100.5764392	99.64699222	98.73477921	97.83932332	96.96016513
ADV1011077	11/21/2024	4.823	12/15/2042	150.53506	136.3046212	123.8675255	112.9695746	103.3952039	94.9613151	87.51213054	80.91489562	75.05628619
ADV1011108	11/25/2024	4.464	10/26/2026	104.22604	103.2950803	102.3807935	101.4827381	100.600484	99.73361632	98.88173454	98.04445193	97.22139499
ADV1011109	11/25/2024	4.439	1/25/2027	105.4708	104.2758988	103.1081762	101.9667073	100.8506124	99.75905101	98.69121936	97.64634844	96.6237022
ADV1011110	11/25/2024	4.414	5/25/2027	107.09763	105.5696576	104.0715167	102.6024051	101.1615514	99.74821081	98.36166444	97.00121791	95.66620035
ADV1011163	11/25/2024	4.303	11/24/2027	109.35426	107.2925152	105.2807359	103.3173909	101.4010113	99.53018279	97.70354364	95.91978215	94.17763448
ADV1011238	11/27/2024	4.257	11/29/2027	109.32652	107.2507643	105.2256427	103.2495986	101.3211337	99.4388059	97.60122703	95.8070603	94.05501798
ADV1011274	11/29/2024	4.275	11/30/2026	104.509	103.4781816	102.4677451	101.4770868	100.5056297	99.55281891	98.61812094	97.70102235	96.80102898
ADV1011275	11/29/2024	4.209	11/29/2027	109.22906	107.1543137	105.1301838	103.155112	101.2276004	99.34620774	97.50954621	95.71627951	93.96512041
ADV1011292	12/2/2024	4.237	12/4/2028	114.02226	110.8328565	107.7512887	104.7732968	101.8948149	99.11196122	96.42102819	93.81847382	91.30091313
ADV1011313	12/2/2024	4.377	12/2/2025	100.02894	100.0233702	100.0178066	100.0122481	100.0066945	100.001146	99.9956025	99.990064	99.9845305
ADV1011392	12/18/2024	4.187	12/20/2027	109.45298	107.3174857	105.2350326	103.2039457	101.2226192	99.28950959	97.40313255	95.56206038	93.76491935
ADV1011393	12/18/2024	4.187	12/20/2027	109.45298	107.3174857	105.2350326	103.2039457	101.2226192	99.28950959	97.40313255	95.56206038	93.76491935
ADV1011411	12/6/2024	4.254	12/8/2025	100.09793	100.0756591	100.0534125	100.0311898	100.0089909	99.98681568	99.9646642	99.94253639	99.92043221
ADV1011423	12/9/2024	4.266	12/9/2025	100.10987	100.0848192	100.0597926	100.0347935	100.0098219	99.98487764	99.95996078	99.93507123	99.91020894
ADV1011439	12/9/2024	4.261	12/9/2025	100.10974	100.0846903	100.0596638	100.0346648	100.0096933	99.98474916	99.95983241	99.93494296	99.91008077
ADV1011440	12/9/2024	4.258	12/9/2025	100.10967	100.084613	100.0595865	100.0345876	100.0096161	99.98467208	99.95975538	99.934866	99.91000387
ADV1011478	12/11/2024	4.231	12/11/2025	100.13211	100.1014927	100.0709081	100.0403588	100.0098447	99.97936583	99.94892206	99.91851334	99.8881396
ADV1011498	12/12/2024	4.326	12/12/2025	100.14465	100.1112672	100.0779246	100.0446213	100.011357	99.97813177	99.94494551	99.91179813	99.87868956
ADV1011504	12/12/2024	4.244	12/12/2025	100.14413	100.1107226	100.0773586	100.044034	100.0107488	99.97750292	99.94429624	99.91112871	99.87800024
ADV1011513	12/12/2024	4.263	12/14/2026	104.68967	103.61833	102.5689865	101.5409641	100.5336166	99.54632398	98.57849052	97.62954409	96.69893478
ADV1011514	12/12/2024	4.239	12/13/2027	109.47271	107.3564584	105.2924591	103.2790763	101.3147397	99.39793943	97.52722294	95.70119258	93.91850304
ADV1011537	12/13/2024	4.483	12/6/2030	123.84526	118.3381134	113.1163273	108.1635312	103.4643807	99.00448808	94.77035722	90.74932384	86.92949983
ADV1011538	12/13/2024	4.486	12/13/2030	123.941	118.4112235	113.1688289	108.19728	103.4810812	99.00570648	94.75753256	90.72377851	86.89244909

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ADV1011539	12/13/2024	4.486	12/13/2030	123.941	118.4112235	113.1688289	108.19728	103.4810812	99.00570648	94.75753256	90.72377851	86.89244909
ADV1011540	12/13/2024	4.487	12/20/2030	124.02654	118.4744158	113.2116854	108.2216505	103.4886647	98.99806284	94.73609473	90.68986262	86.84726406
ADV1011555	12/13/2024	4.369	1/13/2026	100.53325	100.4107771	100.2886215	100.1667788	100.0452479	99.92402745	99.80311624	99.68251303	99.56221662
ADV1011557	12/13/2024	4.372	2/13/2026	100.91932	100.7102981	100.5021535	100.2948806	100.088474	99.88292815	99.67823764	99.47439708	99.27140111
ADV1011571	12/16/2024	4.316	12/16/2026	104.77234	103.6948741	102.6396393	101.6059534	100.59316	99.60062923	98.62775647	97.67396081	96.7386841
ADV1011572	12/16/2024	4.36	12/16/2025	100.19275	100.1482408	100.1037906	100.0593975	100.0150615	99.9707824	99.92656009	99.88239448	99.83828544
ADV1011583	12/16/2024	4.309	12/16/2025	100.19348	100.1489388	100.1044585	100.0600357	100.0156703	99.97136217	99.92711121	99.8829173	99.8387803
ADV1011591	12/16/2024	4.307	12/16/2025	100.19339	100.1488489	100.1043687	100.059946	100.0155806	99.97127258	99.9270217	99.88282786	99.83869094
ADV1011712	12/19/2024	4.406	12/11/2025	100.19067	100.1588461	100.1270599	100.0953102	100.0635968	100.0319198	100.000279	99.9686745	99.93710609
ADV1011714	12/19/2024	4.391	12/10/2026	104.76768	103.7072169	102.6682906	101.6502509	100.6524716	99.67435121	98.71531186	97.7747982	96.85227624
ADV1011739	12/20/2024	4.365	12/21/2026	104.89258	103.8003033	102.7308553	101.68352	100.6576155	99.65248797	98.6675097	97.70207822	96.75561483
ADV1011749	12/20/2024	4.385	12/22/2025	100.2647	100.2035046	100.1424003	100.0813847	100.0204576	99.95961879	99.89886812	99.83820537	99.77763036
ADV1011862	12/27/2024	4.32	6/29/2026	102.63205	102.0399627	101.4547133	100.8761824	100.3042546	99.73881747	99.17976079	98.62697698	98.08036084
ADV1011868	12/27/2024	4.326	6/29/2026	102.63557	102.0434695	101.4582084	100.879666	100.3077268	99.74227824	99.18321028	98.63041529	98.08378804
ADV1011882	12/30/2024	4.383	12/31/2029	119.81052	115.3750996	111.1327597	107.0740096	103.1898801	99.4718915	95.91202349	92.50268779	89.2367023
ADV1011884	12/30/2024	4.361	5/13/2026	102.02729	101.5685296	101.1139146	100.6633837	100.2168821	99.77435548	99.3357509	98.90101617	98.47010005
ADV1011885	12/30/2024	4.356	5/13/2026	102.02501	101.5662576	101.1116486	100.6611237	100.214628	99.77210736	99.33350866	98.89877978	98.46786946
ADV1011886	12/30/2024	4.362	4/15/2026	101.67708	101.2971341	100.9200425	100.5457715	100.1742894	99.80556486	99.43956718	99.07626605	98.71563162
ADV1011887	12/30/2024	4.362	4/15/2026	101.67708	101.2971341	100.9200425	100.5457715	100.1742894	99.80556486	99.43956718	99.07626605	98.71563162
ADV1011888	12/30/2024	4.348	7/15/2026	102.80608	102.1693412	101.5405132	100.9194471	100.3059996	99.7000306	99.1014038	98.50998599	97.92564722
ADV1011889	12/30/2024	4.348	7/15/2026	102.80608	102.1693412	101.5405132	100.9194471	100.3059996	99.7000306	99.1014038	98.50998599	97.92564722
ADV1011890	12/30/2024	4.345	8/12/2026	103.15465	102.4384741	101.7322692	101.035827	100.3489458	99.67142904	99.00308597	98.34373076	97.69318264
ADV1011891	12/30/2024	4.345	8/12/2026	103.15465	102.4384741	101.7322692	101.035827	100.3489458	99.67142904	99.00308597	98.34373076	97.69318264
ADV1011892	12/30/2024	4.341	10/14/2026	103.95678	103.060844	102.1803943	101.3150326	100.4643727	99.6280418	98.80567925	97.99693663	97.201477
ADV1011893	12/30/2024	4.341	10/14/2026	103.95678	103.060844	102.1803943	101.3150326	100.4643727	99.6280418	98.80567925	97.99693663	97.201477
ADV1011906	12/30/2024	4.43	12/29/2028	114.93348	111.6592458	108.4974112	105.4434581	102.4930787	99.64216446	96.88679503	94.22322878	91.6478933
ADV1011916	12/30/2024	4.291	12/30/2027	109.95259	107.7809741	105.6637783	103.5992629	101.585762	99.62167543	97.70546528	95.8356531	94.0108171
ADV1011920	12/30/2024	4.273	6/30/2026	102.61674	102.0219216	101.4339985	100.8528542	100.2783719	99.71043743	99.14893938	98.59376872	98.04481892
ADV1011926	12/30/2024	4.262	12/30/2026	104.98091	103.8615456	102.7661126	101.693848	100.6440217	99.61593412	98.60891429	97.62231877	96.65553005
ADV1011927	12/30/2024	4.291	12/30/2027	109.95259	107.7809741	105.6637783	103.5992629	101.585762	99.62167543	97.70546528	95.8356531	94.0108171
ADV1011953	12/31/2024	4.577	9/13/2030	123.31595	118.0676449	113.0799618	108.3384962	103.8297215	99.54092853	95.46017167	91.57621877	87.87850447
ADV1011954	12/31/2024	4.577	9/13/2030	123.31595	118.0676449	113.0799618	108.3384962	103.8297215	99.54092853	95.46017167	91.57621877	87.87850447
ADV1011955	12/31/2024	4.579	9/20/2030	123.41205	118.1406386	113.1319073	108.3713207	103.8452261	99.5407945	95.44596663	91.54940235	87.8404341

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1011956	12/31/2024	4.579	9/20/2030	123.41205	118.1406386	113.1319073	108.3713207	103.8452261	99.5407945	95.44596663	91.54940235	87.8404341
ADV1011964	12/31/2024	4.347	7/14/2027	107.67295	105.9997471	104.3610552	102.7558724	101.1832356	99.64221874	98.13193065	96.65151363	95.20014176
ADV1011966	12/31/2024	4.347	7/14/2027	107.67295	105.9997471	104.3610552	102.7558724	101.1832356	99.64221874	98.13193065	96.65151363	95.20014176
ADV1011968	12/31/2024	4.35	8/10/2027	108.03694	106.2860166	104.5722977	102.8946625	101.252035	99.64338229	98.06771229	96.52407169	95.0115441
ADV1011969	12/31/2024	4.35	8/10/2027	108.03694	106.2860166	104.5722977	102.8946625	101.252035	99.64338229	98.06771229	96.52407169	95.0115441
ADV1011970	12/31/2024	4.35	8/10/2027	108.03694	106.2860166	104.5722977	102.8946625	101.252035	99.64338229	98.06771229	96.52407169	95.0115441
ADV1011974	12/31/2024	4.248	12/31/2026	104.97927	103.8570807	102.7589392	101.6840789	100.6317643	99.60129092	98.59198317	97.60319315	96.63429917
ADV1011979	12/31/2024	4.341	12/31/2025	100.36731	100.2810914	100.1950165	100.1090879	100.0233054	99.9376685	99.85217691	99.76683025	99.68162818
ADV1009328	1/16/2025	3.548	2/5/2027	104.55852	103.3382434	102.146476	100.9822229	99.84453857	98.73252048	97.64530652	96.58207281	95.54203166
ADV1009592	1/17/2025	3.644	1/20/2026	100.51656	100.3746923	100.2332402	100.0922011	99.95157319	99.81135457	99.67154345	99.53213802	99.39313647
ADV1009593	1/17/2025	3.43	1/19/2027	104.22157	103.0513844	101.9074891	100.7890092	99.69510377	98.62496861	97.57783436	96.55296454	95.54965384
ADV1011076	1/30/2025	4.562	1/30/2032	129.21483	122.3138751	115.8393912	109.7625557	104.0566473	98.69688443	93.66027368	88.92547154	84.47265712
ADV1011669	1/2/2025	4.337	1/2/2030	119.33005	114.907734	110.6780221	106.6314463	102.7590561	99.05238927	95.50344267	92.10464421	88.84882735
ADV1011670	1/2/2025	4.337	1/2/2030	119.33005	114.907734	110.6780221	106.6314463	102.7590561	99.05238927	95.50344267	92.10464421	88.84882735
ADV1011671	1/2/2025	4.337	1/2/2030	119.33005	114.907734	110.6780221	106.6314463	102.7590561	99.05238927	95.50344267	92.10464421	88.84882735
ADV1012359	1/15/2025	4.358	12/15/2025	100.23123	100.1879687	100.1447668	100.1016192	100.0585259	100.0154867	99.97250157	99.92957034	99.88669292
ADV1012847	1/31/2025	4.294	1/29/2027	105.35619	104.1506712	102.9728246	101.8217034	100.6964044	99.59606469	98.51985956	97.46700021	96.43673192
ADV1012503	1/21/2025	4.35	12/22/2025	100.31286	100.2494259	100.1860796	100.1228253	100.0596627	99.99659166	99.93361199	99.87072347	99.8079259
ADV1012768	1/29/2025	4.263	1/31/2028	110.31156	108.0467495	105.840371	103.690496	101.595274	99.55293037	97.56176312	95.6201387	93.72648889
ADV1012843	1/31/2025	4.315	1/30/2026	100.782	100.6056904	100.4299786	100.2548585	100.0803271	99.90638143	99.73301866	99.56023584	99.38803008
ADV1012642	1/24/2025	4.241	1/26/2026	100.68328	100.5244551	100.3661404	100.2083326	100.0510293	99.89422787	99.73792602	99.58212133	99.42681139
ADV1012361	1/15/2025	4.327	1/15/2026	100.55263	100.4245811	100.2968734	100.1695066	100.0424794	99.91579021	99.78943774	99.66342057	99.53773734
ADV1012605	1/23/2025	4.327	1/23/2026	100.64948	100.4991228	100.3492304	100.1997966	100.0508193	99.90229634	99.75422568	99.60660521	99.45943284
ADV1012395	1/16/2025	4.377	1/19/2027	105.31481	104.1378991	102.9873916	101.8624018	100.7620863	99.68563827	98.6322859	97.60129035	96.591944
ADV1012153	1/10/2025	4.442	1/10/2028	110.26826	108.0655575	105.9185448	103.8254222	101.784466	99.79402147	97.85249915	95.95837203	94.1101724
ADV1012650	1/24/2025	4.503	1/24/2030	120.29999	115.7944063	111.4871888	107.3684682	103.4289254	99.65975638	96.05264101	92.59971323	89.29353356
ADV1012226	1/10/2025	4.459	1/11/2027	105.29522	104.1411274	103.0124279	101.9082913	100.8279207	99.77055347	98.73545918	97.72193818	96.72931984
ADV1012826	2/3/2025	4.332	2/3/2028	110.34824	108.07728	105.8650282	103.709537	101.6089428	99.56145888	97.56537168	95.61903686	93.72087598
ADV1012846	1/31/2025	4.301	7/31/2026	102.9735	102.2914813	101.618501	100.9543819	100.2989498	99.65203489	99.01347204	98.38310015	97.76076231
ADV1012505	1/21/2025	4.31	1/21/2026	100.62264	100.4778713	100.333534	100.1896249	100.0461421	99.90308365	99.7604477	99.61823232	99.4764356
ADV1012401	1/16/2025	4.532	1/16/2030	120.32177	115.8387158	111.5521745	107.4524119	103.5302344	99.77695387	96.18435756	92.74467866	89.45056964
ADV1012221	1/10/2025	4.524	10/25/2027	109.38874	107.4120211	105.4813113	103.5952643	101.7525788	99.95200034	98.19231879	96.47236681	94.79101788
ADV1012152	1/10/2025	4.442	1/10/2028	110.26826	108.0655575	105.9185448	103.8254222	101.784466	99.79402147	97.85249915	95.95837203	94.1101724

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012373	1/15/2025	4.361	12/11/2025	100.1838	100.1520913	100.1204183	100.0887816	100.0571812	100.025617	99.99408893	99.96259694	99.93114096
ADV1012398	1/16/2025	4.544	1/16/2030	120.37237	115.8882644	111.6007042	107.4999555	103.576823	99.82261774	96.22912549	92.7885784	89.49362784
ADV1012298	1/14/2025	4.361	1/14/2026	100.54463	100.4193681	100.2944348	100.1698283	100.0455474	99.92159067	99.79795684	99.67464461	99.55165268
ADV1012610	1/23/2025	4.326	1/23/2026	100.64933	100.4989727	100.3490805	100.1996469	100.0506697	99.90214698	99.7540765	99.60645621	99.45928402
ADV1012394	1/16/2025	4.327	1/16/2026	100.56474	100.4338986	100.303417	100.1732906	100.0435178	99.91409706	99.78502697	99.65630604	99.52793282
ADV1012722	1/28/2025	4.291	1/28/2026	100.70394	100.5396637	100.3759298	100.2127329	100.0500704	99.88793977	99.72633829	99.56526343	99.4047126
ADV1012427	1/16/2025	4.327	7/16/2026	102.80754	102.1679376	101.5363193	100.9125314	100.2964286	99.68786914	99.08671485	98.49283081	97.90608542
ADV1012550	1/22/2025	4.357	1/22/2027	105.3331	104.1475624	102.9888014	101.8559202	100.7480574	99.66438956	98.60412903	97.56652205	96.55084695
ADV1012611	1/23/2025	4.289	7/23/2026	102.91429	102.2542019	101.602601	100.9593237	100.3242109	99.69710758	99.07786263	98.46632874	97.86236228
ADV1012706	1/28/2025	4.292	1/28/2027	105.34005	104.1374692	102.9624291	101.8139921	100.6912609	99.59337844	98.51952528	97.4689177	96.44080576
ADV1012228	1/10/2025	4.541	1/10/2028	110.48098	108.2759502	106.1266572	104.0313001	101.9881539	99.99556267	98.05193567	96.15574472	94.30552098
ADV1012087	1/3/2025	4.464	1/3/2030	119.87311	115.4367199	111.1935277	107.1340303	103.249248	99.53069119	95.97033078	92.56057056	89.29422121
ADV1012397	1/16/2025	4.504	1/16/2029	115.40408	112.0714731	108.8546223	105.7488169	102.7495651	99.85258584	97.05379748	94.3493072	91.73540089
ADV1012775	1/30/2025	4.239	1/31/2028	110.2584	107.9941813	105.788387	103.6390833	101.5444201	99.5026233	97.51199115	95.57089052	93.67775353
ADV1012531	1/21/2025	4.36	12/9/2025	100.15898	100.1330559	100.1071637	100.0812998	100.0554641	100.0296566	100.0038773	99.97812595	99.95240267
ADV1012566	1/22/2025	4.364	7/23/2026	102.91744	102.2579281	101.60689	100.9641603	100.3295803	99.70299556	99.08425536	98.4732128	97.86972464
ADV1012059	1/2/2025	4.345	12/29/2025	100.39859	100.3147251	100.2310007	100.147414	100.0639647	99.98065248	99.89747703	99.814438	99.73153507
ADV1012302	1/14/2025	4.461	11/16/2026	104.50951	103.5180554	102.5454736	101.59123	100.6548085	99.73571235	98.83346311	97.94759981	97.07767817
ADV1012581	1/22/2025	4.234	1/22/2026	100.63368	100.4860178	100.3387982	100.1920235	100.0456915	99.89980036	99.75434792	99.60933222	99.46475123
ADV1012396	1/16/2025	4.443	1/18/2028	110.37626	108.1500795	105.9805944	103.8659576	101.8043993	99.79422114	97.83379262	95.92154796	94.05598281
ADV1012774	1/30/2025	4.391	1/30/2030	119.89873	115.3843564	111.0694819	106.9441426	102.9989352	99.2249781	95.61387964	92.15770784	88.84896247
ADV1012825	2/3/2025	4.332	2/3/2028	110.34824	108.07728	105.8650282	103.709537	101.6089428	99.56145888	97.56537168	95.61903686	93.72087598
ADV1012117	1/6/2025	4.52	1/7/2030	120.1575	115.703735	111.4442794	107.3695576	103.4705208	99.73861509	96.16575168	92.74427888	89.46695583
ADV1012374	1/15/2025	4.371	12/10/2026	104.7475	103.6871377	102.6483134	101.6303746	100.632695	99.65467313	98.69573124	97.75531394	96.83288726
ADV1012575	1/22/2025	4.316	1/22/2026	100.63575	100.488184	100.3410659	100.1943912	100.0481577	99.90236361	99.75700681	99.61208532	99.46759717
ADV1012672	1/27/2025	4.303	7/27/2026	102.92573	102.2550547	101.5931359	100.9397998	100.29488	99.65821457	99.0296455	98.40901893	97.79618485
ADV1012288	1/14/2025	4.352	1/14/2026	100.5435	100.4182393	100.2933072	100.168702	100.0444223	99.92046678	99.79683419	99.67352319	99.55053248
ADV1009275	2/10/2025	3.681	6/12/2026	102.03898	101.4966439	100.9600869	100.4292129	99.90393177	99.38415536	98.86979722	98.36077276	97.85699914
ADV1011667	2/3/2025	4.647	2/1/2035	140.76528	130.1964018	120.5467568	111.7304	103.6698864	96.29538576	89.54389657	83.35854364	77.687952
ADV1011668	2/3/2025	4.647	2/1/2035	140.76528	130.1964018	120.5467568	111.7304	103.6698864	96.29538576	89.54389657	83.35854364	77.687952
ADV1012737	2/28/2025	4.332	3/1/2028	110.71358	108.3583237	106.065561	103.8331632	101.6590949	99.54140735	97.47823393	95.46778572	93.50834763
ADV1012740	2/28/2025	4.418	3/1/2030	120.4167	115.7971084	111.3851879	107.1703931	103.1427759	99.29295121	95.61206067	92.09174013	88.72408872
ADV1012739	2/28/2025	4.418	3/1/2030	120.4167	115.7971084	111.3851879	107.1703931	103.1427759	99.29295121	95.61206067	92.09174013	88.72408872

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013278	2/20/2025	4.355	2/25/2028	110.69943	108.3590114	106.0803945	103.8614805	101.7002621	99.59481739	97.54330533	95.54396134	93.59509354
ADV1013496	2/26/2025	4.15	2/28/2028	110.27166	107.9272825	105.6450149	103.4227454	101.2584502	99.15019158	97.09611381	95.09443852	93.14346089
ADV1013330	2/21/2025	4.335	2/23/2026	101.03448	100.7975025	100.5616427	100.3268919	100.0932421	99.86068554	99.62921466	99.3988218	99.16949942
ADV1012934	2/5/2025	4.277	3/5/2027	105.8177	104.5125706	103.2379554	101.9927809	100.7760271	99.58672131	98.42393484	97.28678071	96.17441137
ADV1013487	2/26/2025	4.205	2/28/2028	110.39735	108.0515127	105.7678177	103.5441504	101.3784863	99.26888683	97.21349537	95.21053281	93.25829356
ADV1012999	2/7/2025	4.289	2/9/2026	100.86766	100.6696817	100.4724907	100.2760831	100.0804541	99.885599	99.69151324	99.49819216	99.3056312
ADV1013086	2/12/2025	4.355	2/12/2026	100.91809	100.7116825	100.5061366	100.3014421	100.0975936	99.89458583	99.69241346	99.49107131	99.2905542
ADV1012996	2/10/2025	4.395	2/10/2028	110.58399	108.2895261	106.0547701	103.877731	101.7564993	99.68924499	97.67421369	95.70972249	93.7941566
ADV1013100	2/12/2025	4.52	9/27/2028	113.98768	110.9931182	108.0940469	105.2868978	102.5682571	99.93485722	97.38356967	94.91139823	92.51547268
ADV1012993	2/10/2025	4.426	2/12/2029	115.51691	112.1025601	108.8091093	105.6315309	102.565042	99.60508945	96.74733758	93.9876558	91.32210752
ADV1012953	2/5/2025	4.289	2/7/2028	110.30703	108.0246496	105.8015092	103.635634	101.5251355	99.46820344	97.46310211	95.50816629	93.60179785
ADV1013087	2/12/2025	4.355	2/12/2026	100.91809	100.7116825	100.5061366	100.3014421	100.0975936	99.89458583	99.69241346	99.49107131	99.2905542
ADV1013131	2/13/2025	4.396	1/13/2026	100.58245	100.455594	100.3290589	100.2028483	100.0769607	99.95139494	99.8261497	99.70122371	99.57661571
ADV1012991	2/10/2025	4.39	2/10/2027	105.64122	104.3998244	103.1877112	102.0038545	100.8472731	99.71703059	98.61223328	97.53202736	96.47559693
ADV1013002	2/7/2025	4.296	4/7/2027	106.38447	104.9941997	103.6289009	102.2879589	100.9707764	99.67677508	98.40539514	97.1560943	95.92834726
ADV1012997	2/11/2025	4.395	2/11/2028	110.59773	108.3001265	106.0623763	103.8824756	101.7585087	99.68863942	97.67110753	95.70422476	93.78637118
ADV1012992	2/10/2025	4.408	2/10/2028	110.61305	108.3182569	106.0831777	103.905822	101.7842801	99.71672197	97.70139287	95.73660978	93.82075773
ADV1013280	2/20/2025	4.352	8/2/2027	107.93552	106.2075636	104.5160056	102.8597578	101.237778	99.64906546	98.09265827	96.5676318	95.07309672
ADV1012874	2/3/2025	4.354	2/3/2026	100.79298	100.6119193	100.4315131	100.2517565	100.0726462	99.89417863	99.71635034	99.5391579	99.36259787
ADV1013135	2/14/2025	4.46	2/14/2029	115.65527	112.2323948	108.9308803	105.7456766	102.6719753	99.70520004	96.84099285	94.07520248	91.40387298
ADV1012919	2/4/2025	4.333	12/4/2025	100.09658	100.0850845	100.0736023	100.0621311	100.0506709	100.0392215	100.0277831	100.0163555	100.0049388
ADV1013121	2/13/2025	4.42	2/16/2027	102.89441	102.2525314	101.6212568	101.0002949	100.3893643	99.78819409	99.1965238	98.61410269	98.04068934
ADV1013403	2/24/2025	4.301	1/21/2026	100.66566	100.5159342	100.3666525	100.217814	100.0694168	99.92145882	99.77393813	99.62685275	99.48020071
ADV1012994	2/11/2025	4.38	2/11/2027	105.64285	104.3986018	103.1837711	101.9973238	100.8382722	99.70567355	98.59862839	97.51627741	96.45779957
ADV1013296	2/20/2025	4.278	2/22/2027	105.75648	104.4788618	103.2322129	102.0154173	100.8274105	99.66717814	98.53375312	97.42621271	96.34367617
ADV1013453	2/25/2025	4.142	2/25/2026	101.02897	100.7862759	100.5447505	100.3043859	100.0651738	99.82710589	99.59017394	99.35436982	99.1196855
ADV1013489	2/26/2025	4.135	2/26/2027	105.63117	104.343014	103.0863634	101.8600673	100.6630345	99.49422531	98.35264905	97.2373608	96.14745896
ADV1012951	2/5/2025	4.288	2/5/2027	105.44954	104.2235748	103.0262081	101.8564466	100.7133425	99.59599069	98.50352687	97.43512497	96.38999515
ADV1013005	2/7/2025	4.416	12/17/2029	119.45761	115.0785179	110.8885232	106.8784036	103.0394423	99.36339372	95.8424551	92.46924028	89.23675504
ADV1012942	2/5/2025	4.223	2/5/2026	100.80586	100.6190817	100.4330073	100.2476278	100.0629394	99.87893808	99.69562004	99.51298142	99.33101841
ADV1013096	2/12/2025	4.498	2/12/2030	120.86326	116.2784234	111.8977727	107.7110256	103.7084833	99.88099042	96.21990098	92.71704698	89.36470887
ADV1012871	2/3/2025	4.341	2/3/2026	100.79062	100.609562	100.4291588	100.2494054	100.0702982	99.8918338	99.71400863	99.53681928	99.36026236
ADV1013557	2/28/2025	4.218	2/27/2026	101.09844	100.8415604	100.5859433	100.3315785	100.0784569	99.82656945	99.57590713	99.32646105	99.0782224

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012952	2/5/2025	4.29	10/5/2026	103.80028	102.9302637	102.0748674	101.2337207	100.4064692	99.59277032	98.79229251	98.00471502	97.2297274
ADV1013000	2/7/2025	4.3	8/7/2026	103.11283	102.4100965	101.7169581	101.0332232	100.358701	99.693206	99.03655744	98.38857951	97.749101
ADV1013457	2/25/2025	4.246	2/25/2026	101.0371	100.7945788	100.5532191	100.3130174	100.0739653	99.83605457	99.59927711	99.3636248	99.12908963
ADV1013395	2/24/2025	4.304	4/1/2026	101.48339	101.1427818	100.8044544	100.4683884	100.1345613	99.80295069	99.47353467	99.14629147	98.82119967
ADV1013093	2/12/2025	4.364	2/12/2026	100.91994	100.7135361	100.5079875	100.3032902	100.099439	99.89642846	99.69425338	99.49290852	99.2923887
ADV1013254	2/19/2025	4.374	2/19/2026	100.99415	100.7683389	100.5435484	100.3197701	100.0969973	99.8752232	99.65444095	99.43464391	99.21582544
ADV1012998	2/11/2025	4.426	2/12/2029	115.51675	112.1023889	108.8089317	105.6313473	102.5648528	99.60489516	96.74713853	93.98745233	91.32189995
ADV1012995	2/11/2025	4.395	2/11/2028	110.59773	108.3001265	106.0623763	103.8824756	101.7585087	99.68863942	97.67110753	95.70422476	93.78637118
ADV1013452	2/25/2025	4.222	2/25/2026	101.0313	100.7887845	100.5474343	100.3072421	100.0681994	99.83029806	99.59352994	99.35788694	99.12336105
ADV1012944	2/5/2025	4.223	2/5/2026	100.80586	100.6190817	100.4330073	100.2476278	100.0629394	99.87893808	99.69562004	99.51298142	99.33101841
ADV1013327	2/21/2025	4.249	2/22/2028	110.58358	108.2501094	105.9781463	103.7656064	101.6104964	99.51090747	97.46501077	95.47105332	93.52735414
ADV1013136	2/14/2025	4.486	2/14/2030	120.51008	115.9356803	111.5650879	107.3880371	103.3948433	99.57636474	95.92396869	92.42949978	89.08525062
ADV1012976	2/6/2025	4.28	2/6/2030	119.8464	115.3021574	110.9598182	106.8092457	102.8408762	99.04567975	95.41512737	91.94115976	88.61615867
ADV1013277	2/20/2025	4.352	3/25/2027	106.1833	104.8296533	103.5016899	102.1987077	100.9200283	99.66499831	98.4329876	97.22338858	96.03561509
ADV1012935	2/5/2025	4.306	1/5/2026	100.474	100.3702726	100.2667597	100.1634616	100.0603777	99.9575073	99.85484964	99.75240409	99.65016994
ADV1012945	2/5/2025	4.302	2/5/2026	100.80783	100.6211946	100.4352515	100.2500014	100.0654403	99.88156434	99.69836972	99.5158526	99.33400923
ADV1012950	2/5/2025	4.283	4/5/2027	106.24177	104.8597605	103.5024617	102.1692686	100.8595928	99.57286439	98.30853149	97.06605958	95.8449307
ADV1012943	2/5/2025	4.223	2/5/2026	100.80586	100.6190817	100.4330073	100.2476278	100.0629394	99.87893808	99.69562004	99.51298142	99.33101841
ADV1013279	2/20/2025	4.357	2/20/2026	101.00228	100.7736972	100.5461548	100.3196486	100.0941714	99.86971625	99.64627608	99.42384403	99.20241323
ADV1013494	2/26/2025	4.199	2/26/2030	119.42944	114.8400971	110.4569626	106.2695703	102.2680487	98.44308458	94.78588741	91.28815667	87.94205144
ADV1013089	2/12/2025	4.416	1/14/2026	100.59781	100.4680189	100.3385639	100.2094478	100.0806692	99.95222681	99.82411919	99.69634501	99.56890292
ADV1012882	2/3/2025	4.268	2/3/2026	100.78974	100.6085531	100.4280213	100.2481412	100.0689092	99.89032187	99.71237568	99.53506715	99.35839285
ADV1012873	2/3/2025	4.351	2/3/2026	100.79243	100.6113753	100.4309698	100.251214	100.0721044	99.89363752	99.71580995	99.53861822	99.36205891
ADV1013134	2/14/2025	4.46	2/14/2029	115.65527	112.2323948	108.9308803	105.7456766	102.6719753	99.70520004	96.84099285	94.07520248	91.40387298
ADV1013055	2/11/2025	4.462	9/25/2029	118.5825	114.4611501	110.5089051	106.7179189	103.0807492	99.59033716	96.23998534	93.02333748	89.93435915
ADV1013328	2/21/2025	4.304	2/21/2030	120.14853	115.5502638	111.1580567	106.9614769	102.9506825	99.11638655	95.44982194	91.94270919	88.58722606
ADV1009311	3/3/2025	3.668	4/3/2026	101.2918	100.9460244	100.6026068	100.2615268	99.92276055	99.58628445	99.25207537	98.92011042	98.59036704
ADV1009444	3/3/2025	3.417	3/12/2027	104.79413	103.4799689	102.19449	100.9367548	99.70586463	98.50095987	97.32121764	96.16584992	95.03410168
ADV1013398	4/1/2025	4.341	4/1/2030	120.46241	115.7528768	111.258714	106.9689331	102.8731644	98.96161721	95.22504422	91.65470874	88.24235398
ADV1013399	4/1/2025	4.267	3/31/2028	110.95251	108.5108132	106.1357866	103.8252454	101.5770874	99.38929141	97.259913	95.18708156	93.16899689
ADV1013400	4/1/2025	4.267	3/31/2028	110.95251	108.5108132	106.1357866	103.8252454	101.5770874	99.38929141	97.259913	95.18708156	93.16899689
ADV1013401	4/1/2025	4.253	3/31/2028	110.91925	108.4779519	106.1033167	103.7931585	101.5453755	99.35794657	97.22892767	95.15644834	93.13870861
ADV1013465	3/17/2025	4.172	3/17/2028	110.54921	108.1512834	105.8179883	103.5471716	101.3367658	99.18478671	97.08932947	95.04856465	93.06073476

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013466	3/17/2025	4.214	3/19/2029	115.26948	111.7555186	108.3692179	105.1052259	101.9584423	98.92401001	95.99730136	93.17390632	90.44962072
ADV1013468	3/17/2025	4.216	3/18/2030	119.74174	115.0879566	110.645537	106.4037223	102.352358	98.4818595	94.78317685	91.24776179	87.86753721
ADV1013478	3/17/2025	4.219	3/18/2030	119.75491	115.1008368	110.6581421	106.4160614	102.3644398	98.49369233	94.79476876	91.25912047	87.87867005
ADV1013479	3/17/2025	4.216	3/19/2029	115.27622	111.7621363	108.3757259	105.1116271	101.9647396	98.93020611	96.00339894	93.17990796	90.45552889
ADV1014920	4/25/2025	3.88	4/26/2027	105.94683	104.50755	103.0949935	101.7084744	100.347334	99.01093494	97.69866104	96.40991605	95.14412301
ADV1014337	4/3/2025	3.959	4/3/2026	101.41651	101.0701949	100.7262451	100.3846392	100.0453534	99.70836393	99.37364755	99.04118126	98.7109424
ADV1014411	4/4/2025	3.676	4/4/2028	109.76738	107.3249195	104.9495892	102.6391785	100.391559	98.2046848	96.07658804	94.00537604	91.98922779
ADV1014618	4/15/2025	3.954	4/15/2027	105.91601	104.5080438	103.1257166	101.768385	100.4354281	99.12624504	97.84025423	96.57689274	95.33561543
ADV1014795	4/22/2025	3.888	10/22/2026	103.71534	102.79721	101.8953663	101.0093741	100.1388175	99.28329529	98.44241985	97.61581691	96.80312486
ADV1014210	3/28/2025	4.011	3/28/2028	110.30388	107.8782703	105.5187537	103.2231524	100.9893759	98.81541493	96.69933757	94.63928577	92.63347213
ADV1014361	4/3/2025	3.853	4/2/2027	105.61769	104.2486391	102.9039375	101.5829911	100.2852233	99.01007549	97.75700696	96.52549361	95.31502757
ADV1014746	4/21/2025	4.441	4/23/2035	128.39269	121.1542205	114.47406	108.3030883	102.5968811	97.31523529	92.42174131	87.88340057	83.67028413
ADV1014374	4/3/2025	3.746	4/3/2028	109.92295	107.4814784	105.1070305	102.7973975	100.5504569	98.36416814	96.23656878	94.16577104	92.14995857
ADV1015013	4/29/2025	3.821	4/30/2029	114.42132	110.8007861	107.3160949	103.9614179	100.7312132	97.62020474	94.62336888	91.73592038	88.95329999
ADV1013958	3/18/2025	4.13	3/18/2027	105.7965	104.4616318	103.1541019	101.8730764	100.6177565	99.38737584	98.18119868	96.99851847	95.83865637
ADV1014364	4/3/2025	4.11	3/28/2031	123.10413	117.2867101	111.786886	106.5856069	101.6650622	97.00859346	92.6006147	88.42653752	84.47270261
ADV1014934	4/25/2025	3.933	10/26/2026	103.73897	102.8104274	101.8985352	101.0028444	100.1229256	99.25836457	98.4087613	97.57372967	96.75289671
ADV1014646	4/16/2025	3.89	11/16/2026	104.02097	103.0310959	102.0600966	101.1074348	100.172594	99.25507669	98.35440406	97.47011463	96.60176372
ADV1013608	3/3/2025	4.164	3/3/2026	101.09257	100.833293	100.5753527	100.3187345	100.0634283	99.80942406	99.55671183	99.30528174	99.05512403
ADV1013830	3/12/2025	4.026	9/14/2026	103.37752	102.5674113	101.7700225	100.9850581	100.212229	99.45125475	98.70186374	97.96379247	97.23678544
ADV1013641	3/4/2025	4.098	3/4/2027	105.51059	104.2108626	102.9418097	101.7023504	100.4914511	99.30812607	98.15143456	97.02047848	95.91439986
ADV1014042	3/21/2025	4.023	3/14/2028	110.16412	107.7791072	105.4582241	103.1993198	101.0003359	98.85929785	96.774311	94.74355633	92.76528705
ADV1014200	3/28/2025	3.988	9/28/2026	103.51264	102.6627468	101.8268284	101.0045389	100.1955468	99.39953128	98.61618161	97.84519704	97.08628625
ADV1013624	3/4/2025	4.256	12/4/2025	100.09031	100.0788655	100.0674272	100.0559998	100.0445833	100.0331777	100.021783	100.010399	99.99902595
ADV1013927	3/17/2025	4.13	5/31/2029	115.86861	112.1354318	108.5453343	105.0920386	101.7695805	98.57228929	95.49477208	92.53189804	89.67878439
ADV1013596	3/14/2025	4.111	3/14/2029	114.86345	111.3703931	108.0038617	104.7585383	101.6293647	98.61152528	95.7004334	92.89171929	90.18121823
ADV1014142	3/27/2025	4.266	3/22/2030	119.76737	115.1084864	110.6614787	106.4155622	102.3605586	98.48685962	94.78539151	91.2475826	87.86533274
ADV1014358	4/3/2025	3.849	4/3/2028	109.99475	107.5559653	105.1840526	102.8768157	100.6321388	98.44798739	96.32240504	94.25350957	92.23948996
ADV1014377	4/3/2025	3.828	4/5/2027	105.62027	104.2427385	102.8898404	101.5609729	100.2555495	98.97300239	97.71278163	96.47435453	95.25720494
ADV1014321	4/2/2025	4.157	4/2/2026	101.44897	101.1056345	100.7646271	100.42592	100.0894899	99.75531391	99.4233694	99.0936341	98.76608598
ADV1014860	4/24/2025	3.975	10/26/2026	103.77779	102.8490655	101.936986	101.0411102	100.1610085	99.29626666	98.44648463	97.61127624	96.79026851
ADV1014963	4/28/2025	3.956	4/28/2026	101.70119	101.2846406	100.8715051	100.4617411	100.0553074	99.65216344	99.25226946	98.85558622	98.46207514
ADV1014391	4/4/2025	3.661	4/4/2028	109.55775	107.1213669	104.7519018	102.4471459	100.2049796	98.02336513	95.90034266	93.834027	91.82260426

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014470	4/8/2025	3.82	4/10/2028	110.00743	107.5484288	105.1573642	102.8319862	100.5701297	98.3697135	96.22873665	94.14527494	92.11747742
ADV1015016	4/29/2025	4.101	4/29/2031	123.67691	117.7399931	112.1322572	106.8336622	101.8254903	97.09025221	92.61160002	88.37424719	84.36389438
ADV1014413	4/4/2025	3.784	4/4/2030	118.36337	113.6810379	109.21403	104.9513172	100.882492	96.99772986	93.28775341	89.74379947	86.35758785
ADV1014917	4/25/2025	4.902	4/25/2040	159.04705	141.9765745	127.0757467	114.0498298	102.6459015	92.64671504	83.86548611	76.14146506	69.33617335
ADV1014902	4/25/2025	4.116	4/27/2026	101.72673	101.3132303	100.9030917	100.4962754	100.0927413	99.69244971	99.29536158	98.90143858	98.51064295
ADV1015079	4/30/2025	3.7	7/30/2027	106.79283	105.083137	103.4093579	101.7704289	100.1653255	98.59306317	97.05269605	95.54331446	94.06404337
ADV1015048	4/30/2025	3.727	4/30/2027	105.77593	104.3266521	102.9044612	101.5086645	100.1385897	98.79358701	97.47302815	96.17630529	94.90283041
ADV1014504	4/10/2025	4.073	4/10/2026	101.51263	101.1468941	100.7838046	100.4233322	100.0654485	99.71012557	99.35733588	99.00705229	98.65924805
ADV1014203	3/28/2025	3.94	3/29/2027	105.77837	104.4168656	103.0800822	101.7673863	100.4781698	99.21184509	97.96784382	96.74561632	95.54463077
ADV1014369	4/3/2025	3.869	4/3/2030	118.39392	113.7236208	109.2676967	105.0151868	100.9557452	97.0796048	93.37754152	89.8408417	86.46127116
ADV1013727	3/7/2025	4.007	3/7/2028	110.04472	107.6805777	105.3795774	103.1395849	100.9585576	98.83453786	96.76564906	94.75009128	92.78613758
ADV1013630	3/18/2025	4.037	9/18/2029	116.84078	112.7734482	108.8726242	105.130572	101.5399603	98.09383786	94.78561142	91.60902521	88.55814172
ADV1013691	3/6/2025	4.226	1/6/2026	100.47245	100.3662556	100.260289	100.1545494	100.0490362	99.94374853	99.83868567	99.73384688	99.62923141
ADV1013689	3/6/2025	4.101	4/15/2027	106.12201	104.7125804	103.3288121	101.9700629	100.6357112	99.32515556	98.03781388	96.77312267	95.53053626
ADV1014145	3/27/2025	4.031	3/27/2028	110.51193	108.0831098	105.720453	103.421781	101.1849969	99.00808599	96.88911116	94.82620985	92.81759061
ADV1013756	3/17/2025	4.041	9/17/2026	103.36824	102.5505279	101.7457834	100.9536949	100.1739651	99.40630585	98.65043804	97.90609106	97.17300254
ADV1014838	4/23/2025	4.209	2/11/2026	100.89434	100.6852618	100.4770411	100.2696707	100.0631452	99.8574594	99.65260817	99.44858637	99.24538891
ADV1014855	4/24/2025	3.917	1/18/2028	109.23319	107.0196559	104.8625557	102.7600541	100.7103885	98.71186749	96.76286734	94.86182863	93.00725322
ADV1014346	4/3/2025	3.906	4/3/2030	118.55797	113.8840909	109.4247061	105.1688508	101.1061745	97.22690531	93.52181488	89.98218538	86.59977871
ADV1014293	4/1/2025	3.972	4/15/2027	105.94318	104.5350988	103.1526546	101.7952062	100.4621326	99.15283296	97.86672591	96.60324852	95.36185571
ADV1014283	4/1/2025	4.09	4/1/2030	119.11078	114.4376643	109.9784278	105.7221558	101.6585498	97.77788569	94.07097908	90.52915264	87.14420554
ADV1014916	4/25/2025	4.82	4/25/2039	154.76935	139.0046409	125.1301194	112.9036713	102.1156028	92.58414063	84.1515754	76.68095512	70.0532483
ADV1014852	4/24/2025	3.938	2/16/2027	105.16588	103.9105856	102.6853241	101.4890298	100.320683	99.17931145	98.06398754	96.97382578	95.90798046
ADV1014331	4/3/2025	3.804	10/5/2026	103.44332	102.5741668	101.7196326	100.8793536	100.052975	99.24015357	98.44055737	97.65386519	96.87976615
ADV1014992	4/29/2025	3.756	10/12/2027	107.75243	105.8276853	103.9470716	102.109312	100.3131782	98.55748518	96.84108917	95.16288602	93.52180956
ADV1013867	3/13/2025	4.102	3/15/2027	103.05444	102.3297122	101.6177374	100.918141	100.2305674	99.55467553	98.89013789	98.23663969	97.59387835
ADV1014076	3/24/2025	4.156	3/26/2029	115.1577	111.6258261	108.2229148	104.9435618	101.782618	98.73517704	95.79656303	92.96231805	90.22819089
ADV1014245	3/31/2025	4.363	6/1/2032	129.17597	121.9125045	115.1203151	108.766123	102.8191728	97.25102756	92.03538217	87.14789306	82.56602215
ADV1014831	4/23/2025	3.882	4/23/2027	106.01463	104.5816863	103.1752339	101.7945951	100.4391193	99.10817727	97.80116048	96.51748003	95.25656597
ADV1014140	3/27/2025	4.265	3/15/2030	119.68095	115.0439137	110.6169673	106.3894287	102.3512159	98.492813	94.80523509	91.27999571	87.90907625
ADV1013723	3/7/2025	4.198	1/14/2026	100.56449	100.4352828	100.3064143	100.1778831	100.0496879	99.92182732	99.79430004	99.66710468	99.5402399
ADV1013774	3/17/2025	4.096	3/15/2030	119.18094	114.5478351	110.124959	105.9016043	101.8676728	98.01363362	94.33048847	90.80973852	87.44335387
ADV1015012	4/29/2025	3.756	4/28/2028	110.05966	107.5484433	105.1079451	102.7357704	100.4296236	98.18730042	96.00668313	93.88573689	91.8225059

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014926	4/25/2025	4.083	4/27/2026	101.71316	101.2996905	100.8895852	100.4828022	100.079301	99.67904214	99.28198659	98.88809597	98.49733253
ADV1014252	3/31/2025	4.271	3/31/2031	124.30731	118.4392374	112.89178	107.6456957	102.6829923	97.98684177	93.54149894	89.33222688	85.34522727
ADV1013629	3/18/2025	4.037	9/18/2029	116.84078	112.7734482	108.8726242	105.130572	101.5399603	98.09383786	94.78561142	91.60902521	88.55814172
ADV1014775	4/22/2025	4.147	4/19/2030	119.56822	114.8322531	110.3152296	106.0058646	101.8935133	97.96813092	94.2202363	90.64087708	87.22159766
ADV1013764	3/18/2025	4.011	9/20/2027	107.96598	106.100688	104.2769748	102.4936315	100.7494893	99.04342271	97.37434716	95.74121728	94.14302517
ADV1013897	3/14/2025	4.089	3/14/2028	110.31882	107.9319713	105.6092884	103.3486217	101.1479118	99.00518323	96.91854022	94.88616288	92.90630347
ADV1014260	3/31/2025	4.005	3/31/2028	110.32563	107.8914175	105.5237151	103.2203422	100.9792015	98.79827605	96.67562591	94.60938452	92.59775566
ADV1015045	4/30/2025	4.595	4/30/2037	146.8863	133.6372947	121.7795014	111.1567777	101.6313634	93.08162494	85.40008978	78.49172859	72.27245394
ADV1014748	4/21/2025	3.844	4/21/2027	105.835	104.4106772	103.0125716	101.6400157	100.292368	98.96900858	97.66933722	96.39277327	95.13875461
ADV1013875	3/13/2025	4.103	9/5/2029	116.93989	112.9087325	109.0412164	105.3297369	101.7670953	98.34646991	95.06139371	91.90573362	88.87367101
ADV1013724	3/7/2025	4.17	2/11/2026	100.89359	100.6834742	100.4742218	100.2658237	100.0582748	99.85156979	99.64570346	99.44067066	99.23646629
ADV1013777	3/12/2025	4.022	8/31/2028	112.22495	109.3337853	106.5329256	103.8189432	101.1885675	98.63867683	96.16628966	93.76855745	91.44275749
ADV1014367	4/3/2025	3.84	2/5/2027	104.9113	103.6887822	102.4948095	101.328387	100.1885683	99.074444998	97.98516892	96.91990044	95.87785599
ADV1014405	4/4/2025	3.679	2/4/2028	109.07378	106.8110512	104.6070038	102.4596913	100.3672462	98.32787819	96.33987053	94.40157596	92.51141345
ADV1014396	4/4/2025	3.643	4/4/2030	117.73683	113.068204	108.6144362	104.3645215	100.3080708	96.43527713	92.73687985	89.20413167	85.82876751
ADV1014259	3/31/2025	3.999	9/30/2027	108.06755	106.1728024	104.3208044	102.5103428	100.7402459	99.00938245	97.31665994	95.66102308	94.04145228
ADV1014793	4/22/2025	3.968	10/22/2026	103.72391	102.8066331	101.9056123	101.0204152	100.150627	99.29584736	98.45568979	97.62978089	96.81775991
ADV1014908	4/25/2025	4.135	3/25/2026	101.37719	101.0467693	100.7184525	100.3922197	100.0680509	99.74592663	99.42582751	99.10773447	98.79162866
ADV1014616	4/15/2025	3.87	4/15/2027	105.89873	104.4892988	103.105552	101.7468494	100.4125681	99.10210582	97.8148794	96.55032446	95.30789445
ADV1014404	4/4/2025	3.977	4/6/2026	101.43274	101.0783306	100.7263993	100.3769247	100.0298811	99.68524321	99.34298591	99.00308454	98.66551478
ADV1014319	4/2/2025	4.078	4/2/2026	101.44586	101.1022701	100.7610046	100.4220443	100.085366	99.75094642	99.41876306	99.08879346	98.76101552
ADV1014044	3/21/2025	4.047	10/10/2028	112.77878	109.7649741	106.8484889	104.0256574	101.2929734	98.64708127	96.08476877	93.60295998	91.19870882
ADV1013765	3/18/2025	4.018	3/20/2028	110.22553	107.823105	105.4856391	103.2109789	100.9970524	98.84187064	96.74352319	94.70017467	92.71006116
ADV1013728	3/7/2025	4.081	3/7/2029	114.68096	111.2107161	107.8655751	104.640276	101.5298127	98.52942145	95.63456708	92.84093035	90.14439625
ADV1013631	3/14/2025	3.983	9/14/2027	107.84007	105.9930518	104.1869071	102.420427	100.6924446	99.00183747	97.34752572	95.72846971	94.14366835
ADV1014442	4/7/2025	4.018	4/7/2026	101.4582	101.1009344	100.7461923	100.3939469	100.044172	99.69684135	99.35192945	99.00941096	98.66926097
ADV1013699	3/6/2025	4.07	3/6/2028	110.17792	107.8150083	105.51513	103.2761574	101.0960489	98.97284825	96.90468035	94.88974702	92.92632316
ADV1013669	3/5/2025	4.078	9/8/2026	103.29151	102.4993224	101.7193086	100.9511887	100.1946917	99.44955474	98.71552311	97.99234949	97.27979389
ADV1014868	4/24/2025	3.835	4/26/2027	105.98512	104.5439153	103.1294897	101.7411589	100.3782621	99.04016015	97.72623501	96.43588876	95.16854279
ADV1014292	4/1/2025	3.976	4/1/2027	105.77247	104.4051396	103.0620879	101.7427181	100.4464565	99.17274712	97.92105173	96.69084866	95.48163236
ADV1014751	4/21/2025	4.192	12/22/2025	100.28703	100.2243158	100.1616971	100.0991693	100.0367321	99.97438551	99.91212919	99.84996297	99.78788665
ADV1014263	3/31/2025	4.051	3/31/2026	101.40859	101.0706423	100.7349401	100.401465	100.070195	99.74110831	99.41418335	99.08939892	98.76673408
ADV1014375	4/3/2025	3.845	4/5/2027	105.64351	104.2658045	102.9127426	101.5837141	100.2781324	98.99542957	97.73505569	96.49647797	95.27918018

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014492	4/9/2025	3.963	5/1/2028	110.60666	108.0801731	105.6250148	103.2387621	100.9190933	98.66377901	96.47067782	94.33773238	92.26296548
ADV1014007	3/20/2025	4.041	4/11/2028	110.54887	108.0804089	105.6801809	103.3459233	101.0754596	98.86669773	96.71762661	94.62631221	92.59089427
ADV1014857	4/24/2025	3.935	7/14/2028	111.41672	108.6708307	106.0076138	103.4240611	100.917292	98.48455019	96.12319766	93.83070852	91.60466348
ADV1013811	3/11/2025	4.097	3/25/2026	101.33283	101.011991	100.6931911	100.3764104	100.0616295	99.7488296	99.43799195	99.12909807	98.82212973
ADV1014436	4/7/2025	4.02	3/25/2026	101.34227	101.011548	100.6829331	100.3564039	100.0319407	99.7095239	99.38913406	99.07075213	98.75435922
ADV1015058	4/30/2025	3.648	4/30/2027	105.76533	104.3144673	102.8907457	101.4934708	100.1219685	98.77558722	97.45369694	96.15568826	94.8809716
ADV1014247	3/31/2025	4.102	3/29/2030	119.36505	114.68801	110.2247746	105.9644441	101.8967263	98.01190422	94.30080033	90.75474418	87.36554171
ADV1014851	4/24/2025	3.948	1/13/2027	104.74049	103.5841154	102.4533306	101.3472942	100.2651993	99.20627351	98.16977738	97.15500275	96.161271
ADV1014299	4/1/2025	3.996	10/30/2026	103.84863	102.9083799	101.9851741	101.0785552	100.1880789	99.31331644	98.45385435	97.60929344	96.77924835
ADV1014041	3/21/2025	4.022	1/18/2028	109.46141	107.2453434	105.0857656	102.9808364	100.9287918	98.92793888	96.97665258	95.07337222	93.21659841
ADV1014574	4/14/2025	4.189	6/14/2030	120.65144	115.7219034	111.0273695	106.5553398	102.2940473	98.23241126	94.35999292	90.66695504	87.14402388
ADV1014472	4/8/2025	3.997	4/8/2030	119.01736	114.3187515	109.8362879	105.5588906	101.4761033	97.578056	93.85542924	90.29942053	86.90171311
ADV1014370	4/3/2025	3.82	4/5/2027	105.60934	104.2318839	102.8790629	101.5502712	100.2449223	98.96244843	97.70229972	96.46394351	95.24686365
ADV1013591	3/3/2025	4.194	3/3/2026	101.10035	100.8410608	100.5831071	100.3264757	100.0711564	99.8171391	99.56441384	99.31297076	99.06280011
ADV1014372	4/3/2025	3.873	4/3/2030	118.41166	113.7409689	109.2846707	105.0317991	100.9720079	97.09552918	93.39313864	89.85612209	86.47624495
ADV1013599	3/14/2025	4.101	3/14/2029	114.82993	111.3374395	107.9714524	104.7266587	101.5980007	98.58066315	95.67006005	92.86182203	90.15178478
ADV1014861	4/24/2025	3.924	4/26/2027	106.00979	104.5700529	103.1570389	101.7700698	100.4084866	99.07165188	97.75894915	96.46978203	95.20357338
ADV1013570	3/3/2025	4.214	3/3/2026	101.10553	100.8462392	100.5882768	100.3316366	100.0763085	99.82228246	99.56954851	99.31809677	99.0679175
ADV1013771	3/18/2025	4.009	3/20/2028	110.20444	107.8022565	105.465036	103.190616	100.9769247	98.82197316	96.72385125	94.68072366	92.69082662
ADV1015021	4/29/2025	3.755	4/29/2027	105.80429	104.3576157	102.9379375	101.5445638	100.1768255	98.83407607	97.51569007	96.22106261	94.94960839
ADV1013750	3/10/2025	4.126	3/10/2026	101.16455	100.8856833	100.6083663	100.3325854	100.0583279	99.78558105	99.51433237	99.24456939	98.97627986
ADV1014157	3/27/2025	4.125	3/27/2026	101.38548	101.0587136	100.7340621	100.4115017	100.0910123	99.77257405	99.45616715	99.1417722	98.82937
ADV1015072	4/30/2025	3.71	4/28/2028	109.94665	107.4368533	104.9977339	102.6269057	100.3220743	98.08103646	95.90167536	93.78195712	91.71992685
ADV1013725	3/7/2025	4.102	4/8/2026	101.49993	101.13979	100.782212	100.427171	100.07464	99.72459235	99.37700172	99.03184225	98.68908837
ADV1015043	4/30/2025	3.791	12/16/2026	104.21399	103.1397526	102.0876969	101.0571434	100.047437	99.05794907	98.08807583	97.13723751	96.20487696
ADV1013717	3/7/2025	4.132	3/19/2026	101.27332	100.9692744	100.6670723	100.3666919	100.0681168	99.77133063	99.47631721	99.18306059	98.89154502
ADV1014996	4/30/2025	3.837	10/30/2026	103.69663	102.7571198	101.834647	100.9287521	100.0389906	99.16493429	98.30616968	97.46229781	96.63293346
ADV1015020	4/29/2025	3.81	12/29/2026	104.39443	103.2824898	102.1942632	101.1290009	100.0859811	99.06451183	98.06392976	97.08359843	96.12290707
ADV1013772	3/18/2025	4.095	3/15/2030	119.1764	114.5433989	110.1206174	105.8973541	101.863511	98.00955736	94.32649497	90.80582511	87.439518
ADV1013753	3/10/2025	4.022	3/10/2027	105.554	104.2391783	102.9536092	101.6963192	100.4663735	99.26287851	98.08497978	96.93185959	95.80273509
ADV1015060	4/30/2025	3.707	4/30/2029	114.28318	110.6585326	107.1700468	103.8118818	100.5784767	97.46453784	94.46502495	91.57513723	88.79030082
ADV1014402	4/4/2025	3.778	4/3/2030	117.9903	113.3288094	108.881397	104.6371148	100.5856289	96.71718332	93.02256477	89.49306976	86.12047384
ADV1013956	3/18/2025	4.148	11/18/2026	104.22899	103.2333903	102.2568557	101.298844	100.3588311	99.43631249	98.53080232	97.64183264	96.76895253

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015092	4/30/2025	3.784	10/30/2026	103.64743	102.7081696	101.7859412	100.8802875	99.99076424	99.11694317	98.25841092	97.41476858	96.58563099
ADV1014448	4/7/2025	3.876	4/7/2027	105.70977	104.3259252	102.9669169	101.632135	100.3209862	99.03289591	97.76730788	96.52368331	95.30150019
ADV1014336	4/3/2025	4.08	3/19/2026	101.29221	100.9786034	100.6669011	100.3570819	100.0491285	99.74302405	99.43875188	99.13629548	98.83563852
ADV1013755	3/14/2025	4.101	3/14/2030	119.19173	114.5612491	110.140759	105.9195658	101.8875844	98.03529644	94.35371571	90.83435495	87.46919534
ADV1014796	4/22/2025	3.832	4/22/2027	105.93153	104.5020357	103.0989214	101.7215153	100.3691707	99.04126191	97.73718385	96.45635093	95.19819634
ADV1014617	4/15/2025	4.092	4/15/2026	101.57741	101.1976255	100.8206895	100.4465735	100.075246	99.70667556	99.34083155	98.97768363	98.61720194
ADV1014967	4/28/2025	3.855	10/28/2026	103.69023	102.7563507	101.839311	100.9386587	100.0539572	99.18478518	98.33073594	97.49141701	96.66644937
ADV1014373	4/3/2025	3.761	4/5/2027	105.62637	104.2472431	102.8928023	101.5624412	100.2555717	98.9716243	97.71004763	96.47030754	95.25188649
ADV1014745	4/21/2025	4.258	4/23/2035	121.02704	115.7754874	110.8562508	106.2443883	101.9170485	97.85328235	94.03387053	90.44116779	87.05896225
ADV1014362	4/3/2025	4.059	4/3/2026	101.42689	101.0808258	100.7371209	100.395755	100.0567043	99.71994518	99.38545452	99.05320942	98.72318727
ADV1013768	3/17/2025	4.018	3/17/2028	110.18947	107.7958014	105.4666761	103.1999413	100.9935321	98.84546693	96.75384318	94.71683381	92.73268356
ADV1014490	4/9/2025	4.008	4/9/2026	101.50291	101.1396892	100.7790811	100.4210555	100.0655844	99.71264053	99.36219679	99.0142266	98.6687037
ADV1013671	3/5/2025	4.087	3/5/2027	105.57447	104.270994	102.9979952	101.7544096	100.5392182	99.35144898	98.19017391	97.05450675	95.94360056
ADV1013972	3/18/2025	4.1	3/15/2028	110.35626	107.9661871	105.6404286	103.3768306	101.1733312	99.02795239	96.93879552	94.9040378	92.92192852
ADV1013598	3/14/2025	4.061	3/14/2028	110.25364	107.8675659	105.5456359	103.2857062	101.0857179	98.94369613	96.8577454	94.82604627	92.84685141
ADV1015010	4/29/2025	4.016	4/29/2026	101.70825	101.2892338	100.8736708	100.4615155	100.0527259	99.64726107	99.24508054	98.84614454	98.45041395
ADV1015073	4/30/2025	3.79	4/30/2029	114.31318	110.6945315	107.211663	103.8587563	100.6302713	97.52093406	94.52572256	91.63985334	88.85876877
ADV1014643	4/16/2025	3.921	4/16/2027	105.8823	104.4717519	103.0869377	101.7272085	100.3919403	99.08052891	97.79238992	96.52695746	95.28368362
ADV1014913	4/25/2025	4.617	4/25/2036	144.42966	132.3733472	121.4858415	111.6458033	102.7451443	94.68751298	87.38696375	80.76678249	74.75845062
ADV1013633	3/4/2025	4.006	3/4/2027	105.45828	104.1578838	102.8881984	101.6481401	100.4366734	99.25281117	98.0956111	96.96417372	95.85763974
ADV1014047	3/21/2025	3.942	3/21/2028	110.23003	107.821289	105.4778125	103.1974312	100.9780642	98.81771326	96.71445925	94.66645809	92.67193737
ADV1013621	3/4/2025	4.006	9/17/2026	103.34188	102.5243522	101.7197828	100.9278666	100.1483063	99.38081412	98.62511082	97.88092589	97.14799704
ADV1013895	3/14/2025	4.113	9/14/2026	103.39034	102.5809254	101.7842107	100.9998991	100.227702	99.46733982	98.71854158	97.98104447	97.2545936
ADV1013766	3/18/2025	4.072	3/19/2029	114.79146	111.2855027	107.9069903	104.650577	101.51117	98.48391901	95.56420322	92.74761906	90.02996853
ADV1014430	4/7/2025	3.734	10/7/2026	103.40539	102.5307925	101.6710054	100.8256556	99.99438135	99.17683272	98.37267145	97.58157029	96.80321259
ADV1013896	3/14/2025	4.097	3/15/2027	105.71481	104.3874016	103.088047	101.815862	100.5699966	99.34963632	98.15400054	96.98234071	95.83393864
ADV1013715	3/7/2025	3.924	3/8/2027	105.49474	104.1834627	102.9019833	101.6492824	100.4243892	99.22637668	98.05435868	96.9074881	95.78495458
ADV1013775	3/18/2025	4.095	3/15/2030	119.1764	114.5433989	110.1206174	105.8973541	101.863511	98.00955736	94.32649497	90.80582511	87.439518
ADV1014423	4/7/2025	3.683	4/7/2027	105.543	104.1587954	102.7994607	101.4643812	100.1529622	98.86462831	97.59882216	96.35500403	95.13265103
ADV1015053	4/30/2025	3.77	4/30/2030	118.5815	113.8179577	109.2767917	104.946436	100.8159896	96.87517172	93.11428288	89.52416938	86.09618967
ADV1015093	4/30/2025	3.784	10/30/2026	103.64743	102.7081696	101.7859412	100.8802875	99.99076424	99.11694317	98.25841092	97.41476858	96.58563099
ADV1015009	4/29/2025	3.761	4/29/2027	105.81289	104.3661468	102.9464052	101.5529692	100.1851697	98.84236009	97.5239149	96.22922924	94.95771777
ADV1013634	3/4/2025	3.989	3/6/2028	109.99178	107.6310583	105.3333291	103.0964603	100.9184117	98.79722828	96.73103624	94.71803858	92.75651135

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013754	3/14/2025	4.021	3/15/2027	105.61543	104.2887087	102.9900281	101.7185057	100.4732917	99.25357204	98.05856637	96.88752642	95.73973427
ADV1014409	4/4/2025	3.767	4/15/2027	105.65687	104.2508583	102.8704529	101.5150086	100.1839056	98.87654393	97.59234301	96.33074079	95.09119297
ADV1015011	4/29/2025	3.757	4/29/2027	105.80716	104.3604594	102.9407601	101.5473656	100.1796069	98.83683741	97.51843168	96.22378482	94.95231152
ADV1013752	3/10/2025	4.046	9/10/2026	103.28958	102.4917821	101.7063352	100.93295	100.1713498	99.42126626	98.68243929	97.95461643	97.23755278
ADV1013672	3/5/2025	4.085	3/6/2028	110.21297	107.8496556	105.5493863	103.3100307	101.129547	99.00597876	96.93745059	94.92216414	92.95839411
ADV1013971	3/18/2025	4.103	9/9/2027	107.99366	106.1594681	104.3656204	102.610897	100.8941309	99.21420088	97.57002924	95.96057977	94.38485564
ADV1014566	4/14/2025	4.11	4/1/2030	117.43778	113.2385309	109.2273747	105.3947379	101.7315859	98.22939177	94.8801047	91.67612092	88.61025648
ADV1013812	3/11/2025	4.062	6/25/2026	102.39569	101.8160652	101.2430067	100.6764062	100.1161549	99.56214653	99.01427689	98.47244429	97.93654924
ADV1013807	3/11/2025	4.024	9/11/2026	103.28395	102.4833863	101.6952547	100.9192686	100.1551482	99.40262248	98.66142864	97.93131167	97.21202423
ADV1014912	4/25/2025	4.561	4/25/2035	140.72283	129.9073924	120.0540884	111.0710773	102.8757674	95.39384008	88.55838141	82.30910877	76.59168199
ADV1014829	4/23/2025	4.223	1/16/2026	100.58431	100.4500246	100.3161047	100.1825495	100.0493575	99.91652707	99.78405675	99.65194503	99.5201904
ADV1014772	4/22/2025	4.144	4/5/2030	119.39268	114.7016326	110.2257172	105.9539331	101.8758998	97.98181747	94.26243154	90.70899933	87.31325942
ADV1014435	4/7/2025	4.12	12/26/2025	100.32912	100.2549	100.180796	100.1068078	100.0329351	99.95917761	99.8855351	99.8120073	99.73859393
ADV1013767	3/17/2025	4.011	9/17/2027	107.92842	106.0720115	104.2568429	102.4816954	100.7454013	99.04683654	97.38491871	95.75860531	94.16689177
ADV1015069	4/30/2025	3.633	4/30/2027	105.74379	104.2930879	102.8695255	101.472407	100.1010585	98.7548285	97.43308694	96.13522452	94.86065173
ADV1014141	3/27/2025	4.05	9/28/2026	103.56469	102.7145603	101.8784055	101.0558824	100.2466593	99.45041544	98.66684	97.89563218	97.13650061
ADV1013814	3/11/2025	4.034	3/11/2027	105.58211	104.2647969	102.9764988	101.7162571	100.4831539	99.27631135	98.09488966	96.93808489	95.80512706
ADV1014390	4/4/2025	3.661	4/4/2028	109.55775	107.1213669	104.7519018	102.4471459	100.2049796	98.02336513	95.90034266	93.834027	91.82260426
ADV1014010	3/20/2025	4.058	7/11/2028	111.70906	108.9676198	106.3085006	103.7287094	101.2253859	98.79579263	96.43730931	94.14742668	91.92374099
ADV1014462	4/8/2025	4.035	4/8/2026	101.50103	101.1406011	100.7827415	100.4274243	100.0746225	99.72430907	99.37645781	99.03104266	98.68803798
ADV1013954	3/18/2025	4.214	5/18/2026	102.0231	101.5503635	101.0820238	100.6180178	100.1582853	99.70276744	99.25140612	98.80414451	98.36092674
ADV1015098	4/30/2025	3.629	4/30/2027	105.73805	104.2873867	102.8638667	101.46679	100.0954825	98.74929284	97.42759093	96.12976752	94.8552331
ADV1014877	4/24/2025	4.048	4/19/2030	119.368	114.6293559	110.1100267	105.7986952	101.6846898	97.75794127	94.00894577	90.42872988	87.00881849
ADV1013721	3/7/2025	4.125	3/10/2026	101.16458	100.88573	100.608426	100.332658	100.0584133	99.78567919	99.51444307	99.24469253	98.97641532
ADV1013770	3/18/2025	4.019	3/18/2027	105.65044	104.3165846	103.0100511	101.7300051	100.4756483	99.24621463	98.04096893	96.85920505	95.70024454
ADV1013776	3/18/2025	4.095	3/15/2030	119.1764	114.5433989	110.1206174	105.8973541	101.863511	98.00955736	94.32649497	90.80582511	87.439518
ADV1013906	3/14/2025	4.05	9/14/2026	103.39629	102.586091	101.7886133	101.0035611	100.2306452	99.46958522	98.72010947	97.98195446	97.25486466
ADV1014294	4/1/2025	4.009	9/17/2029	116.72288	112.6608518	108.7650337	105.0277	101.4415327	97.99959343	94.69530149	91.52241326	88.47500291
ADV1014862	4/24/2025	3.927	4/24/2028	110.43153	107.9271626	105.492995	103.1266626	100.8258962	98.58851602	96.41242781	94.29561885	92.23615425
ADV1013579	3/3/2025	4.126	9/3/2026	103.26853	102.4904096	101.7240283	100.9691239	100.2254398	99.49272699	98.77074374	98.05925542	97.35803418
ADV1013757	3/17/2025	4.021	3/17/2028	110.19648	107.8027264	105.4735198	103.2067055	101.0002185	98.85207706	96.76037863	94.7232961	92.73907417
ADV1014009	3/20/2025	4.041	4/11/2028	110.54887	108.0804089	105.6801809	103.3459233	101.0754596	98.86669773	96.71762661	94.62631221	92.59089427
ADV1015081	4/30/2025	3.756	4/30/2027	105.74416	104.2963061	102.8754975	101.4810407	100.1122648	98.76852146	97.4491837	96.15364499	94.8813185

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014209	3/28/2025	4.023	3/29/2027	105.79376	104.433668	103.0982484	101.7868702	100.4989269	99.23383246	97.99102003	96.7699413	95.57006579
ADV1014822	4/23/2025	3.953	4/23/2027	106.01366	104.5823621	103.1774962	101.7983914	100.444399	99.11489147	97.80926199	96.52692323	95.26730675
ADV1013726	3/7/2025	4.123	3/9/2026	101.15219	100.8761299	100.6015907	100.3285567	100.0570153	99.78695432	99.51836152	99.25122486	98.98553245
ADV1013760	3/17/2025	4.089	9/17/2029	117.03059	112.9625459	109.0608897	105.317896	101.7262398	98.27897629	94.96951847	91.79161673	88.73933952
ADV1014249	3/31/2025	4.102	3/29/2030	119.36505	114.68801	110.2247746	105.9644441	101.8967263	98.01190422	94.30080033	90.75474418	87.36554171
ADV1014535	4/11/2025	4.134	4/13/2026	101.57036	101.1961603	100.8247294	100.4560371	100.090053	99.72674724	99.36609028	99.00805314	98.6526072
ADV1013644	3/4/2025	4.088	3/5/2029	114.68114	111.216555	107.8766926	104.6563051	101.5504006	98.55422923	95.66326959	92.87321614	90.17996727
ADV1014964	4/28/2025	3.796	4/28/2028	110.15778	107.645353	105.2036641	102.8303245	100.523038	98.27959934	96.09789024	93.97587512	91.9115975
ADV1013593	3/3/2025	4.105	3/1/2030	119.06251	114.471965	110.0881338	105.9005074	101.8991759	98.07478994	94.41852563	90.9220514	87.57749751
ADV1013576	3/3/2025	4.019	3/3/2027	105.55348	104.2533141	102.9841711	101.7449482	100.5345905	99.35209231	98.19649443	97.0668813	95.96237867
ADV1014129	3/26/2025	4.132	3/26/2026	101.37617	101.0521897	100.730286	100.41044	100.0926321	99.77684258	99.46305239	99.15124246	98.84139403
ADV1014365	4/3/2025	4.112	4/3/2031	123.17495	117.3382364	111.8210412	106.6041565	101.6696285	97.0006665	92.58156161	88.39761187	84.43505288
ADV1014378	4/3/2025	3.808	4/4/2028	109.90876	107.4681511	105.0945459	102.7857382	100.5396056	98.35410786	96.22728268	94.15724254	92.14217133
ADV1014363	4/3/2025	3.852	4/5/2027	105.65307	104.2753023	102.9221729	101.5930781	100.2874312	99.00466429	97.74422736	96.50558762	95.28822881
ADV1013769	3/17/2025	4.085	9/17/2029	117.01509	112.9473372	109.0459696	105.3032558	101.7118713	98.26487143	94.95566954	91.7780163	88.72598045
ADV1015084	4/30/2025	3.699	4/30/2027	105.73574	104.2867645	102.8648704	101.4693654	100.0995773	98.75485658	97.43457496	96.13812478	94.86491813
ADV1014953	4/28/2025	3.812	4/28/2027	105.87381	104.4294393	103.0119791	101.6207367	100.2550462	98.91426432	97.59776854	96.30495685	95.03524666
ADV1014147	3/27/2025	4.132	3/27/2026	101.38775	101.0609847	100.7363286	100.4137636	100.0932697	99.77482687	99.45841546	99.14401601	98.83160933
ADV1014388	4/4/2025	3.661	4/4/2028	109.55775	107.1213669	104.7519018	102.4471459	100.2049796	98.02336513	95.90034266	93.834027	91.82260426
ADV1014240	3/31/2025	4.117	3/30/2029	114.89172	111.3575142	107.9526587	104.6717343	101.5095807	98.46127996	95.52214364	92.68770093	89.95368733
ADV1014204	3/28/2025	3.947	3/29/2027	105.78779	104.4262262	103.0893772	101.7766166	100.4873367	99.22094953	97.97688686	96.75459896	95.55355399
ADV1014850	4/24/2025	4.21	1/13/2026	100.54649	100.4208343	100.2955043	100.1704956	100.0458069	99.9214369	99.79738442	99.67364815	99.55022683
ADV1013626	3/14/2025	4.024	9/14/2028	112.40052	109.466398	106.6249932	103.8728196	101.2065417	98.62297135	96.11905936	93.691889	91.3386691
ADV1014360	4/3/2025	3.842	4/3/2028	109.97807	107.5394777	105.1677621	102.8607181	100.6162299	98.4322633	96.30686193	94.2381437	92.2242977
ADV1014354	4/3/2025	3.769	4/3/2028	109.97783	107.5356973	105.1606009	102.8503331	100.6027712	98.41587421	96.28767921	94.21629812	92.19991423
ADV1013969	3/18/2025	4.227	3/18/2026	101.28843	100.9870951	100.6875681	100.3898312	100.0938682	99.79966326	99.50720063	99.21646476	98.92744028
ADV1014081	3/24/2025	4.114	3/24/2028	110.49903	108.0822004	105.7309615	103.4431409	101.2166559	99.04950564	96.93976738	94.88559295	92.88520528
ADV1014615	4/15/2025	3.923	10/15/2026	103.66402	102.7657586	101.8830973	101.0156288	100.1629628	99.32472217	98.50054246	97.6900715	96.89296878
ADV1014395	4/4/2025	3.57	4/4/2028	109.51416	107.0747544	104.7024201	102.3949414	100.1501919	97.96612741	95.84078189	93.77226437	91.75875544
ADV1014400	4/4/2025	3.729	4/5/2027	105.48484	104.1082676	102.7563164	101.4283799	100.123872	98.84222517	97.58289002	96.3453342	95.12904194
ADV1014368	4/3/2025	3.816	7/1/2027	106.64987	105.0210822	103.425424	101.8619531	100.3297623	98.82797814	97.35575945	95.91229588	94.49680643
ADV1014239	3/31/2025	4.064	3/31/2028	110.34184	107.9099496	105.5444588	103.2431904	101.0040519	98.82503117	96.70419247	94.63967351	92.62968205
ADV1014639	4/16/2025	3.954	4/14/2028	110.37698	107.9019859	105.4956372	103.1556501	100.879828	98.66605983	96.51231649	94.41664695	92.37717485

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015075	4/30/2025	3.706	4/30/2027	105.74579	104.2967364	102.8747681	101.4791901	100.1093304	98.76453919	97.44418826	96.14766991	94.8743962
ADV1014318	4/2/2025	4.165	4/2/2026	101.45171	101.1083708	100.7673576	100.4286447	100.0922089	99.75802718	99.42607701	99.09633606	98.76878232
ADV1013928	3/17/2025	4.092	3/17/2028	110.36233	107.9666174	105.6354884	103.3667922	101.1584626	99.0085167	96.91505088	94.87623694	92.89031855
ADV1014389	4/4/2025	3.661	4/4/2028	109.55775	107.1213669	104.7519018	102.4471459	100.2049796	98.02336513	95.90034266	93.834027	91.82260426
ADV1014036	3/21/2025	4.005	3/21/2028	110.20649	107.801497	105.4616045	103.1846495	100.968558	98.81133866	96.71107857	94.66593971	92.67415542
ADV1014380	4/3/2025	3.876	4/4/2030	118.43595	113.761811	109.3023398	105.0465538	100.9840875	97.10515569	93.40051743	89.86144349	86.47968525
ADV1013786	3/10/2025	4.395	3/1/2035	129.37544	121.6739779	114.57704	108.0312225	101.9882165	96.40429432	91.23984728	86.4589735	82.02910847
ADV1014043	3/21/2025	4.043	9/12/2028	112.42901	109.5002757	106.6639333	103.9165016	101.2546541	98.67521153	96.17513413	93.75151449	91.40157089
ADV1013759	3/17/2025	4.076	3/19/2029	114.80508	111.2988954	107.9201667	104.6635428	101.5239304	98.49647914	95.57656812	92.75979353	90.04195724
ADV1014401	4/4/2025	3.693	4/4/2028	109.63413	107.1968248	104.8264568	102.5208174	100.2777862	98.09532499	95.97147338	93.90434567	91.89212748
ADV1014218	3/31/2025	4.03	3/30/2029	114.77716	111.2404318	107.833259	104.5502166	101.3861321	98.33607615	95.39534951	92.55947123	89.82416733
ADV1013773	3/17/2025	4.096	3/15/2030	119.18094	114.5478351	110.124959	105.9016043	101.8676728	98.01363362	94.33048847	90.80973852	87.44335387
ADV1014300	4/1/2025	3.979	5/3/2027	106.17857	104.7180915	103.2850516	101.8787467	100.4984923	99.14362669	97.81351023	96.50752427	95.2250704
ADV1014011	3/20/2025	4.06	8/8/2028	112.05279	109.228387	106.4906555	103.8363654	101.2624348	98.76591811	96.34399969	93.99398651	91.71330204
ADV1013886	3/14/2025	4.169	3/16/2026	101.24754	100.951848	100.6578963	100.3656703	100.0751546	99.78633404	99.49919381	99.21371914	98.92989544
ADV1014832	4/23/2025	4.141	4/23/2026	101.68989	101.2875932	100.888487	100.4925338	100.0996959	99.7099368	99.32322023	98.9395106	98.55877284
ADV1014342	4/3/2025	3.856	4/3/2028	110.01144	107.5724528	105.2003431	102.8929134	100.6480477	98.46371148	96.33794816	94.26887545	92.25468221
ADV1013595	3/14/2025	4.07	3/14/2028	110.27459	107.8882677	105.5660956	103.305929	101.1057088	98.96345984	96.87728659	94.84536946	92.865961
ADV1013597	3/14/2025	4.091	3/15/2027	105.70697	104.37961	103.0803087	101.808176	100.562362	99.3420523	98.14646627	96.97485537	95.82650145
ADV1013670	3/7/2025	4.134	3/7/2030	119.25669	114.6448215	110.2412746	106.0354488	102.0173498	98.17754705	94.50713873	90.99771843	87.6413448
ADV1014914	4/25/2025	4.677	4/27/2037	147.8093	134.5179379	122.6198988	111.9589988	102.3974173	93.81345116	86.09955185	79.16060984	72.91245531
ADV1014774	4/22/2025	4.147	4/19/2030	119.56822	114.8322531	110.3152296	106.0058646	101.8935133	97.96813092	94.2202363	90.64087708	87.22159766
ADV1015076	4/30/2025	3.797	4/30/2029	114.33756	110.7184883	107.2352092	103.8819033	100.6530301	97.54331512	94.54773611	91.6615092	88.88007643
ADV1014431	4/7/2025	3.672	4/7/2027	105.5279	104.1438044	102.7845768	101.4496025	100.1382869	98.85005471	97.58434858	96.34062884	95.11837263
ADV1013779	3/14/2025	4.017	7/31/2028	111.84063	109.0415276	106.3277989	103.6962846	101.1439682	98.66796596	96.26551987	93.93399138	91.67085512
ADV1013758	3/17/2025	4.047	9/18/2028	112.51457	109.5672463	106.7133664	103.9494167	101.272042	98.67803366	96.1643223	93.72797054	91.36616657
ADV1013622	3/4/2025	4.008	3/4/2030	118.67475	114.0839438	109.7003077	105.513304	101.5129944	97.69000198	94.0354761	90.54105964	87.19885824
ADV1014848	4/24/2025	4.062	4/24/2030	118.03286	113.6341011	109.4371895	105.4316463	101.6075991	97.95573976	94.46728913	91.13396385	87.94794581
ADV1013761	3/18/2025	4.115	3/18/2026	101.25478	100.9535073	100.6540451	100.3563728	100.0604741	99.7663331	99.47393416	99.18326169	98.89430033
ADV1013714	3/7/2025	3.924	3/8/2027	105.49474	104.1834627	102.9019833	101.6492824	100.4243892	99.22637668	98.05435868	96.9074881	95.78495458
ADV1015096	4/30/2025	3.629	4/30/2027	105.73805	104.2873867	102.8638667	101.46679	100.0954825	98.74929284	97.42759093	96.12976752	94.8552331
ADV1013594	3/14/2025	4.091	3/15/2027	105.70697	104.37961	103.0803087	101.808176	100.562362	99.3420523	98.14646627	96.97485537	95.82650145
ADV1013908	3/14/2025	4.115	3/16/2026	101.25232	100.9563892	100.6622053	100.3697511	100.079011	99.78997003	99.50261313	99.21692549	98.93289248

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013577	3/3/2025	4.099	3/3/2027	105.56432	104.2655022	102.9976569	101.7596775	100.5505117	99.36915635	98.21465444	97.08609263	95.98259869
ADV1013673	3/5/2025	4.165	3/5/2030	119.36905	114.7605003	110.3598595	106.1565543	102.1406137	98.30262963	94.63372168	91.12550423	87.77005576
ADV1013970	3/18/2025	4.123	3/18/2027	105.78729	104.4524847	103.1450176	101.8640539	100.6087947	99.37847378	98.17235536	96.98973294	95.8299277
ADV1014410	4/4/2025	3.73	4/4/2029	114.07101	110.5255772	107.110766	103.8210824	100.6512896	97.59639774	94.65165063	91.81251377	89.07466277
ADV1015022	4/29/2025	3.747	10/29/2027	107.92956	105.9562394	104.0291443	102.1469134	100.308233	98.51183642	96.7565022	95.04105222	93.36434979
ADV1013751	3/10/2025	4.046	3/10/2026	101.16182	100.8827501	100.605229	100.3292476	100.0547932	99.78185294	99.5104142	99.24046452	98.97199156
ADV1014371	4/3/2025	3.805	4/3/2028	109.88985	107.4523293	105.0816552	102.7756304	100.53214	98.34915028	96.22470545	94.15692407	92.14399578
ADV1013762	3/18/2025	4.021	3/18/2027	105.65307	104.3191981	103.0126466	101.732583	100.4782088	99.24875808	98.04349559	96.8617152	95.70273844
ADV1014915	4/25/2025	4.745	4/26/2038	151.13475	136.618156	123.7342686	112.2868758	102.1044567	93.03694991	84.95296372	77.73736103	71.28916792
ADV1013718	3/7/2025	4.215	1/7/2026	100.48301	100.3739625	100.2651511	100.1565801	100.0482485	99.94015545	99.83230024	99.72468201	99.61729995
ADV1013632	3/18/2025	4.037	9/18/2029	116.84078	112.7734482	108.8726242	105.130572	101.5399603	98.09383786	94.78561142	91.60902521	88.55814172
ADV1014143	3/27/2025	4.047	9/28/2026	103.56217	102.7120532	101.8759098	101.053398	100.2441861	99.4479533	98.66438878	97.89319177	97.13407088
ADV1013933	3/17/2025	4.166	8/31/2029	117.12026	113.1003165	109.2429963	105.540745	101.9864111	98.57321914	95.29474723	92.14490619	89.11792
ADV1014008	3/20/2025	4.041	4/11/2028	110.54887	108.0804089	105.6801809	103.3459233	101.0754596	98.86669773	96.71762661	94.62631221	92.59089427
ADV1014491	4/9/2025	3.958	4/17/2028	110.42422	107.9400769	105.5250507	103.1768321	100.8932027	98.67203093	96.51126818	94.40894491	92.3631672
ADV1015017	4/29/2025	4.2	4/29/2032	127.7932	120.6689166	114.0016924	107.7596452	101.9132763	96.43528245	91.30038203	86.48515538	81.96789864
ADV1014921	4/25/2025	3.873	4/26/2028	110.32324	107.8144796	105.3761968	103.0060143	100.7016489	98.46090815	96.28168541	94.16195633	92.09977502
ADV1014151	3/27/2025	4.117	4/5/2028	110.65487	108.2023567	105.8171944	103.4971632	101.2401284	99.04403724	96.90691601	94.82686607	92.80206074
ADV1014264	3/31/2025	3.924	3/31/2027	105.78193	104.4158044	103.0739114	101.7556578	100.4604714	99.18779795	97.93710067	96.70785934	95.4995698
ADV1014281	4/1/2025	4.073	4/2/2029	114.78254	111.2416436	107.830644	104.5440967	101.3768119	98.32384367	95.38047681	92.54221523	89.80477043
ADV1014163	3/31/2025	4.207	3/29/2030	119.82902	115.1418772	110.6688817	106.3991156	102.3222733	98.42862476	94.70898039	91.15465809	87.75745271
ADV1014534	4/11/2025	4.136	4/13/2026	101.57111	101.1969045	100.825472	100.456778	100.0907923	99.72748478	99.36682616	99.00878736	98.65333979
ADV1014901	4/25/2025	3.911	4/26/2027	105.99098	104.551375	103.1384946	101.7516573	100.3902039	99.05349731	97.74092094	96.45187848	95.18579281
ADV1014208	3/28/2025	4.046	9/28/2026	103.50209	102.6530577	101.817971	100.9964883	100.188279	99.39302296	98.61041046	97.84014146	97.08192537
ADV1014317	4/2/2025	4.027	4/3/2028	110.41928	107.9753781	105.5984631	103.2863303	101.0368608	98.84801714	96.71783982	94.64444388	92.62601558
ADV1015015	4/29/2025	3.904	4/29/2030	118.83314	114.0769733	109.5423738	105.2178367	101.0925185	97.15619165	93.39920624	89.81245426	86.38733649
ADV1014471	4/8/2025	3.91	4/9/2029	114.48936	110.9285933	107.4993074	104.1959537	101.0132481	97.946156	94.98987979	92.13984587	89.39169319
ADV1014575	4/14/2025	4.214	7/30/2030	121.30041	116.2226154	111.3922363	106.7958142	102.4207018	98.25500707	94.28754415	90.50778691	86.90582641
ADV1014776	4/22/2025	4.075	4/22/2026	101.65191	101.2524828	100.8562048	100.4630371	100.0729433	99.68588712	99.3018332	98.92074659	98.54259289
ADV1015059	4/30/2025	3.646	4/28/2028	109.96862	107.4548374	105.0119162	102.63746	100.3291664	98.0848246	95.90231065	93.77958387	91.7146829
ADV1013625	3/4/2025	4.136	3/4/2026	101.09702	100.8349602	100.574261	100.314914	100.0569088	99.80023489	99.54488197	99.29083983	99.03809836
ADV1014379	4/3/2025	3.852	4/4/2029	114.23394	110.6920383	107.280466	103.9937396	100.8266398	97.77419285	94.83165791	91.99451486	89.25845279
ADV1015044	4/30/2025	3.876	4/29/2030	118.70679	113.9534433	109.4215615	105.0996477	100.9768625	97.04298231	93.28836084	89.70389361	86.28098472

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1013930	3/17/2025	4.029	3/17/2027	105.745	104.4113093	103.1052464	101.8259581	100.5726263	99.34446682	98.14072699	96.9606845	95.80364571
ADV1014366	4/3/2025	3.84	4/5/2027	105.63667	104.2590204	102.9060067	101.5770255	100.2714904	98.98883334	97.7285045	96.48997107	95.27271688
ADV1014296	4/1/2025	4.111	4/1/2026	101.42154	101.0810488	100.742844	100.4069002	100.0731949	99.74170585	99.41241094	99.08528849	98.76031707
ADV1014647	4/16/2025	3.9	4/17/2028	110.28265	107.8002045	105.3868363	103.0402414	100.7582025	98.53858878	96.37935264	94.27852539	92.23421393
ADV1014154	3/27/2025	4.111	3/29/2027	105.91221	104.551287	103.2150426	101.9028536	100.6141132	99.34823488	98.10465152	96.88281445	95.68219284
ADV1014924	4/25/2025	3.886	7/26/2028	111.425	108.6454839	105.9504563	103.3368021	100.8015478	98.34184991	95.95498857	93.63836097	91.38947544
ADV1013627	3/14/2025	4.038	9/14/2029	116.79742	112.7426282	108.8534178	105.1220944	101.5413694	98.10433308	94.80443287	91.63545234	88.5914921
ADV1014853	4/24/2025	3.914	10/15/2027	108.08845	106.1521523	104.2604068	102.4119231	100.6054562	98.83980556	97.11381231	95.42635804	93.77636292
ADV1014883	4/24/2025	4.095	4/24/2026	101.68309	101.2780318	100.8762057	100.4775743	100.0820996	99.68974413	99.30047105	98.91424406	98.53102742
ADV1014432	4/7/2025	3.684	4/7/2028	109.82082	107.3690926	104.9849682	102.6662098	100.4106673	98.2162742	96.0810434	94.0030638	91.98049691
ADV1014773	4/22/2025	4.146	4/12/2030	119.48265	114.769106	110.2725992	105.9819846	101.8867503	97.97697422	94.24328894	90.67684729	87.26929103
ADV1014045	3/21/2025	4.051	11/14/2028	113.20757	110.088105	107.0724512	104.1565738	101.3366217	98.60891454	95.9699345	93.41631785	90.94484736
ADV1014350	5/19/2025	3.87	5/21/2029	114.82823	111.1415917	107.5953919	104.1835119	100.9001357	97.73973104	94.69703479	91.76703768	88.9449709
ADV1014357	5/19/2025	3.916	5/17/2030	119.08106	114.2681895	109.6818004	105.3100157	101.1416424	97.16613043	93.37353169	89.75446289	86.30007042
ADV1014348	5/2/2025	3.91	5/2/2030	118.89654	114.1304555	109.5867664	105.2539082	101.1209791	97.17769797	93.41436495	89.82182609	86.39143964
ADV1014355	5/2/2025	3.88	5/2/2029	114.65318	111.0230814	107.5293434	104.1661135	100.9278208	97.80916247	94.8050894	91.91079266	89.12169069
ADV1014352	5/19/2025	3.823	5/19/2028	110.46573	107.8909627	105.3902908	102.9611495	100.6010812	98.30772845	96.07882847	93.91220927	91.8057852
ADV1014571	6/2/2025	3.994	6/1/2028	111.05285	108.4344056	105.8922574	103.423731	101.0262636	98.6973981	96.43477775	94.23614157	92.09931972
ADV1014345	5/2/2025	3.831	5/2/2028	110.29407	107.7687098	105.3147434	102.9297466	100.6113927	98.35744752	96.16576538	94.03428478	91.96102469
ADV1013790	6/5/2025	4.53	6/5/2036	143.82483	131.6826189	120.7297865	110.841619	101.9071538	93.82759626	86.51492638	79.89067098	73.88482162
ADV1014359	5/19/2025	3.916	5/17/2030	119.08106	114.2681895	109.6818004	105.3100157	101.1416424	97.16613043	93.37353169	89.75446289	86.30007042
ADV1014573	6/2/2025	3.994	6/1/2028	111.05285	108.4344056	105.8922574	103.423731	101.0262636	98.6973981	96.43477775	94.23614157	92.09931972
ADV1013783	5/1/2025	3.979	5/1/2028	110.64726	108.1202885	105.6646508	103.2779295	100.9578024	98.7020398	96.50850012	94.37512569	92.29993903
ADV1014244	6/20/2025	4.285	6/20/2031	125.23695	119.1061364	113.3226057	107.8647446	102.7123963	97.84675738	93.25028082	88.90658474	84.80036926
ADV1014356	5/19/2025	3.874	5/21/2029	114.8424	111.1555108	107.6090686	104.1969531	100.9133478	97.75272041	94.70980749	91.77959959	88.95732769
ADV1014347	5/2/2025	3.876	5/2/2029	114.63922	111.0093658	107.5158632	104.1528621	100.914792	97.79635012	94.79248771	91.89839597	89.10949356
ADV1013780	5/1/2025	4.084	5/1/2030	119.67124	114.8908027	110.3330855	105.9865193	101.8401975	97.88383369	94.10772287	90.5027055	87.06013418
ADV1014567	6/2/2025	4.172	5/31/2030	120.40966	115.5270976	110.8757584	106.4434308	102.2186096	98.1904554	94.34875219	90.68386849	87.18672062
ADV1014353	5/2/2025	3.914	5/2/2030	118.9146	114.1481159	109.6040393	105.2708066	101.1375157	97.19388465	93.4302133	89.83734718	86.40664407
ADV1014568	6/2/2025	4.172	5/31/2030	120.40966	115.5270976	110.8757584	106.4434308	102.2186096	98.1904554	94.34875219	90.68386849	87.18672062
ADV1013781	5/1/2025	3.979	5/1/2028	110.64726	108.1202885	105.6646508	103.2779295	100.9578024	98.7020398	96.50850012	94.37512569	92.29993903
ADV1014349	5/2/2025	3.834	5/3/2027	105.96893	104.5100238	103.0785304	101.6737457	100.2949857	98.94158947	97.61291805	96.30835342	95.02729778
ADV1014569	6/2/2025	3.994	6/1/2028	111.05285	108.4344056	105.8922574	103.423731	101.0262636	98.6973981	96.43477775	94.23614157	92.09931972

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014572	6/2/2025	3.994	6/1/2028	111.05285	108.4344056	105.8922574	103.423731	101.0262636	98.6973981	96.43477775	94.23614157	92.09931972
ADV1013784	5/1/2025	3.985	5/1/2028	110.66204	108.1348805	105.679063	103.2921658	100.9718666	98.71593565	96.52223113	94.38869532	92.31335066
ADV1016245	7/1/2025	4.108	7/1/2030	120.47493	115.499361	110.7630332	106.2531155	101.9575347	97.8649279	93.96459637	90.24646342	86.70103451
ADV1015450	5/13/2025	4.148	1/15/2027	104.99648	103.832845	102.695079	101.5823243	100.4937614	99.42860649	98.38610912	97.36555078	96.36624306
ADV1016190	6/4/2025	4.48	6/6/2033	133.62582	125.1215311	117.2418598	109.9371995	103.1621377	96.87508428	91.03793084	85.6157422	80.57647659
ADV1016844	6/27/2025	3.926	12/28/2026	104.50884	103.3990519	102.312872	101.2495539	100.2083806	99.18866497	98.18974804	97.21099755	96.25180665
ADV1016660	6/23/2025	3.991	12/23/2026	104.51666	103.4209081	102.3481795	101.2977554	100.2689444	99.26108368	98.27353718	97.3056944	96.35696912
ADV1015141	5/1/2025	3.883	11/2/2026	103.77933	102.831009	101.9000414	100.985951	100.0882815	99.20659308	98.34046132	97.48947686	96.65324456
ADV1016020	5/29/2025	4.043	6/29/2027	106.9859	105.3598634	103.7668284	102.2058567	100.6760471	99.17653209	97.70647593	96.26507352	94.85154875
ADV1017491	7/22/2025	4.223	6/22/2026	102.4504	101.8789165	101.3138188	100.7550021	100.2023621	99.65579649	99.11520537	98.580491	98.05155774
ADV1016243	7/1/2025	3.987	6/30/2028	111.39248	108.6860187	106.0601479	103.5119659	101.0386986	98.63768965	96.30639513	94.0423775	91.84330063
ADV1016006	5/29/2025	4.023	8/30/2027	107.7218	105.9185019	104.1543903	102.4282517	100.7389248	99.08529665	97.46629924	95.8809077	94.3281379
ADV1015607	5/16/2025	4.227	5/18/2026	102.02953	101.5567845	101.0884355	100.6244203	100.1646786	99.70915131	99.25778063	98.81050961	98.3672824
ADV1017243	7/11/2025	4.189	7/13/2026	102.68482	102.0540346	101.4310191	100.8156286	100.2077235	99.60716762	99.01382785	98.42757444	97.8482807
ADV1016861	6/27/2025	3.858	12/28/2026	104.51196	103.4009999	102.3136938	101.2492909	100.2070727	99.18635026	98.18646291	97.2067769	96.24668393
ADV1016523	6/27/2025	3.998	6/27/2028	111.3801	108.6824062	106.064855	103.5245759	101.0588167	98.66494175	96.34042641	94.08285147	91.88989797
ADV1015592	5/16/2025	4.047	5/16/2028	110.99287	108.4197751	105.9204463	103.4923451	101.1330327	98.84016903	96.61150809	94.44489346	92.3382542
ADV1017699	7/30/2025	4.239	7/30/2026	102.9195	102.240474	101.5704191	100.9091542	100.2565069	99.61230951	98.97639869	98.34861519	97.72880385
ADV1016363	6/11/2025	4.03	12/13/2027	109.04017	106.9285	104.8689866	102.8600012	100.8999759	98.9874032	97.12083301	95.29886992	93.52017078
ADV1017647	7/29/2025	4.059	1/26/2027	105.03878	103.8437601	102.6759981	101.534568	100.4185854	99.32720525	98.25961943	97.21505498	96.19277211
ADV1016859	6/27/2025	3.825	12/27/2027	108.77672	106.6290699	104.5351117	102.493138	100.5015106	98.55865602	96.66306143	94.81327237	93.00788983
ADV1016695	6/24/2025	3.904	6/26/2028	111.12236	108.430937	105.8194383	103.2849984	100.8248745	98.43644019	96.11717937	93.86468094	91.67663364
ADV1016187	6/4/2025	4.008	6/4/2029	115.48318	111.7451884	108.1508745	104.6939186	101.3683158	98.16835778	95.08861629	92.12392799	89.26937983
ADV1016758	6/25/2025	4.257	3/25/2026	101.40717	101.0786843	100.7522904	100.4279682	100.105698	99.78546029	99.46723589	99.15100582	98.83675134
ADV1016370	6/13/2025	4.12	6/13/2030	120.31993	115.4009043	110.7163638	106.2538382	102.0015897	97.94856469	94.08434963	90.39913088	86.88365673
ADV1016016	5/29/2025	4.043	5/28/2027	106.5758	105.0437122	103.5416931	102.0689331	100.624651	99.20809285	97.81853085	96.4552622	95.11760804
ADV1015680	5/20/2025	4.141	11/24/2026	104.29782	103.2850019	102.2919003	101.3179414	100.3625749	99.42527128	98.50552131	97.60283453	96.71673868
ADV1016303	6/10/2025	4.187	6/10/2030	120.59564	115.6792275	110.9967435	106.5357729	102.2846236	98.23228357	94.36837766	90.68312731	87.16731293
ADV1016748	6/25/2025	4.336	1/26/2026	100.71265	100.5506927	100.3892553	100.228334	100.0679261	99.90802935	99.74864119	99.5897592	99.43138098
ADV1015859	5/27/2025	4.005	5/27/2027	106.61457	105.0831297	103.5817218	102.109538	100.6657986	99.24975105	97.86066909	96.49785125	95.16061998
ADV1016205	6/4/2025	4.058	12/4/2026	104.34473	103.3035365	102.283168	101.2829993	100.3024342	99.3408999	98.39784561	97.47274169	96.56507857
ADV1016073	5/30/2025	4.033	11/16/2026	104.15842	103.1678827	102.1962291	101.2429207	100.3074408	99.38929195	98.48799498	97.60308838	96.73412732
ADV1016112	6/2/2025	3.955	6/2/2027	106.618	105.0698703	103.5523673	102.0646551	100.6059312	99.17542125	97.7723783	96.39608115	95.04583343

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1017579	7/25/2025	4.426	12/26/2025	100.33568	100.2622672	100.1889665	100.1157802	100.0427082	99.96975022	99.89690594	99.82417511	99.75155749
ADV1016864	6/27/2025	4.101	6/29/2026	102.46231	101.8713046	101.287118	100.7096327	100.138734	99.57430949	99.01624961	98.46444708	97.91879707
ADV1017615	7/28/2025	3.961	7/28/2028	111.65089	108.8627329	106.1594321	103.5378595	100.9950237	98.52806464	96.13424664	93.8109521	91.55567543
ADV1015404	5/12/2025	4.306	1/12/2026	100.54386	100.4212482	100.2989439	100.1769463	100.0552543	99.93386659	99.81278207	99.69199954	99.57151782
ADV1016242	7/1/2025	3.987	6/30/2028	111.39248	108.6860187	106.0601479	103.5119659	101.0386986	98.63768965	96.30639513	94.0423775	91.84330063
ADV1016693	6/24/2025	3.834	6/26/2028	111.13109	108.4354399	105.8199164	103.2816486	100.8178844	98.42598811	96.10343521	93.84780652	91.65678314
ADV1016886	6/30/2025	4.027	6/30/2026	102.47181	101.8774691	101.2900271	100.7093598	100.1353505	99.56788503	99.00685207	98.45214265	97.90365028
ADV1017326	7/15/2025	4.155	7/15/2026	102.73116	102.0940626	101.4648868	100.843486	100.2297164	99.62343771	99.02451307	98.43280893	97.84819498
ADV1017337	7/15/2025	4.237	7/14/2026	102.72636	102.0926283	101.4667396	100.8485443	100.2379009	99.6346713	99.03872082	98.44991795	97.86813437
ADV1015205	5/5/2025	4.159	5/5/2026	101.84345	101.4073926	100.97508	100.5464591	100.1214826	99.7001041	99.28227803	98.86795948	98.45710433
ADV1015990	5/29/2025	4.007	5/1/2028	110.74368	108.2044381	105.7386112	103.3436351	101.0170512	98.75650226	96.55972715	94.42455655	92.34890845
ADV1015577	5/16/2025	4.282	2/17/2026	100.9796	100.7536763	100.5287468	100.3048086	100.0818551	99.8598798	99.63887616	99.41883779	99.19975833
ADV1015333	5/8/2025	4.077	11/9/2026	104.04796	103.0785987	102.1273395	101.1936774	100.2771268	99.37721965	98.49350506	97.62554819	96.77292968
ADV1017529	7/23/2025	3.967	1/25/2027	105.0018	103.8085584	102.642492	101.5026817	100.3882469	99.29834619	98.23217483	97.1889631	96.16797422
ADV1015773	5/22/2025	4.095	9/22/2028	112.7003	109.738736	106.871362	104.0946447	101.405208	98.79982226	96.27539643	93.82897167	91.45771463
ADV1015722	5/21/2025	4.092	5/21/2027	106.56356	105.0507464	103.5672726	102.1123566	100.6852444	99.28520811	97.9115447	96.56357506	95.24064293
ADV1015921	5/28/2025	4.051	1/26/2028	109.62137	107.3813395	105.1988207	103.0719258	100.9988436	98.97783714	97.0072395	95.08545059	93.21093379
ADV1017118	7/8/2025	3.939	7/8/2027	107.04951	105.396091	103.7765963	102.1900456	100.6354996	99.11205458	97.61884077	96.15502057	94.71978719
ADV1015448	5/13/2025	4.146	1/22/2027	105.08893	103.9049204	102.7476709	101.6162769	100.5098776	99.42765018	98.36880771	97.33259696	96.31829683
ADV1017642	7/29/2025	4.132	7/29/2026	102.88301	102.2063013	101.5385062	100.8794465	100.2289513	99.58685453	98.95299406	98.32721206	97.7093547
ADV1016566	6/18/2025	4.019	6/18/2027	106.80836	105.2150366	103.6536998	102.1234586	100.6234537	99.15285703	97.71087049	96.29672449	94.90967665
ADV1016760	6/25/2025	3.877	9/25/2029	116.59201	112.5011438	108.5787453	104.816974	101.2084005	97.74597874	94.42302411	91.23319304	88.17046367
ADV1017028	7/2/2025	3.976	1/4/2027	104.65813	103.527711	102.4217581	101.3394845	100.280135	99.24298605	98.22734431	97.23254508	96.25795082
ADV1016436	6/13/2025	4.056	12/14/2026	104.54569	103.474063	102.4244572	101.3961997	100.388643	99.40116567	98.43317088	97.4840853	96.55335792
ADV1015923	5/28/2025	4.048	3/29/2028	110.40359	107.9740026	105.6106688	103.3114123	101.0741394	98.89683767	96.77757181	94.71448031	92.70577722
ADV1016757	6/25/2025	4.294	2/25/2026	101.07416	100.8262792	100.5795933	100.3340926	100.0897688	99.84661323	99.60461767	99.36377382	99.12407345
ADV1015622	5/19/2025	4.184	5/19/2026	102.05409	101.5780905	101.1065477	100.6393978	100.1765796	99.71803268	99.26369798	98.81351743	98.36743405
ADV1017543	7/24/2025	4.378	1/26/2026	100.71472	100.5532811	100.3923592	100.2319517	100.0720561	99.9126699	99.75379069	99.59541605	99.43754356
ADV1015257	7/1/2025	4.033	7/1/2030	120.12362	115.1561334	110.4276061	105.9252171	101.636905	97.55131784	93.65776778	89.9461881	86.40709387
ADV1016690	6/24/2025	4.017	6/24/2030	119.96622	115.0227871	110.316385	105.8343407	101.5647268	97.49631499	93.61853132	89.92141431	86.39557618
ADV1016250	6/5/2025	4.672	6/15/2035	142.24938	131.2155655	121.1747056	112.0308538	103.697851	96.09827645	89.16251903	82.82795087	77.03819277
ADV1017122	7/8/2025	4.431	1/8/2026	100.49991	100.3894099	100.2791654	100.1691713	100.0594267	99.94993075	99.84068256	99.73168126	99.62292596
ADV1015716	5/21/2025	4.107	11/23/2026	104.32174	103.3105884	102.3190797	101.3466467	100.3927422	99.45683962	98.53843211	97.63703183	96.75216891

	Parallel-Shift Sensitivity Analysis											
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ADV1016264	6/6/2025	4.316	3/6/2026	101.19417	100.9197517	100.6468001	100.3752996	100.1052385	99.83660552	99.56938916	99.30357822	99.03916158
ADV1016856	6/27/2025	3.926	12/28/2026	104.50884	103.3990519	102.312872	101.2495539	100.2083806	99.18866497	98.18974804	97.21099755	96.25180665
ADV1015259	5/6/2025	4.011	5/1/2030	119.34076	114.5676338	110.0169775	105.6772323	101.537502	97.58750969	93.81755956	90.21850081	86.7816943
ADV1016173	6/4/2025	3.966	6/4/2027	106.66023	105.1060726	103.5827143	102.0893185	100.6250752	99.18920318	97.78094876	96.39958445	95.0444079
ADV1017759	7/31/2025	4.435	1/30/2026	100.77315	100.6004017	100.4282399	100.2566578	100.0856525	99.91522117	99.74536092	99.5760689	99.40734228
ADV1017203	7/10/2025	3.994	5/10/2027	106.28447	104.8039631	103.3516299	101.9267299	100.5285519	99.15640906	97.80963745	96.48759536	95.18966229
ADV1015602	5/16/2025	4.132	12/16/2026	104.57738	103.5010168	102.446874	101.4142643	100.402532	99.4110474	98.43920625	97.48642798	96.5521548
ADV1016023	5/29/2025	4.018	10/29/2027	108.45632	106.4777512	104.5455096	102.6582307	100.8145977	99.01334148	97.25323798	95.53310659	93.85180822
ADV1016602	6/20/2025	3.899	6/20/2028	111.22799	108.5483934	105.9480762	103.4242124	100.9740929	98.59512247	96.28481443	94.04078532	91.86074987
ADV1016688	6/24/2025	3.925	10/24/2028	112.58332	109.5331912	106.5827627	103.7282365	100.965979	98.29251414	95.70451668	93.19880409	90.77232983
ADV1015501	5/14/2025	4.215	11/16/2026	104.26938	103.2791925	102.3078592	101.3548476	100.4196419	99.50174573	98.60068102	97.71598709	96.84722001
ADV1015920	5/28/2025	4.122	2/24/2027	105.49767	104.2175184	102.9685227	101.7495527	100.559534	99.39744268	98.26230289	97.15318362	96.0691964
ADV1016797	6/26/2025	3.929	12/28/2026	104.51257	103.402755	102.3165483	101.2532037	100.2120043	99.19226281	98.19332032	97.21454455	96.25532864
ADV1017235	7/11/2025	3.927	7/12/2027	107.07885	105.4141521	103.7837622	102.1866836	100.6219609	99.08867514	97.58594202	96.11291033	94.66876033
ADV1017662	7/30/2025	3.999	7/29/2030	120.2628	115.2120964	110.4076844	105.8361667	101.4849512	97.34219758	93.39676848	89.63818347	86.05657653
ADV1015739	5/21/2025	4.182	11/23/2026	104.32591	103.3157454	102.3251937	101.353684	100.4006702	99.46562708	98.54804914	97.6474497	96.76335999
ADV1015209	5/5/2025	4.156	5/5/2026	101.84214	101.406093	100.9737837	100.545166	100.1201929	99.69881768	99.28099487	98.86667956	98.45582763
ADV1017275	7/14/2025	4.065	1/15/2027	104.9016	103.7385396	102.601343	101.4891489	100.4011381	99.33652698	98.2945653	97.27453474	96.27574709
ADV1016890	6/30/2025	3.814	1/12/2028	108.93915	106.7454879	104.6074592	102.5232638	100.4911752	98.50953604	96.57675467	94.69130208	92.85170883
ADV1016651	6/23/2025	3.956	6/25/2029	115.54395	111.7435333	108.0910422	104.5798811	101.2037903	97.95682436	94.83333404	91.82794969	88.93556579
ADV1016051	5/30/2025	4.151	10/30/2026	103.98811	103.04713	102.1232106	101.2158873	100.3247155	99.44926653	98.58912656	97.74389624	96.91319003
ADV1016402	6/12/2025	4.293	3/12/2026	101.26083	100.9693406	100.6795085	100.3913175	100.1047537	99.8198032	99.53645234	99.25468756	98.97449548
ADV1015461	5/15/2025	4.208	5/15/2030	120.38936	115.5528734	110.9433524	106.5489125	102.3583583	98.36113591	94.54729305	90.90744134	87.43272149
ADV1015283	5/7/2025	3.886	5/8/2028	110.49826	107.9536582	105.4814394	103.0791283	100.7443511	98.47482943	96.26837558	94.12288835	92.03634908
ADV1015800	5/23/2025	3.993	5/24/2027	106.56007	105.0372828	103.5442055	102.0800444	100.6440318	99.23542648	97.85351296	96.49760013	95.1670203
ADV1016515	6/17/2025	4.38	6/13/2031	125.38626	119.2827984	113.5236737	108.0875339	102.9544614	98.10587129	93.52441542	89.19389367	85.09917205
ADV1016003	5/29/2025	4.704	7/13/2035	142.81403	131.6716545	121.5383484	112.3159881	103.9165234	96.26089189	89.27805663	82.90415175	77.08172315
ADV1016240	7/1/2025	3.987	6/30/2028	111.39248	108.6860187	106.0601479	103.5119659	101.0386986	98.63768965	96.30639513	94.0423775	91.84330063
ADV1015254	5/6/2025	3.881	5/1/2028	110.40489	107.8809208	105.4282196	103.0443706	100.7270537	98.47404102	96.2831926	94.15245256	92.07984507
ADV1016938	6/30/2025	3.748	12/29/2028	113.02382	109.7740632	106.6362381	103.6058373	100.6785627	97.85031499	95.11718319	92.47543479	89.92150635
ADV1016702	6/24/2025	4.367	12/24/2025	100.31243	100.244446	100.176561	100.1087783	100.0410976	99.97351884	99.90604165	99.83866584	99.77139119
ADV1015561	5/15/2025	4.166	4/15/2030	119.85058	115.1130803	110.5941908	106.2826657	102.1678938	98.2398614	94.48911525	90.90672867	87.48426936
ADV1015633	5/19/2025	4.236	5/19/2026	102.04546	101.5698832	101.0987498	100.6320007	100.1695747	99.7114117	99.25745286	98.8076403	98.36191721

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1017153	7/9/2025	4.236	5/12/2026	101.98252	101.5155379	101.0527628	100.5941335	100.1395944	99.68909066	99.24256874	98.79997589	98.36126032
ADV1015267	5/6/2025	4.295	5/1/2035	122.16003	116.5494908	111.3049872	106.398494	101.8043739	97.49915414	93.46132887	89.67117956	86.11061365
ADV1016015	5/29/2025	4.251	5/29/2026	102.17322	101.6694547	101.1706595	100.6767605	100.1876859	99.70336521	99.22372933	98.74871051	98.27824229
ADV1017200	7/10/2025	4.177	7/10/2026	102.64155	102.0192751	101.404558	100.797265	100.197262	99.60441788	99.01860491	98.43969826	97.86757605
ADV1015595	5/16/2025	4.191	8/17/2026	103.10874	102.3787233	101.6590677	100.9495537	100.2499676	99.56010163	98.87975389	98.20872797	97.54683286
ADV1017580	7/25/2025	4.208	7/27/2026	102.86312	102.192663	101.5309598	100.8778374	100.2331294	99.59667388	98.96831291	98.34789264	97.73526306
ADV1017693	7/30/2025	3.977	7/30/2027	107.2608	105.5470139	103.86922	102.2263497	100.6173762	99.04131329	97.49721298	95.98416378	94.5012889
ADV1016768	6/25/2025	3.988	12/28/2026	104.57704	103.4668429	102.3802652	101.3165549	100.2749952	99.25489866	98.25560616	97.27648532	96.31692918
ADV1015883	5/28/2025	4.118	2/19/2030	118.98941	114.4315229	110.0776951	105.9176062	101.9415233	98.14026163	94.50514955	91.02799687	87.70106497
ADV1016873	6/27/2025	3.824	12/27/2029	117.43083	113.0558724	108.8715263	104.8684278	101.0377277	97.37105834	93.8605052	90.49857935	87.27819221
ADV1015871	5/27/2025	4.07	5/27/2027	106.60422	105.0746584	103.5750607	102.1046255	100.6625753	99.2481597	97.86065451	96.4993602	95.16360108
ADV1016054	5/30/2025	3.973	5/28/2027	106.57842	105.0445207	103.5407545	102.0663071	100.6203949	99.20226207	97.8111788	96.44644044	95.10736634
ADV1015546	5/15/2025	4.256	4/15/2026	101.67025	101.2791578	100.8910073	100.505768	100.1234071	99.74389227	99.36719182	98.99327439	98.62210911
ADV1016219	6/5/2025	3.94	3/5/2027	105.47779	104.1735292	102.8997964	101.6555208	100.4396811	99.25130306	98.08945681	96.95325416	95.84184642
ADV1016644	6/23/2025	4.815	6/23/2039	156.32637	140.223763	126.0734299	113.6225255	102.6524428	92.97400138	84.42333816	76.85839073	70.15588544
ADV1017336	7/15/2025	4.038	7/15/2027	107.17952	105.5077147	103.8704452	102.266705	100.6955287	99.15598817	97.64719053	96.16827626	94.71841781
ADV1017196	7/10/2025	4.341	2/10/2026	100.89686	100.692326	100.4886201	100.2857344	100.083664	99.88240383	99.68194902	99.48229469	99.28343599
ADV1016004	5/29/2025	4.695	5/15/2035	142.18307	131.2426682	121.2790698	112.1986197	103.9171429	96.3589359	89.45587325	83.14661185	77.37588302
ADV1015932	5/28/2025	4.284	5/28/2026	102.1774	101.6764157	101.1803457	100.6891203	100.2026687	99.72092163	99.24381092	98.77126985	98.30323295
ADV1016252	6/5/2025	4.103	12/7/2026	104.43016	103.3800438	102.3510987	101.3426863	100.3541958	99.38504022	98.43465554	97.50249951	96.58805058
ADV1015604	5/16/2025	4.108	2/16/2027	105.3766	104.1198909	102.8932432	101.6955865	100.5259004	99.38321194	98.26659288	97.17515714	96.10805841
ADV1015596	5/16/2025	4.16	5/16/2030	120.18208	115.3473773	110.7397446	106.3472846	102.1587891	98.1636928	94.35203281	90.71441125	87.24196023
ADV1016185	6/4/2025	4.008	6/4/2029	115.48318	111.7451884	108.1508745	104.6939186	101.3683158	98.16835778	95.08861629	92.12392799	89.26937983
ADV1016014	5/29/2025	4.387	12/31/2025	100.40201	100.313849	100.2258374	100.1379755	100.0502629	99.96269916	99.87528403	99.78801708	99.70089797
ADV1017757	7/31/2025	4.435	1/30/2026	100.77315	100.6004017	100.4282399	100.2566578	100.0856525	99.91522117	99.74536092	99.5760689	99.40734228
ADV1016732	6/24/2025	3.886	10/24/2028	112.46807	109.4196443	106.4708801	103.6179775	100.8573039	98.18538481	95.59889605	93.09465632	90.66962022
ADV1016663	6/23/2025	3.993	12/23/2026	104.51882	103.4230532	102.3503124	101.2998762	100.2710533	99.26318077	98.27562267	97.30776846	96.35903191
ADV1016192	6/4/2025	4.65	6/4/2035	141.93412	130.947635	120.9474747	111.8385644	103.535505	95.96153775	89.04762756	82.73164826	76.9576574
ADV1016980	7/1/2025	4.042	7/1/2026	102.49689	101.8996956	101.3094594	100.7260636	100.1493898	99.57932219	99.01574775	98.45855591	97.90763865
ADV1017187	7/10/2025	4.22	6/10/2026	102.32707	101.775582	101.2299271	100.6900104	100.1557418	99.62703286	99.10379712	98.58594986	98.0734081
ADV1015266	5/6/2025	3.883	5/1/2028	110.40982	107.8857842	105.4330232	103.0491156	100.7317413	98.47867244	96.28776907	94.15697524	92.08431508
ADV1016340	6/10/2025	4.186	6/10/2030	120.59102	115.6747078	110.9923254	106.5314528	102.2803981	98.22814952	94.36433197	90.67916703	87.16343526
ADV1017652	7/29/2025	4.06	1/29/2027	105.07986	103.8760699	102.6999245	101.5504778	100.4268273	99.3281109	98.25350439	97.20221963	96.17350251

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016791	6/26/2025	3.847	6/28/2027	106.65986	105.039378	103.4517555	101.8960632	100.371405	98.87691804	97.41177125	95.97516381	94.56632374
ADV1015497	5/14/2025	4.171	5/14/2030	118.39977	114.0685095	109.935785	105.9912488	102.2251494	98.62829711	95.19202843	91.90817287	88.76902217
ADV1017408	7/17/2025	4.068	1/19/2027	104.95798	103.7832635	102.6349112	101.5120433	100.4138172	99.33942695	98.28810157	97.25910295	96.25172424
ADV1015786	5/22/2025	4.18	5/22/2026	102.08839	101.6039406	101.1240998	100.6488043	100.1779894	99.71159192	99.24954963	98.79180159	98.33828798
ADV1016218	6/5/2025	3.866	12/6/2027	108.76762	106.6754129	104.6346425	102.6437129	100.7010885	98.80529188	96.9549015	95.14854901	93.38491684
ADV1017384	7/16/2025	3.971	1/19/2027	104.92805	103.7522734	102.6029129	101.4790802	100.3799305	99.3046561	98.25248411	97.22267475	96.21451955
ADV1016078	5/30/2025	4.146	8/31/2026	103.24295	102.4733198	101.7151754	100.9682588	100.2323216	99.50712302	98.79242918	98.08801293	97.39365364
ADV1017197	7/10/2025	4.305	3/10/2026	101.23496	100.9501417	100.6669132	100.3852565	100.1051585	99.82660616	99.54958657	99.27408706	99.00009504
ADV1015874	5/27/2025	4.125	5/28/2030	120.15565	115.2872859	110.6491548	106.2291142	102.0157252	97.99820936	94.16640748	90.51074049	87.02217328
ADV1016862	6/27/2025	4.031	6/29/2026	102.46257	101.871051	101.286363	100.7083888	100.1370133	99.57212378	99.01361031	98.46136533	97.91528368
ADV1016845	6/27/2025	3.853	6/28/2027	106.66902	105.0484646	103.4607728	101.9050119	100.3802859	98.88573179	97.42051865	95.98384561	94.5749407
ADV1015606	5/16/2025	4.099	3/16/2027	105.73019	104.4003735	103.0983747	101.8233221	100.574383	99.35075876	98.15168383	96.97642361	95.82427304
ADV1016833	6/27/2025	4.41	12/3/2025	100.06229	100.053811	100.0453402	100.0368772	100.0284221	100.0199748	100.0115353	100.0031036	99.99467971
ADV1016222	6/5/2025	4.055	6/5/2030	119.92865	115.0421757	110.3878276	105.9533081	101.7270371	97.69810675	93.8562384	90.19174304	86.69548431
ADV1015581	5/16/2025	4.138	5/18/2026	102.0207	101.5475918	101.0788841	100.6145185	100.1544344	99.69857271	99.24687527	98.79928499	98.35574584
ADV1016659	6/23/2025	4.132	6/23/2026	102.41047	101.8363264	101.2686349	100.7072831	100.152165	99.60317704	99.06021786	98.52318843	97.99199184
ADV1015258	7/1/2025	4.033	7/1/2030	120.12362	115.1561334	110.4276061	105.9252171	101.636905	97.55131784	93.65776778	89.9461881	86.40709387
ADV1015992	5/29/2025	4.109	5/1/2030	119.01783	114.4159401	110.0284663	105.8441688	101.8524615	98.04336793	94.40748309	90.93593727	87.62036286
ADV1017015	7/2/2025	4.377	1/2/2026	100.42027	100.3267874	100.2334778	100.1403417	100.0473785	99.95458789	99.86196926	99.76952218	99.67724614
ADV1016522	6/27/2025	4.104	6/27/2030	120.40596	115.4435942	110.7193892	106.2205944	101.9352123	97.85195012	93.96017371	90.24986596	86.71158733
ADV1016182	6/4/2025	4.395	12/4/2025	100.07792	100.0665787	100.0552531	100.0439383	100.0326342	100.021341	100.0100584	99.99878664	99.98752557
ADV1016118	6/3/2025	4.124	4/25/2030	119.78173	115.0164156	110.4723059	106.1379546	102.0025654	98.05595353	94.28850779	90.69115535	87.25532883
ADV1017754	7/31/2025	4.035	7/24/2030	120.37962	115.3404815	110.5464294	105.9841683	101.641197	97.50575895	93.56679347	89.81389069	86.2372494
ADV1016019	5/29/2025	4.167	8/31/2026	103.2591	102.4893998	101.7311886	100.9842056	100.2482027	99.52293905	98.8081807	98.1037005	97.40927784
ADV1017721	7/31/2025	4.241	7/31/2026	102.93299	102.2511221	101.5782935	100.9143246	100.2590412	99.61227377	98.97385697	98.3436298	97.72143536
ADV1016759	6/25/2025	4.224	4/22/2026	101.73619	101.3266999	100.9204492	100.5173955	100.117501	99.72072858	99.32704182	98.93640474	98.54878194
ADV1017089	7/7/2025	4.2	7/7/2026	102.61997	102.0061366	101.3996584	100.8004049	100.2082474	99.62306013	99.04472035	98.47310816	97.90810648
ADV1015462	5/15/2025	4.1	10/25/2027	108.56825	106.5996359	104.6768808	102.7986376	100.9636095	99.17054599	97.41824086	95.70553054	94.03129213
ADV1015263	7/1/2025	4.035	7/1/2030	120.13299	115.1652862	110.4365508	105.9339611	101.6454551	97.55968078	93.66594987	89.95419544	86.41493229
ADV1016341	6/10/2025	4.35	1/12/2026	100.54467	100.4224346	100.3005111	100.1788933	100.0575802	99.93657042	99.8158629	99.69545643	99.57534983
ADV1015383	5/9/2025	4.029	5/9/2030	119.85519	115.0376402	110.4458006	106.0678864	101.8927859	97.91002275	94.10971618	90.48254398	87.01970808
ADV1017035	7/2/2025	3.94	4/2/2027	105.73601	104.3661144	103.0205835	101.6988219	100.4002524	99.12431646	97.87047271	96.63819678	95.42698045
ADV1016100	6/2/2025	4.108	12/2/2026	104.37008	103.334395	102.3193083	101.324206	100.3485016	99.39163144	98.45305336	97.53224601	96.6287076

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1017486	7/22/2025	4.155	7/22/2026	102.76899	102.1128127	101.4650276	100.825478	100.194007	99.57046222	98.95469472	98.34655942	97.74591482
ADV1015864	5/27/2025	4.346	2/27/2026	101.11677	100.8621868	100.6088569	100.3567681	100.1059114	99.85627778	99.60785832	99.36064421	99.11462674
ADV1015785	5/22/2025	4.032	3/29/2027	105.90334	104.5409633	103.2033162	101.8897714	100.5997206	99.33257548	98.08776748	96.86474649	95.66298031
ADV1016774	6/25/2025	4.048	6/25/2026	102.42583	101.8455774	101.2719112	100.7047165	100.143884	99.58930709	99.04088131	98.49850461	97.96207716
ADV1017344	7/15/2025	4.322	4/15/2026	101.68546	101.2968879	100.9112424	100.5284893	100.148596	99.77153043	99.39726107	99.02575676	98.65698685
ADV1016796	6/26/2025	4.091	6/26/2026	102.42177	101.8392496	101.2633568	100.6939834	100.1310192	99.57435621	99.02388898	98.47951441	97.94113164
ADV1017460	7/21/2025	3.89	7/21/2028	111.37828	108.6133508	105.9321377	103.3315704	100.8087145	98.3607637	95.98503258	93.67895096	91.44005782
ADV1015917	5/28/2025	4.088	5/28/2027	106.64391	105.111283	103.6087359	102.1354571	100.6906652	99.27360593	97.88355129	96.51979826	95.18166774
ADV1015774	5/22/2025	4.149	5/22/2029	115.82798	112.120905	108.5549776	105.1240483	101.8222705	98.64408348	95.58419676	92.63757538	89.79942612
ADV1016518	6/27/2025	4.037	6/28/2027	106.96343	105.3404299	103.7503356	102.1922148	100.6651702	99.16833786	97.70088567	96.26201173	94.85094306
ADV1017497	7/22/2025	3.955	7/22/2027	107.04144	105.3530359	103.6997575	102.0805773	100.4945044	98.94058644	97.41790732	95.92558583	94.46277384
ADV1015137	5/1/2025	4.039	5/1/2026	101.74539	101.3207287	100.8996125	100.4819949	100.0678323	99.65708194	99.24970191	98.8456508	98.44488796
ADV1015243	5/6/2025	4.04	8/26/2026	103.10675	102.3516639	101.6076517	100.8744716	100.1518878	99.43967177	98.73760119	98.04546018	97.36303894
ADV1017766	7/31/2025	4.144	11/19/2026	104.23587	103.2374819	102.2582642	101.2976704	100.355172	99.43026044	98.52244615	97.63125749	96.75624007
ADV1016639	6/23/2025	4.586	6/23/2036	145.44859	133.1234551	122.0106677	111.9825597	102.9256027	94.73877154	87.33210621	80.62544523	74.5473104
ADV1017325	7/15/2025	4.125	7/15/2030	120.70876	115.6876717	110.9096178	106.3614745	102.0308989	97.90627961	93.97668929	90.23184041	86.66204411
ADV1016241	7/1/2025	3.987	6/30/2028	111.39248	108.6860187	106.0601479	103.5119659	101.0386986	98.63768965	96.30639513	94.0423775	91.84330063
ADV1017614	7/28/2025	4.068	1/28/2027	105.07599	103.8750605	102.7016495	101.5548157	100.4336627	99.33733394	98.26501068	97.21590981	96.18928196
ADV1016574	6/18/2025	4.394	12/16/2025	100.21946	100.1741369	100.1288692	100.0836596	100.0385082	99.9934147	99.94837906	99.90340116	99.85848088
ADV1016858	6/27/2025	3.855	6/25/2027	106.63519	105.0234475	103.4442885	101.8967973	100.3800891	98.89331188	97.43564489	96.00629696	94.60450532
ADV1016926	7/2/2025	3.908	7/2/2030	119.54851	114.5914064	109.8730506	105.3806235	101.1020644	97.02602271	93.14181215	89.43936811	85.90920803
ADV1017210	7/10/2025	4.104	7/10/2026	102.63992	102.0171036	101.4018598	100.7940537	100.1935507	99.60021958	99.013932	98.43456285	97.86198992
ADV1017071	7/7/2025	3.976	1/8/2029	113.62739	110.3455794	107.1773723	104.1181694	101.1635829	98.30942937	95.55171938	92.88664664	90.31057861
ADV1015634	5/19/2025	4.191	5/20/2030	120.36853	115.5182176	110.8961785	106.4904274	102.2896733	98.28327437	94.46119687	90.81397748	87.3326877
ADV1016470	6/16/2025	4.385	12/16/2025	100.21934	100.1740047	100.1287282	100.0835098	100.0383496	99.99324737	99.948203	99.90321637	99.85828737
ADV1015598	5/16/2025	4.174	9/16/2026	103.46369	102.6483513	101.8458953	101.0560151	100.2784163	99.51281365	98.75893056	98.01649898	97.28525899
ADV1017091	7/7/2025	3.955	7/7/2028	111.38988	108.6638842	106.019513	103.4538108	100.9639504	98.54722612	96.20104716	93.92293221	91.71050384
ADV1017239	7/11/2025	3.966	7/11/2028	111.46593	108.7277348	106.0717875	103.4950951	100.9947997	98.56816586	96.21257557	93.92552154	91.70460198
ADV1016565	6/18/2025	4.051	6/18/2030	120.05702	115.1292176	110.4369715	105.9677263	101.7096617	97.6516479	93.78320168	90.09444522	86.5760678
ADV1017201	7/10/2025	4.091	10/13/2026	103.72669	102.8346174	101.957924	101.0962136	100.249104	99.41622564	98.59722156	97.79174661	96.999467
ADV1017244	7/11/2025	3.997	1/11/2029	113.72851	110.4366582	107.2589804	104.1908436	101.2278288	98.36572376	95.60051147	92.92836014	90.34561327
ADV1015576	5/16/2025	4.282	1/16/2026	100.58877	100.4547806	100.3211589	100.1879011	100.0550056	99.92247091	99.79029554	99.65847796	99.52701669
ADV1015262	5/6/2025	4.311	4/30/2032	128.5339	121.3831918	114.6910051	108.4253578	102.5566594	97.0575219	91.90258553	87.06835824	82.53306927

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015586	5/16/2025	4.221	5/18/2026	102.02671	101.5539719	101.0856308	100.6216232	100.1618891	99.70636947	99.25500633	98.8077428	98.36452304
ADV1016691	6/24/2025	3.834	6/26/2028	111.13109	108.4354399	105.8199164	103.2816486	100.8178844	98.4259881	96.10343521	93.84780652	91.65678314
ADV1015922	5/28/2025	4.049	2/23/2028	109.9757	107.6496075	105.3848607	103.1793834	101.0311866	98.93836549	96.89909517	94.91162649	92.97428219
ADV1016769	6/25/2025	3.838	6/25/2027	106.72306	105.108636	103.5268778	101.9768678	100.4577183	98.96857434	97.50861253	96.07703915	94.67308901
ADV1017658	7/29/2025	4.184	7/29/2026	102.87068	102.1946269	101.5274671	100.8690264	100.2191344	99.57762543	98.9443379	98.31911439	97.70180151
ADV1017426	7/18/2025	4.118	7/20/2026	102.76733	102.1161621	101.4732607	100.8384732	100.2116465	99.5926312	98.98128156	98.37745557	97.78101466
ADV1016248	6/5/2025	4.4	8/13/2032	130.14325	122.6348024	115.6257421	109.0799329	102.9640452	97.24732654	91.90138819	86.90001124	82.21896933
ADV1016882	6/30/2025	3.862	12/31/2026	104.55418	103.4344928	102.3388174	101.2663865	100.2164656	99.18835111	98.18136825	97.19486995	96.22823532
ADV1016892	6/30/2025	3.845	1/10/2029	113.23151	109.9503554	106.7829977	103.7248155	100.7714065	97.91857426	95.16231688	92.49881673	89.92443072
ADV1015246	5/6/2025	4.119	5/6/2026	101.83746	101.3986412	100.9636105	100.5323196	100.1047203	99.68076519	99.26040778	98.84360229	98.43030373
ADV1017142	7/9/2025	4.183	7/9/2026	102.63343	102.0139687	101.4020002	100.7973893	100.2000035	99.60971356	99.02639345	98.44991997	97.88017284
ADV1016238	7/1/2025	3.987	6/30/2028	111.39248	108.6860187	106.0601479	103.5119659	101.0386986	98.63768965	96.30639513	94.0423775	91.84330063
ADV1016703	6/24/2025	4.123	6/24/2026	102.41698	101.8400385	101.269604	100.7055689	100.147826	99.59627012	99.05079869	98.51131126	97.97770961
ADV1015724	5/22/2025	4.091	5/24/2027	106.59956	105.0782379	103.5865759	102.1237756	100.6890713	99.28172385	97.90101952	96.54626901	95.21680631
ADV1016860	6/27/2025	3.816	6/27/2028	110.90303	108.2116296	105.6002373	103.0659775	100.6061022	98.21798014	95.89909054	93.64701803	91.45944735
ADV1016807	6/26/2025	3.906	12/28/2026	104.48744	103.3777715	102.2917095	101.2285075	100.1874485	99.16784545	98.16903941	97.19039815	96.23131487
ADV1016888	6/30/2025	3.82	11/17/2027	108.29648	106.2656108	104.2835434	102.3487981	100.4599527	98.61563755	96.81453339	95.05536886	93.33691858
ADV1015256	5/6/2025	3.881	5/1/2028	110.40489	107.8809208	105.4282196	103.0443706	100.7270537	98.47404102	96.28319261	94.15245256	92.07984507
ADV1017094	7/7/2025	4.274	7/7/2031	125.35352	119.1696265	113.3384547	107.8378956	102.647348	97.74760434	93.12074903	88.75006465	84.61994551
ADV1015593	5/16/2025	4.227	5/18/2026	102.02953	101.5567845	101.0884355	100.6244203	100.1646786	99.70915131	99.25778063	98.81050961	98.3672824
ADV1015766	5/22/2025	4.232	5/22/2030	120.57833	115.7175788	111.085792	106.6709393	102.4616846	98.44734404	94.61784496	90.96368801	87.47591127
ADV1015717	5/21/2025	4.028	5/21/2027	106.57527	105.0606025	103.5753353	102.1186864	100.6898994	99.28824451	97.91301657	96.56353464	95.23914064
ADV1017459	7/21/2025	4.397	1/21/2026	100.65597	100.5087044	100.3618742	100.2154801	100.0695199	99.92399172	99.77889367	99.63422377	99.4899801
ADV1017646	7/29/2025	3.943	1/25/2028	109.37259	107.138113	104.9609643	102.8392661	100.7712147	98.75508012	96.789202	94.87198655	93.00190312
ADV1016188	6/4/2025	4.06	6/4/2030	119.94039	115.0566022	110.4046987	105.972397	101.7481346	97.72102011	93.88078977	90.21776842	86.72283246
ADV1016636	6/23/2025	4.049	12/23/2026	104.57923	103.4831178	102.4100331	101.3592579	100.3301009	99.32189915	98.33401643	97.36584214	96.41678995
ADV1017070	7/7/2025	3.946	7/7/2028	111.36603	108.6403511	105.9962909	103.4308925	100.9413292	98.52489518	96.17900008	93.90116274	91.6890059
ADV1015654	5/19/2025	4.05	7/21/2028	111.80896	109.0382072	106.3513058	103.7451807	101.2168935	98.76363385	96.38271263	94.07155606	91.82769963
ADV1016300	6/9/2025	4.241	6/9/2026	102.30502	101.7702053	101.2409975	100.7173057	100.1990437	99.68612717	99.17847359	98.67600205	98.17863331
ADV1017661	7/30/2025	3.999	7/25/2030	120.21954	115.1812748	110.3882238	105.8270771	101.48532	97.3511835	93.41359598	89.66213742	86.08699746
ADV1016642	6/23/2025	4.731	6/23/2038	152.42819	137.6072691	124.4733297	112.8212339	102.4719612	93.26915202	85.07612638	77.77330864	71.25600115
ADV1015253	5/6/2025	3.88	5/1/2028	110.40243	107.878489	105.4258178	103.0419982	100.72471	98.47172531	96.28090437	94.15019122	92.07761007
ADV1016540	6/17/2025	4.243	6/17/2026	102.40187	101.8444679	101.293146	100.7478083	100.2083574	99.67469808	99.1467373	98.62438389	98.10754863

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1017108	7/7/2025	4.205	7/7/2026	102.62302	102.0091727	101.4026841	100.8034203	100.2112525	99.62605509	99.04770523	98.47608306	97.91107146
ADV1015286	5/7/2025	3.896	4/10/2028	110.1901	107.728877	105.3356387	103.0081337	100.7441953	98.54174112	96.39876884	94.31335301	92.28364151
ADV1015725	5/21/2025	4.181	11/21/2029	118.17163	113.8935659	109.7977871	105.875533	102.1185131	98.51887782	95.06919265	91.76241384	88.59186576
ADV1017274	7/14/2025	4.191	7/15/2026	102.70945	102.0729957	101.4444438	100.8236519	100.2104768	99.60477853	99.00642063	98.41526995	97.83119655
ADV1016254	6/5/2025	4.022	6/7/2027	106.67422	105.113264	103.5833084	102.0835039	100.6130318	99.17110296	97.7569559	96.36985586	95.00909357
ADV1015744	5/21/2025	4.106	11/23/2026	104.32075	103.309598	102.3180946	101.3456669	100.3917675	99.45586992	98.53746741	97.63607207	96.75121402
ADV1016516	6/17/2025	4.384	6/20/2031	125.48404	119.3570843	113.5767566	108.1215035	102.9712236	98.10716458	93.51182558	89.16886712	85.063028
ADV1016000	5/29/2025	4.707	5/29/2035	142.42432	131.4325122	121.4254431	112.3083666	103.9961573	96.41228786	89.4879185	83.16108747	77.37599016
ADV1015997	5/29/2025	4.411	5/14/2032	129.32126	122.1050447	115.3536793	109.0345715	103.1175835	97.57483278	92.38051259	87.5107268	82.94333922
ADV1015255	7/1/2025	4.033	7/1/2030	120.12362	115.1561334	110.4276061	105.9252171	101.636905	97.55131784	93.65776778	89.9461881	86.40709387
ADV1016846	6/27/2025	3.807	6/27/2028	110.87943	108.1883495	105.5772617	103.0432995	100.5837153	98.19587765	95.87726624	93.62546583	91.43816133
ADV1016982	7/1/2025	4.375	1/2/2026	100.42024	100.3267482	100.2334284	100.1402822	100.0473089	99.95450817	99.86187947	99.76942232	99.67713624
ADV1017268	7/14/2025	4.253	5/6/2026	101.916	101.4666742	101.0212363	100.5796388	100.141832	99.70776744	99.2773971	98.85067396	98.42755176
ADV1016002	5/29/2025	4.698	5/29/2035	142.33757	131.3497822	121.3464732	112.2329133	103.9239955	96.34320956	89.42173126	83.09761309	77.31506352
ADV1017095	7/7/2025	4.356	7/7/2032	129.48822	122.1081798	115.2130054	108.7680378	102.7412795	97.10317508	91.82641269	86.88574197	82.25780803
ADV1016183	6/4/2025	3.966	10/4/2028	112.47578	109.4832026	106.5867933	103.7829472	101.0682163	98.43930013	95.89303812	93.42640334	91.03649587
ADV1015594	5/16/2025	4.118	5/16/2029	115.64776	111.9608102	108.413647	105.0002086	101.7147291	98.55172299	95.50597023	92.57250167	89.74658568
ADV1017581	7/25/2025	3.997	7/26/2027	107.24588	105.5432277	103.8761736	102.243671	100.6447095	99.07831851	97.54356463	96.03955027	94.56541178
ADV1017567	7/25/2025	4.381	1/26/2026	100.71504	100.5536209	100.3927157	100.2323249	100.0724459	99.91307621	99.7542135	99.5958553	99.43799921
ADV1017185	7/10/2025	4.272	4/10/2026	101.60594	101.2317567	100.8602911	100.4915091	100.1253819	99.76188055	99.40097695	99.04264318	98.6868518
ADV1016777	6/25/2025	3.853	6/26/2028	110.98851	108.2988517	105.6890734	103.1563154	100.6978363	98.31101057	95.99332334	93.74236454	91.55582389
ADV1017030	7/2/2025	3.871	7/3/2028	111.12187	108.4106254	105.7803329	103.2280685	100.751038	98.34656637	96.01209193	93.74516065	91.54342087
ADV1017650	7/29/2025	4.302	3/30/2026	101.47791	101.1362079	100.7967623	100.4595542	100.1245615	99.7917625	99.46113578	99.13266014	98.80631468
ADV1016045	5/30/2025	4.347	1/30/2026	100.76809	100.5941558	100.4208088	100.2480455	100.075863	99.90425846	99.73322889	99.56277147	99.39288335
ADV1017199	7/10/2025	4.241	5/11/2026	101.97243	101.508396	101.0485128	100.592724	100.1409751	99.69321235	99.24938311	98.8094356	98.37331896
ADV1015872	5/27/2025	4.016	5/30/2028	111.08047	108.4672926	105.9301159	103.4662864	101.0732559	98.74858078	96.4899173	94.29501658	92.16172023
ADV1016392	6/12/2025	3.89	6/12/2028	111.10788	108.4529684	105.8761393	103.374629	100.9457871	98.58707398	96.29605512	94.07039621	91.9078583
ADV1016317	6/9/2025	4.246	6/9/2026	102.30767	101.7728544	101.2436386	100.7199387	100.2016687	99.68874431	99.18108288	98.67860354	98.18122706
ADV1016399	6/12/2025	4.168	7/13/2026	102.67152	102.0407741	101.4177993	100.8024493	100.1945844	99.59406839	99.00076825	98.4145542	97.83529955
ADV1016655	6/23/2025	3.885	6/25/2029	115.55778	111.7500973	108.0907832	104.5732198	101.1911231	97.93852415	94.80975203	91.79941665	88.90239336
ADV1017531	7/23/2025	4.383	1/23/2026	100.67841	100.5254924	100.3730448	100.2210639	100.0695477	99.91849402	99.76790066	99.61776551	99.46808647
ADV1016251	6/5/2025	4.209	6/5/2026	102.24049	101.7170212	101.1989235	100.6861108	100.1785024	99.67601922	99.17858381	98.68612027	98.19855424
ADV1015211	5/5/2025	4.238	2/10/2026	100.88638	100.6804176	100.4752912	100.2709906	100.067511	99.86484734	99.66299462	99.46194795	99.26170246

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1015984	5/29/2025	4.189	5/29/2026	102.17735	101.6731493	101.173929	100.6796144	100.1901335	99.70541552	99.22539115	98.74999243	98.27915266
ADV1016733	6/24/2025	3.903	1/24/2029	113.57626	110.2503019	107.0407662	103.942875	100.9520807	98.06405128	95.27465773	92.57996353	89.97621422
ADV1015603	5/16/2025	4.118	1/19/2027	105.01585	103.8407784	102.69208	101.5688714	100.4703097	99.39558886	98.34393773	97.31461812	96.30692306
ADV1017758	7/31/2025	4.435	1/30/2026	100.77315	100.6004017	100.4282399	100.2566578	100.0856525	99.91522117	99.74536092	99.5760689	99.40734228
ADV1016022	5/29/2025	4.03	8/30/2027	107.73423	105.9308204	104.1665971	102.4403488	100.7509143	99.09718035	97.47807909	95.89258554	94.33971552
ADV1017204	7/10/2025	4.427	12/10/2025	100.14493	100.1166939	100.0884848	100.0603074	100.0321615	100.0040471	99.97596411	99.94791246	99.91989212
ADV1015745	5/21/2025	4.106	11/23/2026	104.32075	103.309598	102.3180946	101.3456669	100.3917675	99.45586992	98.53746741	97.63607207	96.75121402
ADV1016811	6/26/2025	4.23	3/24/2026	101.38607	101.0605703	100.7371313	100.415729	100.0963443	99.77895816	99.46355176	99.1501066	98.83860439
ADV1015599	5/16/2025	4.011	5/17/2027	106.50087	104.9977633	103.5236366	102.0777196	100.6592716	99.26757764	97.90194704	96.56171247	95.24622895
ADV1015658	5/19/2025	4.045	11/26/2027	108.86007	106.79773	104.7855194	102.821903	100.905403	99.03459667	97.2081143	95.42463665	93.68289274
ADV1017092	7/7/2025	4.009	7/9/2029	115.90413	112.0571928	108.3611966	104.8093569	101.3952343	98.11271558	94.95599505	91.91955736	88.99816101
ADV1016366	6/11/2025	3.987	6/11/2027	106.78182	105.2067431	103.663097	102.1500155	100.6666626	99.21223246	97.78594815	96.38705997	95.01484453
ADV1015269	5/6/2025	4.453	5/1/2035	130.16327	122.3103096	115.0826257	108.4241611	102.2842938	96.61727374	91.38172377	86.54019531	82.05877112
ADV1017186	7/10/2025	4.248	5/11/2026	101.97562	101.5115598	101.0516503	100.5958355	100.1440607	99.6962723	99.25241765	98.81244495	98.37630335
ADV1016772	6/25/2025	3.854	5/25/2027	106.36269	104.8387134	103.3445226	101.879322	100.4423407	99.03283446	97.65008486	96.29339808	94.9621038
ADV1016941	6/30/2025	4.387	12/31/2025	100.39669	100.3088673	100.2211901	100.1336621	100.0462827	99.95905172	99.87196872	99.78503336	99.69824526
ADV1015131	5/1/2025	3.81	5/3/2027	105.9344	104.4757604	103.0445318	101.6400072	100.2615027	98.9083576	97.57993296	96.27561092	94.99479379
ADV1015119	5/1/2025	4.022	5/1/2026	101.73819	101.3135494	100.8924512	100.4748514	100.0607066	99.64997396	99.24261151	98.83857787	98.43783239
ADV1016871	6/27/2025	3.766	12/27/2028	113.058	109.8133311	106.6802689	103.6543279	100.7312281	97.90688707	95.17740973	92.53907835	89.98834339
ADV1016714	6/24/2025	3.953	9/24/2026	103.43636	102.5979918	101.7732371	100.9617626	100.1632493	99.37738798	98.60387934	97.84243345	97.09276941
ADV1017495	7/22/2025	3.914	7/24/2028	111.33656	108.5669054	105.8812501	103.2765072	100.7497269	98.29808814	95.91889209	93.60955581	91.36760635
ADV1016327	6/10/2025	4.173	12/10/2026	104.5418	103.4825812	102.4448806	101.4280502	100.431464	99.45452085	98.49664331	97.55727632	96.63588623
ADV1016249	6/5/2025	4.672	6/15/2035	142.24938	131.2155655	121.1747056	112.0308538	103.697851	96.09827645	89.16251903	82.82795087	77.03819277
ADV1017212	7/10/2025	4.424	12/22/2025	100.28974	100.227536	100.1654197	100.1033936	100.0414574	99.97961097	99.91785415	99.85618671	99.79460845
ADV1016808	6/26/2025	3.859	6/26/2029	115.20203	111.4048696	107.755661	104.2478007	100.875023	97.6313771	94.51120885	91.50914417	88.62007357
ADV1015991	5/29/2025	4.007	5/1/2028	110.74368	108.2044381	105.7386112	103.3436351	101.0170512	98.75650226	96.55972715	94.42455655	92.34890845
ADV1016832	6/27/2025	3.751	6/27/2028	110.9247	108.2288951	105.6133067	103.0750519	100.6113732	98.21962986	95.89729263	93.64193791	91.45124267
ADV1017192	7/10/2025	4.431	12/10/2025	100.14507	100.1168262	100.0886167	100.0604389	100.0322925	100.0041776	99.97609413	99.94804202	99.92002121
ADV1017198	7/10/2025	4.266	4/10/2026	101.60372	101.2295561	100.8581068	100.4893412	100.1232301	99.75974489	99.39885724	99.04053933	98.68476368
ADV1015206	5/5/2025	4.044	11/5/2026	103.96704	103.0093289	102.069294	101.1464487	100.2403243	99.35046871	98.4764462	97.61783642	96.77423382
ADV1015260	7/1/2025	4.033	7/1/2030	120.12362	115.1561334	110.4276061	105.9252171	101.636905	97.55131784	93.65776778	89.9461881	86.40709387
ADV1015624	5/19/2025	4.184	5/19/2026	102.05409	101.5780905	101.1065477	100.6393978	100.1765796	99.71803268	99.26369798	98.81351743	98.36743405
ADV1016697	6/24/2025	4.321	1/26/2026	100.71035	100.5483871	100.386945	100.2260188	100.0656062	99.90570472	99.74631182	99.58742512	99.4290422

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016176	6/4/2025	4.396	12/4/2025	100.07793	100.0665966	100.0552709	100.043956	100.0326519	100.0213586	100.010076	99.99880417	99.98754304
ADV1016756	6/25/2025	4.373	12/24/2025	100.3127	100.2447224	100.1768434	100.1090668	100.0413921	99.97381935	99.90634817	99.83897836	99.7717097
ADV1015613	5/16/2025	4.068	1/7/2028	109.42678	107.2416307	105.111611	103.0349526	101.0099539	99.03498109	97.10846467	95.22889638	93.39482639
ADV1017343	7/15/2025	4.267	6/15/2026	102.39107	101.8392752	101.2934386	100.7534686	100.2192706	99.69075222	99.16782305	98.6503945	98.13837991
ADV1015335	5/8/2025	4.101	11/9/2026	104.07093	103.101446	102.1500696	101.2162919	100.2996271	99.39960724	98.51578136	97.64771459	96.79498756
ADV1015600	5/16/2025	4.143	11/16/2026	104.19895	103.2091214	102.2381492	101.2854941	100.3506403	99.43309158	98.53236993	97.64801478	96.77958227
ADV1016236	7/1/2025	3.99	6/30/2028	111.40037	108.6938065	106.0678335	103.5195517	101.0461868	98.64508249	96.31369466	94.04958579	91.85041965
ADV1016021	5/29/2025	4.036	7/29/2027	107.34819	105.6363914	103.9605012	102.3194561	100.7122329	99.13784891	97.59535942	96.08385603	94.60246488
ADV1017577	7/25/2025	4	1/25/2027	105.03999	103.8465133	102.6802147	101.5401759	100.4255163	99.3353942	98.26900497	97.22557871	96.20437858
ADV1016246	7/1/2025	4.108	7/1/2030	120.47493	115.499361	110.7630332	106.2531155	101.9575347	97.8649279	93.96459637	90.24646342	86.70103451
ADV1016689	6/24/2025	3.969	6/25/2029	115.59112	111.7898507	108.1365276	104.6245584	101.2476829	97.99995469	94.87572361	91.86961927	88.97653542
ADV1017451	7/21/2025	3.939	1/21/2027	104.91652	103.7351388	102.5804247	101.4514774	100.3474403	99.26749462	98.21085693	97.17677761	96.16453886
ADV1016868	6/27/2025	3.855	6/28/2027	106.67222	105.0516381	103.4639202	101.9081337	100.3833824	98.8888036	97.42356612	95.98686915	94.57794072
ADV1016894	6/30/2025	3.852	2/14/2029	113.66324	110.2729055	107.0030642	103.8486951	100.805019	97.86748731	95.03176882	92.29373785	89.64946293
ADV1017147	7/9/2025	3.978	7/9/2027	107.00789	105.354072	103.7341901	102.1472667	100.5923614	99.06856937	97.5750199	96.1108745	94.67532552
ADV1016524	6/27/2025	4.055	6/27/2029	115.92776	112.1145745	108.4499128	104.9271523	101.5400018	98.28248639	95.14892906	92.13393422	89.23237199
ADV1015500	5/14/2025	4.306	2/17/2026	100.98538	100.7593619	100.5343401	100.3103101	100.0872651	99.86519864	99.64410431	99.42397565	99.20480628
ADV1017290	7/14/2025	4.224	6/15/2026	102.36751	101.8157893	101.2700265	100.7301296	100.1960043	99.66755803	99.14470039	98.62734284	98.1153987
ADV1015207	5/5/2025	3.969	5/5/2027	106.18784	104.7217841	103.283375	101.8718975	100.4866594	99.12699216	97.7922491	96.48180513	95.1950556
ADV1015587	5/16/2025	4.038	5/16/2028	110.97034	108.3975232	105.8984732	103.4706446	101.1115988	98.81899605	96.59059041	94.42422565	92.31783098
ADV1016269	6/6/2025	4.082	6/6/2029	116.04101	112.280369	108.6645127	105.1870611	101.841952	98.6234233	95.52599631	92.54446022	89.67385736
ADV1016186	6/4/2025	3.95	6/5/2028	110.98924	108.360084	105.807775	103.3296106	100.9230003	98.58546083	96.31461106	94.10816686	91.96393666
ADV1017296	7/15/2025	3.965	7/17/2028	111.53366	108.7778094	106.1051186	103.5125516	100.9972036	98.55629551	96.18716817	93.8872756	91.65417964
ADV1016191	6/4/2025	4.582	6/5/2034	137.93849	128.1951072	119.2476643	111.0261477	103.4670683	96.51282331	90.11112211	84.21447014	78.77970574
ADV1016786	6/26/2025	3.848	6/18/2027	106.53826	104.9471758	103.3880426	101.859967	100.3620907	98.89358654	97.4536575	96.04153484	94.65647709
ADV1015699	5/20/2025	4.337	12/30/2025	100.387	100.3016269	100.2163956	100.1313069	100.0463604	99.96155583	99.87689276	99.79237089	99.70798988
ADV1016072	5/30/2025	4.059	9/30/2026	103.59651	102.7406317	101.8989102	101.0709957	100.2565502	99.4552469	98.66676932	97.89081117	97.12707584
ADV1015181	5/2/2025	4.006	11/2/2026	103.89452	102.9456054	102.0140526	101.0993845	100.2011448	99.31889329	98.45220563	97.60067223	96.7638978
ADV1016981	7/1/2025	3.882	1/4/2027	104.63247	103.501029	102.3940989	101.3108886	100.2506409	99.21263053	98.19616255	97.20057071	96.225216
ADV1017682	7/30/2025	4.193	7/30/2026	102.88856	102.2096589	101.5397193	100.8785685	100.2260344	99.58194912	98.94614937	98.31847592	97.69877364
ADV1015723	5/21/2025	4.077	5/22/2028	111.13976	108.5480798	106.0311603	103.5864043	101.2113256	98.90353921	96.66075645	94.48078073	92.36150304
ADV1016891	6/30/2025	3.811	2/16/2028	109.34914	107.0509906	104.8130722	102.6333622	100.5099209	98.44089061	96.42449053	94.45901328	92.54282102
ADV1017171	7/10/2025	4.106	7/10/2026	102.64116	102.0183348	101.4030867	100.7952763	100.1947692	99.60143382	99.01514211	98.43576885	97.86319185

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016640	6/23/2025	4.655	6/23/2037	148.9236	135.3531946	123.2237636	112.3717224	102.6529689	93.94046538	86.12213321	79.09901761	72.78368576
ADV1017700	7/30/2025	4.021	7/30/2027	107.33513	105.6206976	103.942266	102.2987694	100.6891808	99.11251365	97.56781967	96.0541871	94.57073885
ADV1017762	7/31/2025	4.433	1/30/2026	100.7728	100.6000553	100.4278951	100.2563147	100.0853112	99.91488151	99.74502295	99.57573261	99.40700768
ADV1017612	7/28/2025	4.201	7/28/2026	102.87003	102.1967677	101.5323323	100.8765467	100.2292427	99.59025631	98.95942786	98.33660171	97.72162618
ADV1015208	5/5/2025	4.2	3/10/2026	101.21587	100.9291233	100.6439706	100.3604004	100.0783995	99.79795465	99.51905304	99.24168183	98.96582836
ADV1016098	6/2/2025	4.234	6/2/2026	102.21765	101.7026187	101.1927793	100.6880537	100.1883652	99.69363873	99.2038005	98.71877833	98.23850138
ADV1016712	6/24/2025	3.988	12/24/2026	104.52609	103.4274601	102.351976	101.2989084	100.2675611	99.2572662	98.26738311	97.29729699	96.34641749
ADV1016365	6/11/2025	4.006	6/11/2029	115.8289	112.0573612	108.4315048	104.9448887	101.5913942	98.36520658	95.26079835	92.27291312	89.39655086
ADV1017240	7/11/2025	3.994	7/12/2027	107.07065	105.4080422	103.7796667	102.1845306	100.6216814	99.09020251	97.58921238	96.11786211	94.67533421
ADV1015730	5/21/2025	4.257	5/21/2026	102.07939	101.5981588	101.1214743	100.6492754	100.1814988	99.71808234	99.25896521	98.80408758	98.35339077
ADV1017093	7/7/2025	4.065	7/8/2030	120.34945	115.3567197	110.6049301	106.0811085	101.7730554	97.66929186	93.75901265	90.03204299	86.47879816
ADV1017649	7/29/2025	4.393	1/29/2026	100.75371	100.5838098	100.4144757	100.2457047	100.0774941	99.90984092	99.74274256	99.57619624	99.41019924
ADV1016189	6/4/2025	4.281	6/4/2031	125.04719	118.9693068	113.2335083	107.8186327	102.704941	97.87401145	93.30864438	88.99277516	84.91139336
ADV1017660	7/29/2025	4.463	12/22/2025	100.28912	100.2270476	100.1650638	100.10317	100.041366	99.9796515	99.91802643	99.85649055	99.79504368
ADV1016775	6/25/2025	3.956	12/28/2026	104.54207	103.4320834	102.3457069	101.2821949	100.2408306	99.22092668	98.22182401	97.24289032	96.28351872
ADV1015463	5/15/2025	4.098	5/15/2028	111.10857	108.5367906	106.0386614	103.6116422	101.2533012	98.96130453	96.73341223	94.56747352	92.46142276
ADV1016301	6/9/2025	4.175	12/9/2026	104.53072	103.4743784	102.4394478	101.4252768	100.4312447	99.45675481	98.50123423	97.56413208	96.64491874
ADV1015966	5/29/2025	4.253	5/29/2026	102.17422	101.6704521	101.171654	100.6777521	100.1886747	99.70435113	99.22471244	98.74969083	98.27921984
ADV1016071	5/30/2025	4.014	5/28/2027	106.53175	105.0000198	103.4983497	102.0259315	100.5819842	99.16575418	97.77651378	96.41356044	95.0762155
ADV1017492	7/22/2025	4.223	6/22/2026	102.4504	101.8789165	101.3138188	100.7550021	100.2023621	99.65579649	99.11520537	98.580491	98.05155774
ADV1016519	6/27/2025	3.998	6/27/2028	111.3801	108.6824062	106.064855	103.5245759	101.0588167	98.66494175	96.34042641	94.08285147	91.88989797
ADV1016934	6/30/2025	4.083	6/30/2026	102.46329	101.8694997	101.2825895	100.7024411	100.1289383	99.56196731	99.00141702	98.44717884	97.89914658
ADV1015252	6/2/2025	4.019	5/31/2030	119.70633	114.8396593	110.2036654	105.7861565	101.5756499	97.56132737	93.73299345	90.08103592	86.59638946
ADV1017516	7/23/2025	4.089	7/23/2026	102.78361	102.1240025	101.4728778	100.8300722	100.1954269	99.56878687	98.95000106	98.33892224	97.73540681
ADV1016884	6/30/2025	3.862	12/31/2026	104.55418	103.4344928	102.3388174	101.2663865	100.2164656	99.18835111	98.18136825	97.19486995	96.22823532
ADV1015775	5/22/2025	4.253	5/22/2026	102.08972	101.6056628	101.126212	100.6512977	100.1808556	99.71482241	99.25313634	98.79573659	98.34256352
ADV1016839	6/27/2025	4.103	6/29/2026	102.46348	101.8724733	101.2882828	100.7107936	100.1398911	99.57546282	99.01739919	98.46559294	97.91993923
ADV1016390	6/12/2025	4.29	3/12/2026	101.25996	100.9684771	100.6786514	100.3904668	100.1039093	99.81896506	99.53562044	99.25386187	98.97367597
ADV1017490	7/22/2025	4.297	4/23/2026	101.77347	101.3621191	100.9540399	100.5491929	100.1475399	99.74904304	99.35366523	98.9613699	98.57212109
ADV1016234	7/1/2025	3.99	6/30/2028	111.40037	108.6938065	106.0678335	103.5195517	101.0461868	98.64508249	96.31369466	94.04958579	91.85041965
ADV1016001	5/29/2025	4.187	5/29/2026	102.17635	101.6721517	101.1729343	100.6786226	100.1891446	99.70442941	99.22440785	98.74901192	98.27817493
ADV1016244	7/1/2025	3.988	6/30/2028	111.39511	108.6886146	106.0627098	103.5144945	101.0411946	98.64015393	96.30882831	94.04478027	91.84567364
ADV1017075	7/7/2025	3.989	7/7/2027	107.00138	105.353123	103.7386156	102.1568851	100.6069992	99.08806061	97.59920567	96.13960271	94.70845046

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1017701	7/30/2025	3.977	7/31/2028	111.72967	108.9320646	106.2197937	103.5897044	101.0387814	98.56414169	96.16302843	93.8328039	91.57094363
ADV1016857	6/27/2025	3.846	12/27/2028	113.07718	109.8376842	106.7094952	103.6881437	100.769365	97.94909125	95.22344111	92.58870975	90.04135978
ADV1017123	7/8/2025	4.298	4/8/2026	101.59118	101.2226307	100.8567125	100.4933966	100.1326551	99.77446079	99.41878661	99.06560596	98.71489263
ADV1016847	6/27/2025	3.868	6/27/2029	115.24602	111.445166	107.7924871	104.2813663	100.9055252	97.65900066	94.5361274	91.5315208	88.64006152
ADV1015747	5/21/2025	4.106	11/23/2026	104.32075	103.309598	102.3180946	101.3456669	100.3917675	99.45586992	98.53746741	97.63607207	96.75121402
ADV1017289	7/14/2025	4.274	4/16/2026	101.67951	101.2881364	100.8997306	100.5142587	100.1316876	99.75198451	99.37511714	99.00105373	98.62976297
ADV1015508	5/14/2025	4.179	5/14/2026	101.99125	101.5293654	101.071676	100.6181286	100.168667	99.72323581	99.28178089	98.84424893	98.4105876
ADV1017074	7/7/2025	4.059	1/7/2027	104.78947	103.6497566	102.5348906	101.4440691	100.3765193	99.33150141	98.30830651	97.30625527	96.3246963
ADV1017202	7/10/2025	4.021	3/10/2027	105.55271	104.2378932	102.9523329	101.6950514	100.4651141	99.26162737	98.08373677	96.93062456	95.80150793
ADV1015261	5/6/2025	4.011	4/30/2030	119.32983	114.5597935	110.0119563	105.6747806	101.5373893	97.58952321	93.82150299	90.22419297	86.788968
ADV1017659	7/29/2025	3.959	7/29/2027	107.21832	105.5076534	103.8328759	102.1929233	100.5867733	99.01344339	97.47198958	95.96150392	94.481113
ADV1016424	6/13/2025	4.212	6/15/2026	102.36094	101.8092351	101.2634929	100.7236165	100.1895114	99.66108524	99.13824756	98.62090982	98.10898534
ADV1017090	7/7/2025	3.989	7/7/2027	107.00138	105.353123	103.7386156	102.1568851	100.6069992	99.08806061	97.59920567	96.13960271	94.70845046
ADV1016638	6/23/2025	4.525	6/25/2035	141.7106	130.6328345	120.5568768	111.3855395	103.0315802	95.41663756	88.4702835	82.1291813	76.33633675
ADV1016471	6/16/2025	4.148	6/16/2026	102.37631	101.8212921	101.2723132	100.7292702	100.1920669	99.66060924	99.13480516	98.61456452	98.09979915
ADV1015468	5/13/2025	4.234	5/13/2026	101.97185	101.5131808	101.0586559	100.6082148	100.1618028	99.71936552	99.28085003	98.84620413	98.41537658
ADV1017267	7/14/2025	4.344	2/12/2026	100.92169	100.711525	100.5022367	100.2938146	100.0862532	99.87954731	99.67369148	99.46868045	99.26450895
ADV1016074	5/30/2025	4.01	12/30/2026	104.70409	103.5863532	102.4925221	101.4218356	100.3735643	99.34700906	98.34149959	97.35639293	96.39107208
ADV1017651	7/29/2025	4.202	7/29/2026	102.88273	102.206636	101.5394314	100.8809463	100.2310104	99.58945786	98.95612717	98.33086091	97.71350565
ADV1015873	5/27/2025	4.086	5/29/2029	115.68608	111.9617492	108.3799823	104.9345342	101.6194698	98.42914584	95.3581948	92.40150981	89.5542305
ADV1017530	7/23/2025	3.897	7/23/2027	107.16263	105.4668793	103.8065004	102.1804557	100.587745	99.02740652	97.49851579	96.00018345	94.53155362
ADV1015740	5/21/2025	4.181	5/22/2026	102.08887	101.6044203	101.1245781	100.6492813	100.1784651	99.71206625	99.25002265	98.79227331	98.3387584
ADV1016716	6/24/2025	3.913	12/21/2026	104.48318	103.3921493	102.3239496	101.2778683	100.2532229	99.2493586	98.26564695	97.30148477	96.35629271
ADV1015721	5/22/2025	4.171	11/23/2026	104.31496	103.3048554	102.3143617	101.3429091	100.3899517	99.4549642	98.53744119	97.63689595	96.75285975
ADV1017177	7/10/2025	3.925	7/10/2029	115.88193	112.0253956	108.3204504	104.7602659	101.338365	98.0485994	94.88513073	91.84241296	88.91517591
ADV1016052	5/30/2025	4.064	4/30/2027	106.25965	104.8067313	103.380969	101.9816633	100.6081403	99.25974859	97.93585814	96.63585961	95.35916344
ADV1017120	7/8/2025	3.989	6/16/2028	111.22408	108.5601902	105.9747926	103.4651034	101.0284518	98.66227868	96.36413146	94.13165879	91.96260567
ADV1016593	6/20/2025	4.149	6/22/2026	102.44835	101.8763832	101.3108119	100.7515334	100.1984429	99.65143789	99.11041809	98.57528548	98.04594417
ADV1017119	7/8/2025	4.334	3/9/2026	101.23107	100.9490118	100.6685086	100.3895461	100.1121113	99.83619179	99.561775	99.28884862	99.01740047
ADV1016734	6/24/2025	3.927	6/25/2029	115.43823	111.6397221	107.9890825	104.4797202	101.1053776	97.86011104	94.73827297	91.73449546	88.84367461
ADV1017220	7/10/2025	4.212	6/10/2026	102.32275	101.7713075	101.2256916	100.6858136	100.1515833	99.62291224	99.09971398	98.58190382	98.06939877
ADV1016810	6/26/2025	4.075	6/26/2026	102.41253	101.830031	101.2541685	100.6848252	100.1218908	99.56525731	99.0148194	98.47047391	97.93211999
ADV1016181	6/4/2025	4.203	6/4/2026	102.2255	101.7048667	101.1895434	100.6794477	100.1745002	99.67462329	99.17974069	98.68977775	98.20466129

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1017301	7/14/2025	4.192	7/14/2026	102.69807	102.0644454	101.4386562	100.8205596	100.210014	99.60688141	99.01102706	98.4223195	97.84063042
ADV1016239	7/1/2025	3.987	6/30/2028	111.39248	108.6860187	106.0601479	103.5119659	101.0386986	98.63768965	96.30639513	94.0423775	91.84330063
ADV1017088	7/7/2025	4.196	7/7/2026	102.61753	102.0037077	101.3972378	100.7979926	100.2058433	99.62066416	99.04233244	98.47072825	97.90573449
ADV1017295	7/14/2025	4.057	1/14/2027	104.87916	103.7190759	102.5847241	101.4752536	100.3898511	99.32773844	98.28817075	97.27043459	96.27384641
ADV1017029	7/2/2025	3.899	7/2/2027	106.79566	105.1628994	103.5633884	101.9961752	100.4603482	98.95502943	97.47937386	96.03256725	94.61382492
ADV1016795	6/26/2025	3.856	12/28/2026	104.51022	103.3992638	102.3119625	101.2475643	100.2053507	99.18463258	98.18474948	97.20506758	96.24497858
ADV1016077	5/30/2025	4.309	2/27/2026	101.10686	100.8524357	100.5992634	100.3473314	100.0966307	99.84715234	99.5988874	99.35182707	99.10596262
ADV1016773	6/25/2025	4.124	6/25/2026	102.42905	101.8492863	101.2760985	100.7093701	100.1489925	99.59485903	99.04686574	98.50491084	97.96889481
ADV1015918	5/28/2025	4.33	3/25/2026	101.43562	101.1058907	100.7782569	100.4527027	100.1292082	99.80775402	99.48832077	99.17088943	98.85544118
ADV1015929	5/28/2025	4.346	2/27/2026	101.1166	100.8620499	100.6087496	100.3566902	100.1058628	99.85625834	99.60786789	99.36068267	99.11469394
ADV1016053	5/30/2025	4.004	5/30/2028	111.04981	108.4370174	105.9002252	103.4367709	101.0441065	98.71978876	96.46147424	94.26691435	92.13395099
ADV1015965	5/29/2025	4.13	5/29/2030	120.18985	115.3178568	110.6763894	106.253284	102.0370809	98.01698273	94.18281283	90.5249759	87.03442186
ADV1016853	6/27/2025	3.86	6/28/2027	106.68022	105.059572	103.4717888	101.9159381	100.3911239	98.89648311	97.43118479	95.99442802	94.58544079
ADV1016942	6/30/2025	4.078	6/30/2026	102.46035	101.8665644	101.279664	100.6995253	100.1260321	99.55907066	98.99852985	98.44430106	97.89627811
ADV1016383	6/12/2025	4.328	1/15/2026	100.5784	100.4476518	100.317252	100.1872005	100.0574958	99.92813658	99.79912137	99.67044875	99.54211732
ADV1016265	6/6/2025	4.178	6/6/2030	120.50712	115.6045664	110.9348478	106.4856293	102.2452942	98.20290009	94.34813619	90.6712833	87.16317674
ADV1015804	5/23/2025	4.242	5/26/2026	102.13308	101.6377764	101.1472875	100.6615396	100.1804639	99.70399324	99.23206166	98.7646044	98.30155796
ADV1016851	6/27/2025	3.909	6/27/2030	119.49495	114.553503	109.8494853	105.3701755	101.1036065	97.03851445	93.16429254	89.47094967	85.94907103
ADV1017502	7/22/2025	4.162	7/22/2026	102.77355	102.1173495	101.4695479	100.8299818	100.1984947	99.5749338	98.95915036	98.35099927	97.75033901
ADV1017269	7/14/2025	4.118	9/17/2026	103.43085	102.6128752	101.8078646	101.0155128	100.2355224	99.46760527	98.71148221	97.96688257	97.23354396
ADV1016521	6/27/2025	4.055	6/27/2029	115.92776	112.1145745	108.4499128	104.9271523	101.5400018	98.28248639	95.14892906	92.13393422	89.23237199
ADV1016184	6/4/2025	4.001	6/4/2027	106.60376	105.0518777	103.5307289	102.0394727	100.5773016	99.14343701	97.73712736	96.35764741	95.00429685
ADV1016723	6/25/2025	3.875	9/27/2027	107.80059	105.9169302	104.0756254	102.2754665	100.5152839	98.79394901	97.11037287	95.46350419	93.85232787
ADV1016017	5/29/2025	4.251	5/29/2026	102.17322	101.6694547	101.1706595	100.6767605	100.1876859	99.70336521	99.22372933	98.74871051	98.27824229
ADV1015681	5/20/2025	4.07	5/21/2027	106.53069	105.0181293	103.5349074	102.0802389	100.65337	99.25357286	97.88014455	96.53240609	95.20970132
ADV1016313	6/9/2025	4.387	12/9/2025	100.1368	100.1112967	100.0858206	100.0603724	100.0349519	100.0095591	99.98419403	99.95885656	99.93354667
ADV1015385	5/9/2025	3.931	5/10/2027	106.29741	104.8151062	103.3610279	101.9344404	100.5346305	99.16090927	97.81261107	96.48909237	95.18973097
ADV1016193	6/4/2025	4.77	6/4/2037	149.14851	135.675967	123.6251628	112.8355604	103.1656433	94.49057019	86.70012775	79.69694435	73.39493016
ADV1015393	5/12/2025	4.106	5/12/2027	106.4732	104.9857644	103.526729	102.095348	100.6909019	99.31269614	97.96005922	96.63234229	95.32891798
ADV1015317	5/8/2025	4.08	5/8/2026	101.87522	101.4303607	100.9893989	100.5522823	100.1189605	99.68938405	99.2635045	98.84127406	98.42264582
ADV1017184	7/10/2025	4.311	3/10/2026	101.23666	100.9518304	100.6685908	100.386923	100.106814	99.82825066	99.55122018	99.27570982	99.00170702
ADV1013785	9/30/2025	4.156	9/30/2030	121.71918	116.4506334	111.4467523	106.6928425	102.1750952	97.88053384	93.79695951	89.91290075	86.21756648
ADV1015177	8/4/2025	3.835	8/4/2027	107.0839	105.3579303	103.6684112	102.0142572	100.3944215	98.807899	97.2537239	95.73096786	94.23873815

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1016801	8/21/2025	3.955	8/21/2026	102.98336	102.2426894	101.5126945	100.7931419	100.0838084	99.38447704	98.69493706	98.01498353	97.34441722
ADV1019745	10/16/2025	4.145	1/14/2026	100.52223	100.3962804	100.2706614	100.1453713	100.0204087	99.89577234	99.77146083	99.64747288	99.52380718
ADV1020675	11/28/2025	4.106	12/30/2025	100.33619	100.2527596	100.169465	100.0863097	100.0032935	99.92041586	99.83767657	99.75507528	99.67261164
ADV1020645	11/26/2025	4.13	12/26/2025	100.29346	100.2211609	100.1489746	100.0769011	100.0049401	99.93309136	99.8613546	99.78972957	99.71821601
ADV1020274	11/10/2025	4.004	3/10/2026	101.13073	100.8502615	100.5713575	100.2940013	100.0181799	99.74388058	99.47109064	99.19979756	98.92998897
ADV1020578	11/24/2025	3.803	8/31/2026	102.98266	102.2141266	101.4570655	100.7112203	99.9763431	99.25219325	98.53853704	97.83514753	97.14180427
ADV1020430	11/18/2025	4.127	12/18/2025	100.20446	100.1544044	100.104412	100.0544865	100.004628	99.95483628	99.90511116	99.85545252	99.80586024
ADV1019663	10/14/2025	4.142	1/14/2026	100.52216	100.396187	100.2705404	100.1452227	100.0202326	99.89556874	99.77122984	99.64721457	99.52352162
ADV1017829	8/4/2025	3.905	2/4/2027	104.97667	103.7565527	102.5648545	101.4005881	100.2628132	99.1506324	98.0631881	96.99966085	95.959267
ADV1019879	10/22/2025	4.094	1/22/2026	100.60784	100.4595015	100.311615	100.1641746	100.0171782	99.87062367	99.72450911	99.57883246	99.43359175
ADV1018720	9/11/2025	3.675	9/11/2030	119.15697	114.0060464	109.1122013	104.4611816	100.039607	95.83490804	91.83527281	88.0295966	84.40743572
ADV1018025	8/11/2025	4.057	8/11/2026	102.94171	102.2290994	101.5263754	100.8333319	100.1497696	99.47549444	98.81031779	98.15405605	97.50653054
ADV1020086	10/31/2025	3.964	4/30/2026	101.70284	101.2769226	100.8545417	100.4356543	100.0202172	99.608188	99.19952505	98.79418728	98.39213433
ADV1020641	11/26/2025	4.268	12/10/2025	100.11711	100.0893491	100.061615	100.0339121	100.0062401	99.97859908	99.95098894	99.92340964	99.89586111
ADV1020392	11/17/2025	4.06	2/20/2026	100.9354	100.7059476	100.4775474	100.2501888	100.0238647	99.79856787	99.57429143	99.35102837	99.1287718
ADV1018132	8/14/2025	4.03	8/14/2026	102.95725	102.2362155	101.5252961	100.8242844	100.1329739	99.45116389	98.77865908	98.11526958	97.46081062
ADV1019579	10/8/2025	4.024	2/9/2026	100.80635	100.6070265	100.4084975	100.2107565	100.0137987	99.81761943	99.6222141	99.42757804	99.23370668
ADV1020521	11/21/2025	4.149	12/22/2025	100.25036	100.1891738	100.1280744	100.0670637	100.0061416	99.94530772	99.88456198	99.82390416	99.76333406
ADV1018425	8/26/2025	3.734	6/26/2028	110.6769	107.9913481	105.3855891	102.8567593	100.4021201	98.0190488	95.70503306	93.45766532	91.27463772
ADV1018687	9/5/2025	3.552	9/7/2027	107.10797	105.2853937	103.5028636	101.7591682	100.0531413	98.38366322	96.74965822	95.15009243	93.58397175
ADV1020581	11/24/2025	4.149	12/22/2025	100.24989	100.1887228	100.1276445	100.0666549	100.0057537	99.94494078	99.88421596	99.82357904	99.76302981
ADV1020226	11/6/2025	4.068	2/6/2026	100.77562	100.5853588	100.3958247	100.2070092	100.0189082	99.83151769	99.64483355	99.45885179	99.27356841
ADV1017824	8/4/2025	4.044	8/4/2026	102.85111	102.158398	101.4750253	100.8008058	100.1355562	99.47909821	98.83125822	98.19186715	97.56076033
ADV1020243	11/7/2025	3.976	6/1/2032	126.60724	119.4267685	112.7136585	106.4348517	100.5598005	95.06026226	89.91011406	85.08518289	80.5630906
ADV1018192	8/18/2025	4.153	3/18/2026	101.28111	100.9749291	100.670584	100.3680614	100.0673449	99.76841829	99.47126553	99.17587076	98.88221833
ADV1017792	8/1/2025	3.917	8/1/2030	119.90832	114.8574435	110.0533412	105.4825644	101.132476	96.99119522	93.04754764	89.2910191	85.71171285
ADV1020200	11/5/2025	4.043	3/4/2026	101.07264	100.8089693	100.5466749	100.2857434	100.026164	99.76792637	99.51101996	99.25543451	99.00115982
ADV1020257	11/7/2025	3.811	10/30/2026	103.67569	102.7362973	101.8139439	100.9081662	100.0185202	99.14457743	98.28592462	97.44216279	96.61290678
ADV1020366	11/14/2025	4.123	12/15/2025	100.17116	100.1294365	100.0877661	100.046148	100.0045823	99.96306882	99.92160744	99.88019807	99.83884061
ADV1019963	10/27/2025	3.591	12/31/2027	108.32738	106.1735209	104.0737073	102.0262188	100.0293995	98.08165857	96.18146745	94.32735655	92.51791268
ADV1019821	10/20/2025	3.498	10/20/2027	107.48822	105.5414866	103.6399006	101.7821447	99.96694848	98.19308673	96.45937754	94.76468039	93.10789445
ADV1018784	9/10/2025	3.905	6/10/2026	102.14764	101.6012829	101.060698	100.5257981	99.9964937	99.47269736	98.95432334	98.44128774	97.93350834
ADV1020632	11/25/2025	4.015	2/25/2026	100.98149	100.738173	100.496032	100.2550545	100.0152321	99.77655647	99.53901947	99.30261294	99.06732883

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1017948	8/7/2025	3.967	8/7/2026	102.88117	102.1793309	101.4870828	100.8042296	100.1305806	99.46595052	98.8101587	98.16302945	97.52439168
ADV1019844	10/21/2025	3.579	4/21/2027	105.4612	104.0396483	102.6442599	101.2743744	99.92935196	98.60857359	97.31144041	96.03737288	94.78580999
ADV1018830	9/12/2025	3.968	8/29/2031	123.76618	117.486186	111.572634	106.002058	100.7526221	95.80400125	91.13726812	86.73478892	82.58012799
ADV1020573	11/24/2025	3.947	4/30/2026	101.69199	101.2672077	100.8459519	100.4281803	100.0138498	99.60291811	99.19534372	98.79108565	98.39010365
ADV1018628	9/4/2025	3.764	3/20/2030	117.78102	113.1640482	108.757511	104.5506807	100.5334325	96.69620995	93.02998932	89.52624733	86.17693052
ADV1017929	8/6/2025	4.036	8/6/2026	102.86852	102.1701598	101.4812927	100.8017283	100.1312787	99.46976123	98.81699803	98.1728159	97.53704622
ADV1020648	11/26/2025	4.129	12/26/2025	100.29339	100.2210886	100.1489024	100.0768289	100.004868	99.93301929	99.86128259	99.78965762	99.71814412
ADV1019367	9/30/2025	4.08	1/30/2026	100.70187	100.5305942	100.3599002	100.189781	100.0202336	99.85125533	99.68284326	99.51499457	99.34770647
ADV1020019	10/29/2025	4.14	12/29/2025	100.33244	100.2515201	100.1707285	100.0900698	100.0095437	99.92914985	99.84888798	99.76875776	99.68875888
ADV1020606	11/28/2025	3.691	1/29/2027	104.64383	103.4427829	102.2693336	101.1225402	100.0015014	98.90535616	97.83328131	96.78448972	95.75822827
ADV1017838	8/4/2025	3.782	8/4/2028	111.24876	108.446599	105.7302336	103.096477	100.5422868	98.06475531	95.66110197	93.32866724	91.06490609
ADV1019019	9/18/2025	4.109	12/18/2025	100.21307	100.1626611	100.1123225	100.0620515	100.0118477	99.96171125	99.91164185	99.86163939	99.81170375
ADV1019528	10/6/2025	3.85	10/7/2030	120.28099	115.0274317	110.0392185	105.3015499	100.8005236	96.5230782	92.45693872	88.59056496	84.91310404
ADV1019707	10/15/2025	4.105	10/17/2033	131.88206	123.0574577	114.9099772	107.3836821	100.4275385	93.99496301	88.04341383	82.53402058	77.43125023
ADV1020635	11/25/2025	4.243	12/2/2025	100.02396	100.0184125	100.0128684	100.0073293	100.0017951	99.99626592	99.99074168	99.98522239	99.97970804
ADV1019397	9/30/2025	4.114	12/31/2025	100.35727	100.2704675	100.1838116	100.097303	100.0109414	99.92472647	99.83865779	99.75273502	99.66695781
ADV1019125	9/23/2025	4.057	1/15/2026	100.52615	100.3970831	100.268366	100.1399927	100.0119618	99.88427191	99.75692157	99.62990939	99.50323399
ADV1020236	11/7/2025	4.109	12/8/2025	100.09323	100.0709769	100.0487461	100.026539	100.0043555	99.98219561	99.96005925	99.93794638	99.91585697
ADV1019649	10/14/2025	3.826	7/14/2026	102.46803	101.8352244	101.2102449	100.5929509	99.98320088	99.38085697	98.78578452	98.19785214	97.61693163
ADV1019499	10/3/2025	3.634	4/5/2027	105.45272	104.0748408	102.7216255	101.392469	100.0867838	98.80400093	97.54356961	96.30495617	95.08764359
ADV1020520	11/21/2025	4.094	1/16/2026	100.53342	100.4023975	100.2717326	100.1414235	100.0114687	99.88186681	99.75261622	99.62371552	99.49516324
ADV1020006	10/29/2025	3.648	4/29/2027	105.651	104.2054781	102.7869301	101.394667	100.0280205	98.68634435	97.36901379	96.07542434	94.80499116
ADV1018959	9/17/2025	3.996	2/17/2026	100.89571	100.6732787	100.4518256	100.2313484	100.0118408	99.79329616	99.57570822	99.35907063	99.14337713
ADV1019308	9/29/2025	3.656	9/29/2027	107.55138	105.6619821	103.8152236	102.0098892	100.2448063	98.51884289	96.83090642	95.17994158	93.56492902
ADV1019596	10/9/2025	3.728	4/9/2027	105.53038	104.1421747	102.7789791	101.4401733	100.1251579	98.83335247	97.56419533	96.31714231	95.09166633
ADV1020265	11/10/2025	4.12	12/10/2025	100.11549	100.0876709	100.0598878	100.0321358	100.0044148	99.97672486	99.94906583	99.92143769	99.89384038
ADV1020658	11/26/2025	4.219	12/16/2025	100.18481	100.1403551	100.095962	100.051626	100.0073469	99.96312469	99.91895921	99.87485034	99.83079797
ADV1019422	10/1/2025	3.634	4/1/2027	105.40561	104.0393669	102.6974011	101.3791212	100.0839529	98.81133992	97.56074369	96.33164224	95.12352971
ADV1018612	9/3/2025	4.119	3/3/2026	101.09069	100.8279309	100.5665253	100.3064618	100.0477302	99.7903202	99.53422168	99.27942464	99.02591915
ADV1018657	9/5/2025	3.667	8/28/2030	118.97993	113.8739781	109.0211011	104.4073144	100.0194909	95.84530086	91.87315805	88.09217065	84.49209531
ADV1020631	11/25/2025	4.137	12/26/2025	100.29412	100.2218156	100.1496206	100.0775385	100.0055688	99.93371138	99.86196599	99.79033234	99.71881017
ADV1020435	11/18/2025	4.124	12/19/2025	100.21556	100.1627125	100.1099391	100.057238	100.0046089	99.9520517	99.8995663	99.84715254	99.79481024
ADV1020367	11/14/2025	4.107	1/9/2026	100.45459	100.3430663	100.2318018	100.1207968	100.0100505	99.89956189	99.78933002	99.67935396	99.56963279

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1019044	9/19/2025	3.81	9/21/2026	103.22628	102.398042	101.583113	100.781173	99.99191286	99.21503331	98.45024427	97.69726474	96.95582238
ADV1020204	11/5/2025	3.658	11/5/2027	107.98119	105.9850113	104.0360833	102.1329955	100.2743915	98.45896411	96.68545353	94.95264489	93.2593666
ADV1017784	8/1/2025	4.237	4/1/2026	101.47978	101.1325819	100.7877147	100.4451582	100.1048893	99.76688509	99.43112309	99.09758108	98.76623714
ADV1020050	10/30/2025	4.106	12/30/2025	100.3407	100.2569949	100.1734258	100.0899965	100.0067066	99.92355589	99.84054393	99.75767041	99.67493501
ADV1018004	8/11/2025	3.852	8/12/2030	120.07626	114.9787514	110.131902	105.5219642	101.1360262	96.96195388	92.98833963	89.20445421	85.60020247
ADV1020526	11/21/2025	3.667	5/21/2027	105.9285	104.4206432	102.9420359	101.4919018	100.0694893	98.67407261	97.30495093	95.96144722	94.6429072
ADV1017915	8/6/2025	4.029	8/6/2026	102.86367	102.1653294	101.4764809	100.7969349	100.1265035	99.46500405	98.8122587	98.16809426	97.53234209
ADV1018548	8/29/2025	3.697	8/29/2028	111.28913	108.4166792	105.6339074	102.9374156	100.3239594	97.79044143	95.33390354	92.9515192	90.64058656
ADV1020314	11/12/2025	3.93	5/12/2026	101.82279	101.3631912	100.9077252	100.4563395	100.0089793	99.56559086	99.1261213	98.69051874	98.25873223
ADV1017957	8/7/2025	4.746	12/17/2038	152.80924	137.5333111	124.050067	112.1347809	101.5921973	92.25251921	83.96796165	76.60978752	70.06575634
ADV1018011	8/11/2025	4.358	12/11/2025	100.14924	100.1182971	100.0873918	100.0565219	100.0256875	99.99488832	99.96412444	99.93339576	99.90270222
ADV1020241	11/7/2025	3.58	11/8/2027	107.86172	105.8581938	103.9022902	101.992585	100.1277055	98.30632901	96.5271808	94.78903203	93.09069774
ADV1018676	9/5/2025	3.623	9/7/2027	107.10636	105.2860967	103.5057985	101.7642497	100.0602876	98.39279569	96.76070141	95.16297386	93.59862172
ADV1017878	8/5/2025	3.792	8/4/2028	111.2759	108.4733696	105.7566396	103.1225269	100.5679887	98.090117	95.68613114	93.35337127	91.08929217
ADV1019238	9/26/2025	3.84	9/28/2026	103.32964	102.4813899	101.6470796	100.8263644	100.0189137	99.22440767	98.44253667	97.67300084	96.91550974
ADV1020426	11/18/2025	4.137	12/9/2025	100.10343	100.0784229	100.0534424	100.0284892	100.0035633	99.97866447	99.95379282	99.92894826	99.90413073
ADV1019958	10/27/2025	3.932	3/31/2026	101.3504	101.009947	100.6717609	100.33582	100.0021023	99.67058563	99.34124847	99.01406939	98.6890273
ADV1017893	8/5/2025	4.141	7/25/2031	124.44815	118.249001	112.4061247	106.8970352	101.7007858	96.79785774	92.17005447	87.80040521	83.67307569
ADV1019263	9/26/2025	3.998	3/26/2026	101.31997	100.9925431	100.6672171	100.3439721	100.0227883	99.70364592	99.38652552	99.07140792	98.75827416
ADV1020332	11/13/2025	4.12	12/15/2025	100.17119	100.1294615	100.0877864	100.0461637	100.0045933	99.96307522	99.92160922	99.88019523	99.83883316
ADV1017923	8/6/2025	3.796	5/14/2027	106.1473	104.6551918	103.191705	101.7560826	100.3475969	98.96554502	97.60924807	96.27804987	94.97131612
ADV1018239	8/19/2025	4.189	2/19/2026	100.96728	100.7382229	100.5102054	100.2832162	100.0572483	99.83229488	99.60834901	99.3854039	99.16345281
ADV1018380	8/25/2025	3.79	8/25/2028	111.5046	108.6402731	105.8650779	103.1756424	100.5687525	98.04133958	95.59047202	93.21334834	90.90729013
ADV1020250	11/7/2025	3.588	5/8/2028	109.93958	107.3982089	104.9292465	102.5302143	100.198735	97.93252687	95.72939926	93.58724808	91.50405205
ADV1020044	10/30/2025	4.138	12/11/2025	100.12901	100.098375	100.0677724	100.037205	100.0066726	99.97617513	99.94571262	99.91528498	99.88489212
ADV1020477	11/19/2025	3.797	11/19/2026	103.89608	102.8994339	101.9219416	100.9630511	100.0222345	99.09898362	98.19280931	97.30324034	96.42982273
ADV1018637	9/4/2025	3.68	1/21/2028	108.75524	106.5387361	104.3789301	102.2739653	100.2220653	98.22152548	96.27070986	94.36804754	92.51202957
ADV1019599	10/9/2025	3.837	10/9/2030	120.23627	114.9780972	109.9857978	105.2445197	100.7403194	96.46009819	92.39154636	88.52309208	84.84385338
ADV1019447	10/1/2025	3.604	10/2/2028	111.61776	108.6384397	105.7548863	102.9635167	100.2608984	97.64374541	95.10891131	92.65338237	90.27427129
ADV1020681	11/28/2025	4.104	12/31/2025	100.34722	100.2609931	100.1749162	100.0889856	100.003201	99.91756211	99.83206848	99.74671979	99.66151568
ADV1018836	9/12/2025	3.975	9/12/2031	123.9355	117.6097368	111.6552277	106.0481146	100.7661977	95.78881379	91.09672103	86.67199407	82.49792689
ADV1020402	11/17/2025	4.135	12/15/2025	100.1712	100.1294867	100.0878301	100.046226	100.0046741	99.96317444	99.92172687	99.8803313	99.83898761
ADV1018705	9/8/2025	3.887	6/8/2026	102.11598	101.5753613	101.0403999	100.511005	99.98708995	99.46857003	98.95536216	98.44738499	97.94455881

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1018262	8/20/2025	4.049	8/19/2026	103.02874	102.2934806	101.5687331	100.8542763	100.1498917	99.45536726	98.77049646	98.09507874	97.42891899
ADV1018138	10/1/2025	3.787	10/2/2028	111.93496	108.9558476	106.0723602	103.280923	100.5781122	97.9606501	95.42539802	92.96934948	90.58962404
ADV1020307	11/12/2025	4.035	2/12/2026	100.83787	100.6308625	100.4247145	100.2194197	100.0149727	99.81136837	99.60860135	99.40666644	99.20555847
ADV1019345	9/30/2025	3.717	9/30/2027	107.54228	105.6525645	103.8054996	101.9998789	100.2345332	98.50833363	96.82019024	95.16905	93.55389551
ADV1020652	11/26/2025	3.581	11/27/2028	111.92997	108.7924021	105.7606291	102.8304885	99.99800837	97.25939531	94.61102534	92.04943533	89.5713149
ADV1018084	8/15/2025	4.08	5/15/2026	101.94059	101.4674145	100.9985762	100.5340147	100.0736717	99.61748962	99.16541225	98.71738424	98.27335126
ADV1018272	8/20/2025	4.012	8/20/2026	103.01349	102.2754963	101.5480949	100.8310602	100.1241715	99.42721406	98.73997941	98.06226475	97.39387293
ADV1018492	8/28/2025	4.164	2/27/2026	101.05561	100.8040215	100.5536708	100.3045467	100.0566402	99.80994239	99.56444446	99.32013771	99.07701352
ADV1018091	10/1/2025	3.728	10/2/2028	111.76419	108.7875566	105.9064861	103.1174073	100.4168983	97.80168331	95.26862532	92.81471955	90.43708715
ADV1020608	11/28/2025	3.691	1/29/2027	104.64383	103.4427829	102.2693336	101.1225402	100.0015014	98.90535616	97.83328131	96.78448972	95.75822827
ADV1019979	10/28/2025	4.079	1/28/2026	100.67418	100.5090717	100.3445094	100.1804872	100.0170027	99.85405304	99.69163577	99.52974822	99.36838783
ADV1020374	11/14/2025	3.998	3/12/2032	126.04929	119.1197768	112.6274069	106.5421324	100.8361335	95.48363768	90.46075821	85.74534654	81.31685674
ADV1020037	10/30/2025	4.138	12/11/2025	100.12901	100.098375	100.0677724	100.037205	100.0066726	99.97617513	99.94571262	99.91528498	99.88489212
ADV1018341	8/22/2025	4.286	12/22/2025	100.27357	100.211716	100.1499499	100.0882734	100.0266864	99.96518867	99.90378001	99.84246022	99.78122912
ADV1020089	10/31/2025	3.626	10/29/2027	107.8345	105.8595464	103.9309014	102.0472015	100.2071296	98.40941559	96.65283496	94.93620657	93.25839087
ADV1020313	11/13/2025	3.714	10/5/2029	115.77337	111.6775755	107.7515095	103.9872515	100.3772939	96.91451632	93.59216316	90.40382331	87.34341067
ADV1019600	10/9/2025	4.315	10/10/2034	136.71655	126.6555562	117.447146	109.013769	101.2853307	94.19843732	87.69572271	81.72524694	76.2399573
ADV1020175	11/4/2025	4.172	12/18/2025	100.20895	100.1588084	100.1087333	100.0587253	100.0087843	99.95891017	99.90910279	99.859362	99.80968768
ADV1017982	8/8/2025	3.796	8/8/2029	115.73289	111.7969037	108.0184013	104.3901607	100.9053356	97.55743442	94.34029972	91.24808868	88.2752549
ADV1020108	10/31/2025	4.079	1/30/2026	100.69688	100.5262011	100.356099	100.1865698	100.0176104	99.84921812	99.68139008	99.51412348	99.34741552
ADV1017864	8/5/2025	3.894	2/5/2027	104.97593	103.7529822	102.5585877	101.3917507	100.2515243	99.13700501	98.04732947	96.98167283	95.93924636
ADV1017892	8/5/2025	4.141	7/25/2031	124.44815	118.249001	112.4061247	106.8970352	101.7007858	96.79785774	92.17005447	87.80040521	83.67307569
ADV1020065	10/30/2025	4.054	1/30/2026	100.69277	100.5220824	100.351972	100.1824345	100.0134668	99.84506632	99.67723008	99.5099553	99.34323918
ADV1018604	9/3/2025	4.106	4/3/2026	101.45314	101.1017778	100.7528174	100.4062369	100.0620122	99.72011924	99.38053438	99.04323433	98.70819607
ADV1019532	10/6/2025	4.13	12/29/2025	100.33523	100.2540903	100.1730884	100.0922197	100.011484	99.93088084	99.85041002	99.77007119	99.68986403
ADV1019960	10/27/2025	3.783	8/31/2026	102.96671	102.1982407	101.4412453	100.6954653	99.96065298	99.23656752	98.52297527	97.8196493	97.12636916
ADV1019277	9/29/2025	3.999	3/30/2026	101.36584	101.0271071	100.6906105	100.3563319	100.0242494	99.69434167	99.36658727	99.04096527	98.71745494
ADV1018710	9/8/2025	3.72	9/7/2028	111.45789	108.5573712	105.7480732	103.0265444	100.3894912	97.83376763	95.35636702	92.95441508	90.62516288
ADV1018364	8/25/2025	4.013	8/25/2026	103.0721	102.3199216	101.5787337	100.8482999	100.1283869	99.41876836	98.71922443	98.02954137	97.34951149
ADV1020684	11/28/2025	4.109	12/29/2025	100.32524	100.2445949	100.1640822	100.083702	100.0034539	99.92333765	99.84335289	99.76349932	99.68377662
ADV1019418	10/1/2025	3.596	10/15/2027	107.62322	105.6890105	103.7993627	101.9529854	100.1486326	98.38510227	96.66123444	94.97590963	93.328047
ADV1020144	11/3/2025	3.818	11/1/2030	120.37046	115.0435964	109.989217	105.1919314	100.6372934	96.3117425	92.20254475	88.29773828	84.58608259
ADV1018450	8/27/2025	3.712	8/27/2029	115.62247	111.6346375	107.8082268	104.1357433	100.6100916	97.22454878	93.97274254	90.84863028	87.84647982

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1019319	9/29/2025	3.66	9/29/2027	107.55882	105.6693554	103.8225271	102.0171241	100.2519738	98.52594441	96.83794308	95.18691454	93.57183943
ADV1019959	10/27/2025	3.906	4/30/2026	101.67905	101.2530687	100.8306288	100.4116829	99.99618778	99.58410108	99.17538108	98.76998672	98.36787764
ADV1020656	11/26/2025	4.026	2/26/2026	100.99554	100.7494286	100.5045128	100.2607854	100.0182378	99.77686142	99.53664787	99.29758876	99.05967579
ADV1019171	9/24/2025	4.11	12/24/2025	100.27942	100.2122142	100.1451135	100.078114	100.0112153	99.94441721	99.8777196	99.81112221	99.7446248
ADV1018677	9/5/2025	3.624	9/7/2027	107.10815	105.2878793	103.5075648	101.766	100.0620221	98.39451471	96.76240524	95.16466275	93.60029595
ADV1019455	10/1/2025	3.648	10/1/2027	107.42893	105.5375839	103.6889873	101.8819277	100.1152319	98.38776724	96.69843969	95.04619267	93.43000535
ADV1020616	11/25/2025	3.508	11/27/2028	111.93155	108.7887272	105.7519905	102.8171609	99.98025186	97.23745625	94.58513719	92.01981934	89.53818082
ADV1020537	11/21/2025	3.946	5/21/2026	101.93138	101.4464273	100.9660725	100.4902528	100.0189039	99.55196319	99.08936883	98.6310603	98.17697819
ADV1019299	9/29/2025	4.032	9/28/2035	121.99777	116.1403224	110.6794151	105.5836148	100.8242548	96.37516965	92.2124587	88.31427343	84.66062612
ADV1019805	10/20/2025	4.142	1/20/2026	100.59177	100.4490123	100.3066711	100.1647457	100.0232343	99.88213512	99.74144628	99.60116596	99.46129235
ADV1020142	11/3/2025	4.173	12/2/2025	100.02705	100.0214886	100.0159304	100.0103772	100.0048291	99.99928584	99.9937476	99.98821432	99.982686
ADV1018273	8/20/2025	3.893	2/22/2027	105.18635	103.9138894	102.6722835	101.4604143	100.2772215	99.12169504	97.99287163	96.88983232	95.81169991
ADV1017868	8/5/2025	4.278	8/5/2033	132.62086	123.9793914	115.9853504	108.5863424	101.7344936	95.38603546	89.5009313	84.04253935	78.97730767
ADV1020609	11/28/2025	3.691	1/29/2027	104.64383	103.4427829	102.2693336	101.1225402	100.0015014	98.90535616	97.83328131	96.78448972	95.75822827
ADV1018284	8/20/2025	4.248	1/20/2026	100.6168	100.4729887	100.3295954	100.1866211	100.0440639	99.90192186	99.76019324	99.61887616	99.47796878
ADV1018092	10/1/2025	3.795	10/1/2029	116.05014	111.9602978	108.0394363	104.2796962	100.6736224	97.21414282	93.89454703	90.70846568	87.6498515
ADV1020038	10/30/2025	4.138	12/11/2025	100.12901	100.098375	100.0677724	100.037205	100.0066726	99.97617513	99.94571262	99.91528498	99.88489212
ADV1020432	11/18/2025	4.136	12/2/2025	100.02445	100.0188947	100.0133463	100.0078028	100.0022643	99.99673078	99.99120222	99.98567861	99.98015995
ADV1020375	11/14/2025	4.068	11/12/2032	128.66621	120.9428541	113.7514282	107.0522613	100.8088447	94.98756267	89.5574492	84.48996599	79.75880052
ADV1020310	11/12/2025	4.123	12/12/2025	100.13774	100.1043675	100.0710306	100.0377328	100.0044742	99.97125456	99.93807389	99.90493209	99.87182911
ADV1019305	9/29/2025	4.138	12/29/2025	100.33698	100.2557826	100.1747146	100.09378	100.0129784	99.93230954	99.8517731	99.77136876	99.6910962
ADV1020109	10/31/2025	4.07	2/2/2026	100.73024	100.5511249	100.3726416	100.1947903	100.0175676	99.84097033	99.66499505	99.48963853	99.31489751
ADV1019281	9/29/2025	4.14	12/29/2025	100.33715	100.255948	100.1748796	100.0939446	100.0131426	99.93247332	99.85193648	99.77153173	99.69125877
ADV1018000	8/8/2025	3.862	8/8/2030	120.08244	114.9962833	110.1597334	105.5591297	101.1816379	97.0151953	93.04845961	89.27076179	85.67206206
ADV1020248	11/7/2025	3.859	7/31/2026	102.67829	101.9974017	101.3255402	100.662529	100.008194	99.36236584	98.72487931	98.09557355	97.47429182
ADV1020394	11/17/2025	4.129	12/17/2025	100.19346	100.1461827	100.0989655	100.0518103	100.0047169	99.95768534	99.9107154	99.86380697	99.81695992
ADV1018342	8/22/2025	4.165	2/23/2026	101.00906	100.7687107	100.5294967	100.2914091	100.0544399	99.8185812	99.58382523	99.35016425	99.11759059
ADV1020088	10/31/2025	3.678	4/30/2027	105.80842	104.3572263	102.9331862	101.5355984	100.1637884	98.81710467	97.49491695	96.19661574	94.92161132
ADV1020121	10/31/2025	4.032	2/27/2026	101.0126	100.7629415	100.5145127	100.267301	100.0212976	99.7764935	99.53288014	99.29044881	99.04919097
ADV1018236	8/19/2025	3.744	8/21/2028	111.53647	108.6783623	105.909003	103.2250438	100.623292	98.10069847	95.65435018	93.2814629	90.97937442
ADV1020046	10/30/2025	4.138	12/11/2025	100.12901	100.098375	100.0677724	100.037205	100.0066726	99.97617513	99.94571262	99.91528498	99.88489212
ADV1020249	11/7/2025	3.859	7/31/2026	102.67829	101.9974017	101.3255402	100.662529	100.008194	99.36236584	98.72487931	98.09557355	97.47429182
ADV1018451	8/27/2025	3.712	8/27/2029	115.62247	111.6346375	107.8082268	104.1357433	100.6100916	97.22454878	93.97274254	90.84863028	87.84647982

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1018654	9/5/2025	4.235	12/5/2025	100.07162	100.0576143	100.043619	100.0296374	100.0156696	100.0017155	99.98777497	99.97384813	99.95993492
ADV1018026	8/11/2025	3.877	8/11/2027	107.2381	105.4914885	103.7820508	102.1086679	100.470263	98.86580235	97.29429324	95.75478182	94.24635119
ADV1020062	10/30/2025	3.773	10/30/2026	103.7027	102.7622318	101.8388374	100.9320509	100.0414271	99.16653623	98.306964	97.46231039	96.63218921
ADV1020655	11/26/2025	4.274	12/3/2025	100.03564	100.0273168	100.019001	100.0106928	100.0023923	99.99409955	99.98581442	99.97753694	99.9692671
ADV1020152	11/3/2025	4.152	12/16/2025	100.18544	100.1408762	100.0963673	100.0519156	100.007521	99.96318334	99.9189026	99.87467864	99.83051133
ADV1018419	8/26/2025	3.775	8/26/2030	119.84856	114.7162417	109.8381009	105.2000979	100.7890546	96.59259287	92.59908071	88.79758301	85.17781548
ADV1020615	11/25/2025	4.136	12/26/2025	100.29405	100.2217433	100.1495484	100.0774662	100.0054966	99.93363929	99.86189395	99.79026036	99.71873826
ADV1018735	9/9/2025	3.618	9/9/2027	107.11977	105.2936862	103.5077925	101.7608759	100.0517737	98.37936848	96.74258663	95.14039558	93.5718021
ADV1020309	11/12/2025	4.035	2/12/2026	100.83787	100.6308625	100.4247145	100.2194197	100.0149727	99.81136837	99.60860135	99.40666644	99.20555847
ADV1017798	8/1/2025	3.922	2/1/2027	104.95947	103.7479695	102.5644838	101.4080519	100.2777531	99.17270799	98.09207643	97.03505508	96.00087555
ADV1019343	9/30/2025	3.749	3/31/2027	105.44866	104.086432	102.7483473	101.433815	100.1422658	98.87314783	97.62592682	96.4000849	95.19512018
ADV1019632	10/10/2025	4.103	1/13/2026	100.50619	100.3829832	100.2600903	100.1375125	100.0152484	99.89329693	99.77165672	99.65032658	99.52930527
ADV1020628	11/25/2025	3.913	5/26/2026	101.97147	101.4724777	100.9783526	100.4890197	100.0044096	99.52445415	99.04908664	98.57824147	98.11185435
ADV1018699	9/8/2025	3.776	9/9/2026	103.06536	102.2713359	101.4895662	100.7197638	99.96165517	99.21497489	98.47946563	97.75487775	97.04096896
ADV1020525	11/21/2025	3.901	6/22/2026	102.2678	101.6969031	101.1323941	100.5741614	100.0221007	99.47610987	98.93608898	98.40194037	97.87356847
ADV1018679	9/5/2025	3.588	9/5/2028	111.06363	108.1744534	105.3760271	102.6649138	100.037833	97.49165201	95.02337726	92.63014759	90.30922709
ADV1018680	9/5/2025	3.65	9/5/2029	115.20041	111.2023792	107.3669883	103.6866776	100.1542848	96.76302284	93.50645784	90.37848837	87.37332601
ADV1018276	8/20/2025	4.175	2/20/2026	100.97588	100.7440164	100.5132152	100.2834666	100.0547632	99.82709803	99.60046391	99.37485383	99.15026082
ADV1018339	8/22/2025	3.799	8/22/2030	119.92386	114.8012287	109.9317732	105.3015405	100.8974287	96.70712907	92.71907373	88.92238626	85.30683629
ADV1019955	10/27/2025	3.737	10/27/2026	103.57005	102.6395687	101.7258249	100.8283663	99.94676012	99.08058862	98.22944874	97.39295136	96.57072065
ADV1020054	10/30/2025	4.138	12/10/2025	100.11773	100.0898785	100.06206	100.0342726	100.0065163	99.978791	99.95109671	99.92343335	99.89580085
ADV1020277	11/10/2025	3.83	11/10/2028	112.49742	109.4002013	106.4057617	103.5101269	100.7094959	98.00023547	95.37887234	92.84208476	90.38669517
ADV1018347	8/26/2025	3.74	8/15/2028	111.25371	108.4207961	105.6753755	103.0141656	100.4340361	97.93199667	95.50518954	93.15088239	90.86646189
ADV1018951	9/17/2025	3.585	9/18/2028	111.19579	108.2673578	105.4319129	102.6859563	100.026147	97.44929017	94.95232936	92.53233987	90.18652198
ADV1019522	10/6/2025	3.797	9/8/2026	103.07061	102.2793574	101.5002655	100.7330577	99.97746329	99.2332197	98.50007222	97.77777373	97.06608439
ADV1020315	11/12/2025	3.774	11/12/2026	103.79254	102.8160771	101.8580133	100.9178329	99.99503771	99.08914832	98.19970259	97.32625518	96.4683767
ADV1020043	10/30/2025	4.058	1/27/2026	100.65887	100.4966281	100.3349082	100.1737122	100.0130376	99.85288194	99.69324261	99.53411714	99.37550305
ADV1019662	10/14/2025	3.698	11/16/2026	103.76472	102.777192	101.8084826	100.8580601	99.9254096	99.01003541	98.11146011	97.22922378	96.36288316
ADV1019668	10/14/2025	3.594	10/14/2027	107.46916	105.5416414	103.6584418	101.8182759	100.0199072	98.26214267	96.54383088	94.86386051	93.2211585
ADV1017821	8/4/2025	3.966	8/4/2026	102.84579	102.152473	101.4685131	100.7937228	100.1279183	99.47092082	98.8225563	98.18265519	97.55105236
ADV1020693	11/28/2025	4.108	12/30/2025	100.33636	100.2529263	100.1696315	100.0864761	100.0034597	99.92058193	99.8378425	99.75524106	99.67277727
ADV1020199	11/5/2025	3.976	5/5/2026	101.76446	101.3244493	100.8882217	100.4557301	100.0269264	99.60176382	99.18019593	98.76217731	98.34766325
ADV1020251	11/7/2025	3.859	7/31/2026	102.67829	101.9974017	101.3255402	100.662529	100.008194	99.36236584	98.72487931	98.09557355	97.47429182

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020026	10/29/2025	4.222	12/11/2025	100.13184	100.1011943	100.0705852	100.0400112	100.0094723	99.9789683	99.94849927	99.9180651	99.88766573
ADV1020642	11/26/2025	4.131	12/22/2025	100.24847	100.1873203	100.1262568	100.065282	100.0043956	99.94359742	99.88288734	99.82226513	99.7617306
ADV1019598	10/9/2025	3.709	10/10/2028	111.795	108.7955754	105.8931205	103.0839775	100.3646514	97.73179711	95.18221272	92.71283215	90.32071874
ADV1019241	9/26/2025	3.901	6/26/2026	102.31194	101.7297793	101.1542461	100.5852294	100.0226189	99.46630685	98.91618773	98.37215849	97.83411832
ADV1018668	9/5/2025	3.682	3/5/2027	105.05603	103.7560546	102.4865011	101.2463024	100.0344414	98.84994744	97.69189405	96.55939645	95.4516091
ADV1020246	11/7/2025	4.313	11/6/2035	139.9272	128.5882587	118.3097633	108.9855631	100.5206933	92.8301411	85.83775539	79.47528027	73.68149873
ADV1018137	10/1/2025	3.787	10/2/2028	111.93496	108.9558476	106.0723602	103.280923	100.5781122	97.9606501	95.42539802	92.96934948	90.58962404
ADV1020586	11/24/2025	4.143	12/23/2025	100.26082	100.1968668	100.133008	100.0692436	100.0055735	99.94199743	99.8785152	99.8151266	99.75183143
ADV1019155	9/24/2025	4.104	12/24/2025	100.279	100.2118	100.1447003	100.0777018	100.0108041	99.94400702	99.87731041	99.81071402	99.74421761
ADV1018700	9/8/2025	3.888	6/8/2026	102.11651	101.5758886	101.0409233	100.5115245	99.98760559	99.46908185	98.9558702	98.44788928	97.9450594
ADV1018659	9/5/2025	3.59	9/7/2027	107.04698	105.2272692	103.4475107	101.7064916	100.0030494	98.33606813	96.70447531	95.10724031	93.54337209
ADV1020440	11/18/2025	3.725	11/18/2026	103.88311	102.8883435	101.9126576	100.9555038	100.0163571	99.09471222	98.19008261	97.30199966	96.43001183
ADV1020134	10/31/2025	4.161	12/4/2025	100.05015	100.0390128	100.0278911	100.01678	100.0056796	99.99458968	99.98351034	99.97244155	99.96138327
ADV1017830	8/4/2025	4.11	6/4/2026	102.19303	101.6610711	101.1345545	100.6133977	100.0975194	99.58683954	99.08128001	98.58076407	98.08521658
ADV1018803	9/11/2025	4.17	12/11/2025	100.13779	100.1069783	100.0762017	100.0454605	100.0147545	99.98408366	99.95344795	99.9228473	99.89228164
ADV1018675	9/5/2025	3.712	3/5/2027	105.09443	103.7941982	102.5243895	101.28394	100.0718323	98.8870957	97.72880367	96.59607129	95.48805291
ADV1020618	11/25/2025	3.581	11/27/2028	111.92997	108.7924021	105.7606291	102.8304885	99.99800837	97.25939531	94.61102534	92.04943533	89.5713149
ADV1020052	10/30/2025	4.156	12/2/2025	100.02757	100.0220066	100.0164459	100.0108903	100.0053396	99.99979391	99.9942532	99.98871745	99.98318666
ADV1018865	9/15/2025	3.787	9/15/2026	103.1405	102.3293892	101.5310544	100.7451951	99.97152025	99.20974755	98.45960351	97.72082294	96.99314866
ADV1018738	9/9/2025	3.64	9/9/2027	107.15947	105.3330219	103.5467661	101.7994943	100.0900432	98.41729551	96.78017729	95.17765587	93.60873782
ADV1020316	11/12/2025	3.672	11/12/2027	107.94616	105.9330473	103.9679962	102.0495639	100.1763587	98.34703981	96.56031559	94.81494087	93.10971522
ADV1018087	8/13/2025	3.756	8/14/2028	111.28823	108.4576057	105.7143309	103.0551316	100.4768851	97.97660837	95.55145034	93.19868505	90.91570516
ADV1018458	8/27/2025	3.837	2/26/2027	105.16514	103.8815254	102.6293013	101.4073239	100.2145059	99.04981179	97.91225454	96.80089284	95.71482848
ADV1019725	10/15/2025	4.216	12/15/2025	100.17989	100.1380203	100.0962006	100.0544335	100.012719	99.97105686	99.92944702	99.88788937	99.84638382
ADV1018165	8/15/2025	4.039	8/14/2026	102.96369	102.2426222	101.5316775	100.8306407	100.1393054	99.45747073	98.78494157	98.12152795	97.4670451
ADV1020564	11/24/2025	4.154	12/23/2025	100.26153	100.1975715	100.1337121	100.0699472	100.0062765	99.94269986	99.87921707	99.81582791	99.75253218
ADV1020493	11/20/2025	4.138	12/22/2025	100.24984	100.1886483	100.1275425	100.0665255	100.0055969	99.94475665	99.88400452	99.82334032	99.76276386
ADV1020223	11/6/2025	3.719	5/6/2027	105.83631	104.3701831	102.9317577	101.5203163	100.1351644	98.77563067	97.44106647	96.13084451	94.84435808
ADV1020390	11/17/2025	4.132	12/15/2025	100.17107	100.1293603	100.0877039	100.0460998	100.004548	99.96304845	99.92160098	99.8802055	99.83886191
ADV1019988	10/28/2025	3.638	8/1/2029	114.77954	110.8884424	107.1523777	103.5642733	100.1174194	96.80545216	93.6223332	90.56233115	87.62000389
ADV1017930	8/6/2025	3.909	2/8/2027	105.03143	103.7996343	102.5967894	101.4218855	100.2739561	99.15207885	98.05537319	96.98299776	95.9341484
ADV1018202	8/18/2025	3.963	9/3/2030	120.47698	115.3179474	110.4149121	105.7537123	101.3210559	97.1044581	93.09218739	89.27321536	85.63717053
ADV1018953	9/17/2025	3.995	2/18/2026	100.90696	100.6816858	100.457421	100.2341562	100.0118846	99.79059957	99.57029451	99.35096287	99.13259817

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020673	11/28/2025	4.015	2/27/2026	101.00406	100.7551896	100.5075402	100.261104	100.0158723	99.77183628	99.52898716	99.28731639	99.04681541
ADV1017810	8/1/2025	3.852	4/21/2027	105.84933	104.4249775	103.0268367	101.6542436	100.306557	98.98315678	97.68344315	96.40683552	95.1527719
ADV1017870	8/5/2025	4.058	8/5/2031	124.3926	118.1524505	112.2729327	106.7311605	101.5058277	96.57708855	91.92644871	87.53666634	83.39166027
ADV1017839	8/4/2025	4.261	2/4/2026	100.80312	100.6163702	100.4303088	100.2449299	100.0602298	99.87620478	99.69285109	99.51016504	99.32814299
ADV1018536	11/28/2025	3.808	11/30/2026	104.0352	103.0069698	101.999083	101.0109394	100.0419628	99.09159913	98.15931552	97.24459933	96.3469571
ADV1019193	9/25/2025	3.866	6/25/2026	102.28062	101.7013496	101.1286454	100.5623968	100.002495	99.44883355	98.90130854	98.35981821	97.82426308
ADV1018681	9/5/2025	3.69	9/5/2030	119.17107	114.0373855	109.1591224	104.5221346	100.1131439	95.91967867	91.9300195	88.13314968	84.51870882
ADV1020406	11/17/2025	4.065	2/18/2026	100.91322	100.6894108	100.4665988	100.2447802	100.0239485	99.80409687	99.5852189	99.36730804	99.15035785
ADV1017788	8/1/2025	3.863	8/2/2027	107.10824	105.3875723	103.7031632	102.0539336	100.4388453	98.85690072	97.30714164	95.78864667	94.30052965
ADV1020612	11/25/2025	4.235	12/2/2025	100.02392	100.0183666	100.0128225	100.0072833	100.0017492	99.99621999	99.99069576	99.98517648	99.97966214
ADV1018125	8/14/2025	3.952	8/14/2026	102.95175	102.2300715	101.5185359	100.8169256	100.1250338	99.44265891	98.76960533	98.10568261	97.45070548
ADV1018311	8/21/2025	3.92	8/21/2029	116.06389	112.0922639	108.2805557	104.6213776	101.1077325	97.73298937	94.49086075	91.37538307	88.38089755
ADV1018042	8/12/2025	4.242	2/12/2026	100.89548	100.686139	100.477671	100.2700659	100.0633182	99.85742255	99.65237366	99.44816625	99.24479509
ADV1018496	8/28/2025	4.063	6/29/2026	102.44003	101.8490999	101.264987	100.6875749	100.1167486	99.55239611	98.9944076	98.44267585	97.89709606
ADV1017863	8/5/2025	4.033	8/5/2026	102.85515	102.1596297	101.473526	100.7966501	100.1288163	99.46984431	98.81955828	98.1777871	97.54436413
ADV1018179	8/15/2025	3.877	8/16/2027	107.29726	105.5363575	103.8131429	102.1264718	100.4752459	98.85841091	97.27495499	95.72390607	94.20433002
ADV1017895	8/5/2025	4.145	8/1/2031	124.53825	118.3165379	112.4533908	106.9261086	101.7135564	96.79604395	92.15521904	87.77396905	83.63633066
ADV1018843	9/12/2025	4.18	12/12/2025	100.14937	100.115754	100.0821801	100.0486458	100.0151508	99.98169512	99.94827867	99.91490138	99.88156317
ADV1020532	11/21/2025	4.192	12/5/2025	100.05861	100.0447291	100.0308595	100.0170035	100.003161	99.98933218	99.97551686	99.96171507	99.94792678
ADV1020687	11/28/2025	4.108	12/29/2025	100.32516	100.2445144	100.1640018	100.0836216	100.0033736	99.92325737	99.84327268	99.76341917	99.68369655
ADV1018717	11/3/2025	3.552	11/1/2028	111.56748	108.5101085	105.5534776	102.6937235	99.92714826	97.25021632	94.65954607	92.15190231	89.72418909
ADV1018703	9/8/2025	4.009	3/9/2026	101.13031	100.8507456	100.5727241	100.2962296	100.0212494	99.74777098	99.47578203	99.20527032	98.93622374
ADV1019452	10/1/2025	4.09	1/2/2026	100.37822	100.2858175	100.1935853	100.1015247	100.009635	99.91791582	99.82636668	99.7349871	99.6437766
ADV1020362	11/14/2025	4.042	2/17/2026	100.89697	100.6759166	100.4558389	100.2367312	100.0185869	99.80139972	99.58516325	99.36987122	99.15551742
ADV1019047	9/19/2025	4.109	12/11/2025	100.13449	100.1037129	100.0729688	100.04226	100.0115865	99.98094803	99.95034468	99.91977635	99.88924297
ADV1018089	8/13/2025	4.086	5/13/2026	101.91991	101.4524004	100.9891283	100.5300317	100.0750545	99.62414105	99.17723716	98.73428935	98.29524518
ADV1019546	10/7/2025	3.711	4/7/2027	105.48339	104.101173	102.7437679	101.410562	100.1009625	98.81439569	97.55030603	96.30815536	95.08742233
ADV1019437	10/1/2025	3.671	9/7/2027	107.19327	105.3722356	103.5911783	101.8488837	100.1441889	98.47597697	96.84317497	95.24475165	93.67971538
ADV1019161	9/24/2025	3.831	7/28/2026	102.624	101.9516583	101.2881293	100.6332414	99.98682672	99.34872137	98.71876578	98.09680446	97.48268583
ADV1017883	8/5/2025	3.908	2/5/2027	104.99276	103.7697037	102.5752037	101.4082627	100.2679341	99.15331414	98.06353953	96.99778534	95.95526281
ADV1019101	9/22/2025	3.813	9/22/2026	103.23963	102.4085321	101.5908346	100.7862124	99.99435347	99.2149554	98.44772542	97.69237985	96.94864377
ADV1019385	9/30/2025	3.738	9/29/2028	106.08756	104.5520485	103.0539483	101.5920394	100.1651501	98.77215606	97.41197809	96.08358005	94.7859667
ADV1017869	8/5/2025	4.162	8/5/2032	128.44061	121.0117526	114.0766175	107.5995363	101.5476064	95.89046348	90.60007284	85.65053791	81.01792638

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020429	11/18/2025	4.127	12/18/2025	100.20446	100.1544044	100.104412	100.0544865	100.004628	99.95483628	99.90511116	99.85545252	99.80586024
ADV1020335	11/13/2025	3.965	4/29/2026	101.68983	101.2673665	100.8483882	100.4328547	100.0207235	99.61195324	99.2065029	98.80433224	98.40540167
ADV1019987	10/28/2025	4.16	12/12/2025	100.14137	100.1079375	100.074542	100.0411857	100.0078686	99.97459053	99.94135153	99.90815147	99.87499028
ADV1019202	9/25/2025	4.121	12/26/2025	100.30249	100.2296826	100.1569862	100.0844035	100.011934	99.93957764	99.86733402	99.79520293	99.72318409
ADV1019325	9/29/2025	4.139	12/29/2025	100.33707	100.2558653	100.1747971	100.0938623	100.0130605	99.93239143	99.85185479	99.77145025	99.69117749
ADV1017828	8/4/2025	4.038	8/4/2026	102.84699	102.1542899	101.4709329	100.7967289	100.1314946	99.47505188	98.82722696	98.18785083	97.5567588
ADV1020563	11/24/2025	4.156	12/22/2025	100.25032	100.1891518	100.1280732	100.0670832	100.0061817	99.94536847	99.88464333	99.82400607	99.76345652
ADV1019602	10/9/2025	3.625	10/12/2027	107.64358	105.717387	103.8354002	101.9963428	100.1989835	98.44213392	96.72464749	95.04541727	93.4033744
ADV1020672	11/28/2025	4.115	12/29/2025	100.32572	100.2450783	100.1645652	100.0841845	100.003936	99.92381934	99.84383417	99.76398019	99.68425708
ADV1020049	10/30/2025	4.137	12/11/2025	100.12898	100.0983433	100.0677408	100.0371733	100.006641	99.97614357	99.9456811	99.91525349	99.88486067
ADV1020255	11/7/2025	3.841	8/31/2026	103.01394	102.24528	101.4880939	100.7421249	100.0071253	99.28285418	98.56907795	97.86556962	97.17210873
ADV1018686	9/5/2025	3.641	3/5/2027	105.09486	103.7931867	102.5220008	101.2802289	100.066851	98.88089403	97.7214292	96.58756941	95.47846701
ADV1020463	11/19/2025	4.051	11/19/2032	128.60642	120.8645989	113.6574202	106.9449077	100.6902764	94.85966387	89.4218839	84.3482019	79.61213024
ADV1017875	8/5/2025	3.784	8/7/2028	111.2879	108.476841	105.7520479	103.1103101	100.5485611	98.0638702	95.65343579	93.31457823	91.04473371
ADV1019059	9/19/2025	3.997	2/19/2026	100.91857	100.6905113	100.4634812	100.237475	100.0124857	99.78850641	99.56553033	99.34355068	99.12256075
ADV1020347	11/13/2025	4.12	12/15/2025	100.17119	100.1294615	100.0877864	100.0461637	100.0045933	99.96307522	99.92160922	99.88019523	99.83883316
ADV1020682	11/28/2025	4.011	2/27/2026	101.00307	100.7542028	100.5065559	100.2601222	100.0148929	99.7708593	99.52801262	99.28634427	99.04584569
ADV1018524	8/29/2025	3.707	2/29/2028	109.27085	106.9351272	104.6614083	102.447582	100.2916249	98.19160004	96.1456523	94.15200409	92.20895144
ADV1017961	8/7/2025	3.786	8/7/2028	111.29295	108.4818005	105.756923	103.115103	100.553274	98.06850517	95.65799484	93.3190633	91.04914664
ADV1019116	9/23/2025	3.702	8/18/2027	107.01499	105.2511375	103.5251267	101.835807	100.1820726	98.56286264	96.97715854	95.42398215	93.90239358
ADV1017840	8/4/2025	4.02	8/4/2026	102.83462	102.1419657	101.4586557	100.7844982	100.11931	99.46291288	98.81513319	98.17580186	97.54475422
ADV1017827	8/4/2025	3.894	2/10/2027	105.03905	103.8015741	102.5933222	101.4132632	100.2604175	99.13385062	98.03267031	96.95602439	95.90309846
ADV1019715	10/15/2025	3.715	10/15/2026	103.41693	102.520737	101.6400954	100.7746052	99.92387741	99.08753606	98.26521798	97.45657212	96.66125908
ADV1019442	10/1/2025	3.972	3/10/2026	101.12792	100.8462676	100.5661783	100.2876433	100.0106498	99.73518468	99.46123539	99.18878934	98.91783407
ADV1018694	9/26/2025	3.588	9/26/2028	111.29073	108.3379444	105.4795362	102.7119722	100.0318727	97.43600316	94.9212672	92.48469961	90.12346019
ADV1018174	8/15/2025	4.231	1/15/2026	100.55509	100.4253773	100.2960077	100.1669837	100.0383037	99.90996648	99.78197054	99.65431448	99.52699691
ADV1019173	9/24/2025	4.111	12/24/2025	100.27949	100.2122833	100.1451824	100.0781827	100.0112838	99.94448557	99.8777878	99.81119024	99.74469266
ADV1018274	8/20/2025	3.819	8/20/2027	107.24262	105.4712052	103.7378747	102.0414652	100.3808612	98.75499281	97.16283279	95.60339484	94.07573132
ADV1020470	11/19/2025	4.12	12/19/2025	100.21519	100.1623495	100.1095823	100.0568873	100.0042644	99.95171341	99.89923418	99.84682657	99.79449043
ADV1020178	11/4/2025	3.622	11/4/2027	107.89902	105.9065266	103.961129	102.0614293	100.2060772	98.3937714	96.62325747	94.89332585	93.20280995
ADV1020625	11/25/2025	4.066	1/26/2026	100.6446	100.4856292	100.3271649	100.1692071	100.0117534	99.85480125	99.69834839	99.54239239	99.38693088
ADV1018085	8/15/2025	3.988	8/17/2026	102.96212	102.2326993	101.5136315	100.8046994	100.1056893	99.41639353	98.73661037	98.06614347	97.40480191
ADV1020680	11/28/2025	4.109	12/29/2025	100.32524	100.2445949	100.1640822	100.083702	100.0034539	99.92333765	99.84335289	99.76349932	99.68377662

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020336	11/13/2025	4.126	12/4/2025	100.04768	100.0365611	100.0254563	100.0143621	100.0032784	99.99220537	99.98114284	99.97009084	99.95904934
ADV1020373	11/14/2025	3.713	11/12/2027	108.02706	106.0131305	104.0472802	102.1280641	100.25409	98.42401686	96.6365525	94.89045138	93.18451271
ADV1020318	11/12/2025	4.124	12/12/2025	100.13778	100.1044015	100.0710645	100.0377668	100.0045081	99.97128843	99.93810774	99.90496592	99.8718629
ADV1020361	11/14/2025	4.095	1/9/2026	100.45325	100.3417278	100.2304653	100.1194625	100.0087182	99.89823162	99.7880018	99.67802778	99.56830865
ADV1018090	10/1/2025	3.795	10/1/2029	116.05014	111.9602978	108.0394363	104.2796962	100.6736224	97.21414282	93.89454703	90.70846568	87.6498515
ADV1020176	11/4/2025	3.625	11/4/2027	107.90491	105.9123561	103.9669004	102.0671438	100.2117359	98.39937531	96.62880762	94.89882324	93.20825554
ADV1019601	10/9/2025	3.714	10/9/2026	103.41081	102.5305764	101.6653503	100.8147462	99.9783953	99.15594108	98.34703882	97.55135515	96.76856754
ADV1018194	8/18/2025	4.292	12/18/2025	100.22777	100.1771592	100.1266135	100.0761355	100.0257251	99.97538231	99.92510683	99.87489858	99.82475742
ADV1020312	11/12/2025	4.001	3/12/2026	101.15259	100.8665312	100.5820936	100.2992666	100.0180365	99.73838972	99.46031277	99.18379238	98.90881542
ADV1018955	9/17/2025	3.638	9/17/2027	107.24702	105.397018	103.5881346	101.8191557	100.0889167	98.39629667	96.74021634	95.11963608	93.53355414
ADV1018280	8/20/2025	4.297	12/18/2025	100.22772	100.1771139	100.1265792	100.0761122	100.0257129	99.97538108	99.9251166	99.87491932	99.82478912
ADV1018633	9/4/2025	3.774	5/4/2027	105.89357	104.4324863	102.9989062	101.5921225	100.2114481	98.85621864	97.52579196	96.21954707	94.93688331
ADV1020467	11/19/2025	3.715	5/19/2027	105.97776	104.4749787	103.0012511	101.5558047	100.1378951	98.74680405	97.38183739	96.04232465	94.7276178
ADV1020066	10/30/2025	3.815	10/21/2030	120.24262	114.9501661	109.926967	105.1578899	100.6287335	96.32616218	92.23764885	88.35142164	84.65641476
ADV1020464	11/19/2025	4.344	11/19/2035	140.34217	128.9453999	118.6175384	109.2512576	100.7505743	93.02959632	86.01141313	79.62711314	73.81491337
ADV1018683	9/5/2025	3.816	9/8/2026	103.08595	102.2946476	101.5155108	100.7482584	99.99261951	99.24833168	98.51514018	97.79279789	97.08106498
ADV1017927	8/6/2025	3.965	8/6/2026	102.86802	102.1690268	101.4795482	100.799389	100.1283611	99.46628111	98.8129707	98.16825622	97.53196859
ADV1019927	10/24/2025	3.621	10/25/2027	107.54159	105.5849491	103.6739014	101.8071068	99.98327674	98.20116834	96.45958298	94.75736419	93.09339595
ADV1020247	11/7/2025	3.764	11/1/2030	119.09778	114.0396977	109.2392921	104.6819228	100.3538592	96.24222106	92.33492132	88.62061276	85.088639
ADV1020093	10/31/2025	4.133	12/26/2025	100.29775	100.2252356	100.1528344	100.0805463	100.008371	99.93630835	99.86435801	99.79251974	99.72079327
ADV1020683	11/28/2025	4.109	12/29/2025	100.32524	100.2445949	100.1640822	100.083702	100.0034539	99.92333765	99.84335289	99.76349932	99.68377662
ADV1019575	10/8/2025	3.609	10/8/2027	107.56838	105.6539371	103.7832026	101.9549238	100.1678893	98.4209299	96.71291692	95.04276069	93.40940881
ADV1018173	8/15/2025	4.032	8/17/2026	102.99394	102.2643851	101.5451908	100.8361334	100.1369992	99.44758071	98.76767595	98.09708864	97.43562783
ADV1020143	11/3/2025	4.173	12/2/2025	100.02705	100.0214886	100.0159304	100.0103772	100.0048291	99.99928584	99.9937476	99.98821432	99.982686
ADV1018832	9/12/2025	3.975	9/12/2031	123.9355	117.6097368	111.6552277	106.0481146	100.7661977	95.78881379	91.09672103	86.67199407	82.49792689
ADV1018077	8/13/2025	3.783	8/13/2030	119.75417	114.6613819	109.8192467	105.2140053	100.8327379	96.66330352	92.69428837	88.91495793	85.31521247
ADV1020617	11/25/2025	3.601	11/26/2027	107.96115	105.9080819	103.9049642	101.950265	100.0425113	98.18028545	96.36222215	94.58700661	92.85337211
ADV1020690	11/28/2025	3.995	3/13/2026	101.15992	100.8715344	100.5848064	100.2997179	100.0162549	99.73440329	99.45414933	99.17547935	98.89837985
ADV1017809	8/1/2025	3.809	8/1/2030	119.75604	114.6976825	109.8868191	105.3099458	100.9543753	96.80818008	92.86014279	89.09970942	85.51694635
ADV1019456	10/1/2025	3.654	10/2/2028	111.55001	108.5764798	105.6984406	102.9123197	100.2146978	97.60230125	95.07199517	92.62077692	90.2457697
ADV1018083	8/15/2025	4.189	2/17/2026	100.94391	100.7204505	100.4979826	100.2764951	100.0559816	99.83643555	99.61785054	99.40022025	99.18353836
ADV1020104	10/31/2025	4.127	12/31/2025	100.35358	100.2670741	100.1807201	100.0945129	100.0084522	99.92253761	99.83676879	99.75114538	99.66566701
ADV1020523	11/21/2025	4.001	3/23/2026	101.27777	100.9608397	100.645898	100.3329237	100.0218983	99.71280364	99.40562172	99.10033475	98.79692519

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020391	11/18/2025	3.964	5/18/2026	101.90614	101.429584	100.9574687	100.489736	100.0263251	99.56717603	99.11223023	98.66143003	98.21471888
ADV1020567	11/24/2025	3.601	10/25/2028	111.63639	108.5975039	105.6581458	102.8145198	100.0629936	97.40009326	94.82249519	92.32701881	89.91061959
ADV1019348	9/30/2025	3.751	3/30/2029	113.82978	110.3090614	106.9174686	103.6495835	100.5002487	97.46454893	94.53779867	91.71553007	88.99348165
ADV1018540	8/29/2025	3.946	9/15/2026	103.26617	102.4545581	101.6557316	100.8693853	100.0952279	99.33297716	98.58235956	97.84310982	97.11497069
ADV1020085	10/31/2025	4.156	12/11/2025	100.12943	100.0987912	100.0681915	100.0376269	100.0070974	99.9766028	99.94614316	99.91571837	99.88532837
ADV1018549	8/29/2025	3.963	8/31/2026	103.10376	102.3347215	101.5771562	100.8308123	100.0954419	99.37080418	98.65666531	97.9527983	97.2589826
ADV1018459	8/27/2025	3.72	11/29/2027	108.23616	106.1717236	104.1576958	102.1925287	100.2747301	98.40286398	96.57554779	94.79145025	93.04928895
ADV1018263	8/20/2025	4.307	12/10/2025	100.13424	100.1061495	100.0780904	100.0500628	100.0220665	99.99410151	99.96616778	99.93826523	99.91039382
ADV1018977	9/18/2025	3.677	9/20/2027	107.35304	105.4935329	103.6754969	101.8977251	100.1590518	98.45835431	96.79455075	95.16659844	93.57349201
ADV1020457	11/19/2025	3.657	11/20/2028	112.08611	108.9662902	105.9509922	103.0361303	100.2178044	97.49228849	94.85602177	92.30560059	89.83777037
ADV1020153	11/3/2025	4.164	12/10/2025	100.11785	100.0900105	100.062204	100.0344286	100.0066842	99.97897089	99.95128854	99.9236371	99.89601651
ADV1017894	8/5/2025	4.145	8/1/2031	124.53825	118.3165379	112.4533908	106.9261086	101.7135564	96.79604395	92.15521904	87.77396905	83.63633066
ADV1019355	9/30/2025	3.816	9/30/2026	103.33157	102.4777288	101.6380066	100.8120525	99.99952988	99.20011285	98.41348611	97.63934438	96.87739203
ADV1018682	9/5/2025	3.907	9/5/2031	123.7965	117.4839698	111.5412239	105.9445176	100.671758	95.70238253	91.01724484	86.59850915	82.42955351
ADV1019128	9/23/2025	3.753	9/25/2029	115.81619	111.7481673	107.8476345	104.1068054	100.5182973	97.07510798	93.77059444	90.59845215	87.55269612
ADV1018300	8/21/2025	3.847	8/21/2028	111.61821	108.7634678	105.9972615	103.316262	100.7172867	98.19729639	95.75338702	93.38278299	91.08283019
ADV1020519	11/21/2025	4.03	2/23/2026	100.96261	100.7248232	100.4881575	100.2526061	100.0181613	99.7848151	99.55255991	99.32138805	99.09129192
ADV1020090	10/31/2025	4.167	12/1/2025	100.01612	100.0133401	100.0105603	100.0077828	100.0050079	100.0022353	99.99946509	99.99669732	99.99393196
ADV1019680	10/14/2025	3.557	10/14/2027	107.39877	105.4719413	103.5894156	101.749911	99.9521912	98.19506346	96.47737679	94.79802016	93.15592081
ADV1018690	9/5/2025	3.513	9/5/2028	111.05855	108.1648396	105.3621199	102.6469388	100.0160046	97.46617327	94.99444131	92.5979378	90.27391768
ADV1019604	10/9/2025	4.026	2/9/2026	100.80659	100.607292	100.4087835	100.2110629	100.0141255	99.81796658	99.62258147	99.42796557	99.23411427
ADV1019957	10/27/2025	4.052	1/30/2026	100.69289	100.5221479	100.3519815	100.1823881	100.0133649	99.84490896	99.67701748	99.50968764	99.34291665
ADV1020653	11/26/2025	3.676	11/26/2030	119.89437	114.5061486	109.3974334	104.5522122	99.95547475	95.59314376	91.4520122	87.51968493	83.78452465
ADV1018491	8/28/2025	4.223	1/28/2026	100.70776	100.5414296	100.3756418	100.2103984	100.0456965	99.88153356	99.71790692	99.55481396	99.39225207
ADV1019160	9/24/2025	4.107	12/24/2025	100.27921	100.2120071	100.1449069	100.0779079	100.0110097	99.94421211	99.87751501	99.81091811	99.7444212
ADV1019085	9/22/2025	4.039	1/22/2026	100.60426	100.4554568	100.3070983	100.1591873	100.0117217	99.86469938	99.71811843	99.57197681	99.4262725
ADV1018126	8/14/2025	4.028	8/14/2026	102.95583	102.2347918	101.523878	100.8228719	100.1315669	99.44976237	98.77726297	98.11387883	97.45942518
ADV1018689	9/5/2025	3.749	9/8/2026	103.0885	102.2964516	101.5165866	100.7486275	99.99230266	99.24734891	98.51351084	97.79054071	97.07819805
ADV1018106	8/13/2025	4.33	12/3/2025	100.05341	100.0449792	100.0365583	100.0281452	100.0197399	100.0113424	100.0029526	99.99457062	99.98619634
ADV1018140	8/14/2025	4.212	8/1/2035	122.28832	116.5112504	111.1205318	106.0858839	101.3796641	96.97661661	92.85364813	88.9896274	85.36520392
ADV1019727	10/15/2025	4.143	1/14/2026	100.52213	100.3961705	100.2705379	100.1452341	100.0202579	99.89560798	99.77128293	99.64728147	99.5236023
ADV1019865	10/22/2025	4.016	2/25/2026	100.98696	100.7427357	100.499685	100.2578022	100.0170787	99.77750646	99.53907705	99.30178237	99.06561432
ADV1019669	10/14/2025	3.604	10/16/2028	111.55136	108.5387877	105.6241349	102.803696	100.0739234	97.43142302	94.87294625	92.39538337	89.99575655

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1019245	9/26/2025	3.841	9/26/2030	120.12234	114.9042012	109.9481871	105.2397382	100.7651771	96.51165168	92.46708123	88.62010637	84.9600422
ADV1019392	9/30/2025	4.118	12/29/2025	100.33517	100.2539819	100.1729271	100.0920057	100.0112173	99.93056161	99.85003832	99.7696471	99.68938764
ADV1018039	8/12/2025	4.129	5/12/2026	101.92795	101.4631392	101.0025135	100.5460142	100.093586	99.6451746	99.20072647	98.76018916	98.32351112
ADV1020574	11/24/2025	4.176	12/15/2025	100.17181	100.1301379	100.0885137	100.0469419	100.0054223	99.96395493	99.92253959	99.88117621	99.83986467
ADV1020338	11/13/2025	4.117	12/15/2025	100.17106	100.1293346	100.0876596	100.0460371	100.0044669	99.96294884	99.92148295	99.88006907	99.83870711
ADV1020649	11/28/2025	4.12	12/29/2025	100.32613	100.2454811	100.1649676	100.0845866	100.0043378	99.92422075	99.84423523	99.76438091	99.68465746
ADV1017831	8/4/2025	4.034	8/4/2026	102.84424	102.1515512	101.4682046	100.7940109	100.128787	99.47235432	98.82453946	98.18517328	97.55409112
ADV1019708	10/15/2025	4.184	10/16/2034	135.58221	125.5534634	116.3771175	107.9754623	100.2782671	93.22202899	86.74929568	80.80806083	75.35122185
ADV1019324	9/29/2025	3.658	9/29/2027	107.5551	105.6656688	103.8188754	102.0135067	100.24839	98.52239365	96.83442475	95.18342806	93.56838422
ADV1018316	8/21/2025	3.778	8/21/2028	111.63051	108.7710873	106.0004411	103.3152259	100.7122478	98.18845689	95.74093921	93.36690964	91.0637051
ADV1020041	10/30/2025	4.138	12/11/2025	100.12901	100.098375	100.0677724	100.037205	100.0066726	99.97617513	99.94571262	99.91528498	99.88489212
ADV1020542	11/21/2025	3.623	11/22/2027	107.96087	105.919175	103.9268843	101.9824961	100.0845608	98.23168266	96.42251782	94.65577152	92.93019611
ADV1018835	9/12/2025	4.175	12/12/2025	100.14919	100.1155727	100.0819993	100.0484654	100.0149708	99.98151555	99.94809952	99.91472265	99.88138485
ADV1020258	11/7/2025	4.108	12/8/2025	100.09321	100.0709538	100.048723	100.026516	100.0043325	99.98217261	99.96003626	99.93792342	99.91583403
ADV1020671	11/28/2025	3.604	11/29/2030	119.94375	114.5331634	109.4040329	104.5401897	99.92648181	95.54870163	91.39352208	87.44843749	83.70170873
ADV1017876	8/5/2025	3.829	8/5/2027	107.08535	105.3566078	103.6644218	102.0076957	100.3853786	98.79646141	97.23997459	95.71498626	94.22060032
ADV1020256	11/7/2025	3.811	10/30/2026	103.67569	102.7362973	101.8139439	100.9081662	100.0185202	99.14457743	98.28592462	97.44216279	96.61290678
ADV1019754	10/16/2025	3.635	11/16/2026	103.70309	102.7158793	101.747486	100.7973754	99.8650328	98.94996261	98.05168748	97.16974757	96.30369969
ADV1018670	9/5/2025	3.667	9/5/2030	119.05907	113.9280614	109.052377	104.4178752	100.0112819	95.82012938	91.83270193	88.03798636	84.42562564
ADV1019577	10/8/2025	4.389	10/11/2035	140.48418	129.1922072	118.9487667	109.6496117	101.2014092	93.52054216	86.53205236	80.16870211	74.37014244
ADV1018040	8/12/2025	4.047	8/12/2026	102.94628	102.2308638	101.5254087	100.8297097	100.1435651	99.46677872	98.79915961	98.14052212	97.49068555
ADV1018663	9/5/2025	3.587	9/7/2027	107.04158	105.2219213	103.4422118	101.7012408	99.99784597	98.33091108	96.69936385	95.10217363	93.53834939
ADV1017852	8/4/2025	4.01	8/4/2028	111.87092	109.0602303	106.3355301	103.6936324	101.1314889	98.64618579	96.23493708	93.89507774	91.62405756
ADV1018180	8/15/2025	3.833	8/15/2028	111.51189	108.6753715	105.9264305	103.2617821	100.6782935	98.17297174	95.7429567	93.38551376	91.09802741
ADV1019848	10/21/2025	3.695	10/21/2026	103.4653	102.5521	101.6550395	100.7736932	99.90765035	99.05651429	98.21990213	97.39744398	96.58878239
ADV1020149	11/3/2025	4.083	2/2/2026	100.7321	100.5530385	100.3746092	100.1968118	100.0196429	99.84309909	99.66717715	99.49187378	99.31718572
ADV1020510	11/20/2025	4.155	12/4/2025	100.04691	100.0358047	100.0247087	100.0136233	100.0025484	99.99148405	99.98043025	99.96938697	99.95835418
ADV1020387	11/17/2025	4.13	12/16/2025	100.18225	100.1377535	100.0933169	100.0489374	100.0046149	99.96034928	99.91614047	99.87198834	99.82789278
ADV1020233	11/7/2025	4.029	2/9/2026	100.80273	100.6040649	100.40619	100.2091004	100.0127915	99.8172586	99.62249705	99.42850225	99.23526962
ADV1018737	9/9/2025	3.624	9/9/2027	107.1306	105.3044141	103.5184217	101.7714082	100.0622108	98.38971222	96.75283863	95.15055748	93.58187547
ADV1020646	11/26/2025	4.13	12/26/2025	100.29346	100.2211609	100.1489746	100.0769011	100.0049401	99.93309136	99.8613546	99.78972957	99.71821601
ADV1020678	11/28/2025	3.585	11/28/2028	111.95251	108.8117332	105.7769475	102.8439816	100.0088527	97.26775709	94.61706138	92.05329345	89.57313446
ADV1017867	8/5/2025	4.378	8/7/2034	136.72627	126.8506556	117.7970915	109.4919811	101.8687127	94.86695797	88.43204755	82.51441175	77.06907946

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1019903	10/23/2025	4.067	1/23/2026	100.61522	100.4640962	100.3134391	100.1632434	100.0135068	99.86422728	99.7154027	99.56703095	99.41910995
ADV1019703	10/15/2025	4.055	2/11/2026	100.8347	100.6298645	100.425865	100.2226985	100.0203598	99.81884385	99.61814549	99.41825975	99.21918164
ADV1018319	8/21/2025	4.06	8/21/2026	103.06042	102.3194341	101.5891286	100.8692685	100.1596306	99.45999791	98.77015959	98.08991065	97.41905183
ADV1019674	10/15/2025	3.68	11/15/2029	116.07446	111.8559081	107.8168503	103.9486877	100.2432777	96.69290954	93.29027867	90.02846313	86.90090155
ADV1018088	8/13/2025	3.756	8/14/2028	111.28823	108.4576057	105.7143309	103.0551316	100.4768851	97.97660837	95.55145034	93.19868505	90.91570516
ADV1019666	10/14/2025	3.965	4/14/2026	101.5232	101.1422791	100.764205	100.388946	100.0164706	99.64674786	99.27974722	98.9154386	98.55379235
ADV1020295	11/12/2025	4.126	12/11/2025	100.12659	100.0960025	100.0654457	100.034924	100.0044373	99.97398549	99.94356858	99.91318648	99.88283911
ADV1019342	9/30/2025	4.084	1/30/2026	100.70255	100.531279	100.3605827	100.1904612	100.0209116	99.85193103	99.68351671	99.51566578	99.34837544
ADV1017834	8/4/2025	4.001	9/4/2026	103.18388	102.4033186	101.6345818	100.8774011	100.1315171	99.39667815	98.67264	97.95916555	97.2560246
ADV1020685	11/28/2025	4.109	12/29/2025	100.32524	100.2445949	100.1640822	100.083702	100.0034539	99.92333765	99.84335289	99.76349932	99.68377662
ADV1020507	11/20/2025	3.972	5/20/2026	101.93251	101.45031	100.9726542	100.499483	100.0307333	99.56634321	99.10625211	98.65040039	98.1987296
ADV1017796	8/1/2025	3.756	8/1/2028	111.34415	108.544708	105.8308488	103.1994049	100.6473463	98.17177655	95.76992593	93.43914476	91.17689733
ADV1018498	8/28/2025	4.043	7/28/2026	102.76466	102.0917907	101.4277452	100.7723458	100.1254245	99.48681724	98.85636452	98.23391069	97.61930413
ADV1019216	9/25/2025	4.127	12/24/2025	100.28044	100.213239	100.1461431	100.0791482	100.0122543	99.94546096	99.87876809	99.81217542	99.74568273
ADV1018110	8/13/2025	3.755	8/14/2028	111.28547	108.4548875	105.71165	103.0524871	100.4742762	97.97403417	95.5489101	93.19617801	90.91323056
ADV1020547	11/21/2025	3.55	11/22/2027	107.95933	105.9149189	103.9200303	101.9731529	100.0728326	98.21766936	96.40631514	94.63747123	92.90988628
ADV1018688	9/5/2025	3.637	3/5/2027	105.08973	103.7880985	102.5169467	101.2752082	100.0618633	98.87593873	97.71650575	96.5826773	95.47360575
ADV1019922	10/24/2025	4.168	12/5/2025	100.06271	100.0487802	100.0348658	100.0209651	100.007078	99.99320446	99.97934457	99.96549823	99.95166544
ADV1020461	11/19/2025	4.115	12/18/2025	100.2037	100.153649	100.1036628	100.0537435	100.0038912	99.95410561	99.90438664	99.85473416	99.80514802
ADV1019030	9/18/2025	4.105	12/18/2025	100.21286	100.1624506	100.1121125	100.0618419	100.0116387	99.96150269	99.91143379	99.86143184	99.81149669
ADV1020561	11/24/2025	3.913	5/26/2026	101.97162	101.4725784	100.9784006	100.4890155	100.0043538	99.52434723	99.04892904	98.57803369	98.11159686
ADV1017873	8/5/2025	3.822	8/6/2029	115.52742	111.6083412	107.8457466	104.2324701	100.7617225	97.42706579	94.22239243	91.14190626	88.18010453
ADV1018493	8/28/2025	4.125	3/30/2026	101.41326	101.073097	100.7351809	100.3994922	100.0660089	99.73470947	99.40557248	99.07857688	98.75370186
ADV1018334	8/22/2025	4.082	6/22/2026	102.37044	101.799215	101.234375	100.6758141	100.1234278	99.57711384	99.03677242	98.50230579	97.97361834
ADV1020580	11/24/2025	4.153	12/22/2025	100.25014	100.1889679	100.1278895	100.0668996	100.0059983	99.94518518	99.88446017	99.82382306	99.76327364
ADV1019907	10/23/2025	4.062	1/23/2026	100.61446	100.4633409	100.3126857	100.1624919	100.0127572	99.86347956	99.71465686	99.56628699	99.41836786
ADV1020533	11/21/2025	4.317	1/15/2036	140.51159	128.9445337	118.4768732	108.9967744	100.4043809	92.61047032	85.53526994	79.10740916	73.26299353
ADV1018424	8/26/2025	3.735	5/26/2028	110.32174	107.7293805	105.2121778	102.7675119	100.3928723	98.08585105	95.84413823	93.66551704	91.54785953
ADV1020300	11/12/2025	3.802	10/7/2026	103.4027	102.5289606	101.6700043	100.825459	99.99496386	99.17817003	98.37474006	97.58434752	96.80667657
ADV1019295	9/29/2025	3.815	9/28/2026	103.30821	102.460072	101.6258649	100.8052517	99.99790193	99.20349578	98.42172358	97.65228551	96.89489115
ADV1019882	10/22/2025	3.542	10/23/2028	111.44134	108.410909	105.4795809	102.6435843	99.8993077	97.24329708	94.67224744	92.18299583	89.77251432
ADV1020208	11/5/2025	3.772	11/5/2026	103.77644	102.8187603	101.878774	100.9559959	100.0499561	99.16020165	98.28629603	97.42781809	96.5843615
ADV1019962	10/27/2025	3.594	10/29/2027	107.63217	105.6618065	103.737617	101.8582362	100.0223519	98.22869887	96.47605728	94.76325031	93.08914263

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020210	11/5/2025	3.712	5/5/2027	105.91898	104.4532715	103.0152339	101.6041485	100.2193221	98.86008505	97.52578991	96.21581069	94.92954195
ADV1017797	8/1/2025	3.854	9/1/2027	107.44977	105.6434032	103.8763828	102.1474974	100.4555831	98.79952367	97.17824805	95.59072826	94.03597701
ADV1019446	10/1/2025	3.811	8/11/2026	102.76935	102.0574766	101.3554844	100.6631649	99.98031882	99.30675244	98.64227717	97.98670956	97.33987106
ADV1020334	11/13/2025	3.994	3/30/2026	101.35721	101.0201405	100.6852989	100.3526644	100.0222152	99.69393005	99.36778766	99.04376718	98.72184799
ADV1020677	11/28/2025	4.118	12/23/2025	100.25859	100.1946698	100.1308414	100.0671074	100.0034676	99.9399218	99.87646979	99.81311137	99.74984633
ADV1019394	9/30/2025	4	2/26/2026	100.99792	100.7502852	100.5038501	100.2586109	100.0145587	99.77168511	99.52998151	99.2894395	99.05005073
ADV1020647	11/26/2025	4.129	12/26/2025	100.29339	100.2210886	100.1489024	100.0768289	100.004868	99.93301929	99.86128259	99.78965762	99.71814412
ADV1018143	8/14/2025	3.825	12/18/2028	112.91231	109.7006366	106.5986907	103.6020949	100.7066698	97.9084276	95.20356169	92.58843756	90.0595837
ADV1019387	9/30/2025	3.667	4/26/2027	105.74483	104.3054496	102.8928093	101.5062307	100.1450537	98.80864037	97.49637356	96.20765624	94.94191068
ADV1018456	8/27/2025	4.304	12/17/2025	100.21521	100.1674586	100.1197732	100.0721504	100.0245901	99.97709223	99.92965657	99.88228303	99.83497148
ADV1018532	10/30/2025	3.846	10/30/2026	103.70499	102.7654354	101.8429219	100.9369868	100.0471859	99.17309067	98.3142878	97.47037825	96.64097681
ADV1017837	8/4/2025	3.832	8/4/2028	111.24236	108.4434132	105.7300994	103.0992414	100.5478044	98.07288772	95.67171772	93.34164123	91.08011932
ADV1019867	10/22/2025	3.638	10/22/2026	103.48868	102.571672	101.6709318	100.7860295	99.91654937	99.06209052	98.22226563	97.39670068	96.58503428
ADV1017951	8/7/2025	3.83	8/7/2029	115.56818	111.6454981	107.879532	104.2630999	100.7893989	97.451978	94.24471763	91.16181047	88.19774338
ADV1020621	11/25/2025	4.137	12/26/2025	100.29412	100.2218156	100.1496206	100.0775385	100.0055688	99.93371138	99.86196599	99.79033234	99.71881017
ADV1019665	10/14/2025	3.673	10/15/2029	115.71728	111.594396	107.643481	103.8564588	100.225676	96.74387666	93.40417903	90.20005454	87.12530776
ADV1020009	10/29/2025	4.191	12/1/2025	100.01654	100.0137524	100.0109718	100.0081937	100.005418	100.0026447	99.99987384	99.99710538	99.99433931
ADV1020528	11/21/2025	4.171	12/15/2025	100.17208	100.1303891	100.0887506	100.0471645	100.0056307	99.96414905	99.92271947	99.88134186	99.84001612
ADV1020686	11/28/2025	4.109	12/29/2025	100.32524	100.2445949	100.1640822	100.083702	100.0034539	99.92333765	99.84335289	99.76349932	99.68377662
ADV1018108	8/13/2025	3.798	8/13/2027	107.12481	105.3737083	103.6599626	101.9824451	100.3400708	98.73179868	97.15662871	95.61360035	94.10179036
ADV1019758	10/16/2025	4.114	1/15/2026	100.52998	100.4012319	100.2728259	100.1447629	100.0170415	99.88966014	99.76261758	99.63591237	99.50954313
ADV1019421	10/1/2025	3.812	10/1/2026	103.3439	102.4872267	101.6447624	100.8161575	100.0010721	99.19917693	98.41015368	97.63369404	96.8694995
ADV1018495	8/28/2025	4.085	5/28/2026	102.09396	101.5838107	101.0786827	100.5785049	100.0832046	99.59271086	99.10695406	98.62586586	98.14937926
ADV1019682	10/14/2025	3.55	4/14/2027	105.44078	104.0375322	102.6598125	101.3069869	99.9784376	98.6735669	97.39179631	96.13256577	94.89533292
ADV1018685	9/5/2025	4.503	9/8/2037	146.66918	133.0638141	120.9265828	110.0882938	100.4001957	91.73140551	83.96667446	77.00444235	70.75514395
ADV1018538	8/29/2025	3.96	8/31/2026	103.10148	102.3324469	101.574891	100.8285566	100.0931954	99.3685669	98.65443715	97.95057915	97.25677238
ADV1020462	11/19/2025	3.81	11/18/2026	103.89707	102.9032315	101.9284365	100.9721413	100.033822	99.11297483	98.20911429	97.32177294	96.45050033
ADV1020254	11/7/2025	3.838	8/31/2026	103.01165	102.243003	101.4858263	100.7398668	100.0048764	99.28061453	98.56684742	97.86334812	97.16989615
ADV1019657	10/14/2025	4.143	1/14/2026	100.52229	100.3963135	100.2706665	100.1453485	100.0203581	99.89569393	99.77135472	99.64733914	99.52364588
ADV1020064	10/30/2025	4.053	1/29/2026	100.68109	100.5132149	100.3459027	100.1791468	100.0129446	99.8472932	99.68218998	99.51763221	99.3536172
ADV1020372	11/14/2025	3.725	8/13/2027	106.99859	105.2486126	103.5359732	101.8595419	100.2182343	98.6110098	97.036869	95.49485183	93.98403553
ADV1020158	11/3/2025	4.171	12/3/2025	100.03842	100.0300696	100.0217318	100.0134016	100.0050792	99.99676452	99.9884575	99.98015815	99.97186646
ADV1017981	8/8/2025	4.05	8/10/2026	102.92542	102.2156816	101.5157479	100.8254185	100.1444963	99.47278983	98.81011242	98.15628264	97.51112383

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1018494	8/28/2025	4.107	4/28/2026	101.74963	101.3261351	100.9061104	100.4895182	100.0763167	99.6664647	99.25992157	98.85664745	98.45660305
ADV1017964	8/7/2025	4.253	2/9/2026	100.86204	100.6611278	100.46101	100.2616866	100.0631527	99.86540349	99.66843443	99.47224081	99.276818
ADV1017790	8/1/2025	3.888	8/1/2029	115.71968	111.811191	108.0582493	104.4537595	100.9909934	97.66356954	94.46543298	91.39083631	88.43432212
ADV1019115	9/23/2025	3.987	3/24/2026	101.29392	100.9721113	100.6523354	100.3345732	100.0188056	99.70501396	99.39317966	99.08328438	98.77531005
ADV1020530	11/21/2025	3.672	5/21/2027	105.93597	104.4280562	102.9493916	101.4992013	100.0767335	98.68126244	97.31208733	95.96853107	94.64993938
ADV1020234	11/7/2025	4.029	2/9/2026	100.80273	100.6040649	100.40619	100.2091004	100.0127915	99.8172586	99.62249705	99.42850225	99.23526962
ADV1019930	10/24/2025	3.719	10/26/2026	103.54295	102.6153903	101.7044651	100.8097291	99.93075325	99.06712334	98.21843971	97.38431645	96.56438085
ADV1017826	8/4/2025	3.897	2/4/2027	104.96707	103.7470192	102.5553811	101.3911738	100.2534571	99.14133355	98.05394562	96.99047386	95.95013466
ADV1019573	10/8/2025	4.033	2/4/2026	100.7503	100.5650921	100.3805688	100.1967225	100.0135494	99.83104567	99.64920778	99.46803202	99.28751476
ADV1020145	11/3/2025	4.082	1/30/2026	100.69692	100.5263027	100.3562567	100.1867832	100.0178794	99.84954259	99.6817698	99.51455826	99.34790518
ADV1018769	9/10/2025	4.056	2/11/2026	100.84033	100.6346939	100.4299	100.2259423	100.0228156	99.8205148	99.61903484	99.41837065	99.21851724
ADV1020436	11/18/2025	4.134	12/15/2025	100.171	100.1292924	100.0876406	100.0460413	100.0044942	99.96299931	99.92155652	99.88016571	99.83882679
ADV1019961	10/27/2025	3.663	1/29/2027	104.61075	103.4099048	102.23666	101.090068	99.96922738	98.87327721	97.80139446	96.75279206	95.72671695
ADV1018310	8/21/2025	4.279	1/21/2026	100.63329	100.4866425	100.3404281	100.1946478	100.0492997	99.90438184	99.75989227	99.61582905	99.47219027
ADV1018129	8/14/2025	3.917	8/14/2030	120.04298	114.9516905	110.1106996	105.5062792	101.1255367	96.95635611	92.98734689	89.20779589	85.60762317
ADV1018111	8/13/2025	3.865	8/13/2030	119.78262	114.7003429	109.8678729	105.2715206	100.8984221	96.7364882	92.77435296	89.0013263	85.40734969
ADV1020346	11/13/2025	3.737	11/13/2030	120.46535	115.0887304	109.9892437	105.1511112	100.5595374	96.20064089	92.06139266	88.12955977	84.39365254
ADV1018127	8/14/2025	4.212	2/17/2026	100.94921	100.7257018	100.5031825	100.281644	100.0610795	99.8414828	99.62284734	99.4051668	99.18843489
ADV1019846	10/21/2025	4.131	1/21/2026	100.60177	100.4562152	100.3110963	100.1664083	100.0221492	99.87831715	99.73491016	99.59192633	99.44936377
ADV1019815	10/20/2025	4.213	12/22/2025	100.25941	100.1979876	100.1366569	100.0754153	100.0142624	99.95319821	99.89222245	99.83133495	99.7705355
ADV1019876	10/23/2025	3.649	10/23/2030	119.43276	114.1544667	109.145253	104.3899779	99.87442893	95.58526061	91.50993774	87.63668195	83.95442221
ADV1019650	10/14/2025	3.645	10/14/2026	103.40608	102.5118689	101.6331456	100.7695071	99.92056678	99.08595135	98.26529991	97.45826367	96.66450536
ADV1019291	9/29/2025	4.14	12/29/2025	100.33715	100.255948	100.1748796	100.0939446	100.0131426	99.93247332	99.85193648	99.77153173	99.69125877
ADV1018003	8/11/2025	3.852	8/12/2030	120.07626	114.9787514	110.131902	105.5219642	101.1360262	96.96195388	92.98833963	89.20445421	85.60020247
ADV1019323	9/29/2025	3.743	9/29/2026	103.31828	102.466478	101.6287308	100.804689	99.99401832	99.196395	98.41150578	97.63904733	96.8787259
ADV1018107	8/13/2025	3.991	8/13/2026	102.91774	102.1996552	101.4916066	100.7933882	100.1047962	99.42563195	98.75570253	98.09482014	97.44280208
ADV1020339	11/13/2025	4.117	12/15/2025	100.17106	100.1293346	100.0876596	100.0460371	100.0044669	99.96294884	99.92148295	99.88006907	99.83870711
ADV1019497	10/3/2025	3.682	10/3/2028	111.64156	108.6639048	105.7819424	102.9920934	100.2909282	97.6751636	95.14165581	92.68739367	90.3094923
ADV1018684	9/5/2025	4.354	9/5/2035	139.84183	128.6846084	118.554786	109.3509946	100.9824097	93.36760356	86.43352674	80.11460407	74.3519331
ADV1017871	8/5/2025	3.866	8/5/2030	119.70589	114.6483081	109.8383719	105.2625615	100.9081704	96.76325378	92.81657869	89.05757735	85.47630382
ADV1019994	10/28/2025	4.063	1/28/2026	100.67153	100.5064361	100.3418804	100.1778649	100.0143869	99.85144389	99.68903319	99.5271522	99.36579833
ADV1020040	10/30/2025	3.843	10/30/2026	103.7022	102.7626646	101.8401649	100.9342435	100.0444561	99.17037419	98.31158447	97.46768791	96.6382993
ADV1020541	11/21/2025	3.672	5/21/2027	105.93597	104.4280562	102.9493916	101.4992013	100.0767335	98.68126244	97.31208733	95.96853107	94.64993938

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020674	11/28/2025	4.066	1/16/2026	100.52867	100.39776	100.2672034	100.1370023	100.0071553	99.87766075	99.7485173	99.61972344	99.49127771
ADV1019379	9/30/2025	3.713	9/30/2027	107.53483	105.6451852	103.7981904	101.9926383	100.2273599	98.50122655	96.81314812	95.16207166	93.54697982
ADV1019054	9/19/2025	3.821	7/20/2026	102.5302	101.8804644	101.2389753	100.6055777	99.98011899	99.36245036	98.75242665	98.1499063	97.55475124
ADV1018193	8/18/2025	3.995	10/5/2026	103.54469	102.6758877	101.8216849	100.9817171	100.1556302	99.34308187	98.54374084	97.75728664	96.98340911
ADV1019552	10/7/2025	4.188	12/8/2025	100.09999	100.0776541	100.055342	100.0330536	100.0107888	99.9885478	99.96633039	99.94413656	99.92196627
ADV1019606	10/9/2025	4.187	12/9/2025	100.11107	100.0859431	100.0608459	100.0357762	100.0107338	99.98571874	99.96073094	99.93577035	99.91083692
ADV1018610	9/3/2025	3.787	8/30/2030	119.58216	114.4561905	109.5843371	104.9525553	100.547657	96.35725523	92.36971106	88.57408338	84.96008304
ADV1020465	11/19/2025	4.49	11/19/2037	146.96056	133.1368332	120.8266939	109.8532253	100.0611672	91.31416197	83.49236077	76.49034397	70.2153132
ADV1017866	8/5/2025	3.749	8/5/2027	107.07157	105.3408173	103.6466927	101.9881023	100.3639921	98.77335036	97.2152047	95.68862072	94.19269989
ADV1019420	10/1/2025	3.715	10/2/2028	111.72657	108.7504756	105.8699376	103.0813784	100.3813766	97.76665673	95.23408219	92.78064855	90.40347733
ADV1018203	8/18/2025	3.886	8/18/2027	107.33641	105.5696408	103.8407725	102.1486472	100.4921575	98.87024106	97.28187817	95.72608932	94.20193339
ADV1019796	10/20/2025	3.711	10/20/2026	103.46853	102.5581117	101.6637379	100.7849846	99.92144472	99.07272514	98.23844624	97.41824126	96.6117558
ADV1019105	9/22/2025	4.119	12/22/2025	100.25789	100.1962859	100.1347701	100.0733437	100.0120064	99.95075793	99.88959821	99.82852702	99.76754415
ADV1019046	9/19/2025	3.854	6/22/2026	102.24158	101.6707819	101.1063656	100.5482248	99.99625512	99.45035437	98.91042274	98.37636253	97.84807821
ADV1020386	11/17/2025	3.804	11/17/2026	103.87969	102.8887423	101.9167318	100.9631181	100.0273817	99.10902283	98.20755997	97.32252935	96.45348406
ADV1019503	10/3/2025	4.098	1/2/2026	100.37866	100.2862774	100.1940641	100.1020223	100.0101515	99.91845107	99.82692069	99.73555982	99.644368
ADV1019948	10/27/2025	4.189	12/1/2025	100.01685	100.0140625	100.0112813	100.0085025	100.0057262	100.0029523	100.0001808	99.99741167	99.99464497
ADV1020343	11/13/2025	4.126	12/4/2025	100.04768	100.0365611	100.0254563	100.0143621	100.0032784	99.99220537	99.98114284	99.97009084	99.95904934
ADV1017990	8/8/2025	3.837	8/8/2028	111.44396	108.6279439	105.8983964	103.252099	100.6859758	98.19708707	95.78262275	93.43989519	91.16633302
ADV1020576	11/24/2025	3.912	5/29/2026	102.00501	101.4973731	100.9947604	100.4970982	100.0043139	99.51633596	99.0330945	98.55452087	98.08054777
ADV1019877	10/24/2025	3.64	8/20/2030	118.76854	113.6902721	108.862791	104.2722962	99.90582426	95.75119552	91.79696216	88.03235964	84.44726191
ADV1018790	9/10/2025	4.21	12/10/2025	100.12781	100.0997966	100.0718139	100.0438625	100.0159424	99.98805352	99.9601958	99.93236918	99.90457361
ADV1020568	11/24/2025	4.036	2/23/2026	100.96357	100.7258536	100.4892629	100.2537863	100.0194159	99.78614376	99.55396227	99.32286376	99.09284066
ADV1018219	8/18/2025	4.202	2/18/2026	100.95837	100.732128	100.5068958	100.282668	100.0594376	99.83719811	99.61594277	99.39566505	99.17635844
ADV1018232	8/19/2025	3.817	8/21/2028	111.53538	108.68179	105.9167169	103.2368234	100.6389277	98.11999154	95.67711165	93.30751321	91.00854284
ADV1020278	11/10/2025	3.72	11/10/2026	103.7853	102.8135195	101.8599624	100.9241178	100.0054948	99.10362068	98.21803992	97.34831332	96.49401739
ADV1020396	11/17/2025	4.13	12/17/2025	100.19351	100.1462304	100.0990131	100.0518579	100.0047645	99.95773286	99.91076288	99.86385441	99.81700733
ADV1020252	11/7/2025	3.838	8/31/2026	103.01165	102.243003	101.4858263	100.7398668	100.0048764	99.28061453	98.56684742	97.86334812	97.16989615
ADV1019316	9/29/2025	3.719	9/28/2029	116.0085	111.920148	108.0006026	104.2420036	100.6369024	97.17823383	93.8592947	90.67372297	87.61547885
ADV1020475	11/19/2025	4.117	12/19/2025	100.21503	100.1621901	100.109423	100.0567281	100.0041054	99.95155449	99.89907539	99.84666791	99.79433189
ADV1020679	11/28/2025	4.109	12/29/2025	100.32524	100.2445949	100.1640822	100.083702	100.0034539	99.92333765	99.84335289	99.76349932	99.68377662
ADV1018788	9/10/2025	4.008	3/10/2026	101.14125	100.8588993	100.5781224	100.2989038	100.0212303	99.745089	99.47046726	99.19735244	98.92573207
ADV1018658	9/5/2025	3.59	9/7/2027	107.04698	105.2272692	103.4475107	101.7064916	100.0030494	98.33606813	96.70447531	95.10724031	93.54337209

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020389	11/17/2025	4.133	12/15/2025	100.171111	100.1294025	100.087746	100.0461419	100.0045901	99.96309045	99.92164294	99.88024743	99.83890381
ADV1019597	10/9/2025	3.698	10/12/2027	107.64527	105.721559	103.8419546	102.0051842	100.2100202	98.45527818	96.73981482	95.06252652	93.42234759
ADV1018661	9/5/2025	3.685	3/5/2027	105.05987	103.7598689	102.4902899	101.2500662	100.0381805	98.85366226	97.69558501	96.56306393	95.45525348
ADV1019840	10/21/2025	3.972	3/23/2026	101.27341	100.9554409	100.6394669	100.3254668	100.013422	99.70331426	99.39512551	99.08883793	98.78443391
ADV1019200	9/25/2025	3.765	9/27/2027	107.59661	105.7148893	103.8754925	102.0772059	100.3188609	98.59932988	96.91752481	95.27239528	93.66292706
ADV1019419	10/1/2025	3.598	10/1/2027	107.4701	105.5759216	103.724595	101.9149051	100.1456747	98.41576745	96.72408588	95.06957004	93.45119593
ADV1020245	11/7/2025	3.724	1/14/2030	116.89464	112.4885996	108.2763035	104.2481459	100.3950533	96.70845156	93.18023555	89.80274027	86.56871459
ADV1018739	9/9/2025	3.606	9/11/2028	111.17982	108.27175	105.4554791	102.7275398	100.0846236	97.52356862	95.0413523	92.63508385	90.30199771
ADV1019298	9/29/2025	3.763	9/30/2030	118.69604	113.8366716	109.2189883	104.8295298	100.655661	96.68551468	92.90794029	89.31245736	85.88921155
ADV1020441	11/18/2025	3.625	11/18/2027	108.06464	106.0305423	104.0454492	102.1078727	100.2163811	98.3695962	96.56619031	94.80488425	93.08444518
ADV1019687	10/14/2025	3.517	10/16/2028	111.51136	108.4944686	105.5757444	102.7514697	100.0180846	97.3721833	94.81050622	92.32993322	89.92747666
ADV1018678	9/5/2025	3.624	9/7/2027	107.10815	105.2878793	103.5075648	101.766	100.0620221	98.39451471	96.76240524	95.16466275	93.60029595
ADV1020266	11/10/2025	4.12	12/10/2025	100.11549	100.0876709	100.0598878	100.0321358	100.0044148	99.97672486	99.94906583	99.92143769	99.89384038
ADV1020137	11/3/2025	4.173	12/1/2025	100.01567	100.0128883	100.0101094	100.0073329	100.0045589	100.0017872	99.99901799	99.99625117	99.99348675
ADV1020650	11/26/2025	4.264	12/10/2025	100.117	100.0892374	100.0615034	100.0338005	100.0061286	99.97848758	99.95087749	99.92329822	99.89574973
ADV1020305	11/12/2025	3.703	7/25/2029	114.94986	111.0753339	107.3544966	103.7803659	100.3463184	97.04607025	93.87365777	90.82341883	87.88997565
ADV1019423	10/1/2025	3.699	10/1/2026	103.30775	102.4504207	101.6073283	100.7781184	99.96244988	99.15999296	98.37042835	97.59344705	96.82874982
ADV1020644	11/26/2025	4.186	12/18/2025	100.20617	100.1561543	100.1062058	100.0563242	100.0065095	99.95676144	99.90707997	99.85746494	99.8079162
ADV1020538	11/21/2025	3.738	11/23/2026	103.88397	102.876184	101.8879712	100.9187688	99.96803142	99.03523461	98.11987348	97.22146199	96.33953202
ADV1020141	11/3/2025	4.173	12/3/2025	100.03843	100.0300883	100.0217505	100.0134203	100.0050979	99.99678317	99.98847614	99.98017677	99.97188507
ADV1020039	10/30/2025	4.138	12/11/2025	100.12901	100.098375	100.0677724	100.037205	100.0066726	99.97617513	99.94571262	99.91528498	99.88489212
ADV1019258	9/26/2025	4.118	12/26/2025	100.30211	100.2293111	100.1566236	100.0840496	100.0115889	99.93924124	99.86700635	99.79488396	99.72287383
ADV1019165	9/24/2025	4.075	1/7/2026	100.43576	100.3292233	100.222927	100.1168655	100.0110378	99.90544329	99.80008105	99.6949503	99.59005027
ADV1018283	8/20/2025	3.954	8/20/2026	103.02249	102.283786	101.5556916	100.8379831	100.1304389	99.43284396	98.74498906	98.06667091	97.39769181
ADV1020624	11/25/2025	3.717	11/25/2026	103.88559	102.8721873	101.8785793	100.9041872	99.94845697	99.01085587	98.09087112	97.18800919	96.30179482
ADV1019630	10/10/2025	4.106	1/12/2026	100.49491	100.3745078	100.2544116	100.1346166	100.0151217	99.89592555	99.77702714	99.65842527	99.54011878
ADV1020431	11/18/2025	4.126	12/18/2025	100.20441	100.154354	100.1043616	100.0544362	100.0045777	99.95478603	99.90506095	99.85540236	99.80581011
ADV1019117	9/23/2025	3.986	3/25/2026	101.30507	100.9804072	100.6578139	100.3372681	100.0187505	99.70224165	99.38772272	99.07517489	98.76457964
ADV1020045	10/30/2025	4.124	12/19/2025	100.21853	100.1655709	100.112683	100.0598675	100.0071243	99.95445314	99.90185391	99.84932647	99.79687065
ADV1019370	9/30/2025	3.828	9/30/2026	103.3417	102.4878197	101.6480513	100.8220515	100.0094836	99.21002186	98.42335092	97.6491655	96.88716994
ADV1019317	9/29/2025	3.692	3/29/2027	105.44436	104.0852314	102.7507757	101.4403678	100.1534007	98.88928785	97.64746194	96.42737428	95.22849399
ADV1019798	10/20/2025	4.211	12/22/2025	100.25928	100.1978625	100.136532	100.0752906	100.0141379	99.95307394	99.8920984	99.83121111	99.77041188
ADV1019983	10/28/2025	3.777	9/15/2026	103.13044	102.3194257	101.5211899	100.7354278	99.96184833	99.20016924	98.45011711	97.71142679	96.98384117

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020311	11/12/2025	4.112	12/17/2025	100.19343	100.1461257	100.0988822	100.0517008	100.0045813	99.95752366	99.91052765	99.86359318	99.81672013
ADV1020676	11/28/2025	4.109	12/29/2025	100.32524	100.2445949	100.1640822	100.083702	100.0034539	99.92333765	99.84335289	99.76349932	99.68377662
ADV1017890	8/5/2025	4.134	5/5/2026	101.84797	101.4030586	100.961973	100.5246649	100.091086	99.66118855	99.2349259	98.81225205	98.39312178
ADV1020087	10/31/2025	3.793	10/30/2026	103.72126	102.7807066	101.8572192	100.9503408	100.059626	99.1846452	98.32498402	97.48024242	96.65003422
ADV1018426	8/26/2025	3.778	5/25/2029	114.54504	110.8521478	107.3003983	103.8836241	100.5959618	97.43183598	94.38594259	91.45323456	88.62890779
ADV1020302	11/12/2025	4.035	2/12/2026	100.83787	100.6308625	100.4247145	100.2194197	100.0149727	99.81136837	99.60860135	99.40666644	99.20555847
ADV1018133	8/14/2025	3.855	8/16/2027	107.25904	105.4984762	103.7755982	102.0892575	100.438356	98.82183974	97.23869687	95.6879555	94.16868168
ADV1020244	11/7/2025	3.729	3/1/2030	117.42959	112.873949	108.5238705	104.3688902	100.3991435	96.60532465	92.97865084	89.51082977	86.19402908
ADV1020499	11/20/2025	4.136	12/22/2025	100.24972	100.1885254	100.1274198	100.0664028	100.0054744	99.94463421	99.88388219	99.8232181	99.76264175
ADV1020640	11/26/2025	4.274	12/3/2025	100.03564	100.0273168	100.019001	100.0106928	100.0023923	99.99409955	99.98581442	99.97753694	99.9692671
ADV1018664	9/5/2025	3.554	9/5/2028	110.9678	108.0799803	105.2828773	102.5730557	99.94723641	97.40228731	94.93521595	92.54316203	90.22339049
ADV1019081	9/22/2025	3.981	12/22/2025	100.2491	100.1875131	100.1260186	100.0646133	100.0032972	99.9420699	99.8809313	99.81988119	99.75891937
ADV1017799	8/1/2025	3.848	10/1/2027	107.80224	105.9073163	104.0552106	102.2447077	100.4746325	98.74385036	97.05126578	95.39582047	93.77649201
ADV1020308	11/12/2025	4.035	2/12/2026	100.83787	100.6308625	100.4247145	100.2194197	100.0149727	99.81136837	99.60860135	99.40666644	99.20555847
ADV1018139	8/14/2025	4.142	5/14/2026	101.95744	101.4868975	101.0206416	100.5586135	100.1007561	99.64701273	99.19732816	98.75164795	98.3099187
ADV1020363	11/14/2025	4.122	12/15/2025	100.17112	100.1293943	100.0877238	100.0461059	100.0045402	99.96302672	99.92156538	99.88015604	99.83879862
ADV1018831	9/12/2025	3.968	8/29/2031	123.76618	117.486186	111.572634	106.002058	100.7526221	95.80400125	91.13726812	86.73478892	82.58012799
ADV1020269	11/10/2025	4.018	2/27/2026	101.00758	100.758209	100.5100652	100.2631371	100.0174158	99.77289258	99.52955867	99.28740544	99.04642434
ADV1019500	10/3/2025	3.592	10/4/2027	107.4922	105.5895389	103.7300914	101.9126269	100.1359537	98.3989216	96.70041986	95.03937596	93.41475387
ADV1018780	9/10/2025	4.209	12/10/2025	100.12778	100.0997658	100.0717832	100.0438319	100.0159118	99.98802302	99.96016536	99.93233882	99.90454332
ADV1020607	11/28/2025	3.691	1/29/2027	104.64383	103.4427829	102.2693336	101.1225402	100.0015014	98.90535616	97.83328131	96.78448972	95.75822827
ADV1019778	10/17/2025	3.521	4/19/2027	105.45782	104.0403189	102.6488431	101.2827324	99.94135193	98.62408771	97.33034556	96.05955043	94.81114562
ADV1020614	11/25/2025	4.136	12/26/2025	100.29405	100.2217433	100.1495484	100.0774662	100.0054966	99.93363929	99.86189395	99.79026036	99.71873826
ADV1019509	10/3/2025	3.693	10/3/2028	111.67343	108.6953102	105.8128964	103.0226068	100.3210116	97.70482725	95.17090963	92.71624724	90.33795493
ADV1020577	11/24/2025	3.873	6/30/2026	102.34048	101.7471026	101.160603	100.5808617	100.0077623	99.44119129	98.88103754	98.32719248	97.77955
ADV1019166	9/24/2025	4.062	1/14/2026	100.51511	100.3888734	100.2629716	100.1373994	100.0121555	99.88723846	99.76264707	99.63837996	99.51443582
ADV1019964	10/27/2025	4.056	1/27/2026	100.65901	100.4967132	100.3349399	100.1736908	100.0129632	99.8527547	99.69306272	99.53388478	99.3752184
ADV1020633	11/25/2025	3.913	5/26/2026	101.97147	101.4724777	100.9783526	100.4890197	100.0044096	99.52445415	99.04908664	98.57824147	98.11185435
ADV1019744	10/16/2025	3.723	10/16/2026	103.43515	102.5360682	101.6526401	100.7844574	99.93112752	99.09227115	98.2675218	97.45652529	96.65893922
ADV1019346	9/30/2025	3.72	9/29/2028	111.70382	108.7364543	105.8641191	103.083264	100.3904907	97.78254567	95.25631367	92.80881061	90.43717751
130416A00025	4/16/2013	2.27	4/18/2028	100.19483	100.1087007	100.0039829	99.43068138	98.3714641	97.20555306	96.05344404	94.92543739	93.82093568
151223A00007	12/23/2015	3.76	12/23/2030	100.26529	100.231107	100.145075	100.0096657	98.76664998	95.90718434	92.25752845	88.56386885	85.04013941
161012A00020	10/11/2016	2.96	10/14/2031	100.25425	100.1680659	100.0472643	98.90342279	95.81938955	91.76464695	87.5810451	83.59190423	79.8265886

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
170515A00052	5/15/2017	3.78	5/15/2042	100.32486	100.2380612	100.1178034	98.82061397	94.81337476	89.30675733	83.59152609	78.26545793	73.43310523
170519A00006	5/19/2017	3	5/19/2032	100.25769	100.1715074	100.0854672	99.57788509	97.68693818	95.00079081	92.18719196	89.47426137	86.88146176
170705A00037	7/5/2017	2.85	7/6/2032	104.62056	103.114739	101.5080153	99.56024306	97.03903961	94.12721198	91.18266846	88.36082007	85.67057395
170802A00074	8/2/2017	2.92	8/2/2027	99.994892	99.99223239	99.98957336	99.81026239	98.83301147	97.46081236	96.03505318	94.63627587	93.26606645
170809A00042	8/9/2017	2.35	8/9/2027	100.20172	100.1155836	100.0214692	99.61324263	98.82193586	97.95852967	97.10393333	96.2643611	95.43944855
171004A00022	10/4/2017	2.74	10/4/2027	100.23531	100.1491379	100.063117	99.73193282	98.61242202	97.11025917	95.56877739	94.05959083	92.58377396
171005A00047	10/5/2017	3.29	10/5/2032	100.28267	100.196458	100.1103964	99.46242036	96.9534228	93.22095532	89.21568395	85.37014768	81.74820055
180105A00005	1/5/2018	3.07	1/5/2028	100.26372	100.1775299	100.0914846	99.95821603	99.32538982	98.3397432	97.29323471	96.2637373	95.25429932
180105A00006	1/5/2018	3.07	1/5/2028	100.26372	100.1775299	100.0914846	99.95821603	99.32538982	98.3397432	97.29323471	96.2637373	95.25429932
180130A00087	1/30/2018	2.92	1/31/2028	100.25081	100.1646244	100.0785902	99.90406599	99.18328392	98.17212648	97.12349296	96.09355518	95.08373881
180302A00003	3/2/2018	3.89	3/2/2033	100.33023	100.2480799	100.161974	99.95290217	98.21971388	94.59667458	90.11414383	85.62792858	81.40880607
180315A00030	3/15/2018	3.76	3/15/2033	100.00298	100.0002069	99.99743996	99.76693987	97.58546661	93.6882855	89.16537388	84.73595215	80.58222458
180504A00024	5/4/2018	3.62	5/4/2028	100.00264	99.99988669	99.99713838	99.98812403	99.41737511	97.7981968	95.71450388	93.61436196	91.57125094
180627A00005	6/27/2018	3.63	6/30/2033	100.31194	100.2257104	100.1396237	99.99861052	98.73501835	96.10458003	92.93842319	89.80454672	86.8230687
180703A00033	7/3/2018	3.4	7/3/2028	100.28629	100.2001356	100.1141302	100.0122047	99.46434042	98.36225821	97.10075956	95.85178976	94.63044337
190111A00040	1/11/2019	3.74	1/11/2034	100.00288	100.0000904	99.99730709	99.7321036	97.51079631	93.70772401	89.37883224	85.17096677	81.23530688
190116A00015	1/16/2019	3.61	1/17/2034	100.30437	100.2182023	100.1321813	99.90873833	98.32905276	95.39261374	92.0088212	88.70077141	85.56558374
190204A00054	2/4/2019	3.98	2/6/2034	100.29828	100.2500339	100.1639857	99.88003872	97.79418104	93.76281475	88.91621405	84.11463159	79.6273949
190222A00023	2/22/2019	3.66	2/22/2034	101.21762	100.8841635	100.4784589	99.35084469	96.27467261	91.60529473	86.47549588	81.54708613	76.96994174
190301A00015	3/1/2019	3.86	3/1/2034	101.19614	100.9373293	100.6257716	99.74219078	97.02880305	92.54544869	87.37726076	82.33124352	77.63549859
190409A00016	4/9/2019	2.91	4/9/2029	100.24994	100.1637641	100.0777306	99.66516534	98.06670481	95.75447787	93.31330683	90.93973037	88.6472554
190409A00017	4/9/2019	3.01	4/9/2029	100.25856	100.1723677	100.0863269	99.72189853	98.1186758	95.65466574	92.99958936	90.41304922	87.91776977
190430A00020	4/30/2019	3.41	4/28/2034	101.47412	101.0314769	100.4100607	98.69789245	94.90873393	89.82846119	84.5258829	79.5121214	74.86899371
190520A00018	5/20/2019	3.7	5/20/2044	99.997158	99.99451851	99.88771375	97.73318012	92.75796704	86.56509426	80.38304565	74.70031585	69.58522184
190530A00044	5/30/2019	2.85	5/30/2034	100.24478	100.1586019	100.03191	98.85351797	96.02897994	92.53204409	89.03000163	85.7056705	82.56579
190807A00041	8/7/2019	2.27	8/7/2034	100.19483	100.1087007	99.52953311	97.16395855	93.67754345	90.01244904	86.50126168	83.18927904	80.06584342
190807A00044	8/7/2019	2.27	8/7/2034	100.19483	100.1087007	99.52953311	97.16395855	93.67754345	90.01244904	86.50126168	83.18927904	80.06584342
190827A00044	8/27/2019	1.9	8/27/2029	100.16297	100.0768672	99.78815762	98.59547059	96.9049788	95.15474384	93.44729289	91.78881836	90.17762138
190930A00079	9/30/2019	2.04	10/1/2029	100.17503	100.0889123	99.87656624	98.78385291	97.09996157	95.3144418	93.56839726	91.87318069	90.22712665
190930A00083	9/30/2019	2.04	10/1/2029	100.17503	100.0889123	99.87656624	98.78385291	97.09996157	95.3144418	93.56839726	91.87318069	90.22712665
191007A00012	10/7/2019	2	10/5/2029	100.16574	100.0796914	99.79860333	98.58790412	96.84071799	95.02285635	93.2496196	91.52886273	89.85875245
191007A00013	10/7/2019	2	10/5/2029	100.16574	100.0796914	99.79860333	98.58790412	96.84071799	95.02285635	93.2496196	91.52886273	89.85875245
191028A00015	10/28/2019	2.49	10/27/2034	100.21378	100.1276287	99.77972778	97.755639	94.37854747	90.66573064	87.07281686	83.68362306	80.49042248

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
191031A00036	10/31/2019	2.9	10/31/2039	100.24323	100.1571199	99.44423858	96.35700957	91.52457534	86.3002444	81.33624661	76.77308788	72.58970105
191031A00037	10/31/2019	2.59	10/30/2034	100.21654	100.1304501	99.81342208	97.85744289	94.5142709	90.81019166	87.21822812	83.82896388	80.6354501
191220A00029	12/20/2019	2.57	12/19/2031	100.21482	100.1287294	99.99869852	98.89818488	96.62588532	93.96608063	91.33099533	88.80267803	86.38056244
200108A00009	1/8/2020	2.4	1/8/2035	99.999236	99.99648153	99.53336651	97.15619289	93.58497	89.80527789	86.18894834	82.79318161	79.606245
200108A00040	1/8/2020	2.52	1/8/2030	100.21051	100.1244279	99.95891886	98.66597339	96.04623911	92.95924899	89.88772618	86.93744764	84.10918904
200110A00012	1/10/2020	2.57	1/10/2035	100.21482	100.1287294	99.76283647	97.67848236	94.22450105	90.43304975	86.76792826	83.31509369	80.06630633
200115A00023	1/15/2020	2.16	1/15/2030	100.17952	100.0934565	99.8881026	98.76020312	96.96639748	95.04491221	93.1653463	91.3439482	89.57884684
200306A00021	3/6/2020	1.16	3/6/2030	100.09341	99.88734178	98.68271372	96.77191363	94.7536042	92.78685481	90.88344831	89.0412139	87.25768085
200309A00013	3/9/2020	1.1	3/8/2030	100.08824	99.84929931	98.57869508	96.64581528	94.62731149	92.66296787	90.76200375	88.92214073	87.14091019
200316A00030	3/16/2020	1.35	3/15/2030	100.11561	99.99742486	99.09379809	97.30226967	95.28958156	93.30997591	91.39324876	89.53819848	87.74233874
200316A00032	3/16/2020	1.35	3/15/2030	100.11561	99.99742486	99.09379809	97.30226967	95.28958156	93.30997591	91.39324876	89.53819848	87.74233874
200318A00015	3/18/2020	1.69	3/18/2030	99.997391	99.99468323	99.49435475	97.84982525	95.77052139	93.6754413	91.64436013	89.68041849	87.78093134
200326A00035	3/26/2020	1.68	3/26/2030	100.13819	100.0445167	99.4440413	97.82865376	95.84437277	93.85772517	91.9315371	90.06726308	88.26244052
200423A00008	4/23/2020	1.59	4/23/2030	99.997065	99.95272477	98.72405813	95.87717551	92.44653629	89.02958048	85.75496546	82.62735815	79.63948776
200423A00009	4/23/2020	1.59	4/23/2030	99.997065	99.95272477	98.72405813	95.87717551	92.44653629	89.02958048	85.75496546	82.62735815	79.63948776
200423A00010	4/23/2020	1.59	4/23/2030	99.997065	99.95272477	98.72405813	95.87717551	92.44653629	89.02958048	85.75496546	82.62735815	79.63948776
200430A00021	4/30/2020	1.2	4/30/2030	100.09686	99.9047514	98.72213807	96.79345525	94.7393247	92.73645524	90.79903268	88.92489254	87.11144407
200505A00010	5/5/2020	0.89	5/6/2030	100.076	99.72531018	98.25090561	96.20564936	94.11607586	92.08944058	90.13043079	88.23638531	86.40460965
200512A00023	5/12/2020	1.78	5/11/2035	99.997661	99.55285989	96.71157494	91.99932468	86.78979973	81.7894213	77.15096112	72.866154	68.90523017
200609A00003	6/9/2020	1.66	6/8/2035	100.11359	99.07474705	95.46228417	90.13361013	84.45442435	79.07100203	74.1105386	69.5546339	65.36729235
200612A00001	6/12/2020	0.75	6/12/2030	100.06395	99.57980875	97.93614524	95.82296664	93.70179273	91.64866166	89.66517336	87.74845944	85.89571289
201022A00008	10/22/2020	1.02	10/22/2035	100.04202	98.72851658	95.37966077	91.21851513	87.09929526	83.22458852	79.59989109	76.20725579	73.02901855
201029A00008	10/29/2020	0.92	10/29/2030	100.07275	99.64258177	97.99182279	95.76355911	93.50339249	91.31714601	89.2092678	87.17645185	85.2153818
201030A00025	10/30/2020	2.02	10/28/2050	99.968063	97.58096894	91.89925303	84.38831534	76.6831387	69.62654191	63.44208135	58.07279183	53.40039228
201116A00019	11/16/2020	1.32	11/15/2030	100.10719	99.72721687	97.65717534	94.28300985	90.62475935	87.08000389	83.70493958	80.49406016	77.43836888
201118A00015	11/18/2020	1.66	11/18/2036	102.50126	98.79993141	93.62364926	87.31747802	80.8642527	74.84637712	69.37656289	64.41901951	59.92165553
201118A00017	11/18/2020	1.66	11/18/2036	102.50126	98.79993141	93.62364926	87.31747802	80.8642527	74.84637712	69.37656289	64.41901951	59.92165553
201118A00018	11/18/2020	1.85	11/18/2036	102.8988	99.36073976	94.3840598	88.20410198	81.76229441	75.71168241	70.20281728	65.20819814	60.67610551
201202A00016	12/2/2020	1.32	12/3/2035	100.09251	99.20090015	96.19660193	92.09189817	87.90334081	83.94399402	80.24155215	76.77913935	73.53828221
201202A00017	12/2/2020	1.32	12/3/2035	100.09251	99.20090015	96.19660193	92.09189817	87.90334081	83.94399402	80.24155215	76.77913935	73.53828221
201229A00003	12/29/2020	1.28	12/30/2030	100.10374	99.65652081	97.44616897	93.96899298	90.24204067	86.64171197	83.21764977	79.96325599	76.86905532
201230A00018	12/30/2020	1.52	12/28/2035	102.47269	98.76925075	93.69346775	87.59568539	81.39800194	75.61155704	70.32438189	65.50344908	61.10409518
210108A00007	1/8/2021	1.65	1/8/2036	100.29573	98.84122709	94.90170679	89.30989581	83.42470775	77.87953647	72.79264212	68.14019864	63.88162774

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
210405A00013	4/5/2021	1.82	4/7/2036	100.89809	100.0158806	97.79773749	94.00613261	89.7246089	85.57933919	81.69751299	78.07382832	74.68837701
210622A00004	6/22/2021	2.42	6/20/2036	101.54418	100.3679241	97.77882538	93.07534122	87.25338074	81.4260076	76.01182456	71.06526695	66.5491045
210623A00024	6/23/2021	1.56	6/23/2026	99.991216	99.98857662	99.78966708	99.25543802	98.70508056	98.16074198	97.62239484	97.08994089	96.56328378
210910A00009	9/10/2021	1.77	9/10/2036	101.63508	100.2335669	97.66875285	93.71467851	89.28832809	85.0118749	81.01661539	77.29623946	73.82887022
210924A00016	9/24/2021	1.91	9/24/2036	101.78849	100.4791389	98.13361676	94.34602523	89.94810302	85.64850724	81.62352506	77.87503566	74.38148423
211019A00005	10/19/2021	2.49	10/20/2036	102.43175	100.9168804	98.15703005	93.4929031	87.6215588	81.66788058	76.12226187	71.0642369	66.45713293
211110A00017	11/10/2021	2.01	11/10/2036	102.25711	100.7959872	98.40650912	94.65797694	90.23331449	85.87055991	81.78278843	77.97895719	74.43709719
211116A00012	11/16/2021	2.22	12/18/2034	102.4699	101.2356289	99.45936029	96.58084862	92.90222511	89.13243997	85.5440931	82.16676549	78.98758051
211124A00008	11/24/2021	2.62	11/22/2041	102.85724	101.2451655	98.50549477	93.96847115	88.26018325	82.49453821	77.15661745	72.31373763	67.9237688
211215A00020	12/15/2021	1.85	12/15/2031	102.23267	101.0388956	99.50105088	97.27852997	94.61450968	91.92983765	89.34749439	86.8744415	84.50528636
211227A00012	12/27/2021	2.39	12/29/2036	106.87153	102.8410469	97.92209386	92.0328066	85.58465087	79.2631286	73.43055228	68.13939544	63.34341222
220217A00024	2/17/2022	2.43	2/17/2027	99.993388	99.99069937	99.97901637	99.52366434	98.56524697	97.50358441	96.45313184	95.42336011	94.41369886
220831A00108	8/31/2022	4.07	8/31/2027	99.998097	99.99543908	99.9927821	99.99012607	99.86420826	98.8934553	97.38774952	95.80351455	94.2514814
221212A00004	12/12/2022	4.36	12/10/2032	109.12069	107.14081	105.1842673	103.1978842	101.0632709	98.6307422	95.80632938	92.8096032	89.90778245
221214A00057	12/14/2022	4.65	12/14/2027	100.39364	100.30369	100.2138927	100.1242481	100.0277282	99.52828947	98.12983313	96.3648216	94.61182934
221222A00137	12/22/2022	5.4	12/22/2037	110.95635	108.9002843	106.8376239	104.6852814	102.2459171	99.2606299	95.49490748	91.16185115	86.86642955
240403A00012	4/3/2024	4.82	4/3/2029	107.18172	105.7368732	104.3169966	102.9109826	101.4701196	99.86743659	97.86978355	95.49771709	93.10882808
ADV1007645	7/5/2024	4.781	7/5/2029	107.56949	106.0484562	104.5541675	103.0723318	101.5483212	99.85701568	97.78043777	95.32685515	92.84670249
ADV1007841	7/12/2024	0	7/12/2029	99.587208	97.34623535	94.11266823	90.81906958	87.64555889	84.59698289	81.66790629	78.85302538	76.14729757
ADV1007842	7/12/2024	0	7/12/2029	99.587208	97.34623535	94.11266823	90.81906958	87.64555889	84.59698289	81.66790629	78.85302538	76.14729757
ADV1007970	7/17/2024	0	7/17/2029	99.592434	97.33694182	94.08940697	90.78423328	87.60024467	84.54198706	81.60396275	78.7808192	76.06746832
ADV1008036	7/19/2024	0	7/19/2029	99.594515	97.33320976	94.08009905	90.77030322	87.58212657	84.5199997	81.57840021	78.75195597	76.03556075
ADV1008090	7/23/2024	0	7/23/2029	99.598661	97.32572184	94.06148098	90.74245074	87.54590334	84.47604377	81.5273006	78.69426246	75.97178694
ADV1008152	7/24/2024	0	7/24/2029	99.599694	97.32384479	94.05682596	90.73548921	87.53685024	84.4650587	81.51453101	78.67984595	75.9558521
ADV1008200	7/25/2024	0	7/25/2029	99.600726	97.32196575	94.05217084	90.7285283	87.52779822	84.45407519	81.50176353	78.66543218	75.9399207
ADV1008212	7/26/2024	0	7/26/2029	99.601757	97.32008521	94.04751572	90.72156804	87.51874728	84.44309325	81.48899818	78.65102115	75.92399274
ADV1008308	7/31/2024	0	7/31/2029	99.605733	97.31036313	94.02420899	90.68677514	87.4735088	84.38820702	81.42520322	78.57900716	75.84440452
ADV1008367	8/1/2024	0	8/1/2029	99.555663	97.29004184	94.01735886	90.67971583	87.46442729	84.3771959	81.41241116	78.56457313	75.82845793
ADV1008427	8/2/2024	0	8/2/2029	99.556725	97.28818001	94.01269034	90.67272744	87.4553472	84.36618636	81.39962123	78.55014186	75.8125148
ADV1008515	8/6/2024	0	8/6/2029	99.560957	97.28071129	93.99401263	90.64478027	87.41903778	84.32216397	81.34848288	78.49244436	75.74877681
ADV1008530	8/7/2024	0	8/7/2029	99.562012	97.27883929	93.98934228	90.63779512	87.40996315	84.31116231	81.33570362	78.47802687	75.73285094
ADV1008591	8/9/2024	0	8/9/2029	99.564118	97.27508991	93.98000046	90.62382679	87.39181718	84.28916373	81.31015151	78.44920016	75.70100955
ADV1008654	8/13/2024	0	8/13/2029	99.568313	97.26756956	93.96131329	90.59589796	87.35553832	84.24518548	81.25907288	78.39157977	75.63736816

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1008769	8/19/2024	0	8/20/2029	99.575608	97.25434082	93.92860646	90.54704756	87.29209233	84.16828415	81.16976729	78.29084999	75.52612835
ADV1008780	8/19/2024	0	8/20/2029	99.575608	97.25434082	93.92860646	90.54704756	87.29209233	84.16828415	81.16976729	78.29084999	75.52612835
ADV1008881	8/22/2024	0	8/22/2029	99.577682	97.25054828	93.91926146	90.53309613	87.27397472	84.14632651	81.14427056	78.26209479	75.49437653
ADV1008893	8/23/2024	0	8/23/2029	99.578717	97.24865052	93.914589	90.52612139	87.26491755	84.13535005	81.13152539	78.24772131	75.47850577
ADV1008894	8/23/2024	0	8/23/2029	99.578717	97.24865052	93.914589	90.52612139	87.26491755	84.13535005	81.13152539	78.24772131	75.47850577
ADV1008939	8/26/2024	0	8/27/2029	99.582846	97.2410486	93.89589926	90.49822897	87.22869976	84.09145991	81.08056598	78.19025483	75.41505713
ADV1008940	8/26/2024	0	8/27/2029	99.582846	97.2410486	93.89589926	90.49822897	87.22869976	84.09145991	81.08056598	78.19025483	75.41505713
ADV1009099	8/27/2024	0	8/27/2029	99.582846	97.2410486	93.89589926	90.49822897	87.22869976	84.09145991	81.08056598	78.19025483	75.41505713
ADV1009133	8/28/2024	0	8/28/2029	99.583875	97.23914533	93.89122682	90.4912575	87.21964804	84.08049131	81.06783144	78.17589507	75.39920355
ADV1009166	8/29/2024	0	8/29/2029	99.584686	97.23721103	93.8865516	90.48428655	87.2105974	84.06952428	81.05509903	78.16153805	75.38335341
ADV1009167	8/29/2024	0	8/29/2029	99.584686	97.23721103	93.8865516	90.48428655	87.2105974	84.06952428	81.05509903	78.16153805	75.38335341
ADV1009212	8/30/2024	0	8/30/2029	99.585477	97.23525763	93.88187424	90.47731624	87.20154785	84.05855881	81.04236874	78.14718378	75.36750671
ADV1009568	9/17/2024	0	9/17/2029	99.552671	97.1836869	93.7964186	90.35170178	87.03792373	83.86017927	80.81235926	77.88850511	75.08295851
ADV1009810	9/24/2024	0	9/24/2029	99.56022	97.17090288	93.76408621	90.30293506	86.97436774	83.78314163	80.72307028	77.78813059	74.97260219
ADV1009878	9/26/2024	0	9/26/2029	99.562368	97.1672438	93.75484965	90.28900775	86.95621881	83.76114516	80.69757838	77.75947684	74.9411025
ADV1010064	10/2/2024	0	10/2/2029	99.516982	97.13733076	93.72445549	90.24692325	86.90172858	83.69526665	80.62133875	77.67384387	74.84698704
ADV1010067	10/2/2024	0	10/2/2029	99.516982	97.13733076	93.72445549	90.24692325	86.90172858	83.69526665	80.62133875	77.67384387	74.84698704
ADV1010068	10/2/2024	0	10/2/2029	99.516982	97.13733076	93.72445549	90.24692325	86.90172858	83.69526665	80.62133875	77.67384387	74.84698704
ADV1010126	10/4/2024	4.138	10/4/2029	107.69182	105.9545722	104.2423032	102.5179893	100.6758885	98.5642127	96.08338226	93.44603813	90.87890431
ADV1010140	10/7/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010151	10/7/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010158	10/7/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010203	10/9/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010205	10/9/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010208	10/9/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010209	10/9/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010210	10/9/2024	0	10/9/2029	99.524101	97.12328808	93.69085903	90.19741251	86.83804597	83.61865035	80.53292012	77.57467449	74.73804305
ADV1010261	10/11/2024	0	10/11/2029	99.526124	97.11925794	93.68125476	90.18327231	86.81986093	83.59677419	80.50767664	77.5463646	74.70694624
ADV1010356	10/16/2024	0	10/16/2029	99.531158	97.10916215	93.6572371	90.14793341	86.77441777	83.54211141	80.44460479	77.47563695	74.62926258
ADV1010407	10/18/2024	0	10/18/2029	99.533163	97.10511547	93.64762952	90.13380247	86.75624827	83.52025734	80.41939079	77.4473647	74.59821244
ADV1010414	10/18/2024	0	10/18/2029	99.533163	97.10511547	93.64762952	90.13380247	86.75624827	83.52025734	80.41939079	77.4473647	74.59821244
ADV1010416	10/18/2024	0	10/18/2029	99.533163	97.10511547	93.64762952	90.13380247	86.75624827	83.52025734	80.41939079	77.4473647	74.59821244
ADV1010510	10/24/2024	0	10/24/2029	99.539147	97.09294496	93.61880519	90.09142542	86.70176642	83.45473296	80.3437993	77.36261241	74.50514195

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ADV1010633	10/31/2024	5.44	10/29/2049	121.42443	117.1729925	112.8006723	108.1712504	103.0655342	97.28035237	90.82707801	84.07870097	77.66028215
ADV1012378	1/15/2025	0	1/15/2030	99.462394	96.86887875	93.2138513	89.5035372	85.9442595	82.5421047	79.2895686	76.17932292	73.20443009
ADV1012454	1/17/2025	0	1/17/2030	99.464768	96.86467302	93.20408388	89.48925314	85.9259461	82.52011332	79.26422005	76.15091445	73.17323717
ADV1012574	1/22/2025	0	1/22/2030	99.46926	96.85413829	93.17966518	89.45355521	85.88018271	82.46516338	79.20088667	76.07994174	73.09531501
ADV1012601	1/23/2025	0	1/23/2030	99.470236	96.85202794	93.17478144	89.44641771	85.87103349	82.45417827	79.18822651	76.0657555	73.07974088
ADV1012603	1/23/2025	0	1/23/2030	99.470236	96.85202794	93.17478144	89.44641771	85.87103349	82.45417827	79.18822651	76.0657555	73.07974088
ADV1012608	1/23/2025	0	1/23/2030	99.470236	96.85202794	93.17478144	89.44641771	85.87103349	82.45417827	79.18822651	76.0657555	73.07974088
ADV1012631	1/24/2025	0	1/24/2030	99.471497	96.84991641	93.16989767	89.43928091	85.86188541	82.44319479	79.17556851	76.05157203	73.06417019
ADV1012660	1/27/2025	0	1/28/2030	99.474944	96.8414598	93.15036222	89.41074067	85.82530457	82.39927714	79.12495821	75.99486579	73.00192172
ADV1012688	1/27/2025	4.945	1/15/2030	105.89838	104.723829	103.5728508	102.4314345	101.2215332	99.68981452	97.33710078	94.14322431	90.82055738
ADV1013119	2/13/2025	0	2/13/2030	99.440084	96.79373873	93.07457254	89.29837087	85.67779084	82.2196097	78.91597533	75.75919574	72.74199725
ADV1013181	2/14/2025	0	2/14/2030	99.44208	96.79206617	93.07006536	89.29138568	85.66856142	82.20833354	78.90283416	75.74435778	72.72561823
ADV1013281	2/20/2025	4.459	3/15/2028	109.94746	107.8125085	105.7293575	103.6926756	101.6886123	99.69058629	97.66158422	95.6202909	93.62249954
ADV1013282	2/20/2025	5	1/7/2030	105.79772	104.6524132	103.5297008	102.4171773	101.2439728	99.77674975	97.51285528	94.37033053	91.06135343
ADV1013283	2/20/2025	0	2/20/2030	99.448669	96.7820179	93.04302799	89.24948965	85.61320961	82.14071256	78.82403612	75.65539361	72.6274241
ADV1013471	2/25/2025	4.715	3/2/2032	121.49351	116.8183399	112.2667282	107.7878311	103.3044363	98.76130712	94.09157066	89.37724585	84.84706481
ADV1013551	2/28/2025	0	2/28/2030	99.462012	96.77013651	93.00719549	89.19367686	85.53947301	82.05064717	78.71910262	75.53694408	72.49671151
ADV1013623	3/4/2025	0	3/4/2030	99.414145	96.74131463	92.98427459	89.1644439	85.50250367	82.00659903	78.66869853	75.48086376	72.4355911
ADV1013643	3/4/2025	0	3/4/2030	99.414145	96.74131463	92.98427459	89.1644439	85.50250367	82.00659903	78.66869853	75.48086376	72.4355911
ADV1013661	3/5/2025	0	3/5/2030	99.415133	96.73914491	92.97926798	89.15717348	85.49326465	81.99559112	78.65610293	75.4668505	72.42031933
ADV1014034	3/21/2025	0	3/21/2030	99.431285	96.70376439	92.89889799	89.04091333	85.34560075	81.81968901	78.4548679	75.24300844	72.17642391
ADV1014406	4/4/2025	0	4/4/2030	99.393524	96.65251775	92.82589697	88.93909588	85.21627748	81.66550735	78.27836771	75.04656126	71.9622424
ADV1014512	4/10/2025	0	4/10/2030	99.398657	96.63954131	92.79595858	88.89543656	85.16053479	81.59887258	78.20192055	74.96129724	71.86907833
ADV1014513	4/10/2025	0	4/10/2030	99.398657	96.63954131	92.79595858	88.89543656	85.16053479	81.59887258	78.20192055	74.96129724	71.86907833
ADV1015005	4/29/2025	0	4/29/2030	99.417386	96.59807442	92.70111714	88.75735317	84.98430222	81.38826314	77.96036668	74.69196307	71.57488183
ADV1015129	5/1/2025	0	5/1/2030	99.370801	96.57383572	92.68823234	88.74255667	84.96570359	81.36614029	77.9350771	74.66383686	71.54422279
ADV1015172	5/2/2025	5.176	5/2/2045	121.71563	117.0988549	112.3866739	107.4879995	102.2430656	96.56970204	90.54141085	84.47300767	78.77868242
ADV1015173	5/2/2025	5.176	5/2/2045	121.71563	117.0988549	112.3866739	107.4879995	102.2430656	96.56970204	90.54141085	84.47300767	78.77868242
ADV1015175	5/2/2025	5.176	5/2/2045	121.71563	117.0988549	112.3866739	107.4879995	102.2430656	96.56970204	90.54141085	84.47300767	78.77868242
ADV1015176	5/2/2025	5.173	5/2/2045	121.70148	117.0847005	112.3720425	107.4724515	102.2259424	96.55071143	90.52118334	84.45284017	78.75952172
ADV1016790	6/26/2025	0	6/26/2030	99.373075	96.42361948	92.39798332	88.32936018	84.44230512	80.74331437	77.22267926	73.87094042	70.67917843
ADV1017194	7/10/2025	0	7/10/2030	99.338955	96.37019545	92.32217885	88.22487235	84.31047599	80.58670009	77.04369436	73.67180789	70.46194259
ADV1017548	7/24/2025	0	7/24/2030	99.350231	96.33550406	92.24811721	88.11995712	84.17856609	80.4304706	76.86555823	73.47398358	70.24647033

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ADV1017985	8/8/2025	4.86	8/8/2035	123.45548	118.2154532	112.952549	107.5812574	101.9738883	96.07759869	89.89475431	83.65734454	77.76747551
ADV1019078	9/22/2025	4.184	10/1/2030	108.3965	106.4813874	104.5737905	102.5828437	100.2809118	97.37411667	93.7734568	89.92448537	86.21344803
ADV1020473	11/19/2025	4.176	11/1/2030	109.54244	107.3550095	105.1797171	102.9247738	100.382184	97.30537877	93.62039915	89.71933678	85.96237342
ADV1020474	11/19/2025	4.181	11/15/2030	109.55229	107.3644376	105.1879251	102.9297212	100.379463	97.28843846	93.58275376	89.65812121	85.87916611
ADV1020543	11/21/2025	3.804	11/21/2028	108.31764	106.2619403	104.2413947	102.2162229	100.089018	97.75019135	95.20387288	92.64271996	90.15998299
ADV1020545	11/21/2025	3.969	11/21/2030	112.97246	109.805189	106.6826535	103.5233359	100.1855027	96.56356585	92.65481385	88.71574559	84.94844438
211124A00006	11/26/2021	4.47	11/25/2026	100.13436	100.0065297	100.0045715	100.0002213	99.99358582	99.98476661	99.97385991	99.96095716	99.94614526
220608A00012	6/8/2022	4.8	6/8/2029	101.24243	101.0102077	101.0274618	101.0208604	100.9922476	100.9433378	100.8757252	100.7908924	100.6902184
220929A00039	9/29/2022	4.84	9/28/2029	101.39049	101.2391532	101.2523303	101.2383051	101.1993699	101.1376442	101.0550874	100.9535116	100.8345925
221115A00039	11/15/2022	4.62	11/16/2026	100.20161	100.1519118	100.1488574	100.1435349	100.1360452	100.1264844	100.1149434	100.1015089	100.0862634
221216A00018	12/16/2022	4.62	12/16/2026	100.2523	100.1811363	100.1787483	100.174712	100.1690957	100.1619644	100.15338	100.1434012	100.1320842
230307A00025	3/7/2023	4.62	3/7/2028	100.8332	100.3547344	100.3710967	100.3717469	100.3576048	100.3295398	100.2883733	100.2348821	100.1698005
230313A00111	3/13/2023	4.77	2/13/2026	100.10316	100.1002002	100.0969444	100.0934009	100.0895732	100.0854646	100.0810786	100.0764184	100.0714873
230313A00120	3/13/2023	4.77	4/13/2026	100.17339	100.1703887	100.1666856	100.1622966	100.1572336	100.1515083	100.145132	100.1381162	100.1304718
230313A00124	3/13/2023	4.77	5/13/2026	100.20405	100.2010468	100.1971458	100.1923672	100.1867296	100.1802513	100.1729501	100.1648434	100.1559482
230410A00022	4/10/2023	4.73	4/10/2028	100.92922	100.6143462	100.6291092	100.628083	100.6122707	100.5826157	100.5400053	100.4852741	100.4192075
230511A00058	5/11/2023	4.69	5/11/2028	100.92707	100.5273162	100.5442997	100.5451792	100.53099	100.5027049	100.461238	100.4074486	100.3421446
230816A00019	8/16/2023	4.67	8/16/2028	100.98139	100.4986728	100.519595	100.5215597	100.50578	100.4733977	100.4254885	100.3630655	100.2870834
230914A00009	9/14/2023	4.59	9/14/2028	100.95365	100.2817552	100.3063024	100.3108456	100.2967304	100.2652198	100.2174991	100.1546808	100.0778095
230922A00036	9/22/2023	4.56	9/22/2028	100.94442	100.1979668	100.2234809	100.228757	100.2151908	100.1840897	100.1366785	100.0741048	99.99744415
231025A00027	10/25/2023	4.59	10/25/2028	100.9737	100.2819059	100.3137911	100.3286627	100.327786	100.31234	100.2834243	100.2420638	100.1892145
231106A00009	11/6/2023	4.56	10/15/2026	100.14587	100.0906825	100.0879397	100.0832681	100.0767422	100.0684332	100.0584093	100.0467357	100.0334747
231115A00005	11/15/2023	4.55	11/16/2026	100.16477	100.0840761	100.0814342	100.0765183	100.0694295	100.0602639	100.0491128	100.0360628	100.0211964
231215A00007	12/15/2023	4.54	12/1/2026	100.17356	100.0769817	100.0746026	100.0699647	100.0631696	100.054314	100.0434898	100.030784	100.0162796
240112A00017	1/12/2024	4.61	1/12/2029	101.01786	100.3305648	100.3587905	100.364193	100.3484313	100.3130551	100.2595115	100.1891527	100.1032421
240116A00030	1/16/2024	4.49	1/15/2027	100.24999	100.0699207	100.069595	100.0690118	100.0681523	100.0670001	100.0655404	100.0637601	100.0616479
240215A00011	2/15/2024	4.47	2/16/2027	100.31231	100.072832	100.0742443	100.0767104	100.0801079	100.0843232	100.0892518	100.0947968	100.1008689
240314A00006	3/14/2024	4.57	3/14/2029	101.0455	100.209759	100.2377414	100.2424663	100.2256476	100.1888843	100.1336686	100.0613931	99.97335754
240315A00011	3/15/2024	4.45	3/15/2027	100.36156	100.072803	100.0777972	100.0796848	100.0785744	100.0745708	100.0677746	100.0582829	100.0461893
240327A00032	3/27/2024	4.43	3/26/2027	100.368	100.0501226	100.057528	100.0583382	100.0528693	100.0414217	100.0242809	100.0017183	99.97399183
240328A00053	3/28/2024	4.56	3/28/2029	101.04412	100.172612	100.2022727	100.2085659	100.1932518	100.1579695	100.1042455	100.033502	99.94706346
240415A00006	4/15/2024	4.42	4/15/2027	100.39101	100.0342397	100.0428486	100.0431873	100.0356787	100.0207237	99.99870283	99.96997699	99.93488896
240417A00013	4/17/2024	4.75	4/17/2031	101.26392	100.9285459	100.953505	100.941143	100.8953012	100.8194687	100.7168142	100.5902155	100.4422862

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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
240515A00015	5/15/2024	4.41	5/17/2027	100.42334	100.0058741	100.0167006	100.0189291	100.0130113	99.99937462	99.97842456	99.95054531	99.91610134
ADV1006428	5/28/2024	4.422	5/28/2027	100.43875	100.0173005	100.0292919	100.0325304	100.0274739	100.0145565	99.99418953	99.96676303	99.93264696
ADV1006699	6/3/2024	4.441	6/3/2027	100.45385	100.0437466	100.0556719	100.0586921	100.0532689	100.0398403	100.0188213	99.99060567	99.95556715
ADV1006870	6/10/2024	4.457	6/10/2027	100.47057	100.0671547	100.0785967	100.0809443	100.074655	100.0601631	100.0378808	100.0081997	99.97149193
ADV1007038	6/14/2024	4.464	6/14/2027	100.47922	100.0774871	100.0886817	100.0906808	100.0839375	100.0688826	100.0459253	100.0154547	99.97784099
ADV1007043	6/14/2024	4.524	6/14/2029	101.0575	100.0381586	100.0730941	100.0835144	100.0712883	100.0381549	99.98573279	99.91552833	99.82894402
ADV1007203	6/20/2024	4.463	6/21/2027	100.48882	100.0752549	100.0862255	100.0877951	100.0804128	100.0645064	100.0404827	100.0087295	99.96961614
ADV1007514	7/1/2024	4.475	7/1/2027	100.50777	100.0931523	100.1037271	100.1046062	100.0962366	100.0790446	100.0534369	100.0198016	99.97850929
ADV1007965	7/17/2024	4.472	7/19/2027	100.52505	100.0822479	100.0940787	100.0956154	100.0873393	100.0697093	100.0431632	100.0081188	99.96497468
ADV1008702	8/15/2024	4.503	8/16/2027	100.56717	100.1264023	100.1398504	100.1419318	100.133191	100.114147	100.0852944	100.0471052	100.0000292
ADV1008824	8/21/2024	4.503	8/23/2027	100.57404	100.1247383	100.1387314	100.1410589	100.1322827	100.1129382	100.0835359	100.0445622	99.99648144
ADV1009264	9/4/2024	4.52	9/7/2027	100.59894	100.1527206	100.1668664	100.1688289	100.159227	100.1386489	100.1076539	100.066774	100.0165152
ADV1010016	10/1/2024	4.498	10/1/2026	100.10616	100.0383944	100.035436	100.0305784	100.0238985	100.0154696	100.0053621	99.99364309	99.98037684
ADV1010293	10/15/2024	4.537	10/15/2027	100.64774	100.1822899	100.200539	100.2082966	100.2062147	100.1949073	100.1749534	100.1468981	100.1112558
ADV1010616	10/30/2024	4.468	10/30/2026	100.12876	100.0432832	100.0432453	100.0424002	100.0407801	100.0384156	100.0353356	100.0315682	100.0271398
ADV1010836	11/12/2024	4.548	11/12/2027	100.67889	100.2017403	100.2208266	100.2286061	100.2257953	100.2130685	100.1910605	100.1603694	100.1215584
ADV1010941	11/15/2024	4.553	11/15/2027	100.68457	100.2118711	100.2308166	100.2383785	100.2352803	100.2222029	100.1997874	100.1686375	100.1293216
ADV1011265	11/29/2024	4.212	12/1/2025	100.01168	100.0088955	100.006114	100.0033349	100.0005583	99.99778413	99.99501238	99.99224306	99.98947617
ADV1011500	12/12/2024	4.526	12/13/2027	100.6978	100.1549838	100.1755971	100.1843257	100.1819182	100.1690797	100.146474	100.1147268	100.0744274
ADV1012110	1/6/2025	4.521	1/6/2028	100.71527	100.1365936	100.1597492	100.1708479	100.1706203	100.1597558	100.1389049	100.1086816	100.0696658
ADV1013208	2/18/2025	4.47	2/18/2028	100.73719	100.0173092	100.0426947	100.0557826	100.0572737	100.0478322	100.0280875	99.99863589	99.96004298
ADV1013888	3/14/2025	4.477	3/14/2028	100.76561	100.0255073	100.0464836	100.0516341	100.041903	100.0181814	99.9813105	99.93208428	99.87125277
ADV1014315	4/2/2025	4.339	6/2/2026	100.02315	99.9992353	99.99732249	99.99498303	99.99222684	99.98906358	99.98550261	99.98155309	99.97722391
ADV1014403	4/4/2025	4.398	8/4/2026	100.04424	99.9912206	99.99009315	99.9883883	99.9861237	99.9833164	99.9799828	99.97613876	99.9717996
ADV1014613	4/15/2025	4.567	4/17/2028	100.83753	100.2296988	100.2547157	100.2672836	100.2682171	100.2582809	100.238193	100.2086272	100.1702169
ADV1014146	3/27/2025	4.506	3/27/2028	100.78791	100.0867208	100.1079519	100.1133127	100.1037851	100.0802939	100.0437101	99.99485429	99.9344996
ADV1015395	5/12/2025	4.523	5/12/2028	100.83437	100.1169355	100.1394754	100.1457735	100.1368701	100.1137428	100.0773103	100.0284362	99.96793245
ADV1016297	6/9/2025	4.317	4/10/2026	100.01362	99.99463553	99.98301962	99.97019592	99.95618682	99.9410143	99.9246999	99.90726477	99.88872966
ADV1016466	6/16/2025	4.331	6/16/2026	100.02221	99.98446046	99.98113561	99.97656139	99.97077192	99.96380031	99.95567869	99.94643828	99.93610942
ADV1020613	11/25/2025	4.306	2/25/2026	100.00831	100.0031818	100.0000132	99.99628622	99.99200764	99.9871842	99.98182254	99.9759292	99.96951067
ADV1019700	10/15/2025	4.509	10/16/2028	100.92998	100.0492763	100.0838954	100.1017064	100.1039484	100.0917766	100.0662685	100.0284291	99.97919609
ADV1018855	9/15/2025	4.535	9/15/2028	100.92665	100.1294189	100.1620084	100.1786713	100.1804957	100.1685018	100.1436467	100.1068282	100.0588886
ADV1019841	10/21/2025	4.38	10/21/2026	100.06978	99.92857997	99.92642407	99.92223822	99.91610905	99.90811914	99.89834722	99.88686838	99.87375432

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1020147	11/3/2025	4.495	11/3/2028	100.9295	100.0022928	100.0386864	100.057691	100.0606011	100.0486232	100.0228817	99.98442487	99.93423005
ADV1020298	11/12/2025	4.285	2/12/2026	100.00429	99.9994089	99.99610704	99.99240195	99.9882979	99.98379915	99.97890985	99.97363414	99.96797614
ADV1018298	8/21/2025	4.55	8/21/2028	100.91773	100.173023	100.2046624	100.2210854	100.2232557	100.2120826	100.1884237	100.1530883	100.1068399
ADV1018807	9/11/2025	4.22	9/11/2026	100.16426	99.96502309	99.96145957	99.95605617	99.94888108	99.93999969	99.92947471	99.91736628	99.90373221
ADV1019595	10/9/2025	4.235	1/9/2026	100.00014	99.9956891	99.99234188	99.98888034	99.98530517	99.98161712	99.97781687	99.97390511	99.96988256
ADV1019288	9/29/2025	4.178	12/29/2025	100.00035	99.99682109	99.99357848	99.99028121	99.98692952	99.98352367	99.98006389	99.97655042	99.97298353
ADV1018164	8/15/2025	4.543	8/15/2028	100.91103	100.1534757	100.1793747	100.1862389	100.1752818	100.1476461	100.1044081	100.0465818	99.97512253
ADV1009630	9/18/2024	4.665	9/18/2029	100.01261	100.009814	100.0070186	100.0042257	100.0014351	99.998647	99.99586126	99.99307794	99.99029703
ADV1010025	10/1/2024	4.676	10/1/2029	100.01264	100.0098503	100.00706	100.0042721	100.0014867	99.99870359	99.99592292	99.99314467	99.99036881
ADV1010137	10/7/2024	4.669	10/9/2029	100.01262	100.009833	100.0070446	100.0042585	100.0014749	99.99869375	99.99591496	99.99313857	99.99036458
ADV1010509	10/24/2024	4.686	10/24/2029	100.01267	100.0098881	100.0071066	100.0043276	100.0015509	99.99877672	99.99600488	99.99323544	99.9904684
ADV1010723	11/5/2024	4.746	11/5/2029	100.01284	100.0100588	100.0072809	100.0045055	100.0017324	99.99896178	99.99619352	99.99342766	99.99066419
ADV1010727	11/5/2024	4.555	8/5/2026	100.01231	100.0095286	100.0067512	100.0039761	100.0012034	99.99843318	99.9956653	99.99289982	99.99013673
ADV1010729	11/5/2024	4.545	5/5/2026	100.01228	100.0095009	100.0067234	100.0039484	100.0011757	99.9984055	99.99563765	99.99287219	99.99010911
ADV1010935	11/15/2024	4.699	5/15/2029	100.01271	100.0099331	100.0071596	100.0043884	100.0016197	99.99885341	99.99608947	99.99332793	99.99056877
ADV1010936	11/15/2024	4.625	2/15/2028	100.0125	100.0097276	100.0069542	100.0041831	100.0014145	99.99864826	99.99588441	99.99312294	99.99036386
ADV1010937	11/15/2024	4.605	11/15/2027	100.01245	100.0096721	100.0068987	100.0041277	100.001359	99.99859282	99.99582898	99.99306754	99.99030848
ADV1010971	11/18/2024	4.571	2/16/2027	100.01235	100.0095777	100.0068043	100.0040333	100.0012647	99.99849856	99.99573476	99.99297336	99.99021433
ADV1011039	11/20/2024	4.706	11/20/2029	100.01273	100.0099537	100.0071813	100.0044112	100.0016435	99.99887826	99.99611537	99.99335488	99.99059677
ADV1011270	11/29/2024	4.686	11/20/2029	100.01267	100.0098982	100.0071257	100.0043557	100.001588	99.99882279	99.99605992	99.99329944	99.99054135
ADV1011569	12/16/2024	4.691	12/14/2029	100.01268	100.0098825	100.0070859	100.0042916	100.0014998	99.99871033	99.9959233	99.99313869	99.99035649
ADV1011573	12/16/2024	4.679	9/14/2029	100.01265	100.0098515	100.0070549	100.0042607	100.0014689	99.9986795	99.99589253	99.99310797	99.99032581
ADV1011770	12/23/2024	4.661	6/21/2029	100.0126	100.0098046	100.0070107	100.0042192	100.0014301	99.99864348	99.99585923	99.99307739	99.99029795
ADV1012634	1/24/2025	4.664	1/24/2030	100.01261	100.0098226	100.0070412	100.0042623	100.0014858	99.99871164	99.99593991	99.99317058	99.99040363
ADV1012369	1/15/2025	4.647	7/16/2029	100.01256	100.0097753	100.0069898	100.0042068	100.0014262	99.99864806	99.99587227	99.99309888	99.99032789
ADV1012496	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012665	1/27/2025	4.597	1/29/2029	100.01242	100.0096415	100.0068607	100.0040823	100.0013063	99.99853264	99.99576142	99.99299259	99.98912573
ADV1012173	1/8/2025	4.682	11/21/2029	100.01266	100.0098883	100.0071169	100.0043479	100.0015813	99.99881707	99.99605526	99.99329583	99.99053879
ADV1012341	1/15/2025	4.59	4/17/2028	100.0124	100.0096172	100.0068319	100.0040492	100.0012688	99.99849078	99.9957152	99.99294201	99.99017122
ADV1012552	1/22/2025	4.627	1/22/2029	100.01251	100.0097219	100.0069384	100.0041573	100.0013786	99.99860233	99.99582845	99.99305697	99.99028789
ADV1012499	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012365	1/15/2025	4.668	1/15/2030	100.01262	100.009829	100.0070436	100.0042606	100.0014799	99.99870173	99.9959259	99.99315248	99.99038145
ADV1012639	1/24/2025	4.643	4/24/2029	100.01255	100.0097687	100.0069874	100.0042085	100.001432	99.99865788	99.99588616	99.99311684	99.99034992

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012350	1/15/2025	4.623	1/16/2029	100.0125	100.0097087	100.0069234	100.0041404	100.0013599	99.99858184	99.99580613	99.99303283	99.99026192
ADV1012360	1/15/2025	4.498	1/15/2027	100.01215	100.009362	100.0065771	100.0037946	100.0010146	99.99823693	99.99546167	99.99268882	99.98390309
ADV1012593	1/23/2025	4.662	1/23/2030	100.0126	100.0098157	100.0070333	100.0042533	100.0014756	99.99870038	99.99592754	99.9931571	99.99038905
ADV1012408	1/16/2025	4.459	10/16/2026	100.01204	100.0092542	100.0064698	100.0036879	100.0009083	99.99813117	99.98916184	99.97254058	99.95578547
ADV1012349	1/15/2025	4.542	7/15/2027	100.01227	100.009484	100.006699	100.0039164	100.0011361	99.99835834	99.99558292	99.99280991	99.9900393
ADV1012351	1/15/2025	4.577	1/18/2028	100.01237	100.0095811	100.0067959	100.0040132	100.0012328	99.99845491	99.99567937	99.99290624	99.99013549
ADV1012446	1/17/2025	4.414	4/17/2026	100.01192	100.009131	100.0063482	100.0035678	100.0007898	99.99801419	99.99524099	99.9924702	99.9897018
ADV1012486	1/21/2025	4.557	10/20/2027	100.01231	100.0095277	100.0067444	100.0039635	100.0011851	99.99840904	99.99563539	99.99286414	99.99009528
ADV1012355	1/15/2025	4.453	7/15/2026	100.01202	100.0092372	100.0064524	100.0036701	100.0008902	99.99811276	99.99533767	99.99256498	99.98785376
ADV1012562	1/22/2025	4.499	1/22/2027	100.01215	100.0093676	100.0065852	100.0038052	100.0010277	99.99825255	99.99547979	99.99270944	99.98423121
ADV1012668	1/27/2025	4.508	7/26/2027	100.01218	100.0093942	100.0066132	100.0038347	100.0010585	99.99828479	99.99551345	99.99246723	99.96299843
ADV1012345	1/15/2025	4.668	1/15/2030	100.01262	100.009829	100.0070436	100.0042606	100.0014799	99.99870173	99.9959259	99.99315248	99.99038145
ADV1012406	1/16/2025	4.593	7/17/2028	100.01241	100.0096259	100.006841	100.0040586	100.0012786	99.99850096	99.99572574	99.99295291	99.99018248
ADV1012477	1/21/2025	4.649	10/22/2029	100.01257	100.0097829	100.0069993	100.0042182	100.0014394	99.99866308	99.99588913	99.99311758	99.99034842
ADV1012485	1/21/2025	4.573	1/20/2028	100.01236	100.0095721	100.0067887	100.0040078	100.0012293	99.99845322	99.99567952	99.99290821	99.9901393
ADV1012596	1/23/2025	4.592	4/24/2028	100.01241	100.009626	100.0068437	100.0040638	100.0012864	99.99851129	99.99573861	99.99296834	99.99020045
ADV1012358	1/15/2025	4.498	1/15/2027	100.01215	100.009362	100.0065771	100.0037946	100.0010146	99.99823693	99.99546167	99.99268882	99.98390309
ADV1012344	1/15/2025	4.668	1/15/2030	100.01262	100.009829	100.0070436	100.0042606	100.0014799	99.99870173	99.9959259	99.99315248	99.99038145
ADV1012368	1/15/2025	4.668	1/15/2030	100.01262	100.009829	100.0070436	100.0042606	100.0014799	99.99870173	99.9959259	99.99315248	99.99038145
ADV1012475	1/21/2025	4.52	4/20/2027	100.01221	100.009425	100.0066419	100.0038611	100.0010828	99.99830688	99.99553334	99.99276221	99.98999347
ADV1012474	1/21/2025	4.497	1/20/2027	100.01215	100.0093612	100.0065781	100.0037975	100.0010192	99.99824337	99.99546991	99.99269885	99.98301507
ADV1012364	1/15/2025	4.56	10/15/2027	100.01232	100.0095339	100.0067488	100.0039662	100.0011859	99.998408	99.99563253	99.99285945	99.99008877
ADV1012480	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012348	1/15/2025	4.668	1/15/2030	100.01262	100.009829	100.0070436	100.0042606	100.0014799	99.99870173	99.9959259	99.99315248	99.99038145
ADV1012554	1/22/2025	4.626	1/22/2029	100.0125	100.0097191	100.0069356	100.0041545	100.0013758	99.99859957	99.99582569	99.99305422	99.99028514
ADV1012353	1/15/2025	4.425	4/15/2026	100.01195	100.0091595	100.0063749	100.0035927	100.0008129	99.9980355	99.99526051	99.99248792	99.98971772
ADV1012363	1/15/2025	4.629	4/16/2029	100.01251	100.0097253	100.00694	100.004157	100.0013765	99.99859839	99.99582267	99.99304934	99.99027841
ADV1012502	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012367	1/15/2025	4.522	4/15/2027	100.01222	100.0094285	100.0066436	100.003861	100.0010809	99.99830315	99.99552781	99.99275487	99.98998433
ADV1012560	1/22/2025	4.664	1/22/2030	100.01261	100.0098209	100.007038	100.0042576	100.0014796	99.99870401	99.99593079	99.99315997	99.99039155
ADV1012218	1/10/2025	4.671	7/10/2029	100.01263	100.0098406	100.007054	100.0042698	100.001488	99.99870863	99.99593165	99.99315708	99.9903849
ADV1012346	1/15/2025	4.668	1/15/2030	100.01262	100.009829	100.0070436	100.0042606	100.0014799	99.99870173	99.9959259	99.99315248	99.99038145
ADV1012447	1/17/2025	4.495	1/19/2027	100.01214	100.0093557	100.0065726	100.0037919	100.0010137	99.99823785	99.99546439	99.99269334	99.9815726

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1012482	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012559	1/22/2025	4.559	10/22/2027	100.01232	100.009534	100.0067515	100.0039713	100.0011936	99.99841827	99.99564533	99.99287479	99.99010664
ADV1012594	1/23/2025	4.545	7/23/2027	100.01228	100.0094956	100.0067135	100.0039337	100.0011564	99.99838145	99.99560892	99.99283878	99.99007104
ADV1012473	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012476	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012357	1/15/2025	4.472	10/15/2026	100.01208	100.0092899	100.0065051	100.0037227	100.0009427	99.99816519	99.99539003	99.98156922	99.96630193
ADV1012640	1/24/2025	4.664	1/24/2030	100.01261	100.0098226	100.0070412	100.0042623	100.0014858	99.99871164	99.99593991	99.99317058	99.99040363
ADV1012557	1/22/2025	4.614	10/20/2028	100.01247	100.0096858	100.0069023	100.0041213	100.0013427	99.99856643	99.9957926	99.99302116	99.99025212
ADV1012352	1/15/2025	4.577	1/18/2028	100.01237	100.0095811	100.0067959	100.0040132	100.0012328	99.99845491	99.99567937	99.99290624	99.99013549
ADV1012370	1/15/2025	4.59	4/17/2028	100.0124	100.0096172	100.0068319	100.0040492	100.0012688	99.99849078	99.9957152	99.99294201	99.99017122
ADV1012362	1/15/2025	4.613	10/16/2028	100.01247	100.0096809	100.0068957	100.0041128	100.0013323	99.99855425	99.99577858	99.99300531	99.99023444
ADV1012366	1/15/2025	4.668	1/15/2030	100.01262	100.009829	100.0070436	100.0042606	100.0014799	99.99870173	99.9959259	99.99315248	99.99038145
ADV1012492	1/21/2025	4.464	10/20/2026	100.01206	100.0092697	100.0064867	100.0037061	100.000928	99.99815225	99.99265115	99.97520682	99.95894863
ADV1012491	1/21/2025	4.443	7/20/2026	100.012	100.0092114	100.0064285	100.003648	100.0008699	99.99809426	99.99532098	99.99240411	99.98146239
ADV1012558	1/22/2025	4.614	10/20/2028	100.01247	100.0096858	100.0069023	100.0041213	100.0013427	99.99856643	99.9957926	99.99302116	99.99025212
ADV1012479	1/21/2025	4.557	10/20/2027	100.01231	100.0095277	100.0067444	100.0039635	100.0011851	99.99840904	99.99563539	99.99286414	99.99009528
ADV1012478	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012342	1/15/2025	4.602	7/17/2028	100.01244	100.0096504	100.0068652	100.0040823	100.0013019	99.99852389	99.99574826	99.99297504	99.9902042
ADV1012553	1/22/2025	4.614	10/20/2028	100.01247	100.0096858	100.0069023	100.0041213	100.0013427	99.99856643	99.9957926	99.99302116	99.99025212
ADV1012671	1/27/2025	4.508	7/26/2027	100.01218	100.0093942	100.0066132	100.0038347	100.0010585	99.99828479	99.99551345	99.99246723	99.96299843
ADV1012563	1/22/2025	4.664	1/22/2030	100.01261	100.0098209	100.007038	100.0042576	100.0014796	99.99870401	99.99593079	99.99315997	99.99039155
ADV1012147	1/7/2025	4.663	10/29/2029	100.01261	100.0098247	100.0070436	100.004265	100.0014889	99.99871506	99.99594366	99.99317466	99.99040805
ADV1012663	1/27/2025	4.55	4/25/2028	100.01229	100.0095107	100.0067296	100.003951	100.0011747	99.99840086	99.9956294	99.99286034	99.96408613
ADV1012489	1/21/2025	4.557	10/20/2027	100.01231	100.0095277	100.0067444	100.0039635	100.0011851	99.99840904	99.99563539	99.99286414	99.99009528
ADV1012472	1/21/2025	4.612	10/20/2028	100.01247	100.0096802	100.0068968	100.0041158	100.0013371	99.99856091	99.99578708	99.99301565	99.99024661
ADV1012445	1/17/2025	4.644	1/17/2030	100.01255	100.0097646	100.0069811	100.0042	100.0014213	99.99864499	99.9958711	99.99309962	99.99033052
ADV1012471	1/21/2025	4.651	10/22/2029	100.01257	100.0097884	100.0070049	100.0042237	100.001445	99.9986686	99.99589464	99.99312309	99.99035393
ADV1012556	1/22/2025	4.626	1/22/2029	100.0125	100.0097191	100.0069356	100.0041545	100.0013758	99.99859957	99.99582569	99.99305422	99.99028514
ADV1013290	2/20/2025	4.587	1/15/2030	100.01239	100.0096044	100.0068192	100.0040365	100.0012562	99.99847822	99.99570269	99.98077336	99.89190364
ADV1013288	2/20/2025	4.587	1/22/2030	100.01239	100.0096064	100.0068231	100.0040422	100.0012637	99.9984876	99.9957139	99.98115857	99.89231716
ADV1013289	2/20/2025	4.577	7/16/2029	100.01237	100.0095811	100.0067959	100.0040132	100.0012328	99.99845491	99.99567937	99.98802449	99.90822966
ADV1013162	2/14/2025	4.603	2/14/2030	100.01244	100.0096599	100.0068865	100.0041156	100.001347	99.99858088	99.99581711	99.99305574	99.93153458
ADV1013251	2/19/2025	4.608	2/19/2030	100.01245	100.0096745	100.0069019	100.0041316	100.0013638	99.99859831	99.99583523	99.99307454	99.9427373

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	DATE	Rate	DATE	-400	-300	-200	-100	Base	100	200	300	400
ADV1014605	4/15/2025	4.701	1/15/2030	100.01271	100.0099206	100.007135	100.0043519	100.0015711	99.99879278	99.99601684	99.9932433	99.99047215
ADV1014597	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014821	4/23/2025	4.721	4/22/2030	100.01276	100.0099715	100.0071878	100.0044065	100.0016277	99.99885119	99.99607712	99.99330545	99.99053617
ADV1014712	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014611	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014736	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014466	4/8/2025	4.641	8/15/2028	100.01255	100.009772	100.0069986	100.0042275	100.0014589	99.99869262	99.99592875	99.99316726	99.99040817
ADV1014608	4/15/2025	4.691	10/15/2029	100.01269	100.0098973	100.0071117	100.0043286	100.0015478	99.99876947	99.99599352	99.99321997	99.99044882
ADV1014733	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1013687	3/6/2025	4.519	2/15/2028	100.01221	100.0094333	100.00666	100.0038891	100.0011205	99.9983544	99.99559066	99.97326894	99.92032293
ADV1014720	4/21/2025	4.706	7/20/2029	100.01273	100.009941	100.0071573	100.0043759	100.001597	99.99882047	99.99604634	99.9932746	99.99050526
ADV1014728	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014710	4/21/2025	4.639	4/20/2028	100.01254	100.0097551	100.0069716	100.0041905	100.0014118	99.99863547	99.99586155	99.99309003	99.99032091
ADV1014730	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014739	4/21/2025	4.707	4/20/2029	100.01273	100.0099438	100.00716	100.0043787	100.0015998	99.99882323	99.99604909	99.99327736	99.99050802
ADV1014740	4/21/2025	4.707	4/20/2029	100.01273	100.0099438	100.00716	100.0043787	100.0015998	99.99882323	99.99604909	99.99327736	99.99050802
ADV1014484	4/9/2025	4.759	4/17/2028	100.01287	100.010088	100.0073041	100.0045226	100.0017435	99.99896681	99.99619251	99.99342061	99.9906511
ADV1014820	4/23/2025	4.616	4/24/2028	100.01248	100.0096926	100.0069102	100.0041303	100.0013527	99.99857759	99.99580484	99.99303449	99.99026653
ADV1014819	4/23/2025	4.588	10/25/2027	100.0124	100.0096149	100.0068326	100.0040528	100.0012753	99.99850024	99.99572757	99.99295731	99.99018944
ADV1014738	4/21/2025	4.746	1/22/2030	100.01283	100.0100475	100.0072637	100.0044823	100.0017033	99.99892664	99.99615242	99.99338061	99.99061118
ADV1014612	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014869	4/24/2025	4.551	5/7/2027	100.0123	100.0095191	100.006743	100.0039693	100.001198	99.99842907	99.99566256	99.99289845	99.99013671
ADV1014607	4/15/2025	4.691	10/15/2029	100.01269	100.0098973	100.0071117	100.0043286	100.0015478	99.99876947	99.99599352	99.99321997	99.99044882
ADV1014735	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014609	4/15/2025	4.634	7/17/2028	100.01253	100.0097392	100.0069538	100.0041709	100.0013903	99.99861219	99.99583645	99.9930631	99.99029216
ADV1014771	4/22/2025	4.75	4/22/2030	100.01284	100.0100528	100.0072698	100.0044891	100.0017109	99.99893513	99.99616171	99.9933907	99.99062207
ADV1014734	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014721	4/21/2025	4.706	7/20/2029	100.01273	100.009941	100.0071573	100.0043759	100.001597	99.99882047	99.99604634	99.9932746	99.99050526
ADV1013887	3/14/2025	4.593	10/15/2029	100.01241	100.0096255	100.0068403	100.0040575	100.0012771	99.99849906	99.99572346	99.99295027	99.92779794
ADV1014729	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014709	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014598	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014707	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266

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ADV1013957	3/18/2025	4.558	10/17/2028	100.01232	100.0095304	100.0067472	100.0039663	100.0011879	99.9984118	99.99563815	99.98896806	99.9237773
ADV1014724	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014726	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014610	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014708	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014737	4/21/2025	4.732	1/22/2030	100.01279	100.0100091	100.0072257	100.0044447	100.0016661	99.99888989	99.99611609	99.99334469	99.99057568
ADV1014601	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014711	4/21/2025	4.625	1/20/2028	100.0125	100.0097163	100.0069328	100.0041517	100.0013731	99.99859681	99.99582294	99.99305146	99.99028238
ADV1014599	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014714	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014602	4/15/2025	4.71	4/15/2030	100.01273	100.0099388	100.0071533	100.0043702	100.0015895	99.99881119	99.99603529	99.99326178	99.99049066
ADV1014727	4/21/2025	4.732	1/22/2030	100.01279	100.0100087	100.0072249	100.0044435	100.0016646	99.99888798	99.99611381	99.99334204	99.99057266
ADV1014604	4/15/2025	4.604	1/18/2028	100.01244	100.009656	100.0068707	100.0040879	100.0013074	99.99852941	99.99575378	99.99298054	99.9902097
ADV1014032	3/21/2025	4.589	4/20/2029	100.0124	100.0096164	100.0068331	100.0040521	100.0012736	99.9984974	99.99572365	99.99295229	99.95926184
ADV1014716	4/21/2025	4.691	4/20/2029	100.01269	100.0098994	100.0071157	100.0043344	100.0015555	99.99877905	99.99600497	99.99323328	99.99046399
ADV1016975	7/1/2025	4.597	7/3/2028	100.04142	100.035685	100.0308597	100.0273747	100.0238183	100.0201908	100.0164932	100.0134937	100.0059066
ADV1017601	7/28/2025	4.59	7/28/2028	100.0651	100.059312	100.054528	100.0503726	100.0460971	100.0415237	100.0367961	100.0328178	100.008828
ADV1015945	5/28/2025	4.7	5/24/2030	100.01269	100.0098906	100.0070889	100.0042896	100.0014928	99.9986984	99.99590639	99.9931168	99.99032962
ADV1016174	6/4/2025	4.581	7/3/2028	100.03999	100.0344737	100.0294451	100.0259636	100.0224108	100.0187868	100.0150928	100.0124354	99.99363695
ADV1016465	6/16/2025	4.572	7/3/2028	100.03917	100.0337823	100.0286494	100.0251699	100.0216191	100.0179971	100.0143051	100.0102656	99.98204955
ADV1015924	5/28/2025	4.7	5/28/2030	100.0127	100.0099225	100.0071492	100.0043782	100.0016096	99.9988434	99.99607959	99.99331818	99.99055914
ADV1016977	7/1/2025	4.597	7/3/2028	100.04142	100.035685	100.0308597	100.0273747	100.0238183	100.0201908	100.0164932	100.0134937	100.0059066
ADV1017448	7/21/2025	4.604	8/1/2028	100.07439	100.0638795	100.0602131	100.0561944	100.0518269	100.0471147	100.04206	100.0353842	100.0150971
ADV1016172	6/4/2025	4.581	7/3/2028	100.03999	100.0344737	100.0294451	100.0259636	100.0224108	100.0187868	100.0150928	100.0124354	99.99363695
ADV1015174	5/2/2025	4.583	6/1/2028	100.01238	100.0095792	100.0067775	100.0039783	100.0011815	99.99838712	99.99559514	99.99280558	99.99001842
ADV1016976	7/1/2025	4.597	7/3/2028	100.04142	100.035685	100.0308597	100.0273747	100.0238183	100.0201908	100.0164932	100.0134937	100.0059066
ADV1017518	7/23/2025	4.587	8/1/2028	100.072	100.0609123	100.0572533	100.0532421	100.048882	100.0441772	100.0392552	100.0271324	99.99632997
ADV1017170	7/10/2025	4.606	8/1/2028	100.07465	100.0642286	100.0605613	100.0565417	100.0521734	100.0474603	100.0424048	100.0362684	100.0171829
ADV1016175	6/4/2025	4.581	7/3/2028	100.03999	100.0344737	100.0294451	100.0259636	100.0224108	100.0187868	100.0150928	100.0124354	99.99363695
ADV1015757	5/22/2025	4.562	6/1/2028	100.01232	100.009521	100.0067195	100.0039204	100.0011238	99.99832954	99.99553771	99.99274829	99.98996128
ADV1018841	9/12/2025	4.66	9/12/2029	100.23755	100.1873554	100.1718181	100.1659411	100.1586756	100.1500677	100.1417532	100.1228771	100.0909182
ADV1018961	9/17/2025	4.675	9/17/2030	100.20657	100.1268201	100.1180565	100.1133117	100.1081213	100.1021671	100.0946462	100.0817136	100.0522991
ADV1019843	10/21/2025	4.43	10/21/2026	100.11071	100.0106329	100.001979	99.9958376	99.9872244	99.9762903	99.96305747	99.94764861	99.93007044

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ADV1019581	10/8/2025	4.564	10/10/2028	100.13593	100.1265472	100.1028891	100.0976722	100.091732	100.0864076	100.0638145	100.0040365	99.93850946
ADV1019863	10/22/2025	4.565	11/1/2028	100.17194	100.1382389	100.1159013	100.1103571	100.1027952	100.0942429	100.0656652	100.0020956	99.93439402
ADV1019545	10/7/2025	4.666	10/7/2030	100.26048	100.1444217	100.1352024	100.1299251	100.1237767	100.1167809	100.1083091	100.0871077	100.0327814
ADV1018879	9/15/2025	4.586	9/15/2028	100.11339	100.0973449	100.0934586	100.0888168	100.0834325	100.077322	100.0697975	100.0413651	99.99295646
ADV1019698	10/15/2025	4.638	10/15/2030	100.25134	100.1645779	100.131368	100.1259804	100.1196642	100.112446	100.0956478	100.038708	99.94018519
ADV1019352	9/30/2025	4.658	9/30/2030	100.25651	100.1577738	100.1411324	100.1337642	100.1274199	100.1201738	100.1094485	100.0780212	100.0153855
ADV1020399	11/17/2025	4.616	11/15/2030	100.26667	100.1882841	100.1452145	100.1352708	100.131971	100.1179931	100.0697147	99.95076695	99.84876584
ADV1018981	9/18/2025	4.587	10/2/2028	100.13489	100.1128557	100.105867	100.1007063	100.0947764	100.0880357	100.0766384	100.0407599	99.98636248
ADV1019448	10/1/2025	4.636	10/1/2029	100.17969	100.1290007	100.122412	100.1174348	100.1117122	100.1052627	100.0985699	100.0786602	100.0355065
ADV1019936	10/27/2025	4.559	10/26/2028	100.16143	100.1399435	100.1134079	100.1060194	100.0989333	100.0895189	100.0581434	99.99280781	99.922776
ADV1020651	11/26/2025	4.562	11/26/2029	100.21747	100.1474449	100.1213906	100.1141684	100.1073623	100.0857135	100.0288797	99.92413952	99.83448789
ADV1018629	9/4/2025	4.688	9/4/2030	100.19346	100.1122791	100.1086103	100.1042127	100.0993366	100.0937105	100.0867564	100.0796276	100.0620414
ADV1018241	8/19/2025	4.664	8/19/2030	100.18504	100.1089467	100.0900653	100.0869481	100.0835761	100.0802507	100.0768831	100.0728372	100.0662356
ADV1019627	10/10/2025	4.661	10/10/2030	100.25606	100.1573625	100.1361348	100.1308851	100.124777	100.117834	100.1082106	100.0802944	100.0203276
ADV1018006	8/11/2025	4.564	9/1/2028	100.10083	100.0896193	100.0860667	100.0817855	100.0767857	100.0710794	100.0646741	100.0504976	100.0202846
ADV1020393	11/17/2025	4.615	10/30/2030	100.26584	100.1889688	100.1456629	100.1364212	100.1326665	100.1194484	100.0732516	99.95879281	99.85789561
ADV1019349	9/30/2025	4.658	9/30/2030	100.25651	100.1577738	100.1411324	100.1337642	100.1274199	100.1201738	100.1094485	100.0780212	100.0153855
ADV1019746	10/16/2025	4.522	10/18/2027	100.13006	100.0932392	100.0844231	100.077325	100.0681041	100.0570987	100.0371289	99.99535218	99.9472405
ADV1019262	9/26/2025	4.66	9/26/2030	100.25615	100.1616966	100.1529116	100.1464659	100.1395367	100.1320191	100.1186176	100.0949163	100.0224
ADV1018580	9/2/2025	4.682	8/30/2030	100.30832	100.2022591	100.1887326	100.1802446	100.1724748	100.1632506	100.1567253	100.1344245	100.0944809
ADV1018607	9/3/2025	4.68	7/18/2030	100.19581	100.1093502	100.1057116	100.1013445	100.09647	100.0907899	100.0839803	100.0764342	100.0583609
ADV1019747	10/16/2025	4.572	10/16/2028	100.15409	100.124275	100.1106737	100.1052241	100.0989286	100.0924105	100.073108	100.0181947	99.95365737
ADV1020296	11/12/2025	4.512	12/1/2028	100.19083	100.1362136	100.1103917	100.1041474	100.0953498	100.0828155	100.0430418	99.96870147	99.89793047
ADV1019472	10/2/2025	4.632	10/2/2029	100.17731	100.1282681	100.1219989	100.1170478	100.111355	100.1049386	100.0982583	100.0750788	100.0290767
ADV1019449	10/1/2025	4.636	10/1/2029	100.17969	100.1290007	100.122412	100.1174348	100.1117122	100.1052627	100.0985699	100.0786602	100.0355065
ADV1019770	10/17/2025	4.653	10/17/2030	100.2578	100.1595723	100.1386533	100.1332653	100.1269482	100.1197287	100.1059769	100.0726733	99.99044423
ADV1020442	11/18/2025	4.399	11/18/2026	100.12501	99.98034198	99.96905415	99.9637477	99.95586685	99.94561293	99.93293591	99.91799236	99.90015661