

Parallel-Shift Sensitivity Analysis for HLB-Option and Knockout Advances

The Federal Home Loan Bank of Boston (Bank) is providing estimated valuations of the specific HLB-Option and Knockout advances set forth below for members' information and convenience only. The estimated valuations are generated by models obtained from external sources which are used for the Bank's own asset/liability management purposes. The models include the use of 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 values only and should not be construed as a liquidation price for the HLB-Option or Knockout advance.

It is expressly understood that in providing this valuation information to members, the Bank is not performing any advisory service. The valuations are being provided without representation or warranty and the member shall be solely responsible for any decision it makes or actions it takes based on the valuations provided. It is recommended that institutions maintain independent capabilities to value their asset/liability positions, including HLB-Option and Knockout advances.

The table depicts valuation estimates resulting from immediate parallel interest-rate movements of plus/minus 400 basis points in 100 basis point increments. In order to rule out negative interest rates, our model applies an effective floor of plus ten basis points to the yield curve for all down-rate scenarios. As a result, large down-rate shocks will reflect valuation at the floor rate of ten basis points in place of any negative interest rates that would otherwise be produced by the indicated basis point shocks. Please note that the valuation estimates are from the Federal Home Loan Bank of Boston's perspective. Since the advance is held by the member as a liability, positive price changes in the table correspond to the advance having a negative impact on the member's estimated market value of portfolio equity (and vice versa). The theoretical argument follows that as interest rates rise, the value of the advance to the Bank falls. In the case of an HLB-Option advance, the Bank would be likely to exercise its option to cancel the advance as the value falls below 100. In the case of a Knockout advance, the Bank would automatically terminate the advance on any specified cancellation date if LIBOR is equal to or greater than a predetermined "strike rate" four London Business days prior to the scheduled cancellation date. In either case, the member's cost to prepay the advance increases as interest rates fall.

To identify your advance, locate the appropriate maturity date and then verify the coupon rate. The report is sorted in ascending order by start date, followed by coupon. Once the appropriate structure is determined, read across to view the sensitivity analysis that has been performed on the advance.

If you have any questions or would like further explanation of this analysis, contact the Money Desk at 1-800-357-3452.

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
2/27/1997	2/27/2012	2/27/2012	6.580	100.493	100.493	100.493	100.482	100.404	100.326	100.248	100.171
4/8/1998	4/8/2013	4/9/2012	5.490	106.603	106.603	106.603	106.129	104.916	103.732	102.625	101.653
8/19/1998	8/19/2013	2/21/2012	5.490	108.631	108.631	108.631	107.994	106.401	104.861	103.438	102.200
8/19/1998	8/19/2013	2/21/2012	5.490	108.631	108.631	108.631	107.994	106.401	104.861	103.438	102.200
8/25/1998	8/19/2013	4/25/2012	5.490	108.631	108.631	108.631	107.994	106.401	104.861	103.437	102.196
8/27/1998	8/19/2013	4/27/2012	5.490	108.631	108.631	108.631	107.994	106.401	104.861	103.438	102.200
9/30/1998	9/30/2013	3/30/2012	5.220	108.816	108.816	108.816	108.125	106.415	104.775	103.294	102.037
12/14/1998	12/16/2013	3/14/2012	5.390	110.255	110.255	110.255	109.452	107.519	105.674	103.995	102.560
12/14/1998	12/16/2013	3/14/2012	4.890	109.304	109.304	109.304	108.504	106.582	104.765	103.164	101.850
12/15/1998	12/16/2013	3/15/2012	4.880	109.285	109.285	109.285	108.485	106.564	104.746	103.146	101.832
1/7/2000	1/7/2015	4/9/2012	5.950	117.717	117.717	117.717	115.997	112.943	110.119	107.605	105.442
6/3/2002	6/4/2012	3/3/2012	4.490	101.559	101.559	101.559	101.482	101.136	100.793	100.451	100.112
6/4/2002	6/4/2012	3/6/2012	4.490	101.559	101.559	101.559	101.482	101.136	100.793	100.451	100.112
12/5/2002	12/5/2012	3/6/2012	3.790	103.253	103.253	103.253	102.945	102.095	101.260	100.438	99.629
3/6/2003	3/6/2013	3/6/2012	2.990	103.322	103.322	103.322	102.895	101.799	100.838	100.188	99.904
7/2/2004	7/2/2014	4/3/2012	3.990	109.786	109.786	109.786	108.610	106.133	103.725	101.385	99.110
12/13/2004	12/15/2014	3/13/2012	3.320	109.673	109.673	109.673	108.082	105.334	103.075	101.425	100.407
9/1/2005	9/1/2015	3/1/2012	4.130	115.016	115.016	115.016	112.424	108.728	105.176	101.761	98.477
9/19/2005	9/19/2012	3/19/2012	3.820	102.462	102.462	102.462	102.258	101.620	100.995	100.431	100.038
9/26/2005	9/26/2012	3/26/2012	3.890	102.582	102.582	102.582	102.370	101.712	101.067	100.480	100.056
9/30/2005	9/30/2015	3/30/2012	4.440	116.501	116.501	116.501	113.765	109.964	106.313	102.806	99.437
10/26/2005	10/26/2015	4/26/2012	4.540	117.201	117.201	117.201	114.337	110.456	106.731	103.154	99.719
10/28/2005	10/28/2015	4/30/2012	4.310	116.353	116.353	116.353	113.556	109.976	106.903	104.408	102.484
10/28/2005	10/28/2015	4/30/2012	4.140	115.708	115.708	115.708	112.923	109.378	106.360	103.938	102.106
11/21/2005	11/21/2012	2/21/2012	4.290	103.515	103.515	103.515	103.226	102.413	101.621	100.898	100.310
1/17/2006	1/19/2016	4/17/2012	4.080	116.421	116.421	116.421	113.277	109.591	106.485	104.013	102.160
4/19/2006	4/19/2013	4/19/2012	4.630	105.710	105.710	105.710	105.225	103.987	102.793	101.716	100.836
4/24/2006	4/25/2016	4/24/2012	4.440	119.066	119.066	119.066	115.437	111.473	108.094	105.325	103.163
5/5/2006	5/5/2016	2/6/2012	4.350	118.800	118.800	118.800	115.138	111.187	107.840	105.126	103.029
5/5/2006	5/5/2016	2/6/2012	4.530	119.578	119.578	119.578	115.895	111.900	108.489	105.676	103.463
5/15/2006	5/16/2016	2/15/2012	4.350	118.933	118.933	118.933	115.216	111.238	107.866	105.130	103.014
5/15/2006	5/16/2016	2/15/2012	4.520	119.673	119.673	119.673	115.935	111.915	108.483	105.652	103.428
5/19/2006	5/19/2016	2/21/2012	4.510	119.667	119.667	119.667	115.915	111.890	108.455	105.621	103.395
6/12/2006	6/13/2016	3/12/2012	4.620	120.468	120.468	120.468	116.581	112.483	108.979	106.077	103.769
6/26/2006	6/27/2016	3/26/2012	4.730	121.139	121.139	121.139	117.165	113.006	109.433	106.456	104.069
6/28/2006	6/28/2013	3/28/2012	4.950	107.067	107.067	107.067	106.496	105.057	103.670	102.404	101.343
6/30/2006	7/1/2013	3/30/2012	4.890	107.022	107.022	107.022	106.448	105.001	103.612	102.355	101.311
7/14/2006	7/15/2013	4/16/2012	4.890	107.212	107.212	107.212	106.621	105.135	103.710	102.421	101.356
7/24/2006	7/25/2016	4/24/2012	4.660	121.189	121.189	121.189	117.081	112.887	109.300	106.323	103.947
7/28/2006	7/28/2016	4/30/2012	4.490	120.453	120.453	120.453	116.353	112.197	108.663	105.754	103.464
8/1/2006	8/1/2016	5/1/2012	4.890	122.330	122.330	122.330	118.162	113.908	110.248	107.193	104.735
8/21/2006	8/21/2013	2/1/2012	4.750	107.494	107.494	107.494	106.858	105.268	103.710	102.183	100.686
8/25/2006	8/25/2016	2/27/2012	4.350	120.154	120.154	120.154	115.932	111.765	108.247	105.387	103.169
10/10/2006	10/10/2013	4/10/2012	4.250	107.295	107.295	107.295	106.596	104.877	103.271	101.902	100.863
10/12/2006	10/15/2013	4/12/2012	4.500	107.787	107.787	107.787	107.080	105.342	103.706	102.275	101.156
11/6/2006	11/6/2013	2/6/2012	4.290	107.686	107.686	107.686	106.949	105.155	103.477	102.027	100.893
11/10/2006	11/13/2012	2/10/2012	4.390	103.500	103.500	103.500	103.222	102.431	101.658	100.951	100.372
11/17/2006	11/18/2013	2/17/2012	4.350	107.938	107.938	107.938	107.184	105.354	103.645	102.168	101.032
11/24/2006	11/25/2016	2/24/2012	4.190	120.483	120.483	120.483	115.803	111.532	107.964	105.109	102.925
11/30/2006	12/2/2013	2/28/2012	4.350	108.107	108.107	108.107	107.333	105.455	103.619	101.824	100.078
12/1/2006	12/1/2016	3/1/2012	4.090	120.062	120.062	120.059	115.382	111.148	107.637	104.862	102.765
12/4/2006	12/5/2016	3/5/2012	4.080	120.059	120.059	120.043	115.357	111.119	107.607	104.833	102.738
12/5/2006	12/5/2016	3/5/2012	4.260	120.944	120.944	120.928	116.202	111.901	108.308	105.418	103.197
12/6/2006	12/6/2013	3/6/2012	4.400	108.250	108.250	108.250	107.468	105.587	103.837	102.329	101.161
12/8/2006	12/8/2016	3/8/2012	3.990	119.649	119.649	119.625	114.950	110.738	107.262	104.533	102.494
12/12/2006	12/12/2016	3/12/2012	3.990	119.694	119.694	119.657	114.971	110.750	107.267	104.532	102.487
12/12/2006	12/12/2016	3/12/2012	4.050	119.990	119.990	119.954	115.253	111.011	107.498	104.728	102.640
12/19/2006	12/19/2016	3/19/2012	4.190	120.762	120.762	120.705	115.952	111.646	108.055	105.184	102.986
12/20/2006	12/20/2013	3/20/2012	4.500	108.612	108.612	108.612	107.809	105.886	104.089	102.529	101.300
12/28/2006	12/28/2016	3/28/2012	4.250	121.166	121.166	121.082	116.289	111.943	108.306	105.380	103.123
12/28/2006	12/28/2016	3/28/2012	4.400	121.913	121.913	121.829	117.004	112.606	108.905	105.882	103.519
1/12/2007	1/12/2017	4/12/2012	4.420	122.197	122.197	122.056	117.203	112.785	109.069	106.035	103.660
1/16/2007	1/17/2017	4/16/2012	4.790	124.122	124.122	123.961	119.020	114.473	110.597	107.382	104.804
1/23/2007	1/23/2014	4/23/2012	4.490	109.017	109.017	109.017	108.158	106.142	104.267	102.646	101.375
1/23/2007	1/23/2017	4/23/2012	4.460	122.534	122.534	122.352	117.463	113.008	109.254	106.180	103.761
1/29/2007	1/29/2014	4/29/2012	4.790	109.699	109.699	109.699	108.828	106.779	104.778	102.826	100.920
2/2/2007	2/2/2017	2/2/2012	4.690	123.826	123.826	123.598	118.284	113.064	108.113	103.415	99.572
2/9/2007	2/9/2012	2/9/2012	4.750	100.119	100.119	100.119	100.115	100.089	100.063	100.037	100.011
2/9/2007	2/9/2017	2/9/2012	4.470	122.796	122.796	122.553	117.628	113.150	109.381	106.298	103.872

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
2/12/2007	2/13/2012	2/13/2012	4.880	100.176	100.176	100.176	100.171	100.133	100.096	100.058	100.021
2/15/2007	2/15/2012	2/15/2012	4.990	100.208	100.208	100.208	100.201	100.158	100.115	100.072	100.029
2/20/2007	2/21/2017	2/21/2012	4.850	124.895	124.895	124.589	119.197	113.898	108.875	104.112	101.171
2/20/2007	2/21/2017	2/21/2012	4.390	122.534	122.534	122.252	117.308	112.832	109.075	106.011	103.620
2/23/2007	2/23/2017	2/23/2012	4.250	121.839	121.839	121.552	116.635	112.203	108.504	105.527	103.234
2/23/2007	2/23/2017	2/23/2012	4.350	122.353	122.353	122.065	117.123	112.656	108.911	105.868	103.502
3/2/2007	3/2/2012	3/2/2012	4.490	100.387	100.387	100.387	100.373	100.284	100.195	100.107	100.018
3/16/2007	3/16/2017	3/16/2012	4.090	121.255	121.255	120.889	115.972	111.575	107.936	105.053	102.865
3/20/2007	3/20/2012	3/20/2012	4.550	100.619	100.619	100.619	100.597	100.459	100.322	100.186	100.049
3/21/2007	3/21/2017	3/21/2012	4.220	121.989	121.989	121.599	116.638	112.181	108.470	105.492	103.203
3/23/2007	3/23/2017	3/23/2012	4.290	122.378	122.378	121.978	116.995	112.508	108.761	105.731	103.385
3/23/2007	3/23/2017	3/23/2012	4.290	122.378	122.378	121.978	116.995	112.508	108.761	105.731	103.385
3/30/2007	3/30/2012	3/30/2012	4.670	100.765	100.765	100.765	100.738	100.574	100.410	100.246	100.083
4/2/2007	4/2/2012	4/2/2012	4.590	100.790	100.790	100.790	100.762	100.589	100.417	100.245	100.074
4/9/2007	4/10/2017	4/9/2012	4.150	121.855	121.855	121.380	116.408	111.957	108.269	105.334	103.098
4/12/2007	4/12/2017	4/12/2012	4.250	122.405	122.405	121.919	116.916	112.422	108.681	105.671	103.356
4/13/2007	4/13/2017	4/13/2012	4.450	123.472	123.472	122.977	117.921	113.352	109.515	106.381	103.916
4/23/2007	4/23/2012	4/23/2012	4.650	101.072	101.072	101.072	101.031	100.799	100.569	100.339	100.111
4/23/2007	4/23/2014	4/23/2012	4.620	110.433	110.433	110.433	109.404	107.129	105.029	103.233	101.804
4/27/2007	4/27/2012	4/27/2012	4.550	101.100	101.100	101.100	101.056	100.813	100.572	100.331	100.092
4/27/2007	4/27/2017	4/27/2012	4.250	122.583	122.583	122.029	116.993	112.470	108.700	105.664	103.323
5/2/2007	5/2/2014	2/2/2012	4.590	110.480	110.480	110.480	109.433	107.136	105.028	103.239	101.830
5/4/2007	5/5/2014	2/6/2012	4.550	110.426	110.426	110.426	109.373	107.070	104.960	103.172	101.768
5/18/2007	5/18/2017	2/21/2012	4.190	122.508	122.508	121.869	116.809	112.285	108.530	105.525	103.221
5/22/2007	5/22/2012	2/22/2012	4.690	101.459	101.459	101.459	101.395	101.084	100.775	100.468	100.163
5/22/2007	5/22/2012	2/22/2012	4.690	101.459	101.459	101.459	101.395	101.084	100.775	100.468	100.163
5/22/2007	5/22/2017	5/22/2012	4.750	125.569	125.569	124.896	119.680	114.941	110.919	107.592	104.929
5/25/2007	5/25/2012	2/27/2012	4.650	101.485	101.485	101.485	101.418	101.100	100.783	100.468	100.158
5/29/2007	5/30/2017	2/29/2012	4.250	122.972	122.972	122.281	117.175	112.608	108.803	105.737	103.368
6/1/2007	6/1/2012	3/1/2012	5.230	101.772	101.772	101.772	101.699	101.361	101.025	100.691	100.359
6/1/2007	6/2/2014	3/1/2012	4.500	110.662	110.662	110.662	109.549	107.173	105.010	103.186	101.762
6/7/2007	6/7/2017	3/7/2012	4.820	126.160	126.160	125.414	120.153	115.373	111.315	107.956	105.261
6/8/2007	6/9/2014	3/8/2012	4.730	111.299	111.299	111.299	110.167	107.760	105.548	103.656	102.139
6/8/2007	6/8/2017	3/8/2012	4.490	124.382	124.382	123.641	118.462	113.800	109.887	106.687	104.167
6/11/2007	6/12/2017	3/12/2012	4.490	124.432	124.432	123.671	118.483	113.814	109.895	106.691	104.166
6/15/2007	6/16/2014	3/15/2012	5.550	113.366	113.366	113.366	112.208	109.731	107.322	104.980	102.701
6/18/2007	6/19/2017	3/19/2012	4.500	124.573	124.573	123.778	118.572	113.885	109.947	106.725	104.182
6/18/2007	6/19/2017	3/19/2012	4.840	126.430	126.430	125.622	120.328	115.518	111.428	108.039	105.311
6/19/2007	6/19/2017	3/19/2012	4.650	125.393	125.393	124.591	119.345	114.601	110.596	107.295	104.670
6/20/2007	6/20/2012	3/20/2012	4.890	101.915	101.915	101.915	101.821	101.430	101.042	100.657	100.299
6/22/2007	6/22/2017	3/22/2012	4.500	124.611	124.611	123.801	118.587	113.894	109.949	106.719	104.167
6/26/2007	6/26/2012	3/26/2012	5.130	102.095	102.095	102.095	101.994	101.586	101.181	100.779	100.393
6/28/2007	6/28/2017	3/28/2012	4.500	124.686	124.686	123.847	118.619	113.914	109.957	106.717	104.155
7/13/2007	7/13/2012	4/13/2012	4.690	102.136	102.136	102.136	102.016	101.562	101.112	100.672	100.285
7/13/2007	7/13/2017	4/13/2012	4.900	127.085	127.085	126.152	120.802	115.937	111.798	108.362	105.591
7/13/2007	7/13/2017	4/13/2012	4.290	123.713	123.713	122.807	117.623	112.988	109.132	106.014	103.602
7/18/2007	7/18/2017	4/18/2012	4.780	126.488	126.488	125.534	120.203	115.370	111.276	107.888	105.173
7/19/2007	7/19/2012	4/19/2012	4.890	102.309	102.309	102.309	102.182	101.711	101.244	100.787	100.371
7/20/2007	7/20/2017	4/20/2012	4.290	123.796	123.796	122.854	117.655	113.008	109.139	106.010	103.586
7/23/2007	7/23/2012	4/23/2012	5.050	102.441	102.441	102.441	102.309	101.827	101.349	100.879	100.443
7/27/2007	7/27/2012	4/27/2012	4.590	102.269	102.269	102.269	102.133	101.641	101.153	100.680	100.263
7/27/2007	7/28/2014	4/27/2012	4.350	110.983	110.983	110.983	109.741	107.223	104.953	103.053	101.589
7/27/2007	7/27/2017	4/27/2012	4.250	123.657	123.657	122.681	117.479	112.837	108.976	105.863	103.459
7/30/2007	1/30/2019	4/30/2012	3.990	128.327	128.327	124.352	118.435	113.322	109.150	105.858	103.358
7/31/2007	7/31/2017	4/30/2012	3.990	122.254	122.254	121.275	116.156	111.623	107.894	104.959	102.744
7/31/2007	7/31/2017	4/30/2012	3.990	122.254	122.254	121.275	116.156	111.623	107.894	104.959	102.744
7/31/2007	7/31/2017	4/30/2012	4.060	122.644	122.644	121.661	116.520	111.955	108.188	105.206	102.936
8/2/2007	8/4/2014	2/2/2012	4.490	111.424	111.424	111.424	110.163	107.621	105.326	103.406	101.911
8/2/2007	8/2/2017	2/2/2012	4.150	123.169	123.169	122.173	117.005	112.412	108.617	105.595	103.291
8/2/2007	8/2/2017	2/2/2012	4.050	122.611	122.611	121.621	116.485	111.935	108.193	105.244	103.016
8/6/2007	8/6/2012	2/6/2012	4.490	102.345	102.345	102.345	102.196	101.677	101.164	100.673	100.245
8/9/2007	8/11/2014	2/9/2012	4.860	112.460	112.460	112.460	111.176	108.593	106.229	104.193	102.548
8/9/2007	8/9/2017	2/9/2012	3.990	122.354	122.354	121.334	116.200	111.664	107.942	105.023	102.829
8/13/2007	8/13/2012	2/13/2012	4.590	102.486	102.486	102.486	102.329	101.791	101.259	100.748	100.296
8/16/2007	8/16/2017	2/16/2012	3.990	122.431	122.431	121.379	116.228	111.678	107.944	105.011	102.805
8/17/2007	8/17/2012	2/17/2012	4.350	102.404	102.404	102.404	102.243	101.694	101.152	100.636	100.193
8/17/2007	8/17/2012	2/17/2012	4.150	102.294	102.294	102.294	102.132	101.584	101.043	100.531	100.137
8/17/2007	8/17/2017	2/17/2012	4.000	122.498	122.498	121.441	116.284	111.729	107.987	105.045	102.829
8/20/2007	8/20/2014	8/20/2012	4.250	111.002	111.002	111.002	109.703	107.110	104.751	102.787	101.277

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
8/24/2007	8/24/2012	2/24/2012	4.050	102.317	102.317	102.317	102.147	101.580	101.021	100.494	100.112
8/28/2007	8/28/2014	2/28/2012	4.350	111.358	111.358	111.358	110.038	107.440	105.106	103.155	101.650
8/30/2007	8/30/2012	2/29/2012	4.390	102.585	102.585	102.585	102.407	101.824	101.247	100.697	100.220
8/30/2007	9/2/2014	2/29/2012	3.890	110.211	110.211	110.211	108.886	106.311	104.053	102.235	100.924
9/4/2007	9/4/2012	3/5/2012	4.220	102.544	102.544	102.544	102.360	101.762	101.175	100.625	100.195
9/4/2007	9/5/2017	3/5/2012	3.890	122.085	122.085	120.952	115.803	111.286	107.603	104.737	102.609
9/7/2007	9/7/2012	3/7/2012	4.090	102.499	102.499	102.499	102.312	101.706	101.111	100.558	100.141
9/10/2007	9/11/2017	3/12/2012	3.690	121.011	121.011	119.862	114.777	110.347	106.779	104.030	102.045
9/11/2007	9/11/2017	3/12/2012	3.590	120.442	120.442	119.301	114.253	109.874	106.369	103.686	101.775
9/12/2007	9/12/2014	3/12/2012	3.690	109.788	109.788	109.788	108.441	105.861	103.638	101.926	100.748
9/13/2007	9/15/2014	3/13/2012	3.990	110.617	110.617	110.617	109.258	106.643	104.351	102.486	101.123
9/13/2007	9/13/2017	3/13/2012	3.990	122.741	122.741	121.557	116.357	111.778	108.022	105.073	102.853
9/17/2007	9/17/2012	3/19/2012	4.220	102.696	102.696	102.696	102.495	101.861	101.239	100.655	100.200
9/27/2007	9/29/2014	9/27/2010	4.490	112.122	112.122	112.122	110.716	107.969	105.304	102.720	100.213
9/27/2007	9/27/2017	3/27/2012	3.650	120.945	120.945	119.717	114.617	110.180	106.610	103.857	101.874
9/28/2007	9/28/2012	3/28/2012	3.850	102.577	102.577	102.577	102.362	101.699	101.049	100.460	100.043
10/3/2007	10/3/2012	4/3/2012	3.830	102.617	102.617	102.617	102.395	101.718	101.059	100.475	100.061
10/9/2007	10/9/2012	10/9/2009	4.400	103.080	103.080	103.080	102.850	102.155	101.469	100.793	100.126
10/11/2007	10/14/2014	4/11/2012	4.180	111.459	111.459	111.459	110.020	107.318	104.933	102.979	101.512
10/11/2007	10/11/2017	4/11/2012	3.990	123.052	123.052	121.720	116.485	111.875	108.097	105.131	102.901
10/15/2007	10/16/2017	4/16/2012	3.990	123.107	123.107	121.747	116.504	111.887	108.102	105.128	102.890
10/22/2007	10/22/2012	4/23/2012	3.990	102.937	102.937	102.937	102.689	101.961	101.250	100.603	100.115
10/25/2007	10/27/2014	4/25/2012	4.360	112.110	112.110	112.110	110.632	107.879	105.426	103.390	101.821
10/26/2007	10/26/2017	4/26/2012	3.390	119.726	119.726	118.381	113.354	109.032	105.611	103.029	101.252
10/29/2007	10/29/2012	4/30/2012	3.990	103.014	103.014	103.014	102.758	102.010	101.281	100.617	100.111
11/2/2007	11/3/2014	2/2/2012	3.990	111.160	111.160	111.160	109.670	106.939	104.564	102.646	101.245
11/2/2007	11/3/2014	2/2/2012	4.190	111.720	111.720	111.720	110.226	107.475	105.056	103.081	101.597
11/5/2007	11/5/2014	2/6/2012	3.990	111.182	111.182	111.182	109.687	106.950	104.569	102.646	101.238
11/5/2007	11/6/2017	11/5/2012	4.390	125.680	125.680	124.176	118.766	113.951	109.937	106.669	104.073
11/6/2007	11/6/2017	2/6/2012	3.480	120.356	120.356	118.952	113.881	109.511	106.042	103.410	101.565
11/9/2007	11/10/2014	2/9/2012	4.330	112.195	112.195	112.195	110.679	107.896	105.430	103.397	101.840
11/13/2007	11/13/2012	2/13/2012	3.680	102.934	102.934	102.934	102.656	101.868	101.109	100.463	100.078
11/13/2007	11/13/2014	2/13/2012	3.350	109.463	109.463	109.463	107.960	105.277	103.056	101.428	100.391
11/19/2007	11/19/2014	2/21/2012	4.270	112.133	112.133	112.133	110.592	107.790	105.313	103.274	101.718
11/19/2007	11/19/2014	2/21/2012	3.750	110.656	110.656	110.656	109.126	106.377	104.017	102.172	100.870
11/19/2007	11/19/2014	2/21/2012	3.750	110.656	110.656	110.656	109.126	106.377	104.017	102.172	100.870
11/19/2007	11/20/2017	11/19/2012	4.290	125.262	125.262	123.354	117.191	111.391	106.771	103.488	101.371
11/20/2007	11/20/2017	2/21/2012	3.740	122.023	122.023	120.517	115.308	110.774	107.111	104.276	102.207
11/23/2007	11/24/2017	2/23/2012	3.990	123.539	123.539	121.607	115.468	109.551	103.982	98.739	93.802
11/23/2007	11/24/2017	2/23/2012	3.990	123.539	123.539	121.607	115.468	109.551	103.982	98.739	93.802
11/29/2007	11/29/2017	2/29/2012	2.950	117.444	117.444	116.021	111.150	107.067	103.966	101.796	100.456
11/30/2007	11/30/2017	2/29/2012	3.190	118.873	118.873	117.402	112.413	108.182	104.884	102.487	100.879
12/7/2007	12/7/2012	3/7/2012	3.450	102.980	102.980	102.980	102.670	101.817	101.011	100.366	99.998
12/10/2007	12/11/2017	3/12/2012	3.450	120.516	120.516	118.950	113.837	109.449	105.971	103.336	101.492
12/11/2007	12/11/2012	3/12/2012	3.760	103.290	103.290	103.290	102.974	102.108	101.280	100.566	100.087
12/20/2007	12/20/2012	12/21/2009	3.750	103.375	103.375	103.375	103.046	102.156	101.282	100.422	99.577
12/20/2007	12/20/2012	3/20/2012	3.600	103.240	103.240	103.240	102.911	102.023	101.175	100.468	100.024
12/24/2007	12/26/2017	12/24/2012	3.990	123.894	123.894	121.731	115.508	109.860	105.516	102.681	100.761
12/26/2007	12/26/2012	3/26/2012	3.960	103.630	103.630	103.630	103.293	102.386	101.513	100.737	100.185
12/26/2007	12/26/2012	3/26/2012	3.460	103.171	103.171	103.171	102.835	101.931	101.075	100.390	99.976
1/2/2008	1/2/2013	4/2/2012	3.490	103.267	103.267	103.267	102.921	101.998	101.131	100.444	100.007
1/3/2008	1/5/2015	4/3/2012	3.650	110.848	110.848	110.848	109.187	106.349	103.950	102.116	100.864
1/4/2008	1/4/2018	4/4/2012	3.360	120.205	120.205	118.531	113.439	109.084	105.658	103.087	101.329
1/7/2008	1/7/2013	4/9/2012	2.990	102.840	102.840	102.840	102.488	101.558	100.723	100.135	99.810
1/7/2008	1/7/2013	4/9/2012	3.590	103.410	103.410	103.410	103.057	102.121	101.234	100.508	100.030
1/7/2008	1/7/2015	4/9/2012	3.490	110.392	110.392	110.392	108.730	105.908	103.549	101.803	100.646
1/7/2008	1/8/2018	4/9/2012	2.590	115.603	115.603	114.068	109.388	105.551	102.774	100.977	100.035
1/8/2008	1/8/2013	4/9/2012	3.150	103.001	103.001	103.001	102.647	101.712	100.858	100.233	99.868
1/8/2008	1/8/2018	4/9/2012	2.570	115.483	115.483	113.952	109.284	105.461	102.704	100.939	100.019
1/8/2008	1/8/2018	4/9/2012	2.640	115.904	115.904	114.356	109.645	105.769	102.945	101.072	100.075
1/11/2008	1/11/2018	4/11/2012	2.720	116.409	116.409	114.828	110.063	106.123	103.222	101.267	100.174
1/14/2008	1/16/2018	4/16/2012	3.240	119.591	119.591	117.873	112.821	108.524	105.170	102.711	101.070
1/16/2008	1/16/2013	4/16/2012	2.550	102.486	102.486	102.486	102.123	101.176	100.385	99.936	99.670
1/16/2008	1/16/2018	4/16/2012	2.380	114.391	114.391	112.870	108.321	104.641	102.070	100.574	99.831
1/17/2008	1/17/2018	4/17/2012	2.250	113.611	113.611	112.125	107.664	104.104	101.696	100.341	99.722
1/18/2008	1/18/2013	4/18/2012	2.550	102.500	102.500	102.500	102.134	101.182	100.387	99.932	99.662
1/18/2008	1/20/2015	4/18/2012	2.350	107.082	107.082	107.082	105.428	102.842	101.046	100.058	99.646
1/18/2008	1/18/2018	4/18/2012	2.290	113.859	113.859	112.357	107.867	104.267	101.807	100.407	99.748
1/24/2008	1/24/2013	4/24/2012	2.500	102.493	102.493	102.493	102.119	101.153	100.357	99.901	99.621

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
1/25/2008	1/25/2013	1/26/2009	2.250	102.250	102.250	102.250	101.875	100.896	99.936	98.994	98.069
1/25/2008	1/25/2013	1/25/2012	2.650	102.650	102.650	102.650	102.274	101.293	100.331	99.387	98.460
1/28/2008	1/28/2013	1/28/2012	2.990	103.015	103.015	103.015	102.635	101.644	100.672	99.718	98.783
1/30/2008	1/30/2013	4/30/2012	2.670	102.707	102.707	102.707	102.325	101.337	100.486	99.962	99.642
2/7/2008	2/7/2013	2/7/2012	2.490	102.580	102.580	102.580	102.187	101.184	100.375	100.003	99.965
2/13/2008	2/13/2013	2/13/2012	2.920	103.074	103.074	103.074	102.673	101.640	100.733	100.135	99.950
2/14/2008	2/14/2018	2/14/2012	3.190	119.546	119.546	117.025	110.761	104.776	100.693	99.997	99.957
2/19/2008	2/19/2013	2/19/2010	2.590	102.770	102.770	102.770	102.362	101.305	100.266	99.243	98.238
2/25/2008	2/25/2013	2/25/2012	3.090	103.356	103.356	103.356	102.939	101.861	100.799	99.753	98.724
2/25/2008	2/26/2018	2/27/2012	2.420	114.908	114.908	113.216	108.584	104.840	102.190	100.606	99.960
3/7/2008	3/9/2015	3/7/2012	2.890	109.095	109.095	109.095	107.273	104.444	102.258	100.795	100.061
3/7/2008	3/7/2018	3/7/2013	3.550	121.959	121.959	119.942	114.674	110.150	106.526	103.670	101.416
3/10/2008	3/11/2013	3/12/2012	2.390	102.688	102.688	102.688	102.256	101.168	100.325	99.943	99.794
3/12/2008	3/12/2013	3/12/2012	2.010	102.267	102.267	102.267	101.834	100.769	100.082	99.868	99.750
3/14/2008	3/14/2018	3/14/2012	2.400	114.892	114.892	113.140	108.515	104.789	102.168	100.638	99.943
3/17/2008	3/18/2013	3/19/2012	2.690	103.078	103.078	103.078	102.637	101.515	100.572	100.026	99.807
3/17/2008	3/17/2015	3/17/2012	2.620	108.303	108.303	108.303	106.428	103.282	100.247	97.317	94.487
3/17/2008	3/19/2018	3/18/2013	3.300	120.522	120.522	118.492	113.327	108.937	105.468	102.767	100.647
3/28/2008	3/28/2013	3/28/2012	2.820	103.305	103.305	103.305	102.851	101.689	100.544	99.418	98.309
3/28/2008	3/28/2013	3/28/2012	2.800	103.282	103.282	103.282	102.828	101.665	100.521	99.395	98.286
3/28/2008	3/28/2018	3/28/2012	2.770	117.295	117.295	115.354	110.471	106.434	103.431	101.377	100.224
3/28/2008	3/28/2018	3/28/2012	2.020	112.612	112.612	110.937	106.598	103.216	101.056	100.015	99.676
4/14/2008	4/14/2015	4/14/2012	2.750	108.929	108.929	108.929	106.952	103.724	100.610	97.606	94.708
4/28/2008	4/28/2015	4/30/2012	3.250	110.679	110.679	110.679	108.673	105.659	103.225	101.463	100.353
4/28/2008	4/30/2018	4/30/2012	2.150	113.621	113.621	111.751	107.290	103.767	101.435	100.146	99.577
4/30/2008	4/30/2018	4/30/2013	3.740	123.695	123.695	120.595	114.135	108.726	104.896	102.173	100.181
5/2/2008	5/4/2015	2/2/2012	3.990	113.177	113.177	113.177	111.118	107.967	105.281	103.141	101.570
5/5/2008	5/5/2015	2/6/2012	3.170	110.478	110.478	110.478	108.453	105.456	103.070	101.373	100.364
5/8/2008	5/8/2015	2/8/2012	2.960	109.808	109.808	109.808	107.785	104.834	102.543	100.958	100.182
5/19/2008	5/19/2015	5/21/2012	4.700	115.718	115.718	115.718	113.558	110.127	106.833	103.752	101.170
5/23/2008	5/23/2013	2/23/2012	4.040	105.364	105.364	105.364	104.839	103.513	102.259	101.196	100.402
5/23/2008	5/23/2018	2/23/2012	3.270	120.926	120.926	118.570	113.343	108.916	105.451	102.886	101.143
5/27/2008	5/28/2013	5/27/2011	3.490	104.682	104.682	104.682	104.153	102.816	101.502	100.211	98.942
6/6/2008	6/6/2013	3/6/2012	3.990	105.453	105.453	105.453	104.912	103.544	102.201	100.882	99.585
6/10/2008	6/11/2012	6/10/2010	3.940	101.445	101.445	101.445	101.360	100.995	100.633	100.273	99.915
6/16/2008	6/17/2013	3/16/2012	4.070	105.686	105.686	105.686	105.132	103.732	102.358	101.009	99.683
6/24/2008	6/24/2015	3/26/2012	3.830	113.191	113.191	113.191	110.946	107.709	104.980	102.819	101.253
6/30/2008	7/1/2013	3/30/2012	2.920	104.193	104.193	104.193	103.626	102.218	101.024	100.228	99.846
6/30/2008	7/1/2013	3/30/2012	3.450	104.954	104.954	104.954	104.386	102.961	101.672	100.671	100.053
6/30/2008	6/30/2015	3/30/2012	3.370	111.663	111.663	111.663	109.421	106.265	103.703	101.839	100.620
6/30/2008	7/2/2018	3/30/2012	3.690	124.024	124.024	120.427	113.698	107.283	101.282	95.665	90.406
7/1/2008	7/1/2015	4/1/2012	4.600	115.933	115.933	115.933	113.599	110.049	106.631	103.339	100.169
7/7/2008	7/8/2013	4/7/2012	4.590	106.681	106.681	106.681	106.099	104.635	103.198	101.788	100.403
7/8/2008	7/8/2013	4/8/2012	4.250	106.186	106.186	106.186	105.606	104.145	102.712	101.305	99.924
7/10/2008	7/10/2014	7/10/2012	4.800	111.879	111.879	111.879	110.674	108.150	105.667	103.348	101.435
7/11/2008	7/11/2018	7/11/2012	3.750	124.509	124.509	120.838	114.075	107.839	103.491	101.153	100.075
7/14/2008	7/14/2015	7/15/2013	4.900	117.149	117.149	117.149	114.746	111.115	107.587	104.199	101.008
7/14/2008	7/16/2018	4/16/2012	2.500	116.373	116.373	114.026	109.245	105.368	102.592	100.858	99.952
7/14/2008	7/16/2018	4/16/2012	3.250	121.286	121.286	118.654	113.393	108.943	105.471	102.906	101.180
7/17/2008	7/17/2018	7/17/2013	3.750	124.571	124.571	120.852	114.304	109.023	105.188	102.360	100.195
7/21/2008	7/22/2013	4/23/2012	3.000	104.483	104.483	104.483	103.891	102.406	101.007	100.160	99.763
8/15/2008	8/15/2018	2/15/2012	3.830	125.404	125.404	122.439	116.831	111.987	108.064	105.018	102.757
8/19/2008	8/19/2013	8/19/2010	3.440	105.408	105.408	105.408	104.780	103.213	101.677	100.171	98.695
9/8/2008	9/9/2013	3/8/2012	2.890	104.712	104.712	104.712	104.060	102.470	101.143	100.287	99.914
5/13/2009	5/13/2014	5/13/2013	4.000	109.255	109.255	109.255	108.158	105.603	102.888	99.909	97.159
9/28/2009	9/30/2013	9/28/2012	2.920	104.931	104.931	104.931	104.105	101.975	100.082	98.669	97.677
5/11/2010	5/11/2015	5/11/2015	3.700	112.291	112.291	112.291	110.151	106.403	102.164	97.526	92.673
5/24/2010	5/26/2015	2/24/2012	2.250	107.568	107.568	107.568	105.446	102.131	98.938	98.890	95.862
6/15/2010	6/15/2015	3/15/2012	2.280	107.795	107.795	107.795	105.593	102.223	98.978	99.290	95.854