

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
1/18/2008	1/18/2013	7/20/2009	2.550	109.406	108.086	105.179	102.839	101.189	100.227	99.908	99.767
1/18/2008	1/20/2015	7/20/2009	2.350	111.419	107.947	104.857	102.512	100.937	100.114	99.878	99.739
1/18/2008	1/18/2018	7/20/2009	2.290	112.097	108.170	104.895	102.477	100.892	100.087	99.869	99.731
1/24/2008	1/24/2012	7/24/2009	2.440	106.560	106.529	104.527	102.454	100.965	100.140	99.882	99.732
1/24/2008	1/24/2013	1/25/2010	2.500	109.263	107.917	105.032	102.724	101.105	100.075	99.337	98.687
1/25/2008	1/25/2013	7/25/2009	2.250	108.343	106.782	103.109	99.542	96.115	92.824	89.665	86.630
1/25/2008	1/25/2011	1/25/2011	2.650	109.826	108.263	105.131	102.797	100.925	99.248	97.655	96.110
1/28/2008	1/28/2010	7/28/2009	2.630	101.768	101.768	101.768	101.376	100.706	100.046	99.394	98.751
1/28/2008	1/28/2013	1/28/2011	2.990	111.112	109.525	106.194	103.619	101.587	99.839	98.207	96.639
1/30/2008	1/30/2013	2/1/2010	2.670	109.938	108.530	105.548	103.133	101.390	100.248	99.449	98.764
2/7/2008	2/7/2013	2/8/2010	2.490	109.323	107.909	105.021	102.718	101.105	100.057	99.282	98.594
2/13/2008	2/13/2013	2/14/2011	2.920	110.982	109.461	106.342	103.729	101.590	99.733	98.024	96.399
2/14/2008	2/14/2018	2/14/2012	3.190	115.755	111.062	107.342	104.072	101.181	98.517	95.987	93.559
2/15/2008	2/16/2010	8/16/2009	2.350	101.704	101.704	101.704	101.258	100.538	99.828	99.128	98.438
2/19/2008	2/19/2013	2/19/2010	2.590	109.784	108.041	104.342	101.929	100.782	100.004	99.290	98.591
2/22/2008	2/22/2011	8/22/2009	2.500	104.389	104.389	103.956	102.215	100.505	98.833	97.197	95.596
2/25/2008	2/25/2013	2/25/2011	3.090	111.724	109.934	106.554	103.896	101.764	99.930	98.218	96.578
2/25/2008	2/26/2018	8/25/2009	2.420	113.028	108.869	105.391	102.825	101.107	100.169	99.807	99.565
3/7/2008	3/9/2015	3/7/2011	2.890	114.400	110.394	106.801	103.935	101.636	99.668	97.876	96.185
3/7/2008	3/7/2013	3/7/2013	3.550	121.086	115.228	110.003	105.422	101.314	97.549	94.040	90.735
3/10/2008	3/11/2013	3/10/2010	2.390	109.161	107.616	104.752	102.506	100.948	99.904	99.083	98.325
3/11/2008	3/11/2011	6/11/2009	2.090	103.767	103.767	103.282	101.673	100.511	100.005	99.965	99.935
3/12/2008	3/12/2013	6/12/2009	2.010	107.710	106.277	103.685	101.719	100.476	99.993	99.959	99.926
3/14/2008	3/14/2018	3/15/2010	2.400	112.915	108.782	105.329	102.783	101.069	99.945	99.081	98.302
3/17/2008	3/18/2013	3/17/2011	2.690	110.363	108.700	105.650	103.127	101.026	99.154	97.404	95.723
3/17/2008	3/17/2015	3/17/2011	2.620	111.952	106.986	104.749	102.595	100.714	98.949	97.246	95.586
3/17/2008	3/19/2018	3/18/2013	3.300	119.259	113.662	108.608	104.161	100.144	96.437	92.967	89.687
3/25/2008	3/27/2023	3/25/2013	3.150	119.191	112.923	107.490	103.038	99.143	95.551	92.168	88.952
3/26/2008	3/26/2018	3/26/2012	2.980	114.280	110.213	106.558	103.319	100.410	97.683	95.083	92.581
3/28/2008	3/28/2013	3/28/2011	2.800	110.865	108.856	105.664	103.171	101.117	99.259	97.505	95.808
3/28/2008	3/28/2013	3/28/2011	2.820	110.942	108.933	105.724	103.219	101.160	99.297	97.541	95.844
3/28/2008	3/28/2018	6/29/2009	2.020	110.448	106.924	103.973	101.834	100.512	99.985	99.903	99.822
3/28/2008	3/28/2018	3/28/2011	2.770	115.453	110.737	106.818	103.800	101.413	99.379	97.533	95.794
3/31/2008	3/31/2011	6/30/2009	1.990	103.698	103.698	103.139	101.523	100.409	99.980	99.897	99.814
4/14/2008	4/14/2015	4/14/2011	2.750	112.651	107.629	105.208	102.906	100.925	99.074	97.295	95.566
4/28/2008	4/28/2015	4/28/2011	3.250	116.453	112.110	108.221	105.059	102.487	100.284	98.302	96.449
4/28/2008	4/30/2018	7/28/2009	2.150	111.306	107.541	104.416	102.132	100.680	100.020	99.825	99.666
4/30/2008	4/30/2018	4/30/2013	3.740	121.393	115.671	110.294	105.618	101.454	97.638	94.068	90.701
5/2/2008	5/4/2015	5/2/2011	3.990	120.818	115.936	111.505	107.784	104.441	100.849	97.173	93.868
5/5/2008	5/5/2015	5/5/2011	3.170	116.030	111.749	107.926	104.817	102.277	100.088	98.105	96.244
5/8/2008	5/8/2015	5/10/2010	2.960	114.865	110.758	107.097	104.214	102.106	100.605	99.471	98.494
5/19/2008	5/19/2015	5/21/2012	4.700	124.617	119.069	113.941	109.177	104.520	99.462	94.317	89.604
5/19/2008	5/21/2018	5/20/2013	3.890	122.742	116.745	111.155	106.346	102.055	98.138	94.495	91.063
5/23/2008	5/23/2013	5/23/2011	4.040	116.305	114.060	110.372	107.111	104.048	100.598	96.990	93.716
5/23/2008	5/23/2018	5/23/2011	3.270	119.237	113.748	109.192	105.629	102.796	100.408	98.296	96.346
5/27/2008	5/27/2010	8/27/2009	2.790	102.798	102.798	102.798	102.063	101.069	100.095	99.140	98.202
5/27/2008	5/27/2011	5/27/2010	3.220	106.493	106.493	105.698	103.709	101.992	100.672	99.608	98.636
5/27/2008	5/28/2013	5/27/2011	3.490	114.134	111.677	108.084	105.108	102.669	100.511	98.526	96.643
5/29/2008	5/29/2018	5/31/2011	3.460	117.923	111.133	107.630	104.690	102.384	100.325	98.388	96.525
6/6/2008	6/6/2013	6/6/2011	3.990	116.258	113.772	109.956	106.685	103.838	100.939	97.868	94.638
6/10/2008	6/11/2012	6/10/2010	3.940	112.115	111.948	108.846	105.843	103.120	100.663	98.410	96.323
6/16/2008	6/17/2013	6/16/2011	4.070	116.709	114.074	110.239	106.943	104.208	101.828	99.686	97.691
6/24/2008	6/24/2015	6/24/2011	3.830	119.899	115.097	110.767	107.160	104.173	101.625	99.358	97.274
6/30/2008	7/1/2013	6/30/2009	2.920	112.101	109.746	106.484	103.833	101.875	100.593	100.013	99.891
6/30/2008	7/1/2013	6/30/2010	3.450	114.297	111.818	108.306	105.347	103.033	101.285	99.911	98.746
6/30/2008	6/30/2015	6/30/2010	3.370	117.265	112.785	108.774	105.543	103.085	101.265	99.855	98.673
6/30/2008	7/2/2018	6/30/2011	3.690	120.070	112.889	108.718	105.496	102.938	100.725	98.685	96.738
7/1/2008	7/1/2015	7/1/2011	4.600	124.116	117.920	112.973	108.904	105.463	101.860	97.950	94.149
7/7/2008	7/8/2013	7/7/2011	4.590	119.111	116.332	112.302	108.731	105.471	102.037	98.249	94.455
7/8/2008	7/8/2013	7/8/2011	4.250	117.696	114.923	110.986	107.562	104.549	101.500	98.240	94.940
7/10/2008	7/10/2014	7/10/2012	4.800	123.762	118.797	114.033	109.533	105.120	100.488	95.506	90.523
7/11/2008	7/11/2018	7/11/2012	3.750	121.083	115.349	110.286	106.185	102.640	99.454	96.497	93.698
7/14/2008	7/14/2015	7/15/2013	4.900	126.126	120.593	114.801	109.085	103.412	97.557	91.445	85.445
7/14/2008	7/16/2018	7/14/2009	2.500	113.779	109.376	105.766	103.081	101.267	100.244	99.915	99.789
7/14/2008	7/16/2018	7/14/2011	3.250	119.248	113.720	109.151	105.545	102.632	100.146	97.921	95.854
7/17/2008	7/17/2018	7/17/2013	3.750	122.030	115.974	110.376	105.490	101.127	97.131	93.400	89.888
7/21/2008	7/22/2013	7/21/2009	3.000	112.607	109.687	105.498	101.624	100.270	100.107	99.966	99.826
8/15/2008	8/15/2018	8/15/2011	3.830	123.879	117.546	112.278	108.061	104.652	101.785	99.277	96.999
8/19/2008	8/19/2013	8/19/2010	3.440	114.724	111.555	107.457	104.412	102.358	100.849	99.567	98.381
9/8/2008	9/9/2013	9/8/2009	2.890	112.538	109.760	106.457	103.803	101.855	100.596	99.959	99.623
5/13/2009	5/13/2014	5/13/2013	4.000	119.385	114.941	110.312	105.787	101.078	96.102	90.898	85.812