

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 pay 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	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
2/27/1997	2/27/2012	2/28/2011	6.580	107.731	107.731	107.731	106.960	105.776	104.615	103.485	102.411
4/8/1998	4/8/2013	1/10/2011	5.490	112.642	112.642	112.248	109.895	107.614	105.500	103.647	102.106
8/19/1998	8/19/2013	2/22/2011	5.490	114.670	114.670	113.736	111.004	108.399	106.034	103.984	102.306
8/19/1998	8/19/2013	2/22/2011	5.490	114.670	114.670	113.736	111.004	108.399	106.034	103.984	102.306
8/25/1998	8/19/2013	1/25/2011	5.490	114.670	114.670	113.736	111.004	108.400	106.032	103.981	102.302
8/27/1998	8/19/2013	1/27/2011	5.490	114.670	114.670	113.736	111.004	108.399	106.030	103.978	102.298
9/30/1998	9/30/2013	3/30/2011	5.220	114.557	114.557	113.416	110.585	107.923	105.540	103.518	101.900
12/14/1998	12/16/2013	3/14/2011	5.390	116.184	116.184	114.659	111.608	108.754	106.217	104.057	102.316
12/14/1998	12/16/2013	3/14/2011	4.890	114.683	114.683	113.163	110.153	107.380	104.961	102.977	101.471
12/15/1998	12/16/2013	3/15/2011	4.880	114.653	114.653	113.133	110.124	107.353	104.936	102.954	101.453
1/7/2000	1/7/2015	1/7/2011	5.950	124.262	124.227	120.150	116.079	112.389	109.150	106.391	104.123
1/11/2001	1/11/2011	1/11/2011	5.370	100.164	100.164	100.164	100.158	100.129	100.099	100.069	100.040
1/12/2001	1/12/2011	1/12/2011	5.300	100.177	100.177	100.177	100.171	100.138	100.106	100.073	100.041
2/5/2001	2/7/2011	2/7/2011	4.820	100.509	100.509	100.509	100.488	100.383	100.279	100.175	100.071
2/7/2001	2/7/2011	2/7/2011	4.820	100.509	100.509	100.509	100.488	100.383	100.279	100.175	100.071
2/26/2001	2/28/2011	2/28/2011	5.060	100.829	100.829	100.829	100.792	100.625	100.458	100.292	100.126
2/26/2001	2/28/2011	2/28/2011	5.450	100.893	100.893	100.893	100.856	100.689	100.522	100.356	100.190
2/26/2001	2/28/2011	2/28/2011	4.790	100.785	100.785	100.785	100.748	100.581	100.414	100.248	100.082
2/27/2001	2/28/2011	2/28/2011	5.020	100.823	100.823	100.823	100.785	100.618	100.451	100.285	100.120
2/27/2001	2/28/2011	2/28/2011	4.760	100.780	100.780	100.780	100.743	100.576	100.409	100.243	100.077
3/1/2001	3/1/2011	3/1/2011	5.270	100.878	100.878	100.878	100.840	100.670	100.501	100.332	100.163
3/14/2001	3/14/2011	3/14/2011	4.860	100.985	100.985	100.985	100.935	100.730	100.526	100.323	100.120
4/23/2001	4/25/2011	4/24/2006	5.350	101.709	101.709	101.709	101.612	101.290	100.971	100.654	100.339
6/1/2001	6/1/2011	3/1/2011	4.990	102.107	102.107	102.107	101.953	101.532	101.113	100.699	100.303
12/13/2001	12/13/2011	3/14/2011	4.920	104.742	104.742	104.742	104.216	103.259	102.320	101.421	100.636
6/3/2002	6/4/2012	3/3/2011	4.490	106.498	106.498	106.498	105.393	103.950	102.534	101.146	99.784
6/4/2002	6/4/2012	3/6/2011	4.490	106.498	106.498	106.498	105.393	103.950	102.534	101.146	99.784
12/5/2002	12/5/2012	3/6/2011	3.790	107.422	107.422	107.385	105.465	103.525	101.631	99.782	97.975
3/6/2003	3/6/2013	3/7/2011	2.990	106.611	106.611	106.334	104.175	102.285	100.881	100.083	99.778
6/18/2004	6/20/2011	3/20/2011	4.120	101.957	101.957	101.957	101.769	101.295	100.826	100.361	99.900
7/2/2004	7/2/2014	1/3/2011	3.990	114.175	114.175	111.446	107.849	104.374	101.031	97.815	97.234
12/13/2004	12/15/2014	3/14/2011	3.320	113.325	113.325	109.714	106.387	103.716	101.748	100.498	99.899
9/1/2005	9/1/2015	3/1/2011	4.130	119.559	118.225	113.388	108.627	104.084	99.762	96.646	96.283
9/19/2005	9/19/2012	3/21/2011	3.820	106.663	106.663	106.645	105.083	103.391	101.893	100.735	100.046
9/26/2005	9/26/2012	3/28/2011	3.890	106.861	106.861	106.841	105.245	103.532	102.006	100.814	100.070
9/30/2005	9/30/2015	3/30/2011	4.440	121.385	119.852	114.906	110.035	105.389	100.972	96.771	96.194
10/26/2005	10/26/2015	1/26/2011	4.540	122.194	120.489	115.460	110.509	105.790	101.306	97.623	97.480
10/28/2005	10/28/2015	1/28/2011	4.310	121.094	119.471	114.874	110.723	107.248	104.464	102.350	100.879
10/28/2005	10/28/2015	1/28/2011	4.140	120.262	118.651	114.100	110.027	106.645	103.964	101.965	100.641
11/21/2005	11/21/2012	2/22/2011	4.290	108.234	108.234	108.200	106.340	104.465	102.770	101.384	100.426
1/6/2006	1/6/2016	1/6/2011	4.020	120.456	118.436	113.802	109.711	106.351	103.723	101.798	100.567
1/17/2006	1/19/2016	1/18/2011	4.080	120.909	118.787	114.110	109.972	106.565	103.885	101.904	100.614
3/20/2006	3/21/2011	3/21/2011	4.760	101.058	101.058	101.058	101.001	100.777	100.554	100.332	100.111
4/11/2006	4/11/2011	1/11/2011	4.980	101.397	101.397	101.397	101.318	101.036	100.755	100.477	100.200
4/19/2006	4/19/2013	1/19/2011	4.630	110.803	110.803	110.370	108.011	105.767	103.762	102.113	100.872
4/24/2006	4/25/2016	1/24/2011	4.440	123.950	121.090	116.132	111.711	108.022	105.058	102.790	101.173
4/28/2006	4/28/2011	1/28/2011	5.090	101.668	101.668	101.668	101.567	101.238	100.910	100.585	100.262
5/5/2006	5/6/2013	2/7/2011	4.780	111.378	111.378	110.886	108.474	106.178	104.123	102.411	101.110
5/5/2006	5/5/2016	2/7/2011	4.980	127.001	124.002	118.859	114.192	110.214	106.929	104.306	102.320
5/5/2006	5/5/2016	2/7/2011	4.350	123.585	120.670	115.736	111.356	107.717	104.813	102.611	101.070
5/5/2006	5/5/2016	2/7/2011	4.530	124.561	121.618	116.619	112.154	108.413	105.395	103.069	101.399
5/9/2006	5/9/2011	2/9/2011	5.050	101.809	101.809	101.809	101.692	101.333	100.976	100.621	100.273
5/15/2006	5/16/2016	2/15/2011	4.350	123.718	120.720	115.765	111.369	107.716	104.804	102.595	101.045
5/15/2006	5/16/2016	2/15/2011	4.520	124.645	121.620	116.603	112.123	108.375	105.352	103.025	101.355
5/19/2006	5/19/2016	2/22/2011	4.510	124.628	121.583	116.562	112.083	108.336	105.315	102.989	101.324
6/12/2006	6/13/2016	3/14/2011	4.620	125.550	122.310	117.210	112.652	108.827	105.724	103.317	101.574
6/26/2006	6/27/2016	3/28/2011	4.730	126.342	122.985	117.815	113.180	109.277	106.092	103.594	101.763
6/28/2006	6/28/2013	3/28/2011	4.950	112.512	112.512	111.830	109.262	106.823	104.640	102.797	101.374
6/30/2006	7/1/2013	3/30/2011	4.890	112.401	112.401	111.708	109.134	106.698	104.526	102.699	101.294
7/14/2006	7/15/2013	1/14/2011	4.890	112.591	112.591	111.830	109.219	106.752	104.561	102.726	101.322
7/19/2006	7/19/2011	1/19/2011	5.250	102.917	102.917	102.917	102.673	102.119	101.570	101.029	100.512
7/20/2006	7/20/2011	1/20/2011	5.300	102.959	102.959	102.959	102.714	102.157	101.605	101.060	100.520
7/24/2006	7/25/2016	1/24/2011	4.660	126.314	122.744	117.553	112.928	109.041	105.885	103.432	101.638
7/28/2006	7/28/2016	1/28/2011	4.490	125.392	121.828	116.696	112.149	108.355	105.309	102.967	101.289
8/1/2006	8/1/2016	2/1/2011	4.890	127.708	124.047	118.776	114.038	110.030	106.742	104.135	102.186
8/11/2006	8/11/2011	2/11/2011	4.790	102.967	102.967	102.967	102.681	102.065	101.456	100.860	100.332
8/21/2006	8/21/2013	2/22/2011	4.750	112.719	112.719	111.777	109.046	106.373	103.781	101.266	99.199
8/25/2006	8/25/2016	2/25/2011	4.350	124.938	121.182	116.070	111.569	107.841	104.874	102.626	101.046
8/28/2006	8/29/2011	2/28/2011	4.890	103.273	103.273	103.273	102.953	102.288	101.631	100.983	100.344

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
9/22/2006	9/22/2011	3/22/2011	4.790	103.526	103.526	103.526	103.158	102.426	101.705	101.004	100.397
9/29/2006	9/29/2011	3/29/2011	4.590	103.468	103.468	103.468	103.086	102.336	101.597	100.885	100.293
10/10/2006	10/10/2013	1/10/2011	4.250	111.970	111.970	110.789	108.005	105.480	103.346	101.685	100.564
10/12/2006	10/15/2013	1/12/2011	4.500	112.737	112.737	111.529	108.708	106.122	103.903	102.131	100.847
10/30/2006	10/31/2011	1/30/2011	4.850	104.095	104.095	104.095	103.653	102.815	101.991	101.179	100.381
11/3/2006	11/3/2011	2/3/2011	4.690	103.999	103.999	103.999	103.551	102.706	101.874	101.055	100.250
11/6/2006	11/6/2013	2/7/2011	4.290	112.404	112.404	111.091	108.238	105.658	103.480	101.783	100.624
11/10/2006	11/13/2012	2/10/2011	4.390	108.328	108.328	108.297	106.473	104.614	102.923	101.521	100.524
11/17/2006	11/18/2013	2/17/2011	4.350	112.723	112.723	111.349	108.458	105.838	103.623	101.883	100.673
11/24/2006	11/25/2016	2/24/2011	4.190	125.092	120.666	115.501	111.006	107.328	104.435	102.274	100.816
11/30/2006	12/2/2013	2/28/2011	4.350	112.892	112.892	111.440	108.426	105.490	102.651	100.310	98.800
12/1/2006	12/1/2016	3/1/2011	4.090	124.561	120.131	115.019	110.588	106.982	104.169	102.098	100.743
12/4/2006	12/5/2016	3/4/2011	4.080	124.546	120.089	114.975	110.546	106.944	104.138	102.069	100.721
12/5/2006	12/5/2016	3/7/2011	4.260	125.629	121.112	115.906	111.371	107.647	104.708	102.502	100.985
12/6/2006	12/6/2013	3/7/2011	4.400	113.089	113.089	111.626	108.687	106.029	103.781	102.013	100.766
12/8/2006	12/8/2016	3/8/2011	3.990	124.038	119.590	114.517	110.138	106.598	103.855	101.859	100.592
12/12/2006	12/12/2016	3/14/2011	3.990	124.082	119.604	114.524	110.141	106.598	103.851	101.851	100.581
12/12/2006	12/12/2016	3/14/2011	4.050	124.445	119.944	114.833	110.412	106.825	104.036	101.986	100.659
12/19/2006	12/19/2011	3/21/2011	4.490	104.402	104.402	104.402	103.866	102.894	101.944	101.052	100.347
12/19/2006	12/19/2016	3/21/2011	4.190	125.371	120.768	115.572	111.059	107.368	104.466	102.303	100.839
12/20/2006	12/20/2013	3/21/2011	4.500	113.562	113.562	112.029	109.043	106.333	104.031	102.200	100.873
12/21/2006	12/21/2011	3/21/2011	4.530	104.467	104.467	104.467	103.926	102.949	101.993	101.093	100.376
12/27/2006	12/27/2013	3/28/2011	4.500	113.649	113.649	112.082	109.078	106.354	104.041	102.200	100.863
12/28/2006	12/28/2016	3/28/2011	4.250	125.841	121.149	115.905	111.344	107.604	104.651	102.435	100.909
12/28/2006	12/28/2016	3/28/2011	4.400	126.753	122.013	116.694	112.048	108.207	105.150	102.823	101.171
1/8/2007	1/9/2012	1/8/2011	4.750	104.934	104.934	104.934	104.343	103.313	102.303	101.312	100.340
1/12/2007	1/12/2017	1/12/2011	4.420	127.020	122.194	116.854	112.189	108.332	105.260	102.921	101.261
1/16/2007	1/17/2017	1/17/2012	4.790	129.335	124.368	118.857	113.976	109.885	106.554	103.911	101.853
1/23/2007	1/23/2014	1/24/2011	4.490	113.956	113.956	112.234	109.171	106.408	104.067	102.211	100.868
1/23/2007	1/23/2017	1/24/2011	4.460	127.365	122.464	117.088	112.386	108.492	105.383	103.006	101.306
1/29/2007	1/29/2014	1/29/2011	4.790	114.968	114.968	113.194	109.998	106.890	103.887	100.987	99.704
2/2/2007	2/2/2017	2/2/2011	4.690	128.877	123.207	116.811	110.653	104.858	102.919	100.678	99.486
2/9/2007	2/9/2012	2/9/2011	4.750	105.343	105.343	105.343	104.644	103.527	102.438	101.425	100.587
2/9/2007	2/9/2017	2/9/2011	4.470	127.580	122.592	117.197	112.477	108.573	105.455	103.071	101.374
2/12/2007	2/13/2012	2/14/2011	4.880	105.544	105.544	105.544	104.830	103.700	102.597	101.566	100.693
2/15/2007	2/15/2012	2/15/2011	4.990	105.697	105.697	105.697	104.975	103.838	102.723	101.628	100.555
2/20/2007	2/21/2017	2/22/2011	4.390	127.187	122.160	116.787	112.101	108.238	105.165	102.834	101.184
2/20/2007	2/21/2017	2/21/2012	4.850	130.054	124.224	117.763	111.923	107.384	104.339	102.247	100.714
2/23/2007	2/23/2017	2/23/2011	4.250	126.331	121.346	116.039	111.434	107.664	104.694	102.466	100.934
2/23/2007	2/23/2017	2/23/2011	4.350	126.955	121.932	116.574	111.909	108.070	105.025	102.722	101.104
3/2/2007	3/2/2012	3/2/2011	4.490	105.325	105.325	105.325	104.547	103.368	102.230	101.201	100.426
3/9/2007	3/10/2014	3/9/2011	4.450	114.400	114.400	112.395	109.238	106.420	104.055	102.197	100.873
3/16/2007	3/16/2017	3/16/2011	4.090	125.505	120.490	115.247	110.729	107.065	104.210	102.102	100.722
3/20/2007	3/20/2012	3/20/2011	4.550	105.624	105.624	105.624	104.784	103.554	102.347	101.162	100.000
3/21/2007	3/21/2017	3/21/2011	4.220	126.367	121.271	115.948	111.341	107.580	104.621	102.409	100.899
3/23/2007	3/23/2017	3/23/2011	4.290	126.826	121.692	116.327	111.676	107.863	104.851	102.584	101.009
3/23/2007	3/23/2017	3/23/2011	4.290	126.826	121.692	116.327	111.676	107.863	104.851	102.584	101.009
3/30/2007	3/30/2012	3/30/2011	4.670	105.902	105.902	105.902	105.027	103.768	102.533	101.321	100.132
4/2/2007	4/2/2012	4/4/2011	4.590	105.839	105.839	105.839	104.954	103.689	102.473	101.376	100.528
4/9/2007	4/10/2017	1/10/2011	4.150	126.093	120.938	115.632	111.059	107.343	104.435	102.276	100.828
4/12/2007	4/12/2017	1/12/2011	4.250	126.746	121.535	116.172	111.531	107.741	104.755	102.517	100.977
4/13/2007	4/13/2017	1/13/2011	4.450	128.028	122.730	117.259	112.496	108.564	105.434	103.046	101.341
4/23/2007	4/23/2012	1/25/2011	4.650	106.187	106.187	106.187	105.227	103.900	102.598	101.320	100.066
4/23/2007	4/23/2014	1/24/2011	4.620	115.515	115.515	113.240	109.960	107.026	104.545	102.570	101.114
4/27/2007	4/27/2012	1/27/2011	4.550	106.104	106.104	106.104	105.131	103.795	102.514	101.369	100.486
4/27/2007	4/27/2017	1/27/2011	4.250	126.872	121.578	116.193	111.535	107.731	104.733	102.486	100.936
5/2/2007	5/2/2014	2/2/2011	4.590	115.529	115.529	113.202	109.911	106.978	104.507	102.551	101.123
5/4/2007	5/5/2014	2/4/2011	4.550	115.431	115.431	113.089	109.797	106.869	104.408	102.464	101.057
5/14/2007	5/16/2011	2/14/2011	4.500	101.700	101.700	101.700	101.572	101.194	100.819	100.446	100.114
5/18/2007	5/18/2017	2/18/2011	4.190	126.663	121.295	115.923	111.291	107.520	104.564	102.360	100.870
5/22/2007	5/22/2012	2/22/2011	4.690	106.618	106.618	106.618	105.557	104.150	102.799	101.588	100.632
5/22/2007	5/22/2012	2/22/2011	4.690	106.618	106.618	106.618	105.557	104.150	102.799	101.588	100.632
5/22/2007	5/22/2012	2/22/2011	4.710	106.646	106.646	106.646	105.585	104.178	102.826	101.613	100.650
5/22/2007	5/22/2017	5/22/2012	4.750	130.324	124.694	119.022	114.038	109.882	106.496	103.767	101.546
5/25/2007	5/25/2012	2/25/2011	4.650	106.600	106.600	106.600	105.529	104.114	102.757	101.544	100.596
5/29/2007	5/30/2017	2/28/2011	4.250	127.154	121.695	116.273	111.589	107.764	104.753	102.496	100.939
6/1/2007	6/1/2012	3/2/2011	5.230	107.525	107.525	107.525	106.426	104.984	103.569	102.182	100.820
6/1/2007	6/2/2014	3/1/2011	4.500	115.612	115.612	113.106	109.761	106.805	104.334	102.399	101.009
6/7/2007	6/7/2017	3/7/2011	4.820	130.940	125.204	119.483	114.449	110.244	106.829	104.150	102.160

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
6/8/2007	6/8/2012	3/8/2011	5.300	107.729	107.729	107.729	106.604	105.141	103.706	102.298	100.917
6/8/2007	6/9/2014	3/8/2011	4.730	116.502	116.502	113.941	110.544	107.511	104.940	102.882	101.363
6/8/2007	6/8/2017	3/8/2011	4.490	128.797	123.194	117.636	112.800	108.811	105.624	103.192	101.457
6/11/2007	6/12/2017	3/11/2011	4.490	128.834	123.210	117.644	112.804	108.813	105.623	103.188	101.448
6/15/2007	6/16/2014	3/15/2011	5.550	119.470	119.470	116.815	113.177	109.650	106.256	102.988	99.842
6/18/2007	6/19/2017	3/18/2011	4.500	128.964	123.299	117.714	112.860	108.854	105.651	103.204	101.451
6/18/2007	6/19/2017	3/18/2011	4.840	131.193	125.379	119.626	114.565	110.335	106.895	104.192	102.176
6/19/2007	6/19/2017	3/21/2011	4.650	129.947	124.213	118.553	113.605	109.498	106.189	103.621	101.759
6/20/2007	6/20/2012	3/21/2011	4.890	107.294	107.294	107.294	106.129	104.638	103.205	101.918	100.865
6/22/2007	6/22/2017	3/22/2011	4.500	128.992	123.311	117.719	112.861	108.850	105.645	103.196	101.441
6/26/2007	6/26/2012	3/28/2011	5.130	107.737	107.737	107.737	106.550	105.038	103.579	102.247	101.136
6/28/2007	6/28/2017	3/28/2011	4.500	129.048	123.336	117.731	112.866	108.849	105.640	103.187	101.426
7/13/2007	7/13/2012	1/13/2011	4.690	107.295	107.295	107.292	106.034	104.483	103.011	101.710	100.699
7/13/2007	7/13/2017	1/13/2011	4.290	127.748	122.113	116.615	111.875	108.004	104.952	102.657	101.065
7/13/2007	7/13/2017	7/13/2011	4.900	131.783	125.869	120.053	114.935	110.653	107.161	104.409	102.332
7/18/2007	7/18/2017	1/18/2011	4.780	131.019	125.144	119.378	114.325	110.114	106.701	104.027	102.056
7/19/2007	7/19/2012	1/19/2011	4.890	107.688	107.688	107.683	106.396	104.825	103.324	101.986	100.904
7/20/2007	7/20/2017	1/20/2011	4.290	127.782	122.132	116.625	111.876	107.998	104.941	102.641	101.045
7/23/2007	7/23/2012	1/24/2011	5.050	107.995	107.995	107.990	106.683	105.099	103.580	102.212	101.082
7/27/2007	7/27/2012	1/27/2011	4.590	107.318	107.318	107.312	105.990	104.404	102.907	101.597	100.602
7/27/2007	7/28/2014	1/27/2011	4.350	115.768	115.768	112.912	109.478	106.481	104.012	102.101	100.767
7/27/2007	7/27/2017	1/27/2011	4.250	127.551	121.907	116.413	111.683	107.828	104.796	102.524	100.955
7/30/2007	1/30/2019	1/31/2011	3.990	128.446	122.007	116.083	111.152	107.234	104.231	102.063	100.669
7/31/2007	7/31/2017	1/31/2011	3.990	125.842	120.342	115.000	110.447	106.781	103.948	101.902	100.587
7/31/2007	7/31/2017	1/31/2011	3.990	125.842	120.342	115.000	110.447	106.781	103.948	101.902	100.587
7/31/2007	7/31/2017	1/31/2011	4.060	126.307	120.767	115.382	110.780	107.061	104.173	102.062	100.689
8/2/2007	8/4/2014	2/2/2011	4.490	116.363	116.363	113.453	109.983	106.940	104.414	102.441	101.025
8/2/2007	8/2/2017	2/2/2011	4.150	126.916	121.328	115.897	111.239	107.466	104.520	102.336	100.872
8/2/2007	8/2/2017	2/2/2011	4.050	126.250	120.718	115.348	110.762	107.062	104.194	102.091	100.727
8/6/2007	8/6/2012	2/7/2011	4.490	107.283	107.283	107.275	105.909	104.300	102.793	101.500	100.546
8/9/2007	8/11/2014	8/9/2011	4.860	117.806	117.806	114.823	111.270	108.104	105.418	103.251	101.593
8/9/2007	8/9/2017	2/9/2011	3.990	125.882	120.370	115.026	110.474	106.813	103.988	101.936	100.628
8/13/2007	8/13/2012	2/14/2011	4.590	107.535	107.535	107.525	106.126	104.495	102.964	101.637	100.633
8/16/2007	8/16/2017	2/16/2011	3.990	125.914	120.385	115.032	110.471	106.805	103.976	101.920	100.608
8/17/2007	8/17/2012	2/17/2011	4.350	107.189	107.189	107.178	105.763	104.129	102.611	101.333	100.424
8/17/2007	8/17/2012	2/17/2011	4.150	106.859	106.859	106.848	105.434	103.807	102.313	101.087	100.269
8/17/2007	8/17/2017	2/17/2011	4.000	125.986	120.449	115.088	110.519	106.844	104.006	101.941	100.619
8/20/2007	8/20/2014	8/22/2011	4.250	115.677	115.677	112.648	109.154	106.114	103.613	101.714	100.414
8/24/2007	8/24/2012	2/24/2011	4.050	106.772	106.772	106.759	105.315	103.674	102.177	100.973	100.185
8/28/2007	8/28/2014	2/28/2011	4.350	116.142	116.142	113.080	109.586	106.548	104.050	102.122	100.775
8/30/2007	8/30/2012	2/28/2011	4.390	107.414	107.414	107.400	105.925	104.256	102.705	101.391	100.449
8/30/2007	9/2/2014	2/28/2011	3.890	114.489	114.489	111.439	108.056	105.188	102.913	101.266	100.256
8/31/2007	8/31/2012	2/28/2011	4.370	107.392	107.392	107.378	105.899	104.228	102.678	101.367	100.433
9/4/2007	9/4/2012	3/4/2011	4.220	107.185	107.185	107.170	105.674	104.000	102.469	101.206	100.352
9/4/2007	9/5/2017	3/4/2011	3.890	125.341	119.840	114.538	110.043	106.452	103.701	101.731	100.514
9/7/2007	9/7/2012	3/7/2011	4.090	106.998	106.998	106.982	105.473	103.797	102.275	101.054	100.244
9/10/2007	9/11/2017	3/10/2011	3.690	124.024	118.640	113.462	109.115	105.677	103.093	101.306	100.248
9/11/2007	9/11/2017	3/11/2011	3.590	123.351	118.033	112.927	108.656	105.304	102.808	101.106	100.139
9/12/2007	9/12/2014	3/14/2011	3.690	113.847	113.847	110.760	107.421	104.639	102.482	100.973	100.104
9/13/2007	9/15/2014	3/14/2011	3.990	115.006	115.006	111.860	108.433	105.517	103.189	101.478	100.401
9/13/2007	9/13/2017	3/14/2011	3.990	126.056	120.474	115.093	110.514	106.839	104.003	101.938	100.622
9/14/2007	9/14/2011	3/14/2011	4.090	102.920	102.920	102.920	102.568	101.861	101.165	100.518	100.049
9/14/2007	9/14/2012	3/14/2011	4.390	107.597	107.597	107.579	106.034	104.328	102.754	101.425	100.484
9/17/2007	9/17/2012	3/17/2011	4.220	107.338	107.338	107.319	105.762	104.055	102.496	101.213	100.338
9/27/2007	9/29/2014	9/27/2010	4.490	117.061	117.061	113.679	109.806	106.071	102.486	99.045	95.741
9/27/2007	9/27/2017	3/28/2011	3.650	123.829	118.437	113.259	108.927	105.512	102.956	101.192	100.151
9/28/2007	9/28/2012	3/28/2011	3.850	106.812	106.812	106.791	105.187	103.471	101.951	100.767	100.051
10/3/2007	10/3/2012	4/4/2011	3.830	106.830	106.830	106.808	105.181	103.459	101.943	100.776	100.126
10/9/2007	10/9/2012	10/9/2009	4.400	107.920	107.920	107.896	106.234	104.440	102.686	100.970	99.292
10/11/2007	10/14/2014	1/11/2011	4.180	116.057	116.057	112.698	109.171	106.147	103.702	101.853	100.627
10/11/2007	10/11/2017	1/11/2011	3.990	126.192	120.566	115.153	110.558	106.870	104.025	101.953	100.627
10/15/2007	10/16/2017	1/18/2011	3.990	126.212	120.578	115.159	110.560	106.867	104.017	101.943	100.613
10/22/2007	10/22/2012	1/24/2011	3.990	107.326	107.326	107.299	105.584	103.801	102.211	100.962	100.182
10/25/2007	10/27/2014	10/25/2011	4.360	116.906	116.906	113.438	109.833	106.720	104.169	102.183	100.686
10/26/2007	10/26/2017	1/26/2011	3.390	122.157	116.922	111.922	107.786	104.588	102.257	100.727	100.042
10/29/2007	10/29/2012	1/31/2011	3.990	107.403	107.403	107.375	105.628	103.827	102.222	100.961	100.178
11/2/2007	11/3/2014	2/2/2011	3.990	115.549	115.549	112.084	108.577	105.611	103.254	101.529	100.443
11/2/2007	11/3/2014	2/2/2011	4.190	116.328	116.328	112.836	109.273	106.225	103.763	101.902	100.665
11/5/2007	11/5/2014	2/7/2011	3.990	115.571	115.571	112.093	108.581	105.612	103.252	101.523	100.434

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
11/5/2007	11/6/2017	11/5/2012	4.390	129.055	123.160	117.471	112.573	108.545	105.254	102.515	100.169
11/6/2007	11/6/2017	2/7/2011	3.480	122.809	117.498	112.430	108.219	104.946	102.537	100.922	100.094
11/9/2007	11/10/2014	11/9/2011	4.330	116.958	116.958	113.400	109.783	106.669	104.127	102.150	100.648
11/13/2007	11/14/2011	2/14/2011	3.760	103.321	103.321	103.321	102.853	101.981	101.134	100.403	99.991
11/13/2007	11/13/2012	2/14/2011	3.680	106.981	106.981	106.950	105.138	103.328	101.774	100.627	100.028
11/13/2007	11/13/2014	2/14/2011	3.350	113.148	113.148	109.728	106.425	103.762	101.789	100.517	99.962
11/19/2007	11/19/2014	2/22/2011	3.750	114.780	114.780	111.242	107.780	104.900	102.663	101.083	100.159
11/19/2007	11/19/2014	2/22/2011	3.750	114.780	114.780	111.242	107.780	104.900	102.663	101.083	100.159
11/19/2007	11/19/2014	11/21/2011	4.270	116.830	116.830	113.217	109.595	106.489	103.961	102.006	100.515
11/19/2007	11/20/2017	11/19/2012	4.290	128.258	121.087	114.711	109.786	106.164	103.396	101.148	99.156
11/20/2007	11/20/2017	2/22/2011	3.740	124.645	119.114	113.836	109.402	105.894	103.244	101.394	100.292
11/23/2007	11/24/2017	11/23/2011	3.990	126.176	119.013	112.026	106.569	103.399	101.684	100.578	99.659
11/23/2007	11/24/2017	11/23/2011	3.990	126.176	119.013	112.026	106.569	103.399	101.684	100.578	99.659
11/29/2007	11/29/2017	2/28/2011	2.950	119.248	114.345	109.705	105.946	103.146	101.237	100.170	99.792
11/30/2007	11/30/2017	2/28/2011	3.190	120.897	115.777	110.927	106.950	103.919	101.765	100.450	99.880
12/7/2007	12/7/2012	3/7/2011	3.450	106.775	106.775	106.738	104.821	102.985	101.466	100.429	99.917
12/10/2007	12/11/2017	3/10/2011	3.450	122.734	117.389	112.316	108.109	104.847	102.458	100.869	100.043
12/11/2007	12/11/2012	3/11/2011	3.760	107.425	107.425	107.387	105.445	103.563	101.947	100.740	100.050
12/20/2007	12/20/2012	12/21/2009	3.750	107.499	107.499	107.459	105.471	103.492	101.560	99.674	97.833
12/20/2007	12/20/2012	3/21/2011	3.600	107.199	107.199	107.159	105.180	103.295	101.709	100.561	99.957
12/24/2007	12/26/2017	12/24/2012	3.990	126.282	119.056	113.039	108.510	105.219	102.621	100.408	98.408
12/26/2007	12/26/2012	3/28/2011	3.960	107.985	107.985	107.944	105.929	103.990	102.294	100.991	100.148
12/26/2007	12/26/2012	3/28/2011	3.460	106.977	106.977	106.935	104.933	103.051	101.494	100.427	99.873
1/2/2008	1/2/2013	4/4/2011	3.490	107.106	107.106	107.056	105.025	103.132	101.568	100.486	100.016
1/3/2008	1/5/2015	4/4/2011	3.650	114.863	114.838	111.049	107.556	104.692	102.497	100.974	100.164
1/4/2008	1/4/2018	4/4/2011	3.360	122.207	116.905	111.879	107.742	104.557	102.247	100.741	100.081
1/7/2008	1/7/2013	1/7/2011	2.990	106.129	106.129	106.062	104.038	102.225	100.855	100.106	99.979
1/7/2008	1/7/2013	1/7/2011	3.590	107.359	107.359	107.292	105.245	103.328	101.726	100.577	100.048
1/7/2008	1/7/2015	1/7/2011	3.490	114.230	114.196	110.435	107.008	104.227	102.132	100.723	100.081
1/7/2008	1/8/2018	1/7/2011	2.590	116.891	112.333	108.018	104.602	102.162	100.632	100.014	99.972
1/8/2008	1/8/2013	1/10/2011	3.150	106.466	106.466	106.395	104.362	102.514	101.069	100.177	99.975
1/8/2008	1/8/2018	1/10/2011	2.570	116.751	112.216	107.924	104.527	102.110	100.600	100.001	99.959
1/8/2008	1/8/2018	1/10/2011	2.640	117.232	112.620	108.252	104.787	102.295	100.707	100.036	99.961
1/10/2008	1/10/2011	1/10/2011	3.100	100.086	100.086	100.086	100.081	100.054	100.027	100.000	99.973
1/11/2008	1/11/2018	1/11/2011	2.720	117.788	113.083	108.611	105.088	102.512	100.840	100.074	99.959
1/14/2008	1/16/2018	1/14/2011	3.240	121.403	116.189	111.249	107.211	104.126	101.921	100.550	99.992
1/16/2008	1/16/2013	1/18/2011	2.690	105.581	105.581	105.483	103.456	101.710	100.488	99.980	99.932
1/16/2008	1/16/2013	1/18/2011	2.550	105.291	105.291	105.193	103.178	101.478	100.349	99.973	99.925
1/16/2008	1/16/2015	1/18/2011	2.640	110.830	110.752	107.259	104.245	102.014	100.579	99.992	99.929
1/16/2008	1/16/2018	1/18/2011	2.380	115.452	111.134	107.046	103.850	101.634	100.336	99.965	99.916
1/17/2008	1/17/2018	1/18/2011	2.250	114.564	110.405	106.471	103.413	101.335	100.187	99.958	99.910
1/18/2008	1/18/2013	1/18/2011	2.550	105.305	105.305	105.200	103.181	101.478	100.349	99.973	99.925
1/18/2008	1/20/2015	1/18/2011	2.350	109.667	109.568	106.219	103.397	101.397	100.241	99.963	99.915
1/18/2008	1/18/2018	1/18/2011	2.290	114.838	110.628	106.644	103.544	101.423	100.230	99.960	99.912
1/24/2008	1/24/2012	1/24/2011	2.440	102.636	102.636	102.636	102.001	100.958	100.157	99.957	99.893
1/24/2008	1/24/2013	1/24/2011	2.500	105.243	105.243	105.117	103.089	101.396	100.294	99.961	99.897
1/25/2008	1/25/2013	1/26/2009	2.250	104.724	104.724	104.596	102.513	100.471	98.480	96.538	94.644
1/25/2008	1/25/2013	1/25/2011	2.650	105.564	105.564	105.436	103.346	101.295	100.037	99.970	99.903
1/28/2008	1/28/2013	1/28/2011	2.990	106.303	106.303	106.164	104.061	101.995	100.298	99.992	99.917
1/30/2008	1/30/2013	1/31/2011	2.670	105.644	105.644	105.498	103.441	101.681	100.472	99.964	99.881
2/7/2008	2/7/2013	2/7/2011	2.490	105.318	105.318	105.142	103.089	101.393	100.302	99.935	99.826
2/13/2008	2/13/2013	2/14/2011	2.920	106.286	106.286	106.087	103.978	102.132	100.772	100.049	99.842
2/14/2008	2/14/2018	2/14/2012	3.190	120.670	113.362	107.222	103.895	102.070	100.759	99.633	98.564
2/19/2008	2/19/2013	2/19/2010	2.590	105.618	105.618	105.397	103.235	101.115	99.050	97.037	95.076
2/22/2008	2/22/2011	2/23/2009	2.500	100.368	100.368	100.368	100.335	100.187	100.038	99.890	99.742
2/25/2008	2/25/2013	2/25/2011	3.090	106.755	106.755	106.510	104.321	102.172	100.386	99.980	99.817
2/25/2008	2/26/2018	2/25/2011	2.420	115.779	111.368	107.231	103.979	101.714	100.374	99.883	99.713
3/7/2008	3/9/2015	3/7/2011	2.890	112.273	111.942	108.267	105.074	102.642	100.983	100.091	99.763
3/7/2008	3/7/2018	3/7/2013	3.550	123.746	118.203	112.976	108.619	105.091	102.158	99.612	97.319
3/10/2008	3/11/2013	3/10/2011	2.390	105.317	105.317	105.025	102.928	101.247	100.221	99.843	99.642
3/11/2008	3/11/2011	3/11/2011	2.090	100.406	100.406	100.406	100.359	100.163	99.968	99.773	99.579
3/12/2008	3/12/2013	3/14/2011	2.010	104.477	104.477	104.186	102.168	100.691	99.991	99.748	99.546
3/14/2008	3/14/2018	3/14/2011	2.400	115.681	111.285	107.161	103.931	101.689	100.372	99.849	99.625
3/17/2008	3/18/2013	3/17/2011	2.690	106.037	106.037	105.721	103.566	101.752	100.503	99.925	99.672
3/17/2008	3/17/2015	3/17/2011	2.620	111.185	110.796	106.561	102.438	100.372	100.077	99.866	99.656
3/17/2008	3/19/2018	3/18/2013	3.300	122.021	116.662	111.632	107.475	104.119	101.308	98.847	96.602
3/25/2008	3/27/2023	3/25/2013	3.150	122.431	112.769	108.486	105.085	102.469	100.187	98.041	95.975
3/26/2008	3/26/2018	3/26/2012	2.980	119.172	111.800	106.252	103.530	101.799	100.473	99.256	98.083
3/28/2008	3/28/2013	3/28/2011	2.820	106.407	106.407	106.055	103.785	101.589	100.261	99.898	99.657

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
3/28/2008	3/28/2013	3/28/2011	2.800	106.362	106.362	106.009	103.740	101.546	100.244	99.893	99.652
3/28/2008	3/28/2018	3/28/2011	2.770	118.309	113.462	108.911	105.292	102.652	100.911	100.024	99.658
3/28/2008	3/28/2018	3/28/2011	2.020	113.085	109.196	105.514	102.704	100.883	100.014	99.705	99.465
3/31/2008	3/31/2011	3/31/2011	1.990	100.497	100.497	100.497	100.432	100.182	99.934	99.686	99.440
4/14/2008	4/14/2015	4/14/2011	2.750	111.954	111.425	107.095	102.920	100.636	100.143	99.849	99.565
4/28/2008	4/28/2015	4/28/2011	3.250	114.254	113.692	109.774	106.328	103.610	101.636	100.403	99.745
4/28/2008	4/30/2018	1/28/2011	2.150	114.001	109.905	106.065	103.098	101.126	100.115	99.927	99.852
4/30/2008	4/30/2018	4/30/2013	3.740	124.827	117.407	112.018	107.799	104.514	101.799	99.369	97.111
5/2/2008	5/4/2015	5/2/2011	3.990	117.566	116.958	112.818	109.043	105.902	103.430	101.523	100.052
5/5/2008	5/5/2015	5/5/2011	3.170	113.964	113.371	109.480	106.077	103.415	101.509	100.340	99.695
5/8/2008	5/8/2015	2/8/2011	2.960	113.064	112.462	108.651	105.366	102.852	101.115	100.158	99.878
5/19/2008	5/19/2015	5/21/2012	4.700	120.888	120.181	115.639	111.233	107.449	104.182	100.950	97.822
5/19/2008	5/21/2018	5/20/2013	3.890	126.006	118.498	112.957	108.537	105.076	102.224	99.702	97.369
5/23/2008	5/23/2013	5/23/2011	4.040	109.808	109.808	109.257	106.829	104.582	102.675	101.095	99.809
5/23/2008	5/23/2018	5/23/2011	3.270	122.003	116.590	111.537	107.409	104.262	102.005	100.569	99.755
5/27/2008	5/27/2011	5/27/2010	3.220	101.315	101.315	101.315	101.170	100.763	100.360	99.961	99.564
5/27/2008	5/28/2013	5/27/2011	3.490	108.521	108.521	107.953	105.497	103.108	101.184	100.187	99.688
5/29/2008	5/29/2018	5/31/2011	3.460	122.807	115.153	107.765	102.580	101.002	100.474	100.058	99.651
6/6/2008	6/6/2013	6/6/2011	3.990	109.841	109.841	109.241	106.747	104.309	102.131	100.656	99.721
6/10/2008	6/11/2012	6/10/2010	3.940	105.778	105.778	105.778	104.652	103.195	101.733	100.106	98.410
6/16/2008	6/17/2013	6/16/2011	4.070	110.163	110.163	109.523	106.995	104.524	102.307	100.819	100.003
6/24/2008	6/24/2015	6/24/2011	3.830	117.404	116.558	112.330	108.546	105.436	103.025	101.301	100.155
6/30/2008	7/1/2013	3/30/2011	2.920	107.405	107.405	106.722	104.309	102.286	100.828	100.030	99.683
6/30/2008	7/1/2013	3/30/2011	3.450	108.749	108.749	108.061	105.581	103.389	101.657	100.483	99.883
6/30/2008	6/30/2015	3/30/2011	3.370	115.370	114.517	110.420	106.857	104.030	101.940	100.576	99.896
6/30/2008	7/2/2018	6/30/2011	3.690	124.613	116.825	109.300	103.720	101.487	100.681	100.162	99.675
7/1/2008	7/1/2015	7/1/2011	4.600	120.993	120.065	115.381	110.739	106.430	103.172	101.133	99.627
7/7/2008	7/8/2013	7/7/2011	4.590	111.729	111.729	111.002	108.400	105.853	103.461	101.535	99.943
7/8/2008	7/8/2013	7/8/2011	4.250	110.860	110.860	110.134	107.541	105.010	102.729	101.011	99.776
7/10/2008	7/10/2014	7/10/2012	4.800	117.159	117.159	114.357	110.747	107.495	104.593	101.737	98.749
7/11/2008	7/11/2018	7/11/2012	3.750	125.095	117.301	110.836	106.646	103.833	101.825	100.159	98.637
7/14/2008	7/14/2015	7/15/2013	4.900	122.539	121.525	116.892	112.543	108.599	104.692	100.565	96.165
7/14/2008	7/16/2018	1/14/2011	2.500	116.609	111.989	107.690	104.320	101.953	100.504	99.977	99.940
7/14/2008	7/16/2018	7/14/2011	3.250	122.046	116.588	111.508	107.380	104.234	101.984	100.527	99.602
7/17/2008	7/17/2018	7/17/2013	3.750	125.113	117.620	112.376	108.062	104.651	101.741	99.119	96.677
7/21/2008	7/22/2013	1/21/2011	3.000	107.783	107.783	106.992	104.395	101.861	100.087	99.995	99.939
8/15/2008	8/15/2018	8/15/2011	3.830	126.439	120.418	114.812	110.139	106.448	103.645	101.642	100.269
8/19/2008	8/19/2013	8/19/2010	3.440	109.192	109.192	108.264	105.578	102.957	100.415	97.950	95.558
9/8/2008	9/9/2013	3/8/2011	2.890	107.891	107.891	106.884	104.357	102.285	100.824	100.050	99.754
5/13/2009	5/13/2014	5/13/2013	4.000	113.655	113.655	111.292	108.002	104.673	100.750	96.304	92.170
9/28/2009	9/30/2013	9/28/2012	2.920	108.143	108.143	107.038	104.344	101.052	97.822	95.139	92.995
5/11/2010	5/11/2015	5/11/2015	3.700	116.361	115.695	110.762	105.527	100.164	94.547	88.575	82.739
5/24/2010	5/26/2015	5/24/2011	2.250	110.043	109.305	104.869	100.539	96.407	94.875	94.298	93.236
6/15/2010	6/15/2015	6/15/2011	2.280	110.303	109.465	104.965	100.582	98.521	96.402	95.535	95.415