

## **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	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
4/8/1998	4/8/2013	4/9/2012	5.490	105.688	105.688	105.688	105.224	104.189	103.174	102.192	101.294
8/19/1998	8/19/2013	5/21/2012	5.490	107.716	107.716	107.716	107.013	105.598	104.214	102.892	101.708
8/19/1998	8/19/2013	5/21/2012	5.490	107.716	107.716	107.716	107.013	105.598	104.214	102.892	101.708
8/25/1998	8/19/2013	4/25/2012	5.490	107.716	107.716	107.716	107.013	105.598	104.214	102.892	101.705
8/27/1998	8/19/2013	4/27/2012	5.490	107.716	107.716	107.716	107.013	105.598	104.214	102.892	101.708
9/30/1998	9/30/2013	7/2/2012	5.220	107.946	107.946	107.946	107.163	105.631	104.141	102.744	101.535
12/14/1998	12/16/2013	6/14/2012	5.390	109.357	109.357	109.357	108.414	106.659	104.959	103.365	101.972
12/14/1998	12/16/2013	6/14/2012	4.890	108.489	108.489	108.489	107.549	105.804	104.124	102.589	101.313
12/15/1998	12/16/2013	6/15/2012	4.880	108.472	108.472	108.472	107.532	105.787	104.107	102.572	101.298
1/7/2000	1/7/2015	4/9/2012	5.950	116.725	116.725	116.725	114.649	111.768	109.041	106.541	104.356
6/3/2002	6/4/2012	6/4/2012	4.490	100.811	100.811	100.811	100.779	100.601	100.423	100.246	100.069
6/4/2002	6/4/2012	6/4/2012	4.490	100.811	100.811	100.811	100.779	100.601	100.423	100.246	100.069
12/5/2002	12/5/2012	6/6/2012	3.790	102.621	102.621	102.621	102.356	101.674	101.001	100.337	99.682
3/6/2003	3/6/2013	6/6/2012	2.990	102.824	102.824	102.824	102.420	101.493	100.652	100.078	99.804
7/2/2004	7/2/2014	4/3/2012	3.990	109.121	109.121	109.121	107.700	105.404	103.170	100.994	98.875
12/13/2004	12/15/2014	6/13/2012	3.320	109.120	109.120	109.120	107.204	104.622	102.455	100.887	100.042
9/1/2005	9/1/2015	6/1/2012	4.130	114.328	114.328	114.328	111.194	107.698	104.332	101.091	97.969
9/19/2005	9/19/2012	6/19/2012	3.820	101.825	101.825	101.825	101.670	101.199	100.733	100.295	99.965
9/26/2005	9/26/2012	6/26/2012	3.890	101.934	101.934	101.934	101.769	101.278	100.793	100.333	99.979
9/30/2005	9/30/2015	6/30/2012	4.440	115.761	115.761	115.761	112.446	108.849	105.389	102.060	98.857
10/26/2005	10/26/2015	4/26/2012	4.540	116.444	116.444	116.444	112.967	109.292	105.759	102.362	99.094
10/28/2005	10/28/2015	4/30/2012	4.310	115.635	115.635	115.635	112.234	108.800	105.791	103.327	101.477
10/28/2005	10/28/2015	4/30/2012	4.140	115.018	115.018	115.018	111.634	108.235	105.286	102.901	101.167
11/21/2005	11/21/2012	5/21/2012	4.290	102.800	102.800	102.800	102.555	101.910	101.274	100.668	100.177
1/17/2006	1/19/2016	4/17/2012	4.080	115.741	115.741	115.694	111.896	108.361	105.329	102.904	101.167
4/19/2006	4/19/2013	4/19/2012	4.630	104.938	104.938	104.938	104.458	103.394	102.355	101.380	100.571
4/24/2006	4/25/2016	4/24/2012	4.440	118.326	118.326	117.964	113.854	110.040	106.731	104.017	101.963
5/5/2006	5/5/2016	5/7/2012	4.350	118.076	118.076	117.679	113.563	109.762	106.483	103.822	101.832
5/5/2006	5/5/2016	5/7/2012	4.530	118.824	118.824	118.425	114.281	110.431	107.083	104.324	102.220
5/15/2006	5/16/2016	5/15/2012	4.350	118.208	118.208	117.770	113.626	109.799	106.500	103.820	101.814
5/15/2006	5/16/2016	5/15/2012	4.520	118.920	118.920	118.480	114.308	110.435	107.070	104.298	102.183
5/19/2006	5/19/2016	5/21/2012	4.510	118.916	118.916	118.464	114.286	110.409	107.042	104.269	102.154
6/12/2006	6/13/2016	6/12/2012	4.620	119.698	119.698	119.153	114.895	110.943	107.503	104.650	102.452
6/26/2006	6/27/2016	6/26/2012	4.730	120.351	120.351	119.754	115.436	111.424	107.916	104.981	102.687
6/28/2006	6/28/2013	6/28/2012	4.950	106.242	106.242	106.242	105.638	104.373	103.136	101.973	100.974
6/30/2006	7/1/2013	7/2/2012	4.890	106.207	106.207	106.207	105.598	104.325	103.083	101.923	100.942
7/14/2006	7/15/2013	4/16/2012	4.890	106.397	106.397	106.397	105.762	104.450	103.172	101.976	100.966
7/24/2006	7/25/2016	4/24/2012	4.660	120.412	120.412	119.706	115.330	111.283	107.764	104.836	102.570
7/28/2006	7/28/2016	4/30/2012	4.490	119.705	119.705	118.991	114.637	110.632	107.172	104.332	102.171
8/1/2006	8/1/2016	5/1/2012	4.890	121.515	121.515	120.778	116.350	112.237	108.634	105.603	103.195
8/21/2006	8/21/2013	5/1/2012	4.750	106.702	106.702	106.702	105.999	104.585	103.197	101.834	100.495
8/25/2006	8/25/2016	5/25/2012	4.350	119.429	119.429	118.602	114.212	110.201	106.764	103.979	101.891
10/10/2006	10/10/2013	4/10/2012	4.250	106.587	106.587	106.587	105.790	104.244	102.770	101.479	100.517
10/12/2006	10/15/2013	4/12/2012	4.500	107.037	107.037	107.037	106.228	104.665	103.164	101.814	100.749
11/6/2006	11/6/2013	5/7/2012	4.290	106.971	106.971	106.971	106.119	104.498	102.952	101.586	100.534
11/10/2006	11/13/2012	5/10/2012	4.390	102.768	102.768	102.768	102.534	101.911	101.297	100.708	100.220
11/17/2006	11/18/2013	5/17/2012	4.350	107.213	107.213	107.213	106.336	104.680	103.101	101.705	100.643
11/24/2006	11/25/2016	5/24/2012	4.190	119.785	119.785	118.573	114.011	109.902	106.432	103.662	101.629
11/30/2006	12/2/2013	5/28/2012	4.350	107.382	107.382	107.382	106.476	104.776	103.111	101.480	100.066
12/1/2006	12/1/2016	6/1/2012	4.090	119.381	119.381	118.151	113.611	109.541	106.128	103.434	101.497
12/4/2006	12/5/2016	6/4/2012	4.080	119.379	119.379	118.131	113.584	109.511	106.098	103.406	101.475
12/5/2006	12/5/2016	6/5/2012	4.260	120.234	120.234	118.975	114.379	110.237	106.731	103.926	101.859
12/6/2006	12/6/2013	6/6/2012	4.400	107.516	107.516	107.516	106.601	104.894	103.270	101.837	100.738
12/8/2006	12/8/2016	6/8/2012	3.990	118.984	118.984	117.728	113.198	109.156	105.784	103.145	101.282
12/12/2006	12/12/2016	6/12/2012	3.990	119.029	119.029	117.754	113.214	109.164	105.787	103.143	101.275
12/12/2006	12/12/2016	6/12/2012	4.050	119.315	119.315	118.037	113.480	109.405	105.996	103.312	101.395
12/19/2006	12/19/2016	6/19/2012	4.190	120.064	120.064	118.746	114.132	109.989	106.495	103.712	101.673
12/20/2006	12/20/2013	6/20/2012	4.500	107.862	107.862	107.862	106.916	105.168	103.500	102.013	100.843
12/28/2006	12/28/2016	6/28/2012	4.250	120.458	120.458	119.095	114.442	110.257	106.717	103.883	101.787
12/28/2006	12/28/2016	6/28/2012	4.400	121.180	121.180	119.808	115.116	110.876	107.262	104.334	102.133
1/12/2007	1/12/2017	4/12/2012	4.420	121.460	121.460	120.018	115.292	111.028	107.396	104.453	102.242
1/16/2007	1/17/2017	4/16/2012	4.790	123.323	123.323	121.835	117.008	112.606	108.798	105.633	103.146
1/23/2007	1/23/2014	4/23/2012	4.490	108.269	108.269	108.269	107.247	105.406	103.656	102.099	100.882
1/23/2007	1/23/2017	4/23/2012	4.460	121.791	121.791	120.291	115.528	111.227	107.559	104.574	102.317
1/29/2007	1/29/2014	4/29/2012	4.790	108.901	108.901	108.901	107.864	105.994	104.166	102.379	100.631
2/2/2007	2/2/2017	5/2/2012	4.690	123.045	123.045	121.396	116.254	111.278	106.550	102.057	99.572
2/9/2007	2/9/2017	5/9/2012	4.470	122.051	122.051	120.471	115.672	111.345	107.657	104.661	102.396
2/20/2007	2/21/2017	5/21/2012	4.850	124.087	124.087	122.337	117.117	112.067	107.271	102.715	98.387
2/20/2007	2/21/2017	5/21/2012	4.390	121.802	121.802	120.169	115.362	111.040	107.373	104.409	102.185

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
2/23/2007	2/23/2017	5/23/2012	4.250	121.131	121.131	119.497	114.725	110.453	106.851	103.975	101.847
2/23/2007	2/23/2017	5/23/2012	4.350	121.628	121.628	119.987	115.186	110.875	107.223	104.281	102.081
3/16/2007	3/16/2017	6/18/2012	4.090	120.574	120.574	118.853	114.089	109.858	106.325	103.542	101.532
3/21/2007	3/21/2017	6/21/2012	4.220	121.286	121.286	119.528	114.710	110.415	106.803	103.928	101.813
3/23/2007	3/23/2017	6/25/2012	4.290	121.663	121.663	119.889	115.045	110.717	107.064	104.140	101.970
3/23/2007	3/23/2017	6/25/2012	4.290	121.663	121.663	119.889	115.045	110.717	107.064	104.140	101.970
4/2/2007	4/2/2012	4/2/2012	4.590	100.025	100.025	100.025	100.025	100.019	100.014	100.008	100.002
4/9/2007	4/10/2017	4/9/2012	4.150	121.164	121.164	119.316	114.483	110.194	106.607	103.773	101.711
4/12/2007	4/12/2017	4/12/2012	4.250	121.697	121.697	119.829	114.959	110.622	106.976	104.071	101.931
4/13/2007	4/13/2017	4/13/2012	4.450	122.731	122.731	120.838	115.906	111.485	107.735	104.694	102.403
4/23/2007	4/23/2012	4/23/2012	4.650	100.297	100.297	100.297	100.287	100.223	100.159	100.096	100.032
4/23/2007	4/23/2014	4/23/2012	4.620	109.663	109.663	109.663	108.423	106.323	104.341	102.592	101.196
4/27/2007	4/27/2012	4/27/2012	4.550	100.341	100.341	100.341	100.330	100.255	100.180	100.105	100.030
4/27/2007	4/27/2017	4/27/2012	4.250	121.874	121.874	119.926	115.022	110.657	106.988	104.059	101.894
5/2/2007	5/2/2014	5/2/2012	4.590	109.715	109.715	109.715	108.452	106.329	104.334	102.587	101.208
5/4/2007	5/5/2014	5/4/2012	4.550	109.668	109.668	109.668	108.398	106.269	104.271	102.524	101.156
5/18/2007	5/18/2017	5/18/2012	4.190	121.810	121.810	119.756	114.836	110.470	106.817	103.921	101.797
5/22/2007	5/22/2012	5/22/2012	4.690	100.677	100.677	100.677	100.653	100.510	100.368	100.226	100.084
5/22/2007	5/22/2012	5/22/2012	4.690	100.677	100.677	100.677	100.653	100.510	100.368	100.226	100.084
5/22/2007	5/22/2017	5/22/2012	4.750	124.778	124.778	122.647	117.545	112.942	108.994	105.728	103.176
5/25/2007	5/25/2012	5/25/2012	4.650	100.710	100.710	100.710	100.685	100.534	100.383	100.233	100.083
5/29/2007	5/30/2017	5/29/2012	4.250	122.264	122.264	120.137	115.171	110.761	107.059	104.106	101.919
6/1/2007	6/1/2012	6/1/2012	5.230	100.901	100.901	100.901	100.871	100.701	100.532	100.362	100.194
6/1/2007	6/2/2014	6/1/2012	4.500	109.912	109.912	109.912	108.568	106.365	104.307	102.522	101.141
6/7/2007	6/7/2017	6/7/2012	4.820	125.357	125.357	123.133	117.982	113.334	109.341	106.034	103.433
6/8/2007	6/9/2014	6/8/2012	4.730	110.511	110.511	110.511	109.144	106.911	104.810	102.956	101.472
6/8/2007	6/8/2017	6/8/2012	4.490	123.633	123.633	121.436	116.380	111.862	108.029	104.923	102.570
6/11/2007	6/12/2017	6/11/2012	4.490	123.683	123.683	121.463	116.398	111.872	108.035	104.924	102.567
6/18/2007	6/19/2017	6/18/2012	4.500	123.824	123.824	121.563	116.477	111.934	108.080	104.952	102.578
6/18/2007	6/19/2017	6/18/2012	4.840	125.624	125.624	123.329	118.142	113.462	109.440	106.106	103.475
6/19/2007	6/19/2017	6/19/2012	4.650	124.618	124.618	122.341	117.209	112.604	108.674	105.446	102.955
6/20/2007	6/20/2012	6/20/2012	4.890	101.100	101.100	101.100	101.058	100.835	100.612	100.391	100.171
6/22/2007	6/22/2017	6/22/2012	4.500	123.861	123.861	121.584	116.490	111.941	108.081	104.947	102.567
6/26/2007	6/26/2012	6/26/2012	5.130	101.240	101.240	101.240	101.193	100.953	100.714	100.476	100.240
6/28/2007	6/28/2017	6/28/2012	4.500	123.936	123.936	121.626	116.516	111.956	108.086	104.944	102.557
7/13/2007	7/13/2012	4/13/2012	4.690	101.355	101.355	101.355	101.292	101.005	100.721	100.438	100.156
7/13/2007	7/13/2017	4/13/2012	4.900	126.268	126.268	123.831	118.577	113.838	109.762	106.376	103.689
7/13/2007	7/13/2017	4/13/2012	4.290	122.998	122.998	120.633	115.569	111.085	107.323	104.322	102.100
7/18/2007	7/18/2017	4/18/2012	4.780	125.691	125.691	123.236	118.004	113.303	109.278	105.951	103.342
7/19/2007	7/19/2012	4/19/2012	4.890	101.494	101.494	101.494	101.424	101.122	100.821	100.522	100.225
7/20/2007	7/20/2017	4/20/2012	4.290	123.081	123.081	120.675	115.596	111.099	107.327	104.316	102.083
7/23/2007	7/23/2012	4/23/2012	5.050	101.599	101.599	101.599	101.525	101.211	100.900	100.590	100.282
7/27/2007	7/27/2012	4/27/2012	4.590	101.504	101.504	101.504	101.426	101.102	100.780	100.460	100.142
7/27/2007	7/28/2014	4/27/2012	4.350	110.258	110.258	110.258	108.758	106.409	104.238	102.376	100.967
7/27/2007	7/27/2017	4/27/2012	4.250	122.949	122.949	120.507	115.427	110.936	107.177	104.182	101.970
7/30/2007	1/30/2019	4/30/2012	3.990	127.662	127.662	121.850	116.022	111.064	107.040	103.924	101.689
7/31/2007	7/31/2017	4/30/2012	3.990	121.589	121.589	119.168	114.181	109.816	106.206	103.387	101.376
7/31/2007	7/31/2017	4/30/2012	3.990	121.589	121.589	119.168	114.181	109.816	106.206	103.387	101.376
7/31/2007	7/31/2017	4/30/2012	4.060	121.968	121.968	119.535	114.522	110.121	106.467	103.600	101.526
8/2/2007	8/4/2014	5/2/2012	4.490	110.676	110.676	110.676	109.153	106.780	104.582	102.691	101.227
8/2/2007	8/2/2017	5/2/2012	4.150	122.478	122.478	120.022	114.978	110.538	106.845	103.937	101.820
8/2/2007	8/2/2017	5/2/2012	4.050	121.936	121.936	119.496	114.489	110.099	106.468	103.629	101.592
8/6/2007	8/6/2012	5/7/2012	4.490	101.596	101.596	101.596	101.505	101.154	100.805	100.459	100.143
8/9/2007	8/11/2014	5/9/2012	4.860	111.650	111.650	111.650	110.100	107.688	105.426	103.423	101.804
8/9/2007	8/9/2017	5/9/2012	3.990	121.689	121.689	119.217	114.219	109.847	106.243	103.435	101.441
8/13/2007	8/13/2012	5/14/2012	4.590	101.721	101.721	101.721	101.620	101.250	100.882	100.518	100.180
8/16/2007	8/16/2017	5/16/2012	3.990	121.766	121.766	119.253	114.241	109.857	106.242	103.424	101.420
8/17/2007	8/17/2012	5/17/2012	4.350	101.679	101.679	101.679	101.572	101.192	100.814	100.440	100.110
8/17/2007	8/17/2012	5/17/2012	4.150	101.602	101.602	101.602	101.495	101.115	100.737	100.364	100.050
8/17/2007	8/17/2017	5/17/2012	4.000	121.832	121.832	119.311	114.293	109.902	106.280	103.453	101.438
8/20/2007	8/20/2014	8/20/2012	4.250	110.294	110.294	110.294	108.725	106.307	104.059	102.124	100.724
8/24/2007	8/24/2012	5/24/2012	4.050	101.642	101.642	101.642	101.525	101.126	100.730	100.340	100.032
8/28/2007	8/28/2014	5/29/2012	4.350	110.633	110.633	110.633	109.040	106.609	104.370	102.458	101.007
8/30/2007	8/30/2012	5/30/2012	4.390	101.853	101.853	101.853	101.728	101.312	100.899	100.492	100.133
8/30/2007	9/2/2014	5/30/2012	3.890	109.562	109.562	109.562	107.963	105.554	103.388	101.644	100.471
9/4/2007	9/4/2012	6/4/2012	4.220	101.840	101.840	101.840	101.707	101.278	100.852	100.437	100.087
9/4/2007	9/5/2017	6/4/2012	3.890	121.437	121.437	118.833	113.833	109.484	105.924	103.179	101.275
9/7/2007	9/7/2012	6/7/2012	4.090	101.818	101.818	101.818	101.680	101.243	100.809	100.388	100.051
9/10/2007	9/11/2017	6/11/2012	3.690	120.396	120.396	117.799	112.874	108.625	105.191	102.606	100.908

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
9/11/2007	9/11/2017	6/11/2012	3.590	119.843	119.843	117.268	112.389	108.198	104.835	102.341	100.748
9/12/2007	9/12/2014	6/12/2012	3.690	109.173	109.173	109.173	107.548	105.134	103.006	101.353	100.304
9/13/2007	9/15/2014	6/13/2012	3.990	109.952	109.952	109.952	108.311	105.861	103.656	101.859	100.625
9/13/2007	9/13/2017	6/13/2012	3.990	122.076	122.076	119.407	114.348	109.932	106.295	103.464	101.457
9/17/2007	9/17/2012	6/18/2012	4.220	101.993	101.993	101.993	101.840	101.375	100.913	100.464	100.083
9/27/2007	9/29/2014	9/27/2010	4.490	111.374	111.374	111.374	109.676	107.116	104.630	102.216	99.870
9/27/2007	9/27/2017	6/27/2012	3.650	120.337	120.337	117.662	112.718	108.466	105.040	102.469	100.794
9/28/2007	9/28/2012	6/28/2012	3.850	101.936	101.936	101.936	101.767	101.271	100.781	100.319	99.964
10/3/2007	10/3/2012	4/3/2012	3.830	101.979	101.979	101.979	101.803	101.294	100.790	100.325	100.032
10/9/2007	10/9/2012	10/9/2009	4.400	102.347	102.347	102.347	102.162	101.636	101.114	100.599	100.088
10/11/2007	10/14/2014	4/11/2012	4.180	110.763	110.763	110.763	109.025	106.487	104.187	102.270	100.877
10/11/2007	10/11/2017	4/11/2012	3.990	122.387	122.387	119.562	114.453	110.005	106.346	103.500	101.480
10/15/2007	10/16/2017	4/16/2012	3.990	122.442	122.442	119.586	114.468	110.013	106.348	103.497	101.468
10/22/2007	10/22/2012	4/23/2012	3.990	102.272	102.272	102.272	102.070	101.508	100.955	100.429	100.064
10/25/2007	10/27/2014	4/25/2012	4.360	111.384	111.384	111.384	109.600	107.011	104.645	102.637	101.118
10/26/2007	10/26/2017	4/26/2012	3.390	119.161	119.161	116.394	111.539	107.418	104.166	101.830	100.391
10/29/2007	10/29/2012	4/30/2012	3.990	102.350	102.350	102.350	102.137	101.557	100.985	100.441	100.064
11/2/2007	11/3/2014	5/2/2012	3.990	110.495	110.495	110.495	108.698	106.128	103.832	101.971	100.685
11/2/2007	11/3/2014	5/2/2012	4.190	111.021	111.021	111.021	109.219	106.630	104.292	102.345	100.931
11/5/2007	11/5/2014	5/7/2012	3.990	110.517	110.517	110.517	108.713	106.138	103.837	101.971	100.680
11/5/2007	11/6/2017	11/5/2012	4.390	124.948	124.948	121.891	116.581	111.901	107.977	104.826	102.443
11/6/2007	11/6/2017	5/7/2012	3.480	119.776	119.776	116.929	112.022	107.844	104.527	102.116	100.616
11/9/2007	11/10/2014	5/9/2012	4.330	111.474	111.474	111.474	109.644	107.024	104.640	102.630	101.123
11/13/2007	11/13/2012	5/14/2012	3.680	102.320	102.320	102.320	102.087	101.466	100.857	100.310	99.983
11/13/2007	11/13/2014	5/14/2012	3.350	108.905	108.905	108.905	107.094	104.578	102.450	100.895	100.069
11/19/2007	11/19/2014	5/21/2012	4.270	111.422	111.422	111.422	109.562	106.922	104.528	102.518	101.021
11/19/2007	11/19/2014	5/21/2012	3.750	110.031	110.031	110.031	108.186	105.599	103.324	101.548	100.399
11/19/2007	11/19/2014	5/21/2012	3.750	110.031	110.031	110.031	108.186	105.599	103.324	101.548	100.399
11/19/2007	11/20/2017	11/19/2012	4.290	124.547	124.547	121.047	115.090	109.520	104.936	102.115	100.511
11/20/2007	11/20/2017	5/21/2012	3.740	121.400	121.400	118.396	113.335	108.979	105.452	102.775	100.979
11/23/2007	11/24/2017	5/23/2012	3.990	122.874	122.874	119.354	113.426	107.767	102.434	97.405	92.662
11/23/2007	11/24/2017	5/23/2012	3.990	122.874	122.874	119.354	113.426	107.767	102.434	97.405	92.662
11/29/2007	11/29/2017	5/29/2012	2.950	116.953	116.953	114.151	109.513	105.671	102.777	100.868	99.976
11/30/2007	11/30/2017	5/30/2012	3.190	118.341	118.341	115.446	110.663	106.650	103.544	101.369	100.152
12/7/2007	12/7/2012	6/7/2012	3.450	102.405	102.405	102.405	102.137	101.451	100.786	100.238	99.903
12/10/2007	12/11/2017	6/11/2012	3.450	119.941	119.941	116.906	111.966	107.773	104.453	102.052	100.564
12/11/2007	12/11/2012	6/11/2012	3.760	102.663	102.663	102.663	102.389	101.691	101.009	100.399	99.995
12/20/2007	12/20/2012	12/21/2009	3.750	102.750	102.750	102.750	102.462	101.740	101.028	100.326	99.634
12/20/2007	12/20/2012	6/20/2012	3.600	102.640	102.640	102.640	102.353	101.631	100.927	100.323	99.926
12/24/2007	12/26/2017	12/24/2012	3.990	123.229	123.229	119.471	113.463	108.001	103.966	101.476	100.078
12/26/2007	12/26/2012	6/26/2012	3.960	102.970	102.970	102.970	102.673	101.934	101.210	100.539	100.049
12/26/2007	12/26/2012	6/26/2012	3.460	102.595	102.595	102.595	102.299	101.562	100.846	100.250	99.864
1/2/2008	1/2/2013	7/2/2012	3.490	102.685	102.685	102.685	102.379	101.623	100.892	100.288	99.996
1/3/2008	1/5/2015	4/3/2012	3.650	110.240	110.240	110.240	108.237	105.558	103.242	101.475	100.343
1/4/2008	1/4/2018	4/4/2012	3.360	119.645	119.645	116.518	111.592	107.438	104.180	101.859	100.437
1/7/2008	1/7/2013	4/9/2012	2.990	102.342	102.342	102.342	102.029	101.262	100.549	100.074	99.971
1/7/2008	1/7/2013	4/9/2012	3.590	102.812	102.812	102.812	102.498	101.728	100.981	100.347	100.007
1/7/2008	1/7/2015	4/9/2012	3.490	109.810	109.810	109.810	107.807	105.147	102.882	101.191	100.221
1/7/2008	1/8/2018	4/9/2012	2.590	115.172	115.172	112.353	107.923	104.359	101.829	100.351	99.961
1/8/2008	1/8/2013	4/9/2012	3.150	102.476	102.476	102.476	102.161	101.391	100.664	100.118	99.975
1/8/2008	1/8/2018	4/9/2012	2.570	115.054	115.054	112.246	107.831	104.285	101.777	100.331	99.961
1/8/2008	1/8/2018	4/9/2012	2.640	115.464	115.464	112.619	108.151	104.544	101.956	100.425	99.962
1/11/2008	1/11/2018	4/11/2012	2.720	115.956	115.956	113.055	108.524	104.844	102.166	100.545	99.956
1/14/2008	1/16/2018	4/16/2012	3.240	119.051	119.051	115.894	111.020	106.936	103.768	101.544	100.291
1/16/2008	1/16/2013	4/16/2012	2.550	102.061	102.061	102.061	101.735	100.949	100.276	99.973	99.929
1/16/2008	1/16/2018	4/16/2012	2.380	113.994	113.994	111.248	106.974	103.592	101.296	100.153	99.921
1/17/2008	1/17/2018	4/17/2012	2.250	113.236	113.236	110.566	106.402	103.144	100.998	100.065	99.910
1/18/2008	1/18/2013	4/18/2012	2.550	102.075	102.075	102.075	101.746	100.955	100.277	99.970	99.920
1/18/2008	1/20/2015	4/18/2012	2.350	106.690	106.690	106.690	104.724	102.343	100.688	100.000	99.910
1/18/2008	1/18/2018	4/18/2012	2.290	113.478	113.478	110.778	106.577	103.278	101.083	100.088	99.907
1/24/2008	1/24/2013	4/24/2012	2.500	102.076	102.076	102.076	101.738	100.932	100.248	99.957	99.890
1/25/2008	1/25/2013	1/26/2009	2.250	101.875	101.875	101.875	101.535	100.722	99.921	99.133	98.358
1/25/2008	1/25/2013	1/25/2011	2.650	102.208	102.208	102.208	101.868	101.053	100.251	99.462	98.685
1/28/2008	1/28/2013	1/28/2011	2.990	102.516	102.516	102.516	102.171	101.347	100.536	99.738	98.952
1/30/2008	1/30/2013	4/30/2012	2.670	102.262	102.262	102.262	101.914	101.089	100.360	99.968	99.877
2/7/2008	2/7/2013	5/7/2012	2.490	102.165	102.165	102.165	101.805	100.964	100.261	99.942	99.832
2/13/2008	2/13/2013	5/14/2012	2.920	102.587	102.587	102.587	102.217	101.349	100.557	100.043	99.857
2/14/2008	2/14/2018	5/14/2012	3.190	119.014	119.014	114.908	108.868	103.138	97.750	92.683	87.916
2/19/2008	2/19/2013	2/19/2010	2.590	102.338	102.338	102.338	101.959	101.072	100.201	99.345	98.503

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
2/25/2008	2/25/2013	5/25/2012	3.090	102.841	102.841	102.841	102.452	101.545	100.654	99.780	98.920
2/25/2008	2/26/2018	5/25/2012	2.420	114.505	114.505	111.537	107.198	103.750	101.383	100.123	99.755
3/7/2008	3/9/2015	6/7/2012	2.890	108.613	108.613	108.613	106.430	103.778	101.703	100.417	99.839
3/7/2008	3/7/2018	3/7/2013	3.550	121.367	121.367	117.816	112.704	108.365	104.904	102.294	100.373
3/10/2008	3/11/2013	6/11/2012	2.390	102.290	102.290	102.290	101.879	100.955	100.229	99.865	99.658
3/12/2008	3/12/2013	6/12/2012	2.010	101.932	101.932	101.932	101.520	100.621	100.034	99.774	99.576
3/14/2008	3/14/2018	6/14/2012	2.400	114.492	114.492	111.472	107.137	103.707	101.368	100.119	99.675
3/17/2008	3/18/2013	6/18/2012	2.690	102.630	102.630	102.630	102.207	101.254	100.430	99.950	99.689
3/17/2008	3/17/2015	6/17/2012	2.620	107.867	107.867	107.867	105.601	102.640	99.777	97.010	94.334
3/17/2008	3/19/2018	3/18/2013	3.300	119.973	119.973	116.449	111.462	107.279	104.009	101.578	99.812
3/28/2008	3/28/2013	6/28/2012	2.820	102.835	102.835	102.835	102.396	101.407	100.438	99.486	98.553
3/28/2008	3/28/2013	6/28/2012	2.800	102.815	102.815	102.815	102.376	101.387	100.418	99.467	98.534
3/28/2008	3/28/2018	6/28/2012	2.770	116.834	116.834	113.523	108.870	105.089	102.314	100.607	99.798
3/28/2008	3/28/2018	6/28/2012	2.020	112.276	112.276	109.474	105.465	102.418	100.567	99.791	99.483
4/14/2008	4/14/2015	4/14/2012	2.750	108.471	108.471	108.471	106.086	103.044	100.105	97.266	94.522
4/28/2008	4/28/2015	4/30/2012	3.250	110.137	110.137	110.137	107.731	104.879	102.539	100.870	100.067
4/28/2008	4/30/2018	4/30/2012	2.150	113.263	113.263	110.209	106.057	102.854	100.795	99.971	99.834
4/30/2008	4/30/2018	4/30/2013	3.740	123.072	123.072	118.358	112.154	107.019	103.429	101.188	99.636
5/2/2008	5/4/2015	5/2/2012	3.990	112.512	112.512	112.512	110.034	107.030	104.409	102.307	100.850
5/5/2008	5/5/2015	5/7/2012	3.170	109.949	109.949	109.949	107.524	104.688	102.395	100.806	100.041
5/8/2008	5/8/2015	5/8/2012	2.960	109.315	109.315	109.315	106.897	104.116	101.927	100.529	99.945
5/19/2008	5/19/2015	5/21/2012	4.700	114.935	114.935	114.935	112.335	109.101	105.980	103.001	100.742
5/23/2008	5/23/2013	5/23/2012	4.040	104.691	104.691	104.691	104.153	102.997	101.882	100.899	100.204
5/23/2008	5/23/2018	5/23/2012	3.270	120.381	120.381	116.499	111.452	107.236	103.964	101.653	100.307
5/27/2008	5/28/2013	5/27/2011	3.490	104.100	104.100	104.100	103.555	102.389	101.241	100.112	99.000
6/6/2008	6/6/2013	6/6/2012	3.990	104.788	104.788	104.788	104.225	103.030	101.854	100.697	99.558
6/10/2008	6/11/2012	6/10/2010	3.940	100.788	100.788	100.788	100.752	100.554	100.357	100.161	99.965
6/16/2008	6/17/2013	6/16/2012	4.070	105.008	105.008	105.008	104.426	103.199	101.992	100.805	99.637
6/24/2008	6/24/2015	6/25/2012	3.830	112.553	112.553	112.553	109.850	106.762	104.100	102.019	100.631
6/30/2008	7/1/2013	7/2/2012	2.920	103.706	103.706	103.706	103.104	101.862	100.787	100.081	99.710
6/30/2008	7/1/2013	7/2/2012	3.450	104.379	104.379	104.379	103.775	102.519	101.354	100.458	99.918
6/30/2008	6/30/2015	7/2/2012	3.370	111.101	111.101	111.101	108.409	105.412	102.945	101.166	100.125
6/30/2008	7/2/2018	6/30/2012	3.690	123.409	123.409	118.185	111.689	105.543	99.783	94.383	89.320
7/1/2008	7/1/2015	4/1/2012	4.600	115.166	115.166	115.166	112.356	109.004	105.772	102.655	99.647
7/7/2008	7/8/2013	4/7/2012	4.590	105.916	105.916	105.916	105.294	104.004	102.735	101.488	100.262
7/8/2008	7/8/2013	4/8/2012	4.250	105.477	105.477	105.477	104.857	103.570	102.304	101.060	99.836
7/10/2008	7/10/2014	7/10/2012	4.800	111.079	111.079	111.079	109.624	107.285	105.009	102.862	101.025
7/11/2008	7/11/2018	7/11/2012	3.750	123.884	123.884	118.581	112.051	106.045	101.829	100.394	99.910
7/14/2008	7/14/2015	7/15/2013	4.900	116.332	116.332	116.332	113.442	110.038	106.737	103.516	100.245
7/14/2008	7/16/2018	4/16/2012	2.500	115.957	115.957	112.283	107.756	104.167	101.666	100.274	99.927
7/14/2008	7/16/2018	4/16/2012	3.250	120.744	120.744	116.575	111.476	107.241	103.963	101.660	100.331
7/17/2008	7/17/2018	7/17/2013	3.750	123.946	123.946	118.594	112.313	107.270	103.738	101.334	99.565
7/21/2008	7/22/2013	4/23/2012	3.000	103.983	103.983	103.983	103.342	102.028	100.736	99.990	99.927
8/15/2008	8/15/2018	5/15/2012	3.830	124.766	124.766	120.120	114.626	109.947	106.169	103.280	101.282
8/19/2008	8/19/2013	8/19/2010	3.440	104.835	104.835	104.835	104.141	102.746	101.376	100.031	98.710
9/8/2008	9/9/2013	6/8/2012	2.890	104.230	104.230	104.230	103.500	102.080	100.870	100.107	99.784
5/13/2009	5/13/2014	5/13/2013	4.000	108.588	108.588	108.588	107.289	104.977	102.365	99.569	97.142
9/28/2009	9/30/2013	9/28/2012	2.920	104.445	104.445	104.445	103.629	101.836	100.155	98.936	98.191
5/11/2010	5/11/2015	5/11/2015	3.700	111.675	111.675	111.675	109.064	105.540	101.521	96.804	91.914
5/24/2010	5/26/2015	5/24/2012	2.250	107.193	107.193	107.193	104.636	101.506	98.684	98.486	95.571
6/15/2010	6/15/2015	6/15/2012	2.280	107.415	107.415	107.415	104.762	101.576	99.109	98.505	95.542