

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									
2/27/1997	2/27/2012	2/28/2012	6.580	101.627	101.627	101.627	101.595	101.349	101.104	100.860	100.617
4/8/1998	4/8/2013	1/9/2012	5.490	107.548	107.548	107.548	106.805	105.428	104.117	102.928	101.903
8/19/1998	8/19/2013	2/21/2012	5.490	109.577	109.577	109.577	108.386	106.651	105.034	103.595	102.371
8/19/1998	8/19/2013	2/21/2012	5.490	109.577	109.577	109.577	108.386	106.651	105.034	103.595	102.371
8/25/1998	8/19/2013	1/25/2012	5.490	109.577	109.577	109.577	108.386	106.651	105.032	103.590	102.361
8/27/1998	8/19/2013	1/27/2012	5.490	109.577	109.577	109.577	108.386	106.651	105.034	103.595	102.371
9/30/1998	9/30/2013	12/30/2011	5.220	109.715	109.715	109.715	108.380	106.546	104.865	103.393	102.165
12/14/1998	12/16/2013	12/14/2011	5.390	111.184	111.184	111.184	109.588	107.543	105.675	104.044	102.679
12/14/1998	12/16/2013	12/14/2011	4.890	110.146	110.146	110.146	108.558	106.540	104.732	103.189	101.940
12/15/1998	12/16/2013	12/15/2011	4.880	110.125	110.125	110.125	108.537	106.519	104.712	103.168	101.921
1/7/2000	1/7/2015	1/9/2012	5.950	118.742	118.742	118.742	115.739	112.650	109.879	107.473	105.452
6/3/2002	6/4/2012	12/3/2011	4.490	102.332	102.332	102.332	102.193	101.679	101.171	100.667	100.168
6/4/2002	6/4/2012	12/6/2011	4.490	102.332	102.332	102.332	102.193	101.679	101.171	100.667	100.168
12/5/2002	12/5/2012	12/6/2011	3.790	103.906	103.906	103.906	103.489	102.472	101.473	100.494	99.532
3/6/2003	3/6/2013	12/6/2011	2.990	103.837	103.837	103.837	103.201	101.976	100.966	100.262	99.993
7/2/2004	7/2/2014	1/3/2012	3.990	110.473	110.473	110.473	108.253	105.626	103.077	100.603	98.201
12/13/2004	12/15/2014	12/13/2011	3.320	110.245	110.245	110.245	107.506	104.904	102.872	101.405	100.445
9/1/2005	9/1/2015	12/1/2011	4.130	115.727	115.727	115.383	111.464	107.647	103.983	100.467	97.091
9/19/2005	9/19/2012	12/19/2011	3.820	103.119	103.119	103.119	102.836	102.031	101.259	100.595	100.155
9/26/2005	9/26/2012	12/27/2011	3.890	103.252	103.252	103.252	102.958	102.133	101.341	100.649	100.180
9/30/2005	9/30/2015	12/30/2011	4.440	117.266	117.266	116.826	112.801	108.880	105.120	101.514	98.053
10/26/2005	10/26/2015	1/26/2012	4.540	117.982	117.982	117.451	113.343	109.344	105.511	101.838	98.315
10/28/2005	10/28/2015	1/30/2012	4.310	117.095	117.095	116.589	112.731	109.333	106.495	104.220	102.493
10/28/2005	10/28/2015	1/30/2012	4.140	116.421	116.421	115.917	112.086	108.734	105.962	103.768	102.106
11/21/2005	11/21/2012	2/21/2012	4.290	104.254	104.254	104.254	103.864	102.885	101.951	101.127	100.486
1/17/2006	1/19/2016	1/17/2012	4.080	117.124	117.124	116.336	112.354	108.904	106.070	103.840	102.168
4/19/2006	4/19/2013	1/19/2012	4.630	106.507	106.507	106.507	105.733	104.341	103.046	101.919	101.004
4/24/2006	4/25/2016	1/24/2012	4.440	119.831	119.831	118.648	114.401	110.692	107.607	105.117	103.176
5/5/2006	5/5/2016	2/6/2012	4.350	119.550	119.550	118.334	114.094	110.414	107.370	104.932	103.058
5/5/2006	5/5/2016	2/6/2012	4.530	120.359	120.359	119.134	114.855	111.115	108.006	105.485	103.497
5/15/2006	5/16/2016	2/15/2012	4.350	119.683	119.683	118.417	114.152	110.449	107.383	104.925	103.034
5/15/2006	5/16/2016	2/15/2012	4.520	120.452	120.452	119.177	114.875	111.115	107.987	105.450	103.453
5/19/2006	5/19/2016	2/21/2012	4.510	120.444	120.444	119.156	114.850	111.086	107.954	105.415	103.416
6/12/2006	6/13/2016	12/12/2011	4.620	121.264	121.264	119.859	115.486	111.654	108.460	105.854	103.773
6/26/2006	6/27/2016	12/27/2011	4.730	121.954	121.954	120.477	116.048	112.147	108.883	106.197	104.022
6/28/2006	6/28/2013	12/28/2011	4.950	107.920	107.920	107.920	106.914	105.329	103.862	102.570	101.508
6/30/2006	7/1/2013	12/30/2011	4.890	107.864	107.864	107.864	106.849	105.261	103.798	102.523	101.473
7/14/2006	7/15/2013	1/17/2012	4.890	108.054	108.054	108.054	106.990	105.366	103.873	102.574	101.511
7/24/2006	7/25/2016	1/24/2012	4.660	121.991	121.991	120.390	115.923	112.008	108.740	106.065	103.912
7/28/2006	7/28/2016	1/30/2012	4.490	121.226	121.226	119.623	115.187	111.326	108.116	105.514	103.463
8/1/2006	8/1/2016	2/1/2012	4.890	123.172	123.172	121.529	117.008	113.025	109.674	106.906	104.650
8/21/2006	8/21/2013	2/1/2012	4.750	108.312	108.312	108.312	107.119	105.363	103.644	101.962	100.315
8/25/2006	8/25/2016	2/27/2012	4.350	120.903	120.903	119.180	114.732	110.883	107.701	105.146	103.170
10/10/2006	10/10/2013	1/10/2012	4.250	108.027	108.027	108.027	106.671	104.866	103.274	101.973	100.968
10/12/2006	10/15/2013	1/12/2012	4.500	108.562	108.562	108.562	107.185	105.350	103.716	102.341	101.266
11/6/2006	11/6/2013	2/6/2012	4.290	108.425	108.425	108.425	106.977	105.099	103.435	102.048	100.953
11/10/2006	11/13/2012	2/10/2012	4.390	104.256	104.256	104.256	103.880	102.922	102.007	101.195	100.556
11/17/2006	11/18/2013	2/17/2012	4.350	108.687	108.687	108.687	107.199	105.289	103.607	102.217	101.139
11/24/2006	11/25/2016	2/24/2012	4.190	121.205	121.205	119.066	114.505	110.603	107.398	104.851	102.918
11/30/2006	12/2/2013	2/28/2012	4.350	108.857	108.857	108.857	107.314	105.276	103.287	101.346	99.451
12/1/2006	12/1/2016	3/1/2012	4.090	120.767	120.767	118.620	114.093	110.243	107.101	104.628	102.780
12/4/2006	12/5/2016	3/5/2012	4.080	120.761	120.761	118.595	114.063	110.211	107.069	104.596	102.749
12/5/2006	12/5/2016	3/5/2012	4.260	121.677	121.677	119.488	114.900	110.972	107.749	105.181	103.211
12/6/2006	12/6/2013	12/6/2011	4.400	109.007	109.007	109.007	107.460	105.506	103.789	102.368	101.269
12/8/2006	12/8/2016	12/8/2011	3.990	120.337	120.337	118.166	113.657	109.835	106.725	104.291	102.497
12/12/2006	12/12/2016	12/12/2011	3.990	120.381	120.381	118.190	113.673	109.843	106.726	104.286	102.485
12/12/2006	12/12/2016	12/12/2011	4.050	120.687	120.687	118.487	113.951	110.096	106.953	104.481	102.640
12/19/2006	12/19/2011	12/19/2011	4.490	100.237	100.237	100.237	100.231	100.180	100.129	100.078	100.027
12/19/2006	12/19/2016	12/19/2011	4.190	121.484	121.484	119.229	114.634	110.707	107.486	104.928	102.982
12/20/2006	12/20/2013	12/20/2011	4.500	109.387	109.387	109.387	107.792	105.791	104.025	102.549	101.389
12/21/2006	12/21/2011	12/21/2011	4.530	100.264	100.264	100.264	100.258	100.201	100.145	100.088	100.032
12/27/2006	12/27/2013	12/27/2011	4.500	109.474	109.474	109.474	107.856	105.836	104.052	102.561	101.385
12/28/2006	12/28/2016	12/28/2011	4.250	121.898	121.898	119.589	114.956	110.985	107.718	105.111	103.110
12/28/2006	12/28/2016	12/28/2011	4.400	122.671	122.671	120.343	115.664	111.631	108.299	105.613	103.509
1/8/2007	1/9/2012	1/9/2012	4.750	100.528	100.528	100.528	100.516	100.408	100.300	100.193	100.085
1/12/2007	1/12/2017	1/12/2012	4.420	122.958	122.958	120.558	115.857	111.808	108.469	105.779	103.661
1/16/2007	1/17/2017	1/17/2012	4.790	124.946	124.946	122.473	117.656	113.453	109.935	107.040	104.686
1/23/2007	1/23/2014	1/23/2012	4.490	109.790	109.790	109.790	108.087	106.001	104.172	102.646	101.449
1/23/2007	1/23/2017	1/23/2012	4.460	123.302	123.302	120.838	116.100	112.013	108.636	105.904	103.742

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
1/29/2007	1/29/2014	1/29/2012	4.790	110.524	110.524	110.524	108.789	106.579	104.425	102.326	100.280
2/2/2007	2/2/2017	2/2/2012	4.690	124.634	124.634	121.702	116.192	110.917	105.922	101.189	99.398
2/9/2007	2/9/2012	2/9/2012	4.750	100.937	100.937	100.937	100.913	100.720	100.527	100.335	100.144
2/9/2007	2/9/2017	2/9/2012	4.470	123.565	123.565	121.022	116.258	112.153	108.767	106.030	103.861
2/12/2007	2/13/2012	2/13/2012	4.880	101.017	101.017	101.017	100.991	100.786	100.582	100.379	100.176
2/15/2007	2/15/2012	2/15/2012	4.990	101.067	101.067	101.067	101.041	100.830	100.620	100.411	100.203
2/20/2007	2/21/2017	2/21/2012	4.850	125.730	125.730	122.676	117.086	111.739	106.871	103.253	101.234
2/20/2007	2/21/2017	2/21/2012	4.390	123.290	123.290	120.694	115.927	111.833	108.461	105.745	103.616
2/23/2007	2/23/2017	2/23/2012	4.250	122.571	122.571	119.986	115.258	111.220	107.905	105.259	103.226
2/23/2007	2/23/2017	2/23/2012	4.350	123.102	123.102	120.502	115.741	111.659	108.299	105.600	103.496
3/2/2007	3/2/2012	12/2/2011	4.490	101.160	101.160	101.160	101.125	100.869	100.614	100.360	100.109
3/16/2007	3/16/2017	12/16/2011	4.090	121.960	121.960	119.299	114.599	110.612	107.358	104.792	102.861
3/20/2007	3/20/2012	12/30/2011	4.550	101.403	101.403	101.403	101.354	101.048	100.745	100.443	100.144
3/21/2007	3/21/2017	12/21/2011	4.220	122.716	122.716	120.005	115.249	111.195	107.872	105.224	103.195
3/23/2007	3/23/2017	12/23/2011	4.290	123.117	123.117	120.383	115.600	111.511	108.150	105.460	103.377
3/23/2007	3/23/2017	12/23/2011	4.290	123.117	123.117	120.383	115.600	111.511	108.150	105.460	103.377
3/30/2007	3/30/2012	12/30/2011	4.670	101.570	101.570	101.570	101.512	101.180	100.849	100.521	100.195
4/2/2007	4/2/2012	1/3/2012	4.590	101.581	101.581	101.581	101.520	101.180	100.841	100.506	100.209
4/9/2007	4/10/2017	1/9/2012	4.150	122.570	122.570	119.775	115.020	110.983	107.689	105.081	103.097
4/12/2007	4/12/2017	1/12/2012	4.250	123.137	123.137	120.314	115.518	111.431	108.083	105.412	103.353
4/13/2007	4/13/2017	1/13/2012	4.450	124.239	124.239	121.375	116.509	112.329	108.885	106.102	103.897
4/23/2007	4/23/2012	1/23/2012	4.650	101.873	101.873	101.873	101.787	101.388	100.991	100.598	100.208
4/23/2007	4/23/2014	1/23/2012	4.620	111.229	111.229	111.229	109.239	106.911	104.882	103.188	101.849
4/27/2007	4/27/2012	1/27/2012	4.550	101.883	101.883	101.883	101.793	101.382	100.975	100.575	100.234
4/27/2007	4/27/2017	1/27/2012	4.250	123.314	123.314	120.409	115.580	111.463	108.086	105.388	103.306
5/2/2007	5/2/2014	2/2/2012	4.590	111.270	111.270	111.270	109.254	106.915	104.887	103.207	101.893
5/4/2007	5/5/2014	2/6/2012	4.550	111.210	111.210	111.210	109.185	106.842	104.815	103.140	101.831
5/18/2007	5/18/2017	2/21/2012	4.190	123.230	123.230	120.233	115.396	111.288	107.929	105.260	103.217
5/22/2007	5/22/2012	2/22/2012	4.690	102.267	102.267	102.267	102.144	101.666	101.192	100.733	100.331
5/22/2007	5/22/2012	2/22/2012	4.690	102.267	102.267	102.267	102.144	101.666	101.192	100.733	100.331
5/22/2007	5/22/2017	5/22/2012	4.750	126.387	126.387	123.263	118.229	113.866	110.223	107.231	104.800
5/25/2007	5/25/2012	2/27/2012	4.650	102.286	102.286	102.286	102.160	101.673	101.191	100.726	100.317
5/29/2007	5/30/2017	2/29/2012	4.250	123.704	123.704	120.628	115.750	111.595	108.188	105.465	103.361
6/1/2007	6/1/2012	12/1/2011	5.230	102.673	102.673	102.673	102.538	102.031	101.529	101.033	100.541
6/1/2007	6/2/2014	3/1/2012	4.500	111.437	111.437	111.437	109.324	106.919	104.850	103.151	101.828
6/7/2007	6/7/2017	12/7/2011	4.820	126.990	126.990	123.774	118.700	114.299	110.616	107.587	105.124
6/8/2007	6/9/2014	12/8/2011	4.730	112.113	112.113	112.113	109.969	107.523	105.382	103.605	102.201
6/8/2007	6/8/2017	12/8/2011	4.490	125.155	125.155	121.993	117.026	112.760	109.245	106.400	104.131
6/11/2007	6/12/2017	12/12/2011	4.490	125.205	125.205	122.019	117.044	112.772	109.252	106.401	104.127
6/15/2007	6/16/2014	12/15/2011	5.550	114.321	114.321	114.321	112.122	109.488	106.931	104.449	102.038
6/18/2007	6/19/2017	12/19/2011	4.500	125.348	125.348	122.120	117.126	112.835	109.296	106.426	104.134
6/18/2007	6/19/2017	12/19/2011	4.840	127.264	127.264	123.972	118.865	114.431	110.715	107.653	105.158
6/19/2007	6/19/2017	12/19/2011	4.650	126.193	126.193	122.936	117.889	113.531	109.916	106.958	104.569
6/20/2007	6/20/2012	12/20/2011	4.890	102.757	102.757	102.757	102.598	102.039	101.486	100.956	100.478
6/22/2007	6/22/2017	12/22/2011	4.500	125.386	125.386	122.140	117.138	112.840	109.293	106.415	104.117
6/26/2007	6/26/2012	12/27/2011	5.130	102.978	102.978	102.978	102.811	102.235	101.665	101.113	100.607
6/28/2007	6/28/2017	12/28/2011	4.500	125.461	125.461	122.180	117.165	112.854	109.296	106.408	104.102
7/13/2007	7/13/2012	1/13/2012	4.690	102.944	102.944	102.944	102.756	102.133	101.521	100.942	100.449
7/13/2007	7/13/2017	1/13/2012	4.900	127.928	127.928	124.496	119.330	114.845	111.073	107.961	105.438
7/13/2007	7/13/2017	1/13/2012	4.290	124.451	124.451	121.143	116.187	111.971	108.517	105.755	103.604
7/18/2007	7/18/2017	1/18/2012	4.780	127.311	127.311	123.871	118.732	114.285	110.568	107.516	105.031
7/19/2007	7/19/2012	1/19/2012	4.890	103.151	103.151	103.151	102.955	102.315	101.686	101.086	100.554
7/20/2007	7/20/2017	1/20/2012	4.290	124.535	124.535	121.185	116.215	111.985	108.518	105.742	103.582
7/23/2007	7/23/2012	1/23/2012	5.050	103.310	103.310	103.310	103.109	102.458	101.817	101.202	100.645
7/27/2007	7/27/2012	1/27/2012	4.590	103.060	103.060	103.060	102.853	102.193	101.544	100.934	100.428
7/27/2007	7/28/2014	1/27/2012	4.350	111.732	111.732	111.732	109.436	106.904	104.749	102.991	101.628
7/27/2007	7/27/2017	1/27/2012	4.250	124.389	124.389	121.008	116.038	111.814	108.353	105.588	103.447
7/30/2007	1/30/2019	1/30/2012	3.990	129.014	128.265	122.623	117.016	112.360	108.602	105.643	103.394
7/31/2007	7/31/2017	1/31/2012	3.990	122.941	122.941	119.612	114.741	110.639	107.303	104.681	102.723
7/31/2007	7/31/2017	1/31/2012	3.990	122.941	122.941	119.612	114.741	110.639	107.303	104.681	102.723
7/31/2007	7/31/2017	1/31/2012	4.060	123.343	123.343	119.996	115.097	110.961	107.589	104.927	102.920
8/2/2007	8/4/2014	2/2/2012	4.490	112.197	112.197	112.197	109.873	107.322	105.135	103.347	101.964
8/2/2007	8/2/2017	2/2/2012	4.150	123.884	123.884	120.509	115.583	111.421	108.033	105.351	103.306
8/2/2007	8/2/2017	2/2/2012	4.050	123.308	123.308	119.959	115.072	110.959	107.622	104.999	103.029
8/6/2007	8/6/2012	2/6/2012	4.490	103.118	103.118	103.118	102.897	102.210	101.539	100.920	100.421
8/9/2007	8/11/2014	2/9/2012	4.860	113.297	113.297	113.297	110.933	108.321	106.034	104.127	102.614
8/9/2007	8/9/2017	2/9/2012	3.990	123.041	123.041	119.666	114.789	110.693	107.373	104.771	102.836
8/13/2007	8/13/2012	2/13/2012	4.590	103.277	103.277	103.277	103.046	102.340	101.649	101.008	100.477
8/16/2007	8/16/2017	2/16/2012	3.990	123.118	123.118	119.703	114.812	110.702	107.368	104.753	102.807

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
8/17/2007	8/17/2012	2/17/2012	4.350	103.154	103.154	103.154	102.918	102.201	101.503	100.863	100.354
8/17/2007	8/17/2012	2/17/2012	4.150	103.009	103.009	103.009	102.773	102.057	101.361	100.730	100.247
8/17/2007	8/17/2017	2/17/2012	4.000	123.187	123.187	119.764	114.867	110.750	107.408	104.786	102.831
8/20/2007	8/20/2014	8/20/2012	4.250	111.734	111.734	111.734	109.351	106.732	104.471	102.648	101.227
8/24/2007	8/24/2012	2/24/2012	4.050	103.015	103.015	103.015	102.770	102.035	101.322	100.679	100.191
8/28/2007	8/28/2014	2/28/2012	4.350	112.107	112.107	112.107	109.702	107.100	104.889	103.089	101.699
8/30/2007	8/30/2012	2/29/2012	4.390	103.341	103.341	103.341	103.087	102.336	101.602	100.928	100.381
8/30/2007	9/2/2014	2/29/2012	3.890	110.880	110.880	110.880	108.479	105.944	103.845	102.212	101.011
8/31/2007	8/31/2012	2/29/2012	4.370	103.338	103.338	103.338	103.083	102.328	101.593	100.917	100.371
9/4/2007	9/4/2012	3/5/2012	4.220	103.270	103.270	103.270	103.009	102.244	101.504	100.841	100.316
9/4/2007	9/5/2017	3/5/2012	3.890	122.755	122.755	119.268	114.401	110.332	107.051	104.499	102.623
9/7/2007	9/7/2012	12/7/2011	4.090	103.204	103.204	103.204	102.938	102.165	101.420	100.757	100.245
9/10/2007	9/11/2017	12/12/2011	3.690	121.646	121.646	118.186	113.393	109.417	106.261	103.836	102.048
9/11/2007	9/11/2017	12/12/2011	3.590	121.060	121.060	117.630	112.881	108.960	105.878	103.524	101.801
9/12/2007	9/12/2014	12/12/2011	3.690	110.424	110.424	110.424	108.000	105.492	103.448	101.902	100.815
9/13/2007	9/15/2014	12/13/2011	3.990	111.304	111.304	111.304	108.854	106.277	104.144	102.467	101.205
9/13/2007	9/13/2017	12/13/2011	3.990	123.429	123.429	119.866	114.941	110.803	107.450	104.822	102.861
9/14/2007	9/14/2012	12/14/2011	4.390	103.524	103.524	103.524	103.248	102.454	101.684	100.987	100.417
9/17/2007	9/17/2012	12/19/2011	4.220	103.423	103.423	103.423	103.142	102.341	101.566	100.869	100.312
9/27/2007	9/29/2014	9/27/2010	4.490	112.896	112.896	112.896	110.342	107.447	104.644	101.929	99.299
9/27/2007	9/27/2017	12/27/2011	3.650	121.574	121.574	118.035	113.228	109.243	106.089	103.665	101.872
9/28/2007	9/28/2012	12/28/2011	3.850	103.240	103.240	103.240	102.943	102.113	101.316	100.626	100.166
10/3/2007	10/3/2012	1/3/2012	3.830	103.277	103.277	103.277	102.972	102.128	101.327	100.644	100.175
10/9/2007	10/9/2012	10/9/2009	4.400	103.838	103.838	103.838	103.522	102.659	101.811	100.976	100.156
10/11/2007	10/14/2014	1/11/2012	4.180	112.179	112.179	112.179	109.614	106.941	104.710	102.924	101.565
10/11/2007	10/11/2017	1/11/2012	3.990	123.739	123.739	120.030	115.066	110.901	107.528	104.885	102.906
10/15/2007	10/16/2017	1/17/2012	3.990	123.794	123.794	120.056	115.084	110.910	107.529	104.877	102.892
10/22/2007	10/22/2012	1/23/2012	3.990	103.624	103.624	103.624	103.288	102.392	101.537	100.788	100.256
10/25/2007	10/27/2014	1/25/2012	4.360	112.861	112.861	112.861	110.236	107.502	105.184	103.303	101.848
10/26/2007	10/26/2017	1/26/2012	3.390	120.310	120.310	116.719	111.998	108.145	105.165	102.934	101.328
10/29/2007	10/29/2012	1/30/2012	3.990	103.702	103.702	103.702	103.354	102.439	101.567	100.801	100.256
11/2/2007	11/3/2014	2/2/2012	3.990	111.847	111.847	111.847	109.219	106.544	104.346	102.617	101.333
11/2/2007	11/3/2014	2/2/2012	4.190	112.441	112.441	112.441	109.801	107.090	104.830	103.025	101.660
11/5/2007	11/5/2014	2/6/2012	3.990	111.869	111.869	111.869	109.233	106.552	104.349	102.614	101.322
11/5/2007	11/6/2017	11/5/2012	4.390	126.436	126.436	122.479	117.310	112.913	109.308	106.369	103.974
11/6/2007	11/6/2017	2/6/2012	3.480	120.956	120.956	117.289	112.523	108.619	105.585	103.289	101.628
11/9/2007	11/10/2014	2/9/2012	4.330	112.941	112.941	112.941	110.265	107.514	105.191	103.321	101.885
11/13/2007	11/13/2012	2/13/2012	3.680	103.567	103.567	103.567	103.193	102.241	101.351	100.617	100.108
11/13/2007	11/13/2014	2/13/2012	3.350	110.040	110.040	110.040	107.419	104.866	102.862	101.410	100.472
11/19/2007	11/19/2014	2/21/2012	4.270	112.869	112.869	112.869	110.159	107.393	105.067	103.196	101.761
11/19/2007	11/19/2014	2/21/2012	3.750	111.301	111.301	111.301	108.623	105.961	103.797	102.143	100.961
11/19/2007	11/19/2014	2/21/2012	3.750	111.301	111.301	111.301	108.623	105.961	103.797	102.143	100.961
11/19/2007	11/20/2017	11/19/2012	4.290	126.000	126.000	121.044	114.884	109.724	105.968	103.280	101.306
11/20/2007	11/20/2017	2/21/2012	3.740	122.667	122.667	118.824	113.910	109.831	106.572	104.059	102.211
11/23/2007	11/24/2017	2/23/2012	3.990	124.226	124.226	119.256	112.994	107.069	101.501	96.267	91.346
11/23/2007	11/24/2017	2/23/2012	3.990	124.226	124.226	119.256	112.994	107.069	101.501	96.267	91.346
11/29/2007	11/29/2017	2/29/2012	2.950	117.952	117.952	114.381	109.870	106.293	103.598	101.710	100.533
11/30/2007	11/30/2017	2/29/2012	3.190	119.422	119.422	115.739	111.093	107.351	104.488	102.399	100.977
12/7/2007	12/7/2012	12/7/2011	3.450	103.574	103.574	103.574	103.154	102.140	101.218	100.504	100.105
12/7/2007	12/7/2012	12/7/2011	3.450	103.574	103.574	103.574	103.154	102.140	101.218	100.504	100.105
12/10/2007	12/11/2017	12/12/2011	3.450	121.110	121.110	117.276	112.482	108.561	105.521	103.227	101.557
12/11/2007	12/11/2012	12/12/2011	3.760	103.937	103.937	103.937	103.508	102.479	101.522	100.729	100.207
12/20/2007	12/20/2012	12/21/2009	3.750	104.021	104.021	104.021	103.573	102.512	101.469	100.444	99.435
12/20/2007	12/20/2012	12/20/2011	3.600	103.860	103.860	103.860	103.412	102.359	101.389	100.612	100.141
12/24/2007	12/26/2017	12/24/2012	3.990	124.581	124.581	119.367	113.267	108.439	104.943	102.487	100.672
12/26/2007	12/26/2012	12/27/2011	3.960	104.312	104.312	104.312	103.851	102.776	101.767	100.913	100.292
12/26/2007	12/26/2012	12/27/2011	3.460	103.767	103.767	103.767	103.307	102.240	101.267	100.508	100.086
1/2/2008	1/2/2013	1/3/2012	3.490	103.868	103.868	103.868	103.392	102.308	101.328	100.567	100.091
1/3/2008	1/5/2015	1/3/2012	3.650	111.476	111.476	111.476	108.624	105.910	103.731	102.090	100.940
1/4/2008	1/4/2018	1/4/2012	3.360	120.784	120.784	116.870	112.100	108.224	105.238	103.016	101.417
1/7/2008	1/7/2013	1/9/2012	2.990	103.355	103.355	103.355	102.869	101.785	100.860	100.234	99.937
1/7/2008	1/7/2013	1/9/2012	3.590	104.028	104.028	104.028	103.541	102.441	101.439	100.642	100.127
1/7/2008	1/7/2015	1/9/2012	3.490	110.993	110.993	110.993	108.147	105.467	103.336	101.763	100.724
1/7/2008	1/8/2018	1/9/2012	2.590	116.049	116.049	112.502	108.187	104.880	102.537	100.998	100.136
1/8/2008	1/8/2013	1/9/2012	3.150	103.543	103.543	103.543	103.054	101.962	101.012	100.337	99.983
1/8/2008	1/8/2013	1/9/2012	3.150	103.543	103.543	103.543	103.054	101.962	101.012	100.337	99.983
1/8/2008	1/8/2018	1/9/2012	2.570	115.925	115.925	112.389	108.087	104.799	102.475	100.962	100.123
1/8/2008	1/8/2018	1/9/2012	2.640	116.359	116.359	112.781	108.434	105.080	102.692	101.094	100.189
1/11/2008	1/11/2018	1/11/2012	2.720	116.877	116.877	113.240	108.834	105.413	102.938	101.252	100.288

Start Date	Maturity	Next Call	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
	Date	Date									
1/14/2008	1/16/2018	1/17/2012	3.240	120.149	120.149	116.222	111.497	107.690	104.775	102.636	101.154
1/16/2008	1/16/2013	1/17/2012	2.550	102.925	102.925	102.925	102.418	101.332	100.478	100.018	99.816
1/16/2008	1/16/2018	1/17/2012	2.380	114.801	114.801	111.343	107.167	104.044	101.901	100.605	99.969
1/17/2008	1/17/2018	1/17/2012	2.250	113.998	113.998	110.626	106.547	103.546	101.527	100.378	99.885
1/18/2008	1/18/2013	1/18/2012	2.550	102.939	102.939	102.939	102.428	101.337	100.478	100.017	99.812
1/18/2008	1/18/2013	1/18/2012	2.550	102.939	102.939	102.939	102.428	101.337	100.478	100.017	99.812
1/18/2008	1/20/2015	1/18/2012	2.350	107.487	107.487	107.487	104.749	102.466	100.958	100.123	99.808
1/18/2008	1/18/2018	1/18/2012	2.290	114.254	114.254	110.850	106.737	103.696	101.638	100.442	99.906
1/24/2008	1/24/2012	1/24/2012	2.440	100.373	100.373	100.373	100.356	100.208	100.060	99.913	99.766
1/24/2008	1/24/2013	1/24/2012	2.500	102.923	102.923	102.923	102.398	101.296	100.438	99.993	99.781
1/25/2008	1/25/2013	1/26/2009	2.250	102.637	102.637	102.637	102.109	100.960	99.828	98.714	97.618
1/25/2008	1/25/2013	1/25/2012	2.650	103.106	103.106	103.106	102.577	101.425	100.290	99.174	98.074
1/28/2008	1/28/2013	1/28/2012	2.990	103.530	103.530	103.530	102.993	101.829	100.685	99.558	98.449
1/30/2008	1/30/2013	1/30/2012	2.670	103.167	103.167	103.167	102.626	101.498	100.582	100.045	99.788
2/7/2008	2/7/2013	2/7/2012	2.490	103.008	103.008	103.008	102.448	101.322	100.462	99.993	99.727
2/13/2008	2/13/2013	2/13/2012	2.920	103.577	103.577	103.577	102.998	101.826	100.856	100.203	99.835
2/14/2008	2/14/2018	2/14/2012	3.190	120.095	120.095	114.545	108.206	103.075	100.736	100.093	99.829
2/19/2008	2/19/2013	2/19/2010	2.590	103.216	103.216	103.216	102.622	101.397	100.192	99.007	97.841
2/25/2008	2/25/2013	2/25/2012	3.090	103.888	103.888	103.888	103.277	102.030	100.804	99.598	98.412
2/25/2008	2/26/2018	2/27/2012	2.420	115.325	115.325	111.666	107.417	104.225	102.016	100.644	99.870
3/7/2008	3/9/2015	12/7/2011	2.890	109.592	109.592	109.592	106.574	103.992	102.095	100.831	100.184
3/7/2008	3/7/2018	3/7/2013	3.550	122.570	122.570	118.257	113.312	109.243	105.996	103.365	101.163
3/10/2008	3/11/2013	12/12/2011	2.390	103.100	103.100	103.100	102.454	101.269	100.406	100.015	99.947
3/12/2008	3/12/2013	12/12/2011	2.010	102.613	102.613	102.613	101.968	100.837	100.133	99.967	99.935
3/14/2008	3/14/2018	12/14/2011	2.400	115.305	115.305	111.597	107.362	104.190	102.006	100.643	100.070
3/17/2008	3/18/2013	12/19/2011	2.690	103.542	103.542	103.542	102.873	101.641	100.667	100.115	99.932
3/17/2008	3/17/2015	12/17/2011	2.620	108.754	108.754	108.754	105.515	102.242	99.088	96.048	93.117
3/17/2008	3/19/2018	3/18/2013	3.300	121.091	121.091	116.824	111.995	108.075	104.977	102.475	100.398
3/28/2008	3/28/2013	12/28/2011	2.820	103.791	103.791	103.791	103.091	101.763	100.457	99.174	97.913
3/28/2008	3/28/2013	12/28/2011	2.800	103.764	103.764	103.764	103.065	101.736	100.431	99.148	97.887
3/28/2008	3/28/2018	12/28/2011	2.770	117.772	117.772	113.748	109.231	105.704	103.122	101.343	100.337
3/28/2008	3/28/2018	12/28/2011	2.020	112.960	112.960	109.482	105.539	102.728	100.957	100.120	99.848
4/14/2008	4/14/2015	1/14/2012	2.750	109.403	109.403	109.403	106.014	102.659	99.430	96.319	93.322
4/28/2008	4/28/2015	1/30/2012	3.250	111.239	111.239	111.239	107.946	105.145	102.976	101.414	100.437
4/28/2008	4/30/2018	1/30/2012	2.150	113.991	113.991	110.279	106.199	103.237	101.287	100.209	99.765
4/30/2008	4/30/2018	4/30/2013	3.740	124.339	124.339	118.182	112.232	107.652	104.372	101.867	99.884
5/2/2008	5/4/2015	2/2/2012	3.990	113.864	113.864	113.856	110.455	107.441	104.986	103.060	101.630
5/5/2008	5/5/2015	2/6/2012	3.170	111.024	111.024	111.013	107.721	104.955	102.845	101.354	100.421
5/8/2008	5/8/2015	2/8/2012	2.960	110.318	110.318	110.301	107.037	104.340	102.352	100.985	100.169
5/19/2008	5/19/2015	5/21/2012	4.700	116.527	116.527	116.487	112.859	109.299	105.955	103.200	101.123
5/23/2008	5/23/2013	2/23/2012	4.040	106.060	106.060	106.060	105.180	103.719	102.407	101.336	100.547
5/23/2008	5/23/2018	2/23/2012	3.270	121.489	121.489	116.907	112.018	108.076	105.052	102.819	101.248
5/27/2008	5/28/2013	5/27/2011	3.490	105.283	105.283	105.283	104.388	102.886	101.412	99.967	98.549
6/6/2008	6/6/2013	12/6/2011	3.990	106.140	106.140	106.140	105.213	103.679	102.175	100.701	99.255
6/10/2008	6/11/2012	6/10/2010	3.940	102.123	102.123	102.123	101.976	101.443	100.916	100.394	99.878
6/16/2008	6/17/2013	12/16/2011	4.070	106.387	106.387	106.387	105.423	103.857	102.322	100.817	99.342
6/24/2008	6/24/2015	12/27/2011	3.830	113.851	113.851	113.721	110.210	107.138	104.667	102.750	101.317
6/30/2008	7/1/2013	12/30/2011	2.920	104.696	104.696	104.696	103.700	102.235	101.071	100.278	99.942
6/30/2008	7/1/2013	12/30/2011	3.450	105.548	105.548	105.548	104.546	103.029	101.742	100.754	100.174
6/30/2008	6/30/2015	12/30/2011	3.370	112.243	112.243	112.099	108.646	105.724	103.443	101.778	100.641
6/30/2008	7/2/2018	12/30/2011	3.690	124.660	124.658	117.968	111.159	104.763	98.788	93.204	87.982
7/1/2008	7/1/2015	1/1/2012	4.600	116.725	116.725	116.574	112.813	109.134	105.597	102.197	98.928
7/7/2008	7/8/2013	1/7/2012	4.590	107.471	107.471	107.471	106.432	104.800	103.201	101.635	100.100
7/8/2008	7/8/2013	1/8/2012	4.250	106.918	106.918	106.918	105.880	104.253	102.659	101.097	99.567
7/10/2008	7/10/2014	7/10/2012	4.800	112.706	112.706	112.706	110.440	107.760	105.222	102.896	100.980
7/11/2008	7/11/2018	7/11/2012	3.750	125.154	125.145	118.382	111.672	106.342	103.080	101.195	100.037
7/14/2008	7/14/2015	7/15/2013	4.900	117.993	117.993	117.802	114.010	110.409	106.973	103.560	100.310
7/14/2008	7/16/2018	1/17/2012	2.500	116.804	116.790	112.485	108.075	104.736	102.395	100.892	100.069
7/14/2008	7/16/2018	1/17/2012	3.250	121.845	121.831	117.005	112.078	108.118	105.086	102.849	101.274
7/17/2008	7/17/2018	7/17/2013	3.750	125.217	125.202	118.462	112.566	107.996	104.635	101.962	99.761
7/21/2008	7/22/2013	1/23/2012	3.000	105.000	105.000	105.000	103.922	102.274	100.835	100.122	99.864
8/15/2008	8/15/2018	2/15/2012	3.830	126.063	125.961	120.738	115.439	111.056	107.538	104.806	102.795
8/19/2008	8/19/2013	8/19/2010	3.440	106.000	106.000	106.000	104.824	103.093	101.400	99.743	98.120
9/8/2008	9/9/2013	12/8/2011	2.890	105.210	105.210	105.210	103.985	102.387	101.153	100.328	100.005
5/13/2009	5/13/2014	5/13/2013	4.000	109.944	109.944	109.944	107.876	105.260	102.446	99.688	97.220
9/28/2009	9/30/2013	9/28/2012	2.920	105.434	105.434	105.432	103.886	101.629	99.702	98.202	97.066
5/11/2010	5/11/2015	5/11/2015	3.700	112.929	112.929	112.905	109.163	105.058	100.514	95.864	91.442
5/24/2010	5/26/2015	2/24/2012	2.250	107.955	107.955	107.901	104.365	100.931	97.629	94.453	92.127
6/15/2010	6/15/2015	12/15/2011	2.280	108.188	108.188	108.082	104.485	100.997	98.972	97.645	94.422