

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.

As of: 12/31/2007 Parallel-Shift Sensitivity Analysis for HLB-Option and Knockout Advances

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
2/27/1997	2/27/2012	2/27/2008	6.580	122.818	118.388	114.160	110.180	106.566	103.482	101.181	100.022
2/11/1998	2/11/2008	2/11/2008	5.590	100.509	100.398	100.287	100.176	100.066	99.956	99.847	99.738
3/13/1998	3/13/2008	3/13/2008	5.530	100.858	100.656	100.454	100.254	100.054	99.855	99.658	99.461
3/18/1998	3/18/2008	3/18/2008	5.680	100.950	100.733	100.518	100.303	100.090	99.855	99.658	99.461
3/24/1998	3/24/2008	3/24/2008	5.680	101.023	100.790	100.557	100.326	100.096	99.855	99.658	99.461
3/26/1998	3/26/2008	3/26/2008	5.490	101.002	100.763	100.525	100.289	100.054	99.855	99.658	99.461
4/8/1998	4/8/2013	1/8/2008	5.490	122.067	116.570	111.504	107.070	103.473	100.962	100.016	99.938
5/6/1998	5/6/2008	2/6/2008	5.790	101.567	101.216	100.867	100.521	100.188	99.993	99.891	99.795
5/8/1998	5/8/2008	2/8/2008	5.520	101.496	101.139	100.784	100.433	100.123	99.955	99.853	99.753
6/1/1998	6/4/2008	3/3/2008	5.520	101.802	101.373	100.949	100.529	100.139	99.880	99.699	99.527
6/16/1998	6/16/2008	3/17/2008	5.470	101.919	101.457	100.999	100.546	100.129	99.880	99.699	99.527
6/16/1998	6/16/2008	3/17/2008	5.700	102.026	101.564	101.106	100.652	100.217	99.880	99.699	99.527
6/24/1998	6/24/2008	3/24/2008	5.450	102.002	101.518	101.038	100.562	100.126	99.880	99.699	99.527
7/31/1998	7/30/2008	1/30/2008	5.390	102.393	101.806	101.225	100.652	100.146	99.926	99.844	99.761
7/31/1998	7/30/2008	1/30/2008	5.610	102.522	101.934	101.354	100.780	100.235	99.945	99.862	99.779
8/19/1998	8/19/2013	2/19/2008	5.490	123.180	117.316	111.967	107.332	103.604	101.010	99.914	99.665
8/19/1998	8/19/2013	2/19/2008	5.490	123.180	117.316	111.967	107.332	103.604	101.010	99.914	99.665
8/25/1998	8/19/2013	1/25/2008	5.490	123.180	117.314	111.964	107.328	103.595	100.991	99.976	99.853
8/27/1998	8/19/2013	1/28/2008	5.490	123.180	117.314	111.964	107.328	103.595	100.991	99.976	99.853
9/30/1998	9/30/2013	3/31/2008	5.220	122.023	116.099	110.755	106.217	102.674	100.430	99.976	99.853
10/30/1998	10/30/2008	10/30/2003	4.990	103.178	102.338	101.512	100.700	99.900	99.113	98.340	97.578
11/25/1998	11/25/2008	11/25/2003	5.200	103.676	102.766	101.873	100.996	100.134	99.287	98.455	97.638
12/14/1998	12/16/2013	3/14/2008	4.890	120.609	114.584	109.271	104.915	101.704	100.020	99.516	99.305
12/14/1998	12/16/2013	12/15/2008	5.390	123.528	117.369	111.823	107.094	103.352	100.678	98.953	97.798
12/15/1998	12/16/2013	3/17/2008	4.880	120.551	114.528	109.221	104.874	101.675	100.009	99.516	99.305
1/15/1999	1/15/2009	1/15/2004	5.160	104.283	103.231	102.200	101.188	100.195	99.221	98.264	97.325
1/19/1999	1/20/2009	1/21/2003	4.980	104.144	103.079	102.035	101.011	100.006	99.019	98.051	97.101
1/19/1999	1/20/2009	1/21/2003	4.980	104.144	103.079	102.035	101.011	100.006	99.019	98.051	97.101
1/29/1999	1/29/2009	1/29/2003	4.980	104.235	103.145	102.076	101.027	99.999	98.989	97.998	97.025
2/18/1999	2/18/2009	2/19/2008	5.080	104.617	103.480	102.365	101.271	100.303	99.885	99.746	99.618
2/18/1999	2/18/2009	2/19/2008	5.430	105.018	103.878	102.761	101.664	100.619	99.994	99.793	99.665
4/23/1999	4/27/2009	1/23/2008	5.190	105.581	104.250	102.944	101.663	100.479	99.919	99.844	99.770
4/23/1999	4/27/2009	1/23/2008	5.500	105.994	104.660	103.351	102.067	100.835	100.068	99.867	99.793
4/26/1999	4/27/2009	1/28/2008	5.190	105.581	104.250	102.944	101.663	100.479	99.919	99.844	99.770
4/26/1999	4/27/2009	1/28/2008	5.500	105.994	104.660	103.351	102.067	100.835	100.068	99.867	99.793
5/6/1999	5/6/2009	2/6/2008	5.310	105.897	104.539	103.206	101.899	100.677	100.008	99.842	99.746
6/7/1999	6/8/2009	3/7/2008	5.700	106.886	105.434	104.010	102.613	101.261	100.214	99.739	99.530
6/7/1999	6/8/2009	3/7/2008	6.040	107.378	105.922	104.495	103.094	101.726	100.531	99.868	99.596
7/1/1999	7/1/2009	4/1/2008	6.110	107.874	106.349	104.854	103.389	101.958	100.678	100.075	99.994
7/23/1999	7/23/2009	1/23/2008	5.400	107.049	105.469	103.921	102.405	100.960	100.086	99.880	99.817
9/8/1999	9/8/2009	3/10/2008	5.620	108.142	106.427	104.749	103.106	101.519	100.281	99.731	99.515
10/8/1999	10/8/2009	1/8/2008	5.580	108.518	106.714	104.950	103.225	101.563	100.338	99.962	99.940
11/1/1999	11/2/2009	2/1/2008	5.540	108.833	106.960	105.130	103.342	101.622	100.345	99.898	99.800
11/8/1999	11/9/2009	2/8/2008	5.960	109.698	107.797	105.941	104.126	102.362	100.806	100.008	99.794
11/9/1999	11/9/2009	2/11/2008	5.570	108.970	107.076	105.226	103.418	101.677	100.358	99.870	99.751
12/10/1999	12/10/2009	3/10/2008	5.710	109.697	107.708	105.766	103.870	102.038	100.515	99.772	99.519
12/17/1999	12/17/2009	3/17/2008	5.910	110.175	108.162	106.196	104.277	102.415	100.783	99.772	99.519
12/20/1999	12/21/2009	3/20/2008	5.810	110.027	108.004	106.029	104.101	102.234	100.635	99.772	99.519
12/22/1999	12/22/2009	3/24/2008	5.840	110.099	108.072	106.094	104.163	102.291	100.676	99.772	99.519
1/7/2000	1/7/2015	1/7/2008	5.950	129.962	122.648	116.133	110.552	106.012	102.587	100.614	99.955
1/13/2000	1/13/2010	1/14/2008	5.910	110.534	108.443	106.402	104.412	102.488	100.814	100.035	99.915
1/25/2000	1/25/2010	1/25/2008	5.970	110.809	108.681	106.605	104.581	102.622	100.895	100.027	99.841
1/27/2000	1/27/2010	1/28/2008	6.080	111.063	108.927	106.843	104.811	102.842	101.069	100.095	99.836
1/27/2000	1/27/2010	1/28/2008	6.210	111.334	109.195	107.108	105.074	103.099	101.290	100.194	99.846
2/7/2000	2/8/2010	2/7/2008	5.950	110.974	108.814	106.708	104.656	102.678	100.951	100.046	99.799
2/16/2000	2/8/2010	2/1/2008	5.950	110.974	108.814	106.708	104.656	102.678	100.951	100.046	99.799
2/16/2000	2/16/2010	2/19/2008	6.470	112.187	109.991	107.851	105.765	103.739	101.846	100.458	99.853
2/16/2000	2/16/2010	2/19/2008	6.690	112.657	110.456	108.311	106.220	104.187	102.262	100.703	99.955
3/6/2000	3/8/2010	3/6/2008	6.390	112.302	110.042	107.841	105.698	103.630	101.726	100.356	99.719
3/13/2000	3/15/2010	3/13/2008	6.090	111.735	109.461	107.248	105.094	103.026	101.186	100.038	99.579
3/14/2000	3/15/2010	2/14/2008	6.090	111.735	109.461	107.248	105.095	103.029	101.195	100.125	99.774
3/15/2000	3/15/2010	3/17/2008	5.950	111.425	109.155	106.945	104.795	102.738	100.955	100.046	99.799
3/21/2000	3/22/2010	3/21/2008	6.120	111.893	109.598	107.363	105.189	103.101	101.235	100.042	99.799
3/22/2000	3/22/2010	3/24/2008	5.960	111.536	109.245	107.014	104.845	102.769	100.964	100.046	99.799
4/5/2000	4/5/2010	1/7/2008	5.950	111.714	109.386	107.120	104.918	102.815	101.005	100.121	99.968
4/11/2000	4/12/2010	1/11/2008	5.950	111.802	109.453	107.167	104.946	102.825	100.997	100.095	99.922
4/11/2000	4/12/2010	1/11/2008	6.050	112.031	109.679	107.391	105.167	103.037	101.164	100.163	99.926
4/11/2000	4/12/2010	1/11/2008	6.470	112.992	110.629	108.330	106.093	103.935	101.946	100.508	99.940
4/11/2000	4/12/2010	1/11/2008	6.560	113.198	110.833	108.531	106.292	104.128	102.122	100.590	99.968
4/11/2000	4/12/2010	1/11/2008	6.750	113.633	111.262	108.956	106.711	104.539	102.499	100.835	100.077
4/12/2000	4/12/2010	1/14/2008	5.990	111.894	109.543	107.257	105.034	102.910	101.064	100.122	99.924
4/13/2000	4/13/2010	1/14/2008	6.560	113.212	110.844	108.539	106.297	104.131	102.122	100.587	99.964
4/24/2000	4/26/2010	1/24/2008	6.450	113.141	110.737	108.398	106.123	103.929	101.910	100.457	99.869
5/3/2000	5/3/2010	2/4/2008	6.240	112.764	110.344	107.990	105.704	103.520	101.564	100.319	99.876
5/3/2000	5/3/2010	2/4/2008	6.360	113.046	110.622	108.264	105.975	103.781	101.791	100.434	99.900
5/15/2000	5/17/2010	2/15/2008	6.990	114.739	112.254	109.839	107.491	105.222	103.086	101.258	100.186

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Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
5/30/2000	6/1/2010	2/29/2008	6.490	113.782	111.271	108.831	106.461	104.187	102.110	100.594	99.940
8/8/2000	8/9/2010	2/8/2008	5.990	113.460	110.759	108.139	105.610	103.240	101.229	100.127	99.797
8/18/2000	8/18/2010	2/19/2008	6.090	113.838	111.106	108.456	105.898	103.490	101.409	100.177	99.762
10/5/2000	10/5/2010	1/7/2008	5.710	113.427	110.568	107.801	105.148	102.716	100.794	100.023	99.964
10/10/2000	10/12/2010	1/10/2008	5.840	113.872	110.987	108.195	105.513	103.034	101.009	100.075	99.919
10/13/2000	10/13/2010	1/14/2008	5.750	113.633	110.749	107.958	105.280	102.818	100.848	100.013	99.909
10/23/2000	10/25/2010	1/23/2008	5.640	113.466	110.551	107.730	105.030	102.562	100.640	99.891	99.818
12/5/2000	12/6/2010	3/5/2008	5.410	113.302	110.274	107.351	104.581	102.123	100.402	99.714	99.492
12/11/2000	12/13/2010	3/11/2008	5.170	112.670	109.632	106.702	103.947	101.568	100.095	99.594	99.389
12/12/2000	12/13/2010	3/12/2008	5.110	112.492	109.458	106.531	103.786	101.433	100.035	99.579	99.377
12/15/2000	12/15/2010	3/17/2008	5.120	112.542	109.501	106.569	103.816	101.454	100.037	99.579	99.377
12/20/2000	12/20/2010	3/20/2008	4.950	112.088	109.400	106.104	103.370	101.088	100.037	99.579	99.377
12/21/2000	12/21/2010	3/21/2008	4.860	111.830	108.783	105.850	103.131	100.909	99.938	99.785	99.687
1/11/2001	1/11/2011	1/11/2008	5.370	113.569	110.439	107.421	104.577	102.084	100.429	99.942	99.911
1/12/2001	1/12/2011	1/14/2008	5.300	113.368	110.238	107.222	104.386	101.917	100.357	99.934	99.901
2/5/2001	2/7/2011	2/5/2008	4.820	112.160	108.985	105.939	103.141	100.908	99.938	99.785	99.687
2/7/2001	2/7/2011	2/7/2008	4.820	112.160	108.985	105.939	103.141	100.908	99.938	99.785	99.687
2/26/2001	2/28/2011	2/26/2008	4.790	112.251	109.010	105.902	103.056	100.794	99.799	99.592	99.429
2/26/2001	2/28/2011	2/26/2008	5.060	113.105	109.849	106.721	103.812	101.359	100.006	99.637	99.473
2/26/2001	2/28/2011	2/26/2008	5.450	114.337	111.063	107.908	104.932	102.303	100.444	99.730	99.537
2/27/2001	2/28/2011	2/27/2008	4.760	112.156	108.916	105.811	102.972	100.736	99.788	99.587	99.424
2/27/2001	2/28/2011	2/27/2008	5.020	112.978	109.725	106.599	103.697	101.268	99.971	99.630	99.467
3/1/2001	3/1/2011	3/3/2008	5.270	113.772	110.505	107.365	104.433	101.913	100.282	99.699	99.508
3/14/2001	3/14/2011	3/14/2008	4.860	112.598	109.314	106.170	103.296	100.986	99.846	99.518	99.317
4/23/2001	4/25/2011	4/24/2006	5.350	114.616	111.186	107.881	104.694	101.621	98.658	95.800	93.042
6/1/2001	6/1/2011	3/3/2008	4.990	113.773	110.258	106.902	103.845	101.357	100.015	99.629	99.461
12/13/2001	12/13/2011	3/13/2008	4.920	115.285	111.214	107.381	103.990	101.326	99.945	99.539	99.339
6/3/2002	6/4/2012	3/3/2008	4.490	114.864	110.358	106.250	102.850	100.555	99.733	99.518	99.346
6/4/2002	6/4/2012	3/4/2008	4.490	114.864	110.358	106.250	102.850	100.555	99.733	99.518	99.346
12/5/2002	12/5/2012	3/5/2008	3.790	112.714	107.880	103.820	100.930	99.788	99.560	99.385	99.210
2/25/2003	2/25/2008	2/25/2008	2.850	100.251	100.101	100.028	99.896	99.822	99.747	99.673	99.599
3/4/2003	3/4/2008	3/4/2008	2.810	100.270	100.093	100.028	99.896	99.822	99.747	99.673	99.599
3/6/2003	3/6/2013	3/6/2008	2.990	109.040	104.427	101.116	99.798	99.587	99.408	99.230	99.053
1/20/2004	1/22/2008	1/22/2008	2.660	100.084	100.023	100.028	99.896	99.822	99.747	99.673	99.599
1/27/2004	1/27/2009	1/28/2008	2.890	101.950	100.878	100.028	99.896	99.822	99.747	99.673	99.599
2/5/2004	2/20/2008	2/20/2008	5.480	100.601	100.465	100.329	100.193	100.058	99.924	99.790	99.656
2/5/2004	12/18/2008	12/19/2005	5.150	103.915	102.940	101.984	101.047	100.128	99.225	98.340	97.472
2/5/2004	4/26/2010	1/24/2008	6.200	112.559	110.162	107.830	105.564	103.393	101.449	100.251	99.851
2/5/2004	12/14/2010	3/14/2008	5.820	114.602	111.533	108.567	105.732	103.137	101.043	99.920	99.518
2/9/2004	2/9/2009	2/11/2008	3.110	102.318	101.219	100.197	99.895	99.790	99.686	99.583	99.480
2/17/2004	2/17/2009	2/19/2008	2.910	102.129	101.010	100.061	99.842	99.716	99.590	99.465	99.340
3/4/2004	3/4/2009	3/4/2008	2.970	102.317	101.150	100.105	99.770	99.596	99.422	99.250	99.078
3/12/2004	3/12/2009	3/12/2008	2.690	102.016	100.830	99.923	99.686	99.490	99.294	99.100	98.907
4/1/2004	4/1/2009	4/1/2008	2.770	102.255	101.018	99.968	99.627	99.381	99.137	98.894	98.653
5/24/2004	5/26/2009	2/25/2008	3.580	103.677	102.280	100.912	99.975	99.763	99.612	99.462	99.313
5/28/2004	5/28/2009	2/28/2008	3.700	103.860	102.455	101.080	100.037	99.773	99.617	99.461	99.306
6/11/2004	6/11/2009	3/11/2008	3.750	104.087	102.647	101.237	100.088	99.705	99.511	99.320	99.129
6/18/2004	6/20/2011	3/18/2008	4.120	110.947	107.433	104.164	101.439	99.929	99.532	99.314	99.099
7/2/2004	7/2/2014	4/2/2008	3.990	116.056	110.032	105.174	101.694	99.931	99.445	99.193	98.949
8/5/2004	8/5/2009	2/5/2008	3.470	104.194	102.602	101.047	100.011	99.850	99.757	99.664	99.572
12/13/2004	12/15/2014	3/13/2008	3.320	112.300	106.568	102.406	100.094	99.599	99.395	99.193	98.991
12/17/2004	12/17/2009	3/17/2008	3.710	105.838	103.868	101.946	100.267	99.674	99.461	99.253	99.046
5/5/2005	5/5/2010	2/5/2008	4.190	107.971	105.601	103.311	101.213	100.082	99.461	99.253	99.046
5/17/2005	5/17/2010	2/19/2008	4.070	107.778	105.378	103.063	100.971	99.923	99.744	99.618	99.493
6/6/2005	6/7/2010	3/6/2008	3.890	107.519	105.069	102.716	100.678	99.781	99.565	99.384	99.204
7/18/2005	7/19/2010	1/18/2008	4.160	108.508	105.929	103.447	101.214	100.032	99.889	99.836	99.784
9/1/2005	9/1/2015	3/3/2008	4.130	118.727	111.797	106.313	102.373	100.229	99.651	99.480	99.316
9/19/2005	9/19/2012	3/19/2008	3.820	112.492	107.826	103.836	100.933	99.923	99.744	99.618	99.493
9/26/2005	9/26/2012	3/26/2008	3.890	112.866	108.164	104.111	101.097	99.923	99.744	99.618	99.493
9/30/2005	9/30/2015	9/30/2008	4.440	121.205	113.951	108.041	103.588	100.624	99.000	98.084	97.364
10/26/2005	10/26/2015	10/27/2008	4.540	122.065	114.692	108.650	104.056	100.918	99.105	98.055	97.255
10/28/2005	10/28/2015	1/28/2008	4.140	119.121	112.037	106.427	102.378	100.241	99.835	99.757	99.680
10/28/2005	10/28/2015	10/28/2008	4.310	120.375	113.156	107.346	103.049	100.263	98.741	97.819	97.046
11/4/2005	11/4/2010	2/4/2008	4.520	110.406	107.512	104.729	102.194	100.390	99.871	99.776	99.687
11/21/2005	11/21/2012	2/21/2008	4.290	115.090	110.163	105.795	102.330	100.267	99.751	99.614	99.478
12/22/2005	12/22/2008	12/22/2008	4.750	103.564	102.579	101.615	100.668	99.923	99.744	99.618	99.493
1/6/2006	1/6/2016	1/7/2008	4.020	118.462	111.371	105.864	102.001	100.178	99.962	99.946	99.929
1/17/2006	1/19/2016	1/17/2008	4.080	119.003	111.820	106.202	102.208	100.203	99.884	99.832	99.779
3/20/2006	3/21/2011	3/20/2008	4.760	112.343	109.043	105.861	102.790	100.385	99.675	99.448	99.230
4/11/2006	4/11/2011	4/11/2008	4.980	113.253	109.885	106.659	103.695	101.262	99.894	99.399	99.120
4/19/2006	4/19/2013	1/22/2008	4.630	117.692	112.323	107.539	103.635	100.894	99.913	99.861	99.808
4/24/2006	4/25/2016	1/24/2008	4.440	122.225	114.537	108.350	103.738	100.769	99.873	99.804	99.735
4/28/2006	4/28/2011	4/28/2008	5.090	113.785	110.361	107.061	103.880	101.057	99.739	99.320	99.005
5/5/2006	5/6/2013	2/5/2008	4.780	118.551	113.112	108.247	104.227	101.314	100.021	99.788	99.692
5/5/2006	5/5/2016	2/5/2008	4.350	121.503	113.889	107.827	103.378	100.661	99.866	99.752	99.659
5/5/2006	5/5/2016	2/5/2008	4.530	122.913	115.153	108.879	104.167	101.077	99.918	99.770	99.677

As of: 12/31/2007 Parallel-Shift Sensitivity Analysis for HLB-Option and Knockout Advances

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
5/5/2006	5/5/2016	5/5/2009	4.980	126.461	118.375	111.635	106.340	102.472	99.810	97.976	96.559
5/9/2006	5/9/2011	5/9/2008	5.050	113.751	110.296	106.992	103.963	101.457	99.911	99.250	98.883
5/15/2006	5/16/2016	2/15/2008	4.350	121.588	113.942	107.852	103.375	100.631	99.808	99.663	99.541
5/15/2006	5/16/2016	2/15/2008	4.520	122.925	115.140	108.849	104.124	101.025	99.861	99.685	99.563
5/19/2006	5/19/2016	2/19/2008	4.510	122.870	115.085	108.798	104.080	100.993	99.843	99.661	99.530
6/12/2006	6/13/2016	3/12/2008	4.620	123.856	115.934	109.494	104.615	101.317	99.860	99.478	99.279
6/26/2006	6/27/2016	3/26/2008	4.730	124.855	116.807	110.212	105.150	101.628	99.860	99.478	99.279
6/28/2006	6/28/2013	3/28/2007	4.950	119.880	114.259	109.202	104.963	101.768	100.017	99.478	99.279
6/28/2006	6/28/2013	3/28/2008	4.950	119.880	114.259	109.202	104.963	101.768	100.017	99.478	99.279
6/30/2006	7/1/2013	3/31/2008	4.890	119.490	113.886	108.876	104.720	101.642	100.055	99.478	99.279
7/14/2006	7/15/2013	1/14/2008	4.890	119.621	113.975	108.926	104.732	101.617	100.142	99.901	99.859
7/19/2006	7/19/2011	7/21/2008	5.250	115.141	111.468	107.959	104.727	101.999	100.092	99.059	98.438
7/20/2006	7/20/2011	7/21/2008	5.300	115.329	111.649	108.111	104.710	101.665	99.797	98.992	98.450
7/24/2006	7/25/2016	1/24/2008	4.660	124.427	116.375	109.819	104.830	101.417	100.006	99.819	99.750
7/28/2006	7/28/2016	1/28/2008	4.490	123.083	115.162	108.792	104.032	100.923	99.862	99.784	99.707
8/1/2006	8/1/2016	8/3/2009	4.890	126.242	118.026	111.250	105.988	102.172	99.511	97.566	95.974
8/11/2006	8/11/2011	2/11/2008	4.790	113.706	109.998	106.488	103.364	100.959	99.925	99.754	99.645
8/21/2006	8/21/2013	2/21/2008	4.750	119.101	113.400	108.355	104.236	101.274	99.962	99.680	99.544
8/25/2006	8/25/2016	2/25/2008	4.350	122.075	114.227	108.002	103.438	100.628	99.762	99.591	99.444
8/28/2006	8/29/2011	2/28/2008	4.890	114.237	110.470	106.899	103.697	101.165	99.945	99.648	99.490
9/22/2006	9/22/2011	9/22/2008	4.790	114.079	110.253	106.638	103.432	100.920	99.342	98.422	97.716
9/29/2006	9/29/2011	9/29/2008	4.590	113.397	109.566	105.966	102.828	100.463	99.055	98.206	97.504
10/10/2006	10/10/2013	1/10/2008	4.250	116.543	110.884	106.076	102.402	100.335	99.944	99.916	99.888
10/12/2006	10/15/2013	1/14/2008	4.500	117.997	112.238	107.248	103.302	100.667	99.926	99.885	99.843
10/20/2006	10/20/2009	1/20/2008	4.930	107.479	105.651	103.865	102.118	100.410	99.926	99.885	99.843
10/30/2006	10/31/2011	10/30/2008	4.850	114.645	110.697	106.912	103.328	100.577	99.112	98.227	97.455
11/3/2006	11/3/2011	11/3/2008	4.690	114.045	110.105	106.328	102.815	100.313	99.008	98.160	97.394
11/6/2006	11/6/2013	2/6/2008	4.290	116.896	111.167	106.300	102.568	100.377	99.833	99.738	99.642
11/10/2006	11/13/2012	2/11/2008	4.390	115.510	110.586	106.192	102.657	100.435	99.813	99.692	99.578
11/17/2006	11/18/2013	2/19/2008	4.350	117.333	111.548	106.605	102.779	100.438	99.783	99.647	99.519
11/24/2006	11/25/2016	2/25/2008	4.190	121.171	113.307	107.185	102.808	100.354	99.715	99.566	99.419
11/30/2006	12/2/2013	2/29/2008	4.350	117.354	111.553	106.618	102.819	100.501	99.873	99.776	99.692
12/1/2006	12/1/2016	3/3/2008	4.090	120.292	112.552	106.604	102.436	100.214	99.644	99.473	99.310
12/4/2006	12/5/2016	3/4/2008	4.080	120.238	112.497	106.555	102.394	100.184	99.618	99.437	99.262
12/5/2006	12/5/2016	12/7/2009	4.260	121.721	113.788	107.593	103.113	100.024	97.760	95.871	94.137
12/6/2006	12/6/2013	12/7/2009	4.400	117.674	111.840	106.853	102.970	100.133	97.964	96.104	94.377
12/8/2006	12/8/2016	3/10/2008	3.990	119.521	111.873	106.058	102.048	100.046	99.581	99.393	99.211
12/11/2006	12/11/2009	3/11/2008	4.690	107.715	105.742	103.817	101.945	100.376	99.724	99.503	99.312
12/12/2006	12/12/2016	3/12/2008	3.990	119.548	111.889	106.063	102.044	100.032	99.555	99.358	99.164
12/12/2006	12/12/2016	3/12/2008	4.050	120.041	112.313	106.397	102.273	100.111	99.569	99.369	99.176
12/13/2006	12/15/2008	3/13/2008	4.890	103.632	102.667	101.721	100.796	100.060	99.721	99.516	99.314
12/13/2006	12/14/2009	12/15/2008	4.830	108.017	106.034	104.098	102.211	100.465	99.107	98.091	97.210
12/19/2006	12/19/2011	3/19/2008	4.490	113.644	109.594	105.832	102.635	100.434	99.107	98.091	97.210
12/19/2006	12/19/2016	12/19/2008	4.190	121.246	113.345	107.209	102.825	100.045	98.482	97.449	96.561
12/20/2006	12/20/2013	12/22/2008	4.500	118.369	112.457	107.365	103.357	100.557	98.849	97.751	96.846
12/21/2006	12/21/2011	3/21/2008	4.530	113.819	109.759	105.983	102.758	100.492	98.849	97.751	96.846
12/27/2006	12/27/2013	12/29/2008	4.500	118.428	112.495	107.385	103.359	100.541	98.816	97.700	96.778
12/28/2006	12/28/2016	3/28/2008	4.250	121.811	113.822	107.580	103.079	100.414	98.816	97.700	96.778
12/28/2006	12/28/2016	12/29/2008	4.400	123.061	114.926	108.481	103.743	100.603	98.757	97.606	96.673
1/8/2007	1/9/2012	1/8/2008	4.750	114.829	110.698	106.840	103.492	100.996	100.015	99.937	99.912
1/12/2007	1/12/2017	1/12/2009	4.420	123.237	115.070	108.604	103.851	100.689	98.801	97.594	96.615
1/16/2007	1/17/2017	1/17/2012	4.790	126.396	117.881	110.876	105.204	100.514	96.473	92.852	89.505
1/23/2007	1/23/2014	1/23/2008	4.490	118.487	112.503	107.366	103.335	100.654	99.886	99.823	99.759
1/23/2007	1/23/2017	1/23/2008	4.460	123.660	115.424	108.876	104.036	100.913	99.884	99.821	99.757
1/29/2007	1/29/2014	1/29/2009	4.790	120.318	114.217	108.882	104.558	101.373	99.278	97.907	96.845
2/2/2007	2/2/2017	2/4/2008	4.690	125.595	117.157	110.349	105.204	101.692	100.122	99.807	99.723
2/9/2007	2/9/2012	2/11/2008	4.750	115.087	110.873	106.941	103.535	100.995	99.931	99.764	99.660
2/9/2007	2/9/2012	2/11/2008	4.750	115.087	110.873	106.941	103.535	100.995	99.931	99.764	99.660
2/9/2007	2/9/2017	2/11/2008	4.470	123.787	115.523	108.962	104.117	101.002	99.887	99.733	99.629
2/12/2007	2/13/2012	2/12/2009	4.880	115.657	111.418	107.448	103.969	101.236	99.323	98.002	96.928
2/15/2007	2/15/2012	2/17/2009	4.990	116.127	111.873	107.879	104.352	101.532	99.531	98.143	97.040
2/20/2007	2/21/2017	2/20/2008	4.390	123.204	114.984	108.497	103.750	100.762	99.799	98.629	99.493
2/20/2007	2/21/2017	2/21/2012	4.850	126.985	118.062	110.783	105.044	100.395	96.402	92.785	89.431
2/23/2007	2/23/2017	2/25/2008	4.250	122.036	113.951	107.652	103.121	100.484	99.745	99.592	99.451
2/23/2007	2/23/2017	2/25/2008	4.350	122.880	114.695	108.257	103.568	100.676	99.775	99.607	99.465
2/28/2007	3/1/2010	2/28/2008	4.890	108.945	106.741	104.595	102.504	100.621	99.925	99.832	99.750
3/2/2007	3/2/2012	3/3/2008	4.490	114.169	109.918	106.008	102.732	100.503	99.734	99.533	99.366
3/9/2007	3/10/2014	3/9/2009	4.450	118.427	112.374	107.225	103.225	100.430	98.615	97.326	96.218
3/16/2007	3/16/2017	3/17/2008	4.090	120.732	112.800	106.724	102.468	100.178	99.555	99.343	99.138
3/20/2007	3/20/2012	3/20/2008	4.550	114.572	110.263	106.291	102.938	100.594	99.675	99.409	99.194
3/21/2007	3/21/2017	3/21/2008	4.220	121.867	113.773	107.497	103.006	100.394	99.574	99.328	99.110
3/23/2007	3/23/2017	3/23/2009	4.290	122.476	114.303	107.921	103.307	100.265	98.371	97.043	95.903
3/23/2007	3/23/2017	3/23/2009	4.290	122.476	114.303	107.921	103.307	100.265	98.371	97.043	95.903
3/23/2007	3/23/2017	6/23/2009	4.290	122.476	114.303	107.921	103.307	100.265	98.371	97.043	95.903
3/30/2007	3/30/2012	3/31/2008	4.670	115.164	110.801	106.633	102.664	100.156	99.608	99.364	99.122
4/2/2007	4/2/2012	4/2/2009	4.590	114.824	110.478	106.469	103.079	100.525	98.748	97.415	96.251

As of: 12/31/2007 Parallel-Shift Sensitivity Analysis for HLB-Option and Knockout Advances

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
4/9/2007	4/9/2009	1/9/2008	4.750	104.825	103.549	102.297	101.072	100.168	99.962	99.937	99.912
4/9/2007	4/10/2017	1/9/2008	4.150	121.316	113.277	107.095	102.726	100.393	99.941	99.913	99.886
4/12/2007	4/12/2017	1/14/2008	4.250	122.181	114.026	107.694	103.152	100.540	99.932	99.899	99.866
4/13/2007	4/13/2017	4/13/2009	4.450	123.901	115.537	108.922	104.054	100.764	98.666	97.204	95.984
4/18/2007	4/20/2009	1/18/2008	4.940	105.179	103.869	102.585	101.327	100.268	99.926	99.871	99.815
4/23/2007	4/23/2012	4/23/2008	4.650	115.263	110.850	106.774	103.308	100.795	99.630	99.214	98.911
4/23/2007	4/23/2014	4/23/2010	4.620	119.728	113.501	108.150	103.877	100.608	98.017	95.788	93.731
4/27/2007	4/27/2012	4/27/2009	4.550	114.869	110.454	106.390	102.960	100.378	98.566	97.186	95.966
4/27/2007	4/27/2017	4/28/2008	4.250	122.293	114.095	107.724	103.146	100.412	99.421	99.054	98.743
5/2/2007	5/2/2014	5/3/2010	4.590	119.514	113.298	107.986	103.757	100.513	97.921	95.678	93.603
5/4/2007	5/5/2014	5/4/2009	4.550	119.294	113.086	107.797	103.657	100.696	98.693	97.216	95.947
5/14/2007	5/16/2011	2/14/2008	4.500	111.968	108.526	105.266	102.396	100.409	99.812	99.683	99.560
5/18/2007	5/18/2017	5/19/2008	4.190	121.829	113.674	107.384	102.912	100.284	99.276	98.845	98.478
5/22/2007	5/22/2012	5/22/2009	4.690	115.656	111.155	107.002	103.465	100.742	98.779	97.280	95.972
5/22/2007	5/22/2012	5/22/2009	4.690	115.656	111.155	107.002	103.465	100.742	98.779	97.280	95.972
5/22/2007	5/22/2012	5/22/2009	4.710	115.743	111.240	107.082	103.532	100.796	98.817	97.310	96.000
5/22/2007	5/22/2012	5/22/2012	4.750	126.712	117.973	110.803	104.961	100.072	95.813	91.975	88.421
5/25/2007	5/25/2012	5/27/2008	4.650	115.508	111.003	106.853	103.335	100.771	99.501	98.975	98.585
5/29/2007	5/30/2017	2/29/2008	4.250	122.432	114.175	107.765	103.163	100.468	99.697	99.523	99.362
6/1/2007	6/1/2010	3/3/2008	4.990	110.145	107.678	105.284	102.996	101.004	99.934	99.627	99.461
6/1/2007	6/2/2014	3/3/2008	4.500	119.117	112.872	107.586	103.484	100.780	99.766	99.535	99.368
6/7/2007	6/7/2012	6/9/2008	4.940	116.870	112.299	108.052	104.367	101.521	99.821	99.063	98.617
6/7/2007	6/7/2017	6/8/2009	4.820	127.356	118.547	111.410	105.963	102.080	99.450	97.609	96.144
6/8/2007	6/9/2014	3/10/2008	4.730	120.611	114.249	108.778	104.419	101.337	99.909	99.528	99.339
6/8/2007	6/8/2017	3/10/2008	4.490	124.480	115.979	109.255	104.300	101.092	99.791	99.488	99.304
6/11/2007	6/12/2017	3/11/2008	4.490	124.513	116.000	109.265	104.300	101.083	99.771	99.458	99.263
6/18/2007	6/19/2017	3/18/2008	4.500	124.656	116.113	109.347	104.349	101.094	99.771	99.458	99.263
6/18/2007	6/19/2017	6/18/2009	4.840	127.639	118.776	111.583	106.079	102.139	99.457	97.571	96.071
6/19/2007	6/19/2017	6/19/2008	4.650	125.969	117.279	110.320	105.092	101.532	99.650	98.854	98.375
6/20/2007	6/20/2012	6/20/2008	4.890	116.772	112.169	107.898	104.207	101.372	99.707	98.953	98.477
6/20/2007	6/20/2012	6/20/2008	4.960	117.083	112.472	108.184	104.456	101.559	99.804	98.995	98.511
6/22/2007	6/22/2017	3/24/2008	4.500	124.681	116.128	109.354	104.349	101.087	99.771	99.458	99.263
6/26/2007	6/26/2012	6/26/2009	5.130	117.898	113.249	108.908	105.082	101.989	99.652	97.880	96.404
6/28/2007	6/28/2017	6/30/2008	4.500	124.729	116.159	109.370	104.350	101.041	99.409	98.701	98.214
7/13/2007	7/13/2012	7/14/2008	4.690	116.040	111.398	107.136	103.535	100.885	99.427	98.707	98.183
7/13/2007	7/13/2017	1/14/2008	4.290	122.894	114.539	108.050	103.386	100.619	99.928	99.892	99.856
7/13/2007	7/13/2017	7/13/2011	4.900	128.264	119.305	111.989	106.188	101.556	97.709	94.342	91.284
7/18/2007	7/18/2017	7/19/2010	4.780	127.245	118.381	111.221	105.729	101.619	98.455	95.838	93.506
7/19/2007	7/19/2012	7/20/2009	4.890	116.996	112.311	107.977	104.241	101.303	99.116	97.409	95.934
7/20/2007	7/20/2017	1/22/2008	4.290	122.947	114.571	108.064	103.383	100.599	99.890	99.835	99.779
7/24/2007	7/24/2012	7/24/2009	4.820	116.727	112.035	107.706	103.996	101.102	98.947	97.257	95.783
7/27/2007	7/27/2012	7/28/2008	4.590	115.712	111.042	106.774	103.200	100.630	99.249	98.544	97.994
7/27/2007	7/28/2014	7/28/2008	4.350	118.508	112.203	106.933	102.915	100.306	99.051	98.395	97.847
7/27/2007	7/27/2017	7/28/2008	4.180	122.039	113.766	107.406	102.890	100.170	98.948	98.305	97.761
7/27/2007	7/27/2017	7/28/2008	4.250	122.650	114.298	107.833	103.199	100.336	99.015	98.347	97.801
7/30/2007	1/30/2019	1/30/2008	3.990	122.383	113.451	106.852	102.367	100.182	99.810	99.728	99.645
7/31/2007	7/31/2017	1/31/2008	3.990	120.412	112.361	106.286	102.106	100.110	99.804	99.719	99.633
7/31/2007	7/31/2017	1/31/2008	3.990	120.412	112.361	106.286	102.106	100.110	99.804	99.719	99.633
7/31/2007	7/31/2017	7/31/2008	4.060	121.020	112.881	106.693	102.384	99.900	98.810	98.199	97.649
8/2/2007	8/4/2014	8/3/2009	4.490	119.339	112.976	107.621	103.480	100.517	98.418	96.762	95.287
8/2/2007	8/2/2017	8/4/2008	4.050	120.842	112.752	106.630	102.395	99.952	98.847	98.222	97.671
8/2/2007	8/2/2017	8/4/2008	4.150	121.712	113.499	107.220	102.802	100.163	98.945	98.285	97.730
8/6/2007	8/6/2012	8/6/2008	4.490	115.296	110.618	106.381	102.898	100.465	99.156	98.456	97.887
8/6/2007	8/6/2012	8/6/2008	4.490	115.296	110.618	106.381	102.898	100.465	99.156	98.456	97.887
8/9/2007	8/11/2014	8/9/2011	4.860	121.762	115.211	109.524	104.731	100.668	97.110	93.875	90.855
8/9/2007	8/9/2017	8/11/2008	3.990	120.369	112.337	106.293	102.150	99.806	98.750	98.124	97.557
8/9/2007	8/9/2017	8/11/2008	3.990	120.369	112.337	106.293	102.150	99.806	98.750	98.124	97.557
8/13/2007	8/13/2012	8/13/2009	4.590	115.812	111.100	106.808	103.232	100.511	98.489	96.841	95.353
8/16/2007	8/16/2017	2/19/2008	3.990	120.417	112.365	106.303	102.145	100.120	99.740	99.617	99.494
8/17/2007	8/17/2012	2/19/2008	4.150	113.828	109.175	105.053	101.823	100.095	99.754	99.629	99.503
8/17/2007	8/17/2012	8/18/2008	4.350	114.746	110.058	105.846	102.441	100.141	98.969	98.283	97.690
8/17/2007	8/17/2017	2/19/2008	4.000	120.511	112.443	106.362	102.183	100.129	99.735	99.609	99.484
8/20/2007	8/20/2010	8/20/2009	4.590	109.900	107.216	104.622	102.206	100.104	98.329	96.757	95.281
8/20/2007	8/20/2014	8/20/2009	4.250	117.920	111.603	106.368	102.425	99.724	97.809	96.225	94.752
8/20/2007	8/20/2014	8/20/2009	4.250	117.920	111.603	106.368	102.425	99.724	97.809	96.225	94.752
8/24/2007	8/24/2010	8/25/2008	4.460	109.591	106.899	104.302	101.909	100.045	98.981	98.297	97.688
8/24/2007	8/24/2012	2/25/2008	4.050	113.420	108.765	104.677	101.522	99.977	99.698	99.554	99.409
8/27/2007	8/27/2009	2/27/2008	4.630	106.255	104.586	102.952	101.360	100.152	99.773	99.620	99.467
8/28/2007	8/28/2014	8/28/2009	4.350	118.638	112.276	106.972	102.924	100.062	98.009	96.347	94.836
8/30/2007	8/30/2012	8/31/2009	4.390	115.035	110.303	106.038	102.557	99.960	98.012	96.382	94.876
8/30/2007	9/2/2014	2/29/2008	3.890	115.630	109.566	104.752	101.377	99.978	99.819	99.734	99.650
8/31/2007	8/31/2012	8/31/2009	4.370	114.950	110.218	105.957	102.486	99.903	97.966	96.340	94.833
9/4/2007	9/4/2012	9/4/2008	4.190	114.107	109.405	105.243	101.972	99.871	98.792	98.103	97.478
9/4/2007	9/4/2012	9/4/2008	4.220	114.246	109.538	105.362	102.063	99.924	98.821	98.124	97.498
9/4/2007	9/5/2017	9/4/2008	3.890	119.579	111.643	105.750	101.781	99.586	98.571	97.892	97.266
9/6/2007	9/7/2010	3/6/2008	4.160	108.916	106.199	103.595	101.278	99.946	99.615	99.434	99.254

As of: 12/31/2007 Parallel-Shift Sensitivity Analysis for HLB-Option and Knockout Advances

Start Date	Maturity Date	Next Call Date	Coupon	-300	-200	-100	Base	+100	+200	+300	+400
9/7/2007	9/7/2012	9/8/2008	4.090	113.665	108.975	104.854	101.672	99.691	98.689	98.010	97.378
9/10/2007	9/11/2017	3/10/2008	3.690	117.890	110.221	104.665	101.110	99.760	99.500	99.308	99.117
9/11/2007	9/13/2010	9/11/2009	4.430	109.693	106.949	104.307	101.878	99.802	98.036	96.443	94.924
9/11/2007	9/11/2017	3/11/2008	3.590	117.033	109.516	104.150	100.819	99.711	99.480	99.288	99.098
9/12/2007	9/12/2014	6/12/2008	3.690	114.427	108.482	103.878	100.793	99.401	98.867	98.437	98.014
9/13/2007	9/15/2014	9/14/2009	3.990	116.357	110.188	105.234	101.642	99.169	97.320	95.713	94.194
9/13/2007	9/13/2017	9/13/2010	3.990	120.505	112.411	106.297	101.874	98.564	95.837	93.388	91.086
9/14/2007	9/14/2011	9/15/2008	4.090	111.420	107.674	104.230	101.416	99.596	98.639	97.950	97.301
9/14/2007	9/14/2012	9/14/2010	4.390	115.115	110.349	106.053	102.433	99.418	96.786	94.362	92.056
9/17/2007	9/17/2012	9/17/2009	4.220	114.346	109.600	105.389	102.041	99.585	97.702	96.076	94.547
9/27/2007	9/27/2010	9/29/2008	4.250	109.317	106.539	103.872	101.470	99.708	98.687	97.958	97.275
9/27/2007	9/29/2014	9/27/2010	4.490	119.617	112.848	107.142	102.880	99.660	96.964	94.508	92.170
9/27/2007	9/27/2017	3/27/2008	3.650	117.642	109.989	104.467	100.961	99.668	99.377	99.142	98.908
9/28/2007	9/28/2010	9/29/2008	4.290	109.435	106.653	103.980	101.562	99.765	98.717	97.980	97.294
9/28/2007	9/28/2012	3/28/2008	3.850	112.692	107.993	103.961	100.994	99.988	99.980	99.971	99.963
10/3/2007	10/3/2012	1/3/2008	3.830	112.582	107.885	103.883	100.980	99.988	99.980	99.971	99.963
10/9/2007	10/9/2012	10/9/2009	4.400	115.314	110.438	105.912	102.300	99.801	97.936	96.285	94.711
10/11/2007	10/14/2014	4/13/2009	4.180	117.675	111.338	106.161	102.323	99.762	98.087	96.798	95.627
10/11/2007	10/11/2017	10/14/2008	3.990	120.586	112.454	106.347	102.163	99.722	98.487	97.692	96.976
10/15/2007	10/16/2017	10/15/2008	3.990	120.620	112.473	106.354	102.158	99.704	98.456	97.649	96.920
10/22/2007	10/22/2012	10/22/2008	3.990	113.469	108.679	104.525	101.370	99.426	98.378	97.593	96.853
10/25/2007	10/27/2014	10/25/2011	4.360	118.948	112.461	106.973	102.393	98.460	94.934	91.666	88.581
10/26/2007	10/26/2017	1/28/2008	3.390	115.484	108.215	103.181	100.369	99.864	99.792	99.721	99.649
10/29/2007	10/29/2009	10/29/2008	4.250	106.319	104.477	102.677	100.939	99.510	98.537	97.744	96.986
10/29/2007	10/29/2012	10/29/2009	3.990	113.519	108.709	104.536	101.327	98.985	97.114	95.429	93.815
11/2/2007	11/3/2014	11/2/2009	3.990	116.479	110.245	105.264	101.664	99.163	97.225	95.513	93.886
11/2/2007	11/3/2014	11/2/2010	4.190	117.781	111.415	106.198	102.125	98.877	96.094	93.553	91.149
11/5/2007	11/5/2014	11/5/2009	3.990	116.493	110.253	105.267	101.662	99.156	97.214	95.496	93.865
11/5/2007	11/6/2017	11/5/2012	4.390	124.229	115.532	108.494	102.718	97.785	93.401	89.386	85.645
11/6/2007	11/6/2017	5/6/2008	3.480	116.219	108.817	103.633	100.529	99.422	99.033	98.697	98.364
11/8/2007	11/9/2009	5/8/2008	4.100	106.224	104.357	102.532	100.795	99.688	99.233	98.887	98.545
11/9/2007	11/10/2014	11/9/2011	4.330	118.752	112.273	106.806	102.240	98.304	94.767	91.482	88.379
11/13/2007	11/14/2011	11/13/2008	3.760	110.558	106.684	103.242	100.620	99.046	98.093	97.283	96.498
11/13/2007	11/13/2012	11/13/2008	3.680	112.091	107.335	103.373	100.562	98.972	98.030	97.224	96.442
11/13/2007	11/13/2014	5/13/2008	3.350	112.423	106.698	102.508	100.067	99.301	98.932	98.578	98.226
11/19/2007	11/19/2014	11/19/2009	3.750	115.026	108.927	104.183	100.861	98.535	96.659	94.942	93.291
11/19/2007	11/19/2014	11/19/2009	3.750	115.026	108.927	104.183	100.861	98.535	96.659	94.942	93.291
11/19/2007	11/19/2014	11/21/2011	4.270	118.427	111.957	106.512	101.966	98.039	94.501	91.210	88.098
11/19/2007	11/20/2017	11/19/2012	4.290	123.203	114.373	107.409	101.810	97.029	92.739	88.789	85.078
11/20/2007	11/20/2017	11/22/2010	3.740	118.553	110.697	104.916	100.742	97.520	94.760	92.221	89.808
11/23/2007	11/24/2017	11/23/2011	3.990	120.383	111.787	105.489	100.783	96.901	93.423	90.176	87.089
11/23/2007	11/24/2017	11/23/2011	3.990	120.383	111.787	105.489	100.783	96.901	93.423	90.176	87.089
11/29/2007	11/29/2017	5/29/2008	2.950	111.904	105.443	101.340	99.541	99.042	98.642	98.245	97.852
11/30/2007	11/30/2017	11/30/2009	3.190	113.884	106.932	102.281	99.375	97.310	95.514	93.804	92.141
12/6/2007	12/6/2017	12/7/2009	3.250	114.330	107.303	102.577	99.608	97.502	95.682	93.956	92.279
12/7/2007	12/7/2012	12/7/2009	3.450	111.072	106.347	102.564	99.885	97.848	96.040	94.312	92.631
12/10/2007	12/10/2010	12/10/2009	3.870	108.809	105.839	103.045	100.645	98.627	96.802	95.058	93.362
12/10/2007	12/11/2017	12/10/2010	3.450	116.057	108.650	103.361	99.547	96.498	93.790	91.253	88.820
12/11/2007	12/11/2012	12/11/2009	3.760	112.607	107.762	103.702	100.705	98.484	96.605	94.849	93.151
12/14/2007	12/14/2010	12/15/2008	3.690	108.305	105.333	102.564	100.311	98.855	97.875	96.999	96.147
12/20/2007	12/20/2012	12/21/2009	3.600	111.880	107.062	103.109	100.246	98.101	96.235	94.470	92.756
12/20/2007	12/20/2012	12/21/2009	3.750	112.610	107.633	103.397	100.470	98.359	96.511	94.748	93.033
12/24/2007	12/26/2017	12/24/2012	3.990	120.619	112.109	105.475	100.095	95.417	91.171	87.219	83.500
12/26/2007	12/26/2012	12/26/2008	3.460	111.228	106.446	102.605	100.012	98.554	97.567	96.665	95.784
12/26/2007	12/26/2012	12/27/2010	3.960	113.688	108.744	104.440	100.880	97.848	95.102	92.514	90.034