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Supplementary material

Seasonal changes in chlorine and methoxyl content of leaves of deciduous trees and their impact on release of chloromethane and methanol at elevated temperatures

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Table S1. Climate data for 2004 and 2005 taken at Agri-Food Biosciences Institute

Data were recorded at the Hillsborough weather station, which is 20.5 km by air from the Crossgar site where leaf samples were collected

Month	Average dry bulb maximum temperature (°C)	Average dry bulb minimum temperature (°C)	Average air temperature (°C)	Average grass temperature (°C)	Average soil temperature (°C)
Jan-04	7.423	2.000	4.711	–0.106	5.600
Feb-04	8.117	0.886	4.502	–1.959	5.503
Mar-04	9.719	2.723	6.221	–0.061	5.677
Apr-04	12.197	4.633	8.415	3.727	8.770
May–04	15.574	6.097	10.835	2.935	11.800
Jun-04	18.287	9.703	13.995	8.333	14.200
Jul-04	17.790	9.687	13.739	7.452	14.929
Aug-04	18.997	10.89	14.944	9.429	15.894
Sep-04	16.340	8.530	12.435	7.220	14.413
Oct-04	11.723	4.700	8.211	2.787	11.168
Nov-04	10.187	5.097	7.642	4.213	9.667
Dec-04	9.210	2.645	5.927	0.990	7.558
Jan-05	8.635	2.673	5.650	0.374	6.552
Feb-05	7.154	1.146	4.150	–1.107	6.168
Mar-05	10.235	3.561	6.898	2.565	7.023
Apr-05	11.447	3.457	7.452	2.273	8.630
May–05	13.723	6.003	9.863	2.597	10.835
Jun-05	18.100	10.607	14.353	7.390	14.090
Jul-05	18.768	11.629	15.198	5.635	15.984
Aug-05	18.639	11.132	14.885	6.577	15.745
Sep-05	16.930	10.107	13.518	6.893	14.783
Oct-05	13.942	8.687	11.315	5.777	12.319
Nov-05	9.680	3.007	6.343	–0.073	9.010
Dec-05	8.016	2.929	5.473	–0.658	6.713

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Table S2. Climate data for 2004 and 2005 taken at Agri-Food Biosciences Institute

Data were recorded at the Hillsborough weather station, which is 20.5 km by air from the Crossgar site where leaf samples were collected

Month	Average wind speed ($m\ s^{-1}$)	Average number of hours sunshine	Average soil temp at 5-cm depth (°C)	Average soil temp at 10-cm depth (°C)	Average soil temp at 20-cm depth (°C)
Jan-04	0.557	1.439	3.945	4.345	4.774
Feb-04	0.375	3.693	3.500	4.052	4.593
Mar-04	0.559	4.358	4.565	4.690	4.929
Apr-04	0.554	5.140	8.567	7.733	7.950
May–04	0.367	6.323	12.694	11.184	11.152
Jun-04	0.449	5.083	15.443	14.020	13.567
Jul-04	0.481	4.790	15.613	14.258	13.681
Aug-04	0.387	4.571	15.548	14.897	15.203
Sep-04	0.607	4.143	13.447	13.143	13.473
Oct-04	0.448	3.554	8.881	9.235	9.923
Nov-04	0.408	1.493	8.100	8.393	8.863
Dec-04	0.415	1.368	5.894	6.335	6.761
Jan-05	0.684	1.345	5.319	5.635	6.013
Feb-05	0.448	2.614	4.336	4.768	5.400
Mar-05	0.403	2.848	6.145	6.216	6.339
Apr-05	0.554	4.993	7.750	7.427	7.597
May–05	0.526	5.703	10.839	9.835	9.719
Jun-05	0.305	4.560	14.440	14.47	13.833
Jul-05	0.335	3.510		15.248	16.781
Aug-05	0.481	4.281		14.348	14.439
Sep-05	0.480	4.203		12.910	13.387
Oct-05	0.574	2.332		10.742	11.148
Nov-05	0.377	2.783	3.400	6.480	7.223
Dec-05	0.239	2.732	4.952	5.594	5.790

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Table S3. Climate data for 2004 and 2005 taken at Agri-Food Biosciences Institute

Data were recorded at the Hillsborough weather station which is 20.5 km by air from the Crossgar site where leaf samples were collected.

Month	Average soil temp at 30-cm depth (°C)	Average soil temp at 100-cm depth (°C)	Average daily rainfall (mm)	Number of days airfrost	Number of days ground frost
Jan-04	5.600	7.323	3.745	6	11
Feb-04	5.503	6.872	1.656	14	18
Mar-04	5.677	6.361	2.429	6	13
Apr-04	8.770	8.016	3.941		1
May–04	11.800	10.368	2.350		7
Jun-04	14.200	12.490	3.877		
Jul-04	14.929	13.594	1.796		1
Aug-04	15.894	14.567	7.036		
Sep-04	14.413	14.013	4.721		
Oct-04	11.168	12.268	5.888	1	3
Nov-04	9.667	10.670	2.663	2	6
Dec-04	7.558	9.081	2.068	5	12
Jan-05	6.552	7.852	4.176	5	15
Feb-05	6.168	7.393	2.311	13	18
Mar-05	7.023	7.110	1.925	8	8
Apr-05	8.630	8.497	3.033	3	6
May–05	10.835	9.871	4.162		10
Jun-05	14.090	11.897	2.664		2
Jul-05	15.984	14.081	4.031		1
Aug-05	15.745	14.510	1.555		1
Sep-05	14.783	14.343	2.460		2
Oct-05	12.319	12.745	3.735		3
Nov-05	9.010	10.840	1.540	5	16
Dec-05	6.713	8.426	3.590	7	17

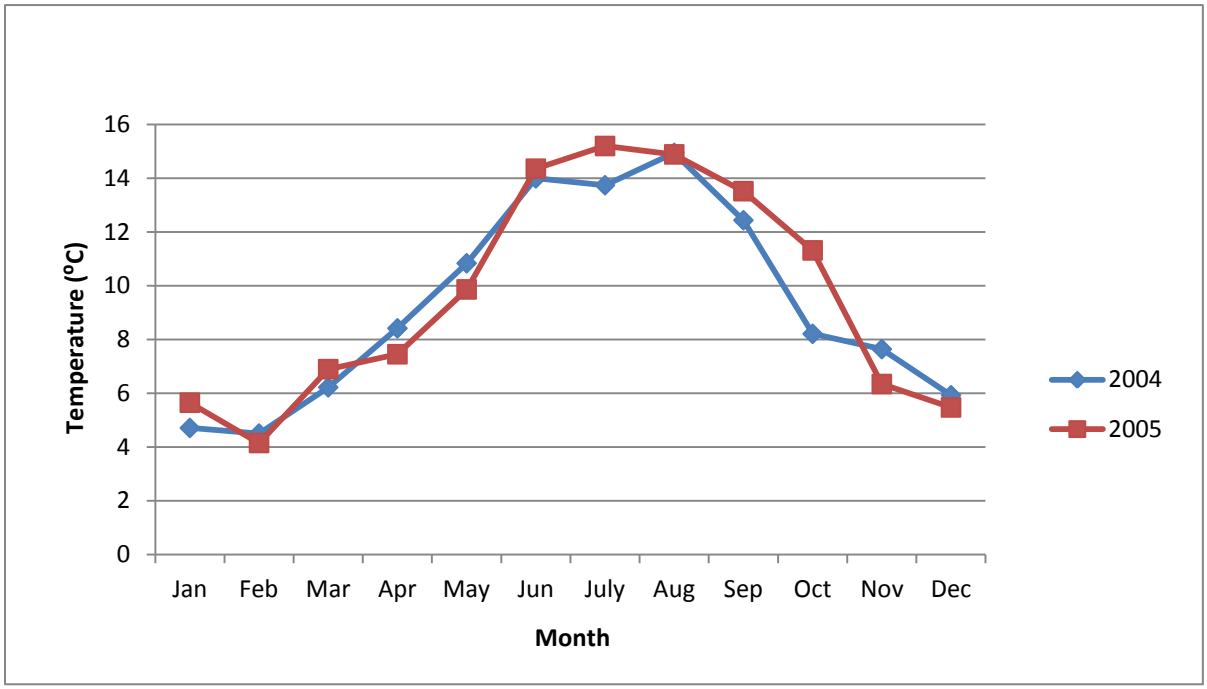

Fig. S1. Monthly average air temperature for 2004 and 2005.

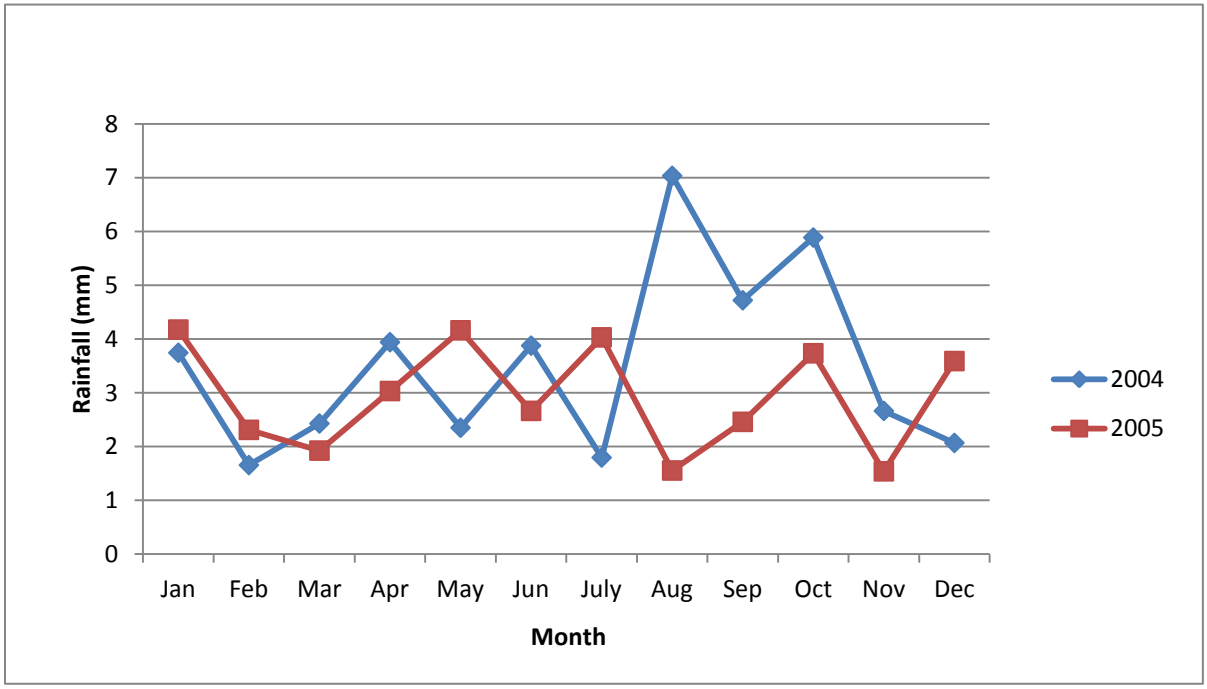

Fig. S2. Monthly average daily rainfall for 2004 and 2005.