

Table 1. Correlation between abiotic factors and *P. xylostella* and its parasites (2004–2005)

Date	Max. Temp.		Min. Temp.		Avg.Temp.		Max. R.H.		Min. R.H.		Avg. R.H.		Rainfall	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
01-07-2004	-0.26	0.140	0.12	-0.080	-0.22	0.12	-0.36	0.18	0.17	0.23	0.17	0.23	-0.714**	0.35
10-07-2004	-0.09	-0.210	0.07	-0.05	-0.02	-0.15	-0.15	0.03	-0.05	0.44	-0.210	0.32	0.43	0.27
20-07-2004	-0.660*	-0.130	-0.05	0.08	-0.43	-0.02	-0.39	0.3	753**	-0.14	-0.14	0.32	-0.13	-0.13
30-07-2004	-0.39	0.04	0.03	-0.34	-0.21	-0.17	-0.35	-0.24	-531*	-0.42	0.940	0.16	-0.070	-0.13
09-08-2004	0.710**	0.830**	-0.29	-0.170	0.3	0.509*	0.25	-0.23	.643*	0.44	0.14	0.32	-0.15	-0.31
19-08-2004	-0.35	-0.260	-0.46	0.050	-0.603*	-0.15	0.17	-0.22	0.45	0.41	0.39	0.16	-0.3	0.19
29-08-2004	0.22	0.420	-0.11	0.08	0.1	0.38	-0.14	-0.24	0.21	0.11	0.585*	-0.43	0.25	0.15
08-09-2004	0.574*	0.714**	0.684*	0.790**	0.717**	0.855**	-815**	-0.862**	-0.2	-0.480	0.618*	0.26	-0.36	0.36
18-09-2004	-0.2	-0.39	-0.46	-0.36	-0.665*	-0.701*	0.05	0.16	-507*	-0.510	0.41	0.17	-0.36	-0.12
28-09-2004	0.21	0.548*	-0.02	-0.04	0.16	0.44	-0.36	-0.46	-0.44	-596*	0.14	0.01	-0.41	0.26
08-10-2004	0.526*	0.605*	-0.37	-0.520*	0	-0.08	-0.46	-0.5	-0.04	0.05	0.701*	-873**	-0.37	0.330
18-10-2004	0.03	-0.16	0.537*	0.518*	0.47	0.37	-0.649*	-0.16	.660*	0.240	-0.38	-0.33	-	-
28-10-2004	0.04	-0.22	-0.05	0.14	-0.01	-0.06	-0.12	-0.31	0.47	0.04	-0.584*	0.775**	-	-
07-11-2004	0.16	0.44	-0.822**	-0.470	-537*	-0.08	-0.755**	-0.350	0.37	0.2	-0.18	-0.11	-	-
17-11-2004	0.25	-0.12	0.33	0.531*	0.34	0.15	0.11	0.12	0.24	0.2	-0.08	0.050	-	-
27-11-2004	0.25	-0.12	-0.23	-0.22	-0.21	0.17	0.17	0.27	0.23	0.15	0.4	-0.09	-	-
07-12-2004	-0.09	0.29	-0.18	-0.18	-0.29	-0.35	-0.811**	-0.806**	-0.49	-0.550*	-0.44	-0.18	-	-
17-12-2004	-0.23	-0.3	-0.26	-0.4	-0.1	-0.26	0.558*	0.671*	0.39	0.49	0.31	0.28	-	-
27-12-2004	0.18	0.04	-0.22	-0.36	-0.551*	-0.610	0.518*	0.33	-0.09	-0.19	-0.13	0.29	-	-
06-01-2005	-0.48	-0.38	-0.24	-0.3	-0.582*	-601*	-0.31	-0.07	0.37	0.120	0.801**	0.819**	-	-
16-01-2005	-0.44	-617**	-0.25	-0.31	-0.41	-0.551*	0.496	0.15	-0.54	-0.47	0.500*	0.613*	-	-
26-01-2005	0.704*	0.584*	0.15	-0.41	0.563*	0.45	0.13	-0.13	-0.4	-0.22	0.48	0.22	-	-
05-02-2005	0.04	-0.720**	-0.11	-0.29	0.14	-0.811**	-0.25	-0.524*	-0.05	0.671*	0.23	0.1	-	-
15-02-2005	-0.26	-0.25	-0.44	0.41	-0.35	-0.44	0.697*	-0.12	.702*	0.13	0.24	0.33	-	-
25-02-2005	0.08	-0.2	0.39	0.505*	-0.16	0.04	-0.25	0.682*	-0.42	-0.030	-0.24	0.25	-	-
07-03-2005	0.41	-0.33	0.53	0.515*	0.39	-0.05	-0.19	0.588*	-0.2	-0.06	-0.24	0.26	-	-
17-03-2005	0.01	-572*	0.06	0.24	-0.29	0.11	-0.46	-0.05	-0.34	0.719**	0.26	0.010	-	-
27-03-2005	-0.44	-0.14	0.16	0.22	0.120	0.16	-0.628*	-0.11	-0.29	0.579*	0.730**	0.535*	-	-
05-04-2005	0.05	0.04	0.46	0.06	0.618*	0.13	0.820**	0.13	-0.12	0.22	0.33	0.39	-	-
15-04-2005	0.180	0.080	0.23	-0.05	0.3	0.13	-0.45	0.510	-0.07	-0.21	0.630*	-0.665*	-	-

A – No. of DBM larvae and pupae/plant; B – percent parasitized; ** significant at 0.01 level; * significant at 0.05 level
 Max. – Maximum; Min. – Minimum; Avg. – Average; Temp. – Temperature; R.H. – Relative Humidity

Table 2. Correlation between abiotic factors and *P. xylostella* and its parasites (2005–2006)

Date	Max. Temp.		Min. Temp.		Avg. Temp.		Max. R.H.		Min. R.H.		Avg. R.H.		Rainfall	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
01-07-2005	-0.11	-0.13	0.17	0.29	0.03	0.1	0.44	0.04	0	0.070	-0.21	0.23	-0.2	0.22
10-07-2005	-0.09	-0.19	0.49	-0.150	0.23	-0.24	-0.04	-0.18	-0.15	0.06	-0.28	0	-0.29	0.170
20-07-2005	-0.573*	-0.18	0.060	-0.06	-0.29	-0.15	-0.562*	0.260	0.06	0.14	-0.1	0.25	-0.13	0.03
30-07-2005	0.32	0.39	0.470	0.05	0.46	0.25	0.17	0.08	-0.370	-0.17	-0.49	-0.27	-0.31	0.26
09-08-2005	-0.11	0.44	0.01	-0.070	0.380	0.3	-0.04	0.41	0.2	-0.07	0.100	-0.05	-0.210	0.24
19-08-2005	0.22	0.22	0.07	0.3	0.15	0.517*	-0.24	-0.668*	-0.551*	-0.14	-0.576*	-0.3	-0.592(*)	-0.34
29-08-2005	0.01	-0.07	0.05	0.26	0.24	0.48	-0.1	0.3	0.05	-0.05	0.010	-0.1	-0.12	0.19
08-09-2005	0.514*	0.506*	0.685*	0.36	0.686*	0.49	0.25	0.03	0.13	0.06	-0.47	-0.330	-0.24	-0.17
18-09-2005	0.16	0.46	0.24	0.1	0.05	-0.2	-0.150	0.33	-0.607*	-0.46	-0.28	-0.460	-0.552*	0.541*
28-09-2005	0.21	0.31	-0.08	0.05	0.25	-0.01	0.02	0.5	-0.24	-0.06	-0.3	-0.090	0.140	0.08
08-10-2005	0.520	0.54	-0.26	-0.603*	0.340	-0.21	0.05	0.17	0.15	-0.13	0.28	-0.05	-0.935**	0.573*
18-10-2005	-0.21	-0.43	-0.47	0.13	-0.44	0.1	0.32	-0.45	-0.3	0	-0.14	0.030	-0.449	0.34
28-10-2005	0.31	-0.04	-0.27	-0.39	-0.29	0.05	0.19	-0.39	-0.4	-0.4	-0.4	-0.43	-	-
07-11-2005	0.687*	0.507*	-0.26	0.21	-0.02	0.4	-0.14	0.49	-0.150	0	-0.23	0.04	-	-
17-11-2005	-0.03	0.03	0.528*	0.33	0.26	0.2	-0.526*	0.874**	-0.19	-0.15	-0.17	-0.17	-	-
27-11-2005	-0.16	0.32	0.04	-0.09	-0.09	0.16	-0.29	0.35	0.08	-0.12	0.080	-0.060	-	-
07-12-2005	-0.578*	-0.33	0.28	-0.020	-0.1	-0.23	-0.26	0.25	0.1	-0.29	-0.09	-0.721**	-	-
17-12-2005	-0.03	0.15	-0.4	-0.34	-0.29	-0.18	0.01	0.280	0.527*	0.29	0.581*	0.46	-	-
27-12-2005	-0.36	-0.16	-0.19	-0.3	-0.603*	-0.47	-0.579*	0.44	-0.26	-0.23	-0.04	-0.27	-	-
06-01-2006	-0.35	-0.613*	-0.2	-0.22	-0.330	-0.504*	0.44	0.04	-0.36	-0.01	-0.44	0.16	-0.01	0.24
16-01-2006	0.27	0.780**	-0.110	-0.693*	0.32	0.663*	-0.04	-0.18	-0.12	-0.647(*)	-0.13	-0.547*	-	-
26-01-2006	0.15	-0.190	0.603*	-0.33	0.32	0.695*	-0.562*	0.260	0.06	-0.06	0.070	0	-	-
05-02-2006	0.380	-0.23	0.15	-0.39	0.35	-0.37	0.17	0.08	0.12	.641(*)	0.37	-0.17	-	-
15-02-2006	-0.03	0.03	-0.35	0.735**	-0.37	0.22	-0.04	0.41	0.34	-0.19	0.270	-0.33	-	-
25-02-2006	0.09	-0.22	0.17	0.4	0.44	0.35	-0.24	-0.778*	-0.340	0.27	-0.29	0.49	-0.23	0.18
07-03-2006	0.47	-0.04	0.27	0.09	0.25	-0.24	-0.1	0.3	0.13	0.160	-0.21	0.594(*)	-	-
17-03-2006	0.160	-0.43	0.07	0.030	0.13	0.09	0.25	0.03	-0.08	0.584*	-0.34	0.53	-0.03	0.09
27-03-2006	0.08	0.07	-0.03	0.616*	0.01	0.584*	-0.150	0.33	0.15	0.25	-0.23	0.27	-	-
05-03-2006	0.060	0.4	-0.32	-0.21	-0.31	-0.24	0.02	0.5	-0.13	-0.16	-0.01	0.22	-	-
15-04-2006	-0.06	-0.09	0.01	-0.37	0.07	-0.2	0.05	0.17	-0.47	0.170	-0.637*	0.46	-	-

A – No. of DBM larvae and pupae/plant; B – percent parasitized; ** significant at 0.01 level; * significant at 0.05 level
 Max. – Maximum; Min. – Minimum; Avg. – Average; Temp. – Temperature; R.H. – Relative Humidity

