

Supplementary.

Table S1. Total rainfall (mm), and Growing Degree Days (°C) measured near the experimental field from 1 April to 15 October (for maize).

	Rainfall (mm)	GDDs (°C)
<i>Field 1(To)</i>	624	2049
<i>Field 2 (To)</i>	943	2048
<i>Field 3 (Bg)</i>	649	2557
<i>Field 4(Bg)</i>	627	2250
<i>Field 5(Lo)</i>	496	2224
<i>Field 6 (Ro)</i>	313	2183
<i>Field 7(Ro)</i>	449	2183
<i>Field 8(Ud)</i>	431	2132
<i>Field 9(Mo)</i>	401	2204

GDDs, Growing Degree Days. °Accumulated growing degree days during period 1 April 2018- 30 October 2018 using a 8,5°C base. Source: ARPA Regional Agency for Environmental Protection of Lombardy, Piedmont, Veneto, Friuli VG, Emilia Romagna).

Table S2. Total rainfall (mm), and Growing Degree Days (°C) measured near the experimental field from 1 October to 30 June (for durum wheat).

	Rainfall (mm)	GDDs (°C)
<i>Field 1(Ri))</i>	938	2417
<i>Field 2 (Gr)</i>	466	3253
<i>Field 3 (Rome)</i>	708	3195
<i>Field 4(Ar)</i>	536	2869
<i>Field 5(Vt)</i>	556	2937
<i>Field 6 (Vt)</i>	589	3612
<i>Field 7(Gr)</i>	494	3537
<i>Field 8(Ct)</i>	448	3775

GDDs, growing degree days. °Accumulated growing degree days during period 1 October 2018-30 June 2019 using a 0,5°C base. Source: ARPA Regional Agency for Environmental Protection of Latium, Tuscany, Sicily).

Table S3. Total rainfall (mm), and Growing Degree Days (°C) measured near the experimental field from 1 October to 30 June (for common wheat).

	Rainfall (mm)	GDDs (°C)
<i>Field 1(Vc)</i>	521	2792
<i>Field 2 (Lo)</i>	502	2946
<i>Field 3 (Mo)</i>	435	2786
<i>Field 4(Gr)</i>	466	3253
<i>Field 5(Fg)</i>	302	3777

GDDs, growing degree days. °Accumulated growing degree days during period 1 October 2018-30 June 2019 using a 0,5°C base. Source: ARPA Regional Agency for Environmental Protection of Piedmont, Lombardy, Emilia Romagna, Tuscany e Apulia.

Table S4. Comparison between FB and DON results obtained using Elisa technique and chromatographic analysis.

FBs		DON	
Elisa	LC-MS/MS	Elisa	GC-MS
1180	1076	103	87
3510	3408	614	522
1930	1815	4	<LOD
420	343	<LOD	<LOD
<LOD	<LOD	1399	1250
<LOD	<LOD	181	140
2380	2166	153	119
2020	1858	236	184
1000	922	7	<LOD
2120	1931	4	<LOD
1660	1460	<LOD	<LOD
6610	6288	73	55
4660	4474	247	203
11890	10925	408	356
7870	7459	88	74
11800	10858	1773	1608
2930	2803	4200	3940
2570	2410	4085	3851
21320	21015	1741	1591
210	188	<LOD	<LOD
1040	916	412	357
6190	5895	304	274
3560	3258	86	61
488	396	4152	3820
29633	28551	2630	2385