

Table S1. Least squares means of spring barley and spring wheat yield loss differences between different weed biomass classes (lower minus higher class as 'Mean diff'), their standard error (SE) and P value (P). P values of multiple comparisons were calculated using the method of Tukey-Kramer ($\alpha = 0.05$). Positive values of the differences of the means in yield indicate greater yield loss as weed biomass class increases.

Weeds biomass class	Class comparison	Spring barley			Spring wheat		
		Mean diff	SE	P	Mean diff	SE	P
1	2	-96	80	0,892	-95	157	0,994
1	3	-74	87	0,973	-169	158	0,928
1	4	-106	98	0,928	-155	147	0,928
1	5	-630	116	<0.001	-350	149	0,232
2	3	22	87	0,998	-74	125	0,994
2	4	-10	97	0,998	-60	117	0,995
2	5	-533	118	0,000	-255	116	0,300
3	4	-31	91	0,995	14	108	0,998
3	5	-555	114	<0.001	-181	110	0,654
4	5	-524	121	0,001	-195	94	0,377

Table S2. Least squares means of spring barley yield loss differences between net blotch, scald and powdery mildew severity classes (lower minus higher severity class as 'Mean diff'), their standard error (SE) and P value (P). P values of multiple comparisons were calculated using the method of Tukey-Kramer ($\alpha = 0.05$). Positive values of the differences of the means in yield indicate greater yield loss as the disease severity class increases.

Disease severity class	Class comparison	Net blotch			Scald			Powdery Mildew		
		Mean diff	SE	P	Mean diff	SE	P	Mean diff	SE	P
1	2	33	255	1,000	347	179	0,322	-180	385	0,654
1	3	-206	267	0,938	243	223	0,810	missing value	missing value	missing value
1	4	-153	258	0,975	186	199	0,879	missing value	missing value	missing value
1	5	-627	266	0,148	-288	206	0,634	missing value	missing value	missing value
2	3	-239	142	0,454	-104	169	0,971	missing value	missing value	missing value
2	4	-186	125	0,573	-161	134	0,751	missing value	missing value	missing value
2	5	-660	141	0,000	-635	145	0,001	missing value	missing value	missing value
3	4	52	148	0,997	-57	190	0,998	missing value	missing value	missing value
3	5	-422	162	0,086	-531	197	0,082	missing value	missing value	missing value
4	5	-474	147	0,020	-474	167	0,061	missing value	missing value	missing value

Table S3. Least squares means of spring wheat yield loss differences between leaf blotch disease, powdery mildew and leaf rust severity classes (lower minus higher severity class as 'Mean diff'), their standard error (SE) and P value (P). P values of multiple comparisons were calculated using the method of Tukey-Kramer ($\alpha = 0.05$). Positive values of the differences of the means in yield indicate greater yield loss as the disease severity class increases.

Disease severity class	Class comparison	Leaf blotch disease			Powdery Mildew			Leaf rust		
		Mean diff	SE	P	Mean diff	SE	P	Mean diff	SE	P
1	2	-788	263	0,022	-259	159	0,255	-247	213	0,498
1	3	-807	256	0,014	-234	177	0,402	missing value	missing value	missing value
1	4	-745	268	0,038	missing value	missing value	missing value	-947	279	0,014
2	3	-19	114	0,998	25	124	0,978	missing value	missing value	missing value
2	4	42	140	0,990	missing value	missing value	missing value	-700	310	0,100
3	4	61	126	0,962	missing value	missing value	missing value	missing value	missing value	missing value