

Online Resource 6

Article title: Mapping of quantitative adult plant field resistance to leaf rust and stripe rust in two European winter wheat populations reveals co-location of three QTL conferring resistance to both rust pathogens.

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Duncan multiple range test for mean of stripe rust severity (YrS) of subpopulation CF (31 RIL) tested at Cambridge/GB and Ickleton/GB. Classes were differentiated by number of resistance improving alleles at *QYr.ifa-2BL* and *QYr.ifa-3BS*

Number of QTL	Number of RIL	Mean	Std Dev	Duncan Grouping ^a
none	8	55.8	9.3	A
1	15	29.1	7.9	B
2	8	14.1	8.2	C

^a means of QTL groups with different letters are significantly different at $p < 0.05$

Duncan multiple range test for mean stripe rust severity (YrS) of subpopulation CA (31 RIL) tested at Cambridge/GB and Ickleton/GB. Classes were differentiated by number of resistance improving alleles at *QYr.ifa-2AL*, *QYr.ifa-2BL*, *QYr.ifa-2AS* and *QYr.ifa-3BS*

Number of QTL	Number of RIL	Mean	Std Dev	Duncan Grouping ^a
none	2	40.0	7.1	A
1	8	25.9	3.4	B
2	11	21.1	6.6	BC
3	8	16.6	3.5	C
4	2	17.5	3.5	C

^a means of QTL groups with different letters are significantly different at $p < 0.05$