Article title: “Mapping and validation QTL which confer partial resistance to broadly virulent post-2000 North American races of stripe rust in hexaploid wheat”

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Parental phenotypes

Typical moderately susceptible reactions of the population parents to current California races of stripe rust, as observed in the field (pictures taken during 2009 field season):

UC1110  PI610750

11-point scale

Along with disease severity (% area of leaf affected), the population of RILs was scored using an 11-point scale intended to take into account both infection type (resistant → susceptible) and severity (% leaf area affected) in a single score. The following pictures typify the levels of this 11-point scale (pictures taken during the 2010 field season). See next page for descriptions.
Descriptions of levels

1  *Resistant I*  No flecking, striping, or sporulation of any kind.
2  *Resistant II*  Flecking, but no striping or sporulation of any kind.
3  *Moderately resistant I*  Necrotic striping covering < 5% of the leaf area, with no to minimal sporulation.
4  *Moderately resistant II*  Necrotic striping covering < 5% of the leaf area, with powdery sporulation.
5  *Moderately resistant/moderately susceptible I*  Necrotic striping covering 5-30% of the leaf area, with no to minimal sporulation.
6  *Moderately resistant/moderately susceptible II*  Necrotic striping covering 5-30% of the leaf area, with powdery sporulation.
7  *Moderately susceptible I*  Necrotic striping covering > 30% of the leaf area, with no to minimal sporulation.
8  *Moderately susceptible II*  Necrotic striping covering > 30% of the leaf area, with powdery sporulation.
9  *Susceptible I*  Abundant sporulation without preceding necrosis, covering < 30% of leaf area.
10 *Susceptible II*  Abundant sporulation without preceding necrosis, covering 30-70% of leaf area.
11 *Very Susceptible*  Abundant sporulation without preceding necrosis, covering >70% of leaf area.