

Table S4. Quantitative trait nucleotides (QTNs) associated with powdery mildew (PM) ratings identified using two single locus and seven multi-locus models from seven phenotype data sets. No QTNs were detected by MLM.

Statistical Model	No. of QTL/QTNs Identified	Average R^2 (%)	Range of R^2 (%)
GLM	9	11.34	0.65 – 27.62
FASTmrEMMA	68	4.24	0.02 – 21.28
FASTmrMLM	105	5.25	0.02 – 29.67
ISIS EM-BLASSO	83	3.66	0.02 – 17.28
mrMLM	72	4.74	0.02 – 26.93
pKWmeB	90	3.19	0.01 – 26.93
pLARmeB	108	5.79	0.02 – 30.20
FarmCPU	15	9.07	0.04 – 27.62
Total unique	349	4.53	0.01 – 30.20