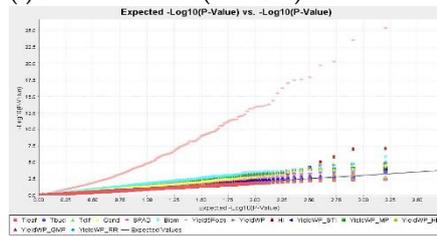


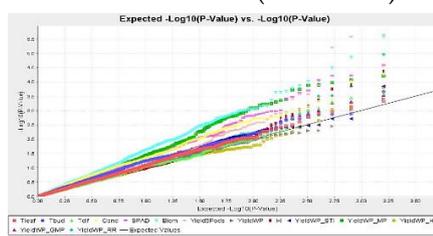
Figure S1. Comparison of six models for variation of observed p value (x-axes) against the expected p values (y-axes) using general linear model (GLM) and mixed linear model (MLM).

GLM: QQ plots

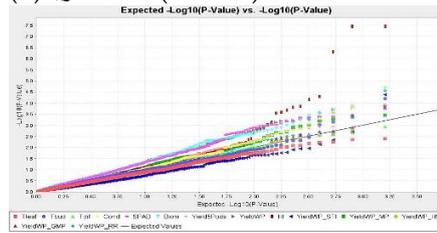
(i) Naïve model (control)



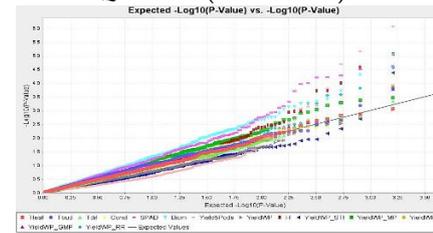
Naïve model (heat stress)



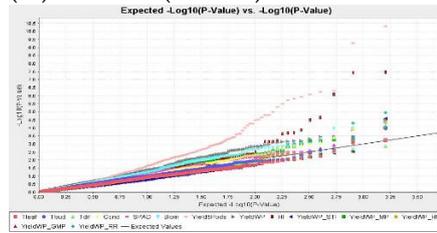
(ii) Q model (control)



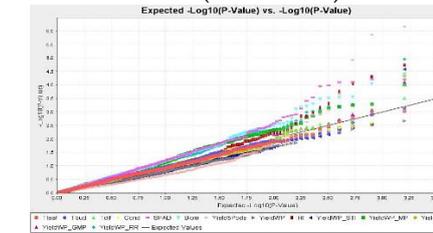
Q model (heat stress)



(iii) P model (control)

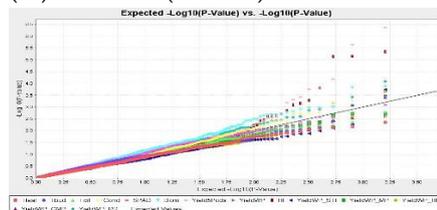


P model (heat stress)

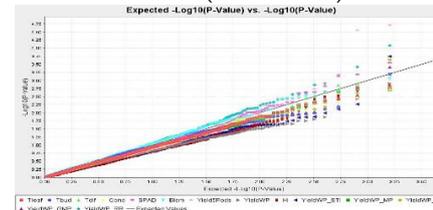


MLM: QQ plots

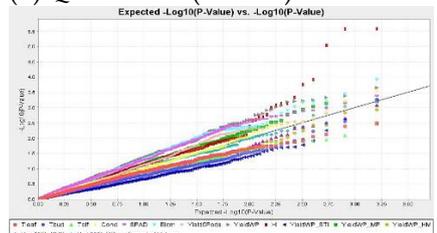
(iv) K model (control)



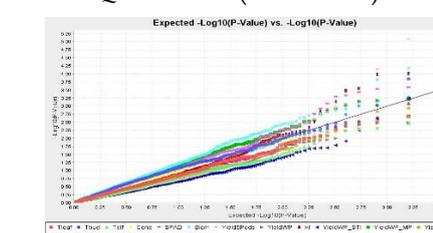
K model (heat stress)



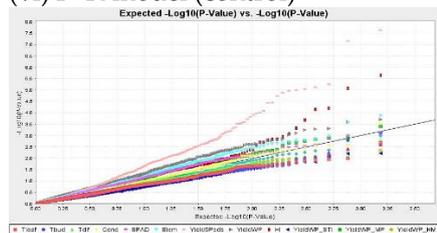
(v) Q+K model (control)



Q+K model (heat stress)



(vi) P+K model (control)



P+K model (heat stress)

