

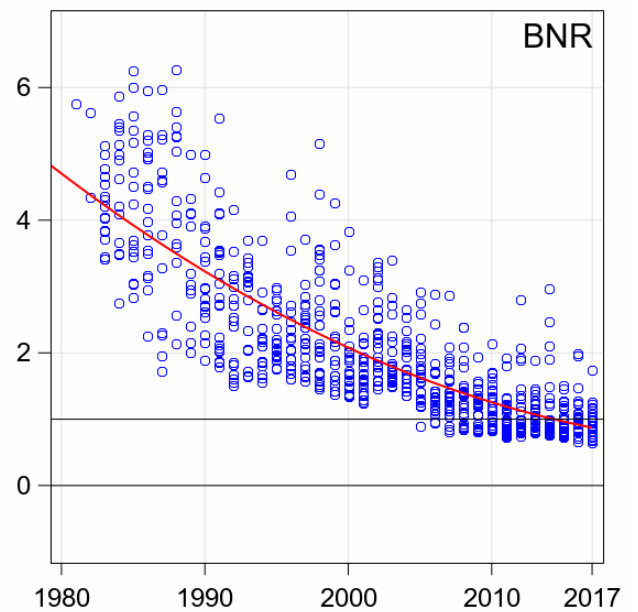
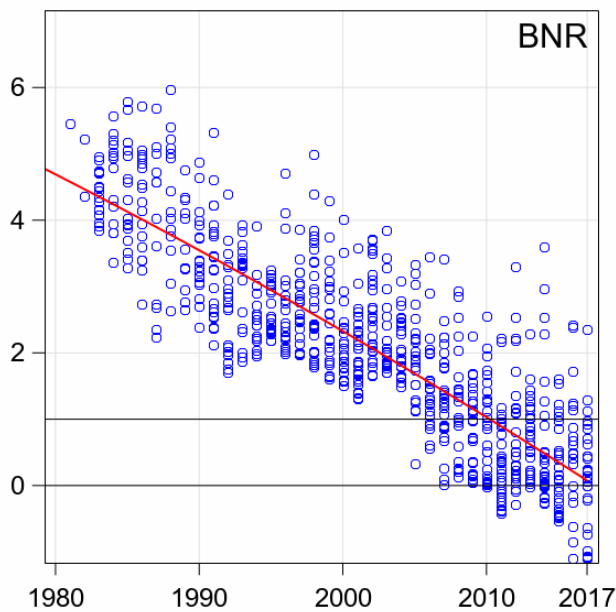
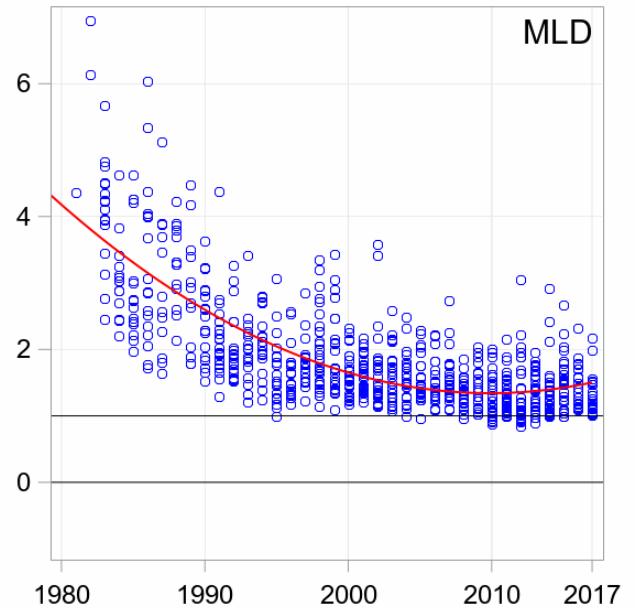
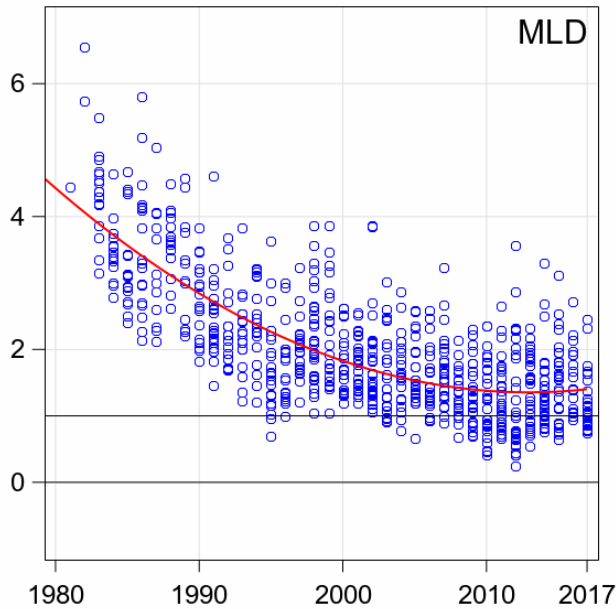
Supplementary Material SM7

In this Supplementary Material we compare least square estimates for variety means with back-transformed least square means of logit transformed observations by considering the genotype effect G_i in Eq. (1a) as fixed.

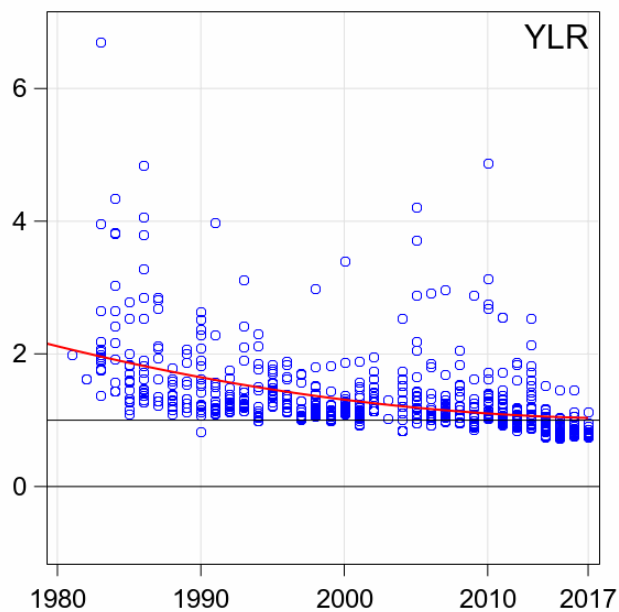
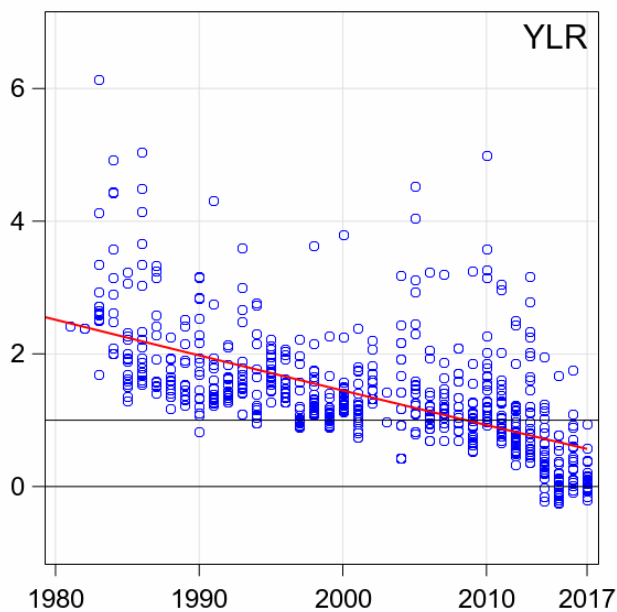
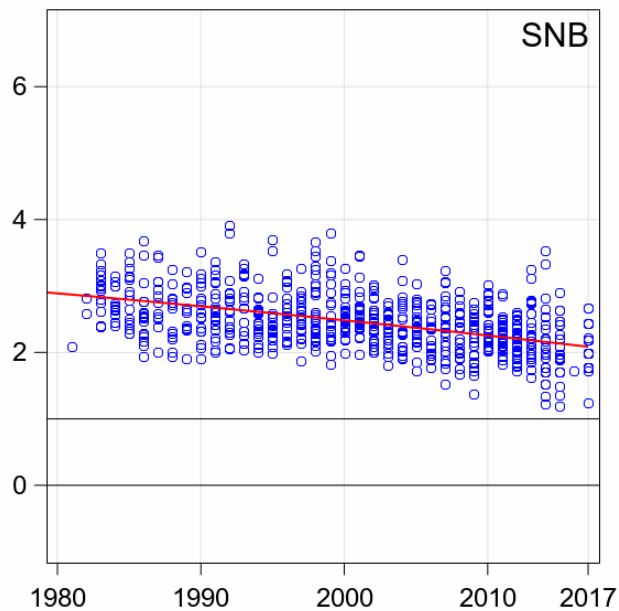
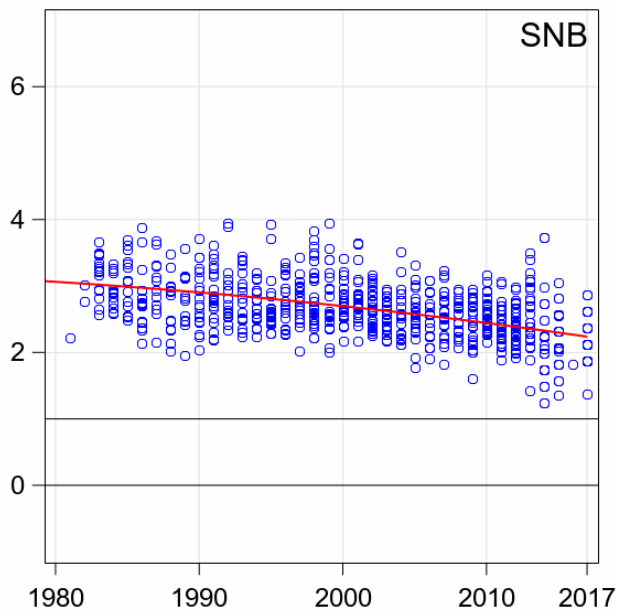
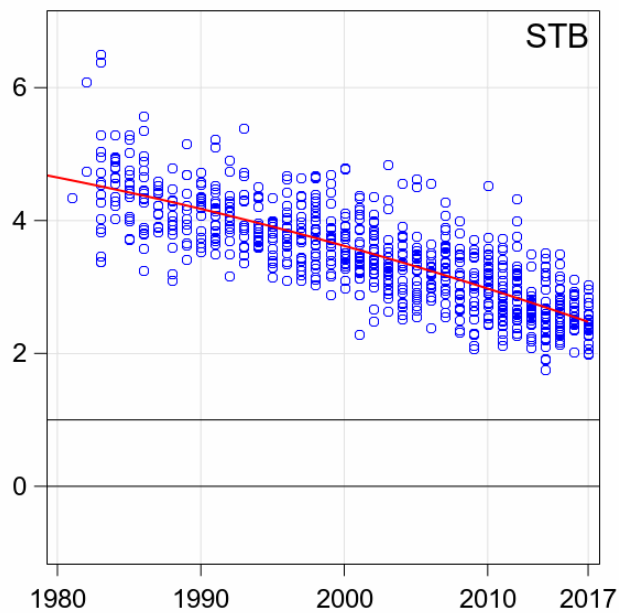
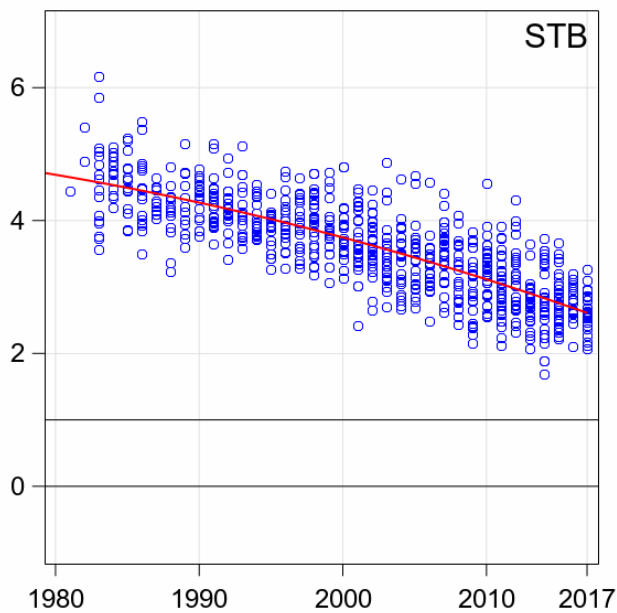
Least square means of varieties

a) untransformed

b) logit back-transformed



Disease susceptibility I1



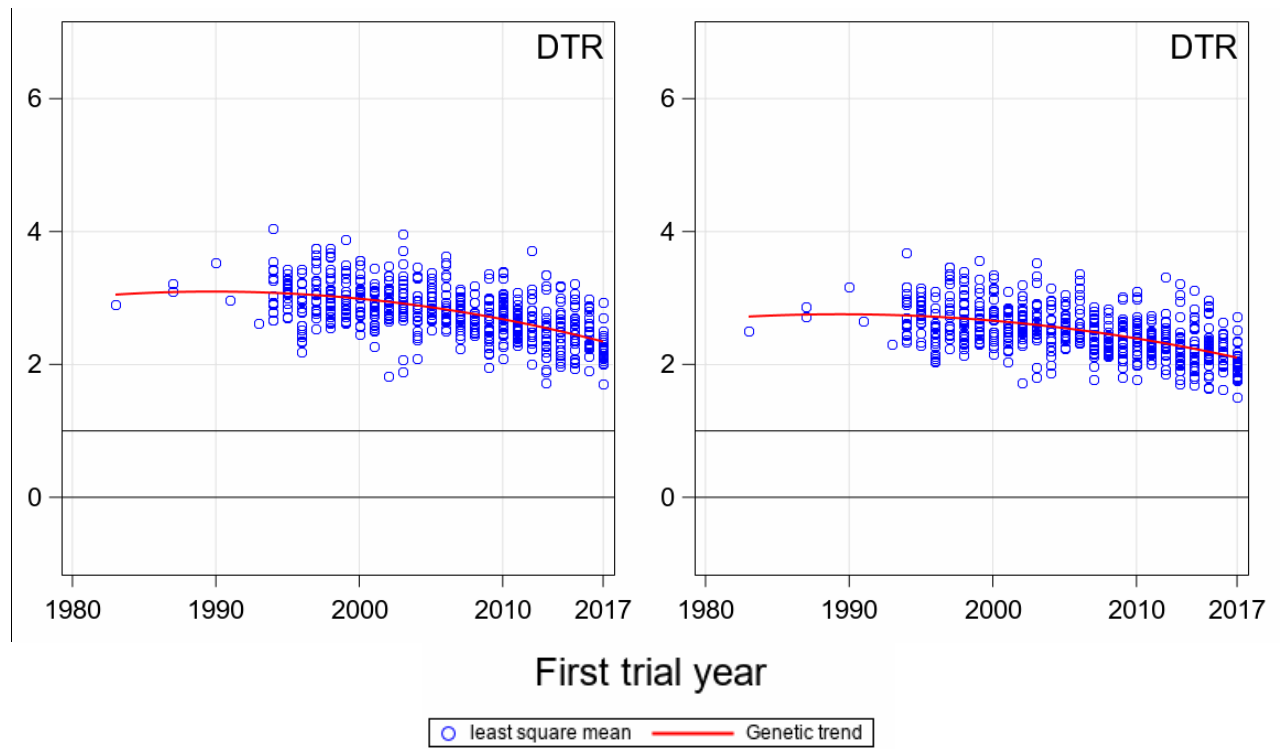


Fig. S4 Variety disease susceptibility (VSc) I1 plotted against first trial year. a) left column: least square means.
b) right column: back transformed least square means estimated from logit transformed observed severity scores
MLD Mildew; *BNR* Brown rust; *STB* Septoria tritici blotch; *SNB* Septoria nodorum blotch;
YLR Yellow rust; *DTR* Tan spot; *I1* Intensity 1;