**Fig. S1. Field yield data**

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Table S1. *Partial ROC results. A) Races, B) Ecological clusters and C) Geographical clusters*.

A)



B)

C)

NA, not applicable

Table S2. *Evaluation of correlation models to describe Yield vs Distance to the Ecological Niche Centroid and Optimum.*

*A) = Ecological clusters, B) = Geographic clusters.*

A)

B)



B) *cont.*



I’s *P*-value: *P*-value of the Moran’s I test on spatial autocorrelation (H0: no spatial autocorrelation exists), Best model: best of two models; Linear: Yield = β0 + β1×Distance, LN: Yield = β0 + β1×ln(Distance), C: centroid, O: optimum, AIC: Akaike Information Criterion of the best model, bold: highlights a model with a smaller AIC than the one of the null model (Yield = β0), *R*2: coefficient of determination associated to the best model, *R*2 *P*-value: *R*2 significance *P*-value, Slope: sign of the value of the β1 estimate of the best model (n, negative; p, positive), Sample size: number of occurrence and yield data;NA, not applicable, because less than 4 yield data were found for that group and the analysis could not been carried out; and Bold: better model than the null model and with a significant relationship between yield and C or/and O.