

Is wheat individual grain characteristics variance a source of genetic variability for water stress tolerance?

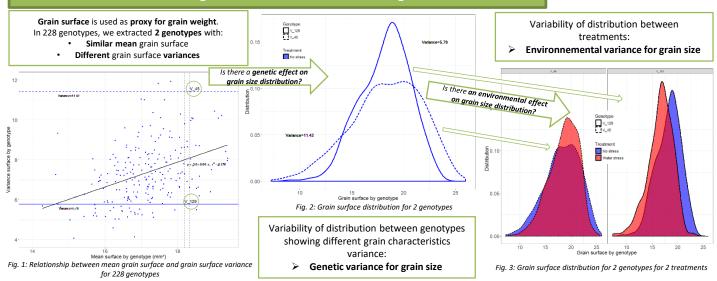
Aurore Beral¹, Jacques Le Gouis¹, Vincent Allard¹, Christine Girousse¹

¹ INRA, UCA, UMR 1095, Génétique, Diversité et Ecophysiologie des Céréales Contact: aurore.beral@inra.fr

Introduction:

- ✓ Grain yield is usually analyzed through its different average numeric components
- ✓ However each component shows a large intragenotypic variance (eg grain size will vary depending on the tiller and the position on the spike)
- ✓ Variance of these components has not be so far fully explored particularly in relation to stress tolerance

There is environmental and genetic variance for individual grain characteristics:



Issues:

- (i) Understand precisely the structure of the variance associated to individual grain characteristics
- (ii) Stratify variance into inter- and intra-spike variances

