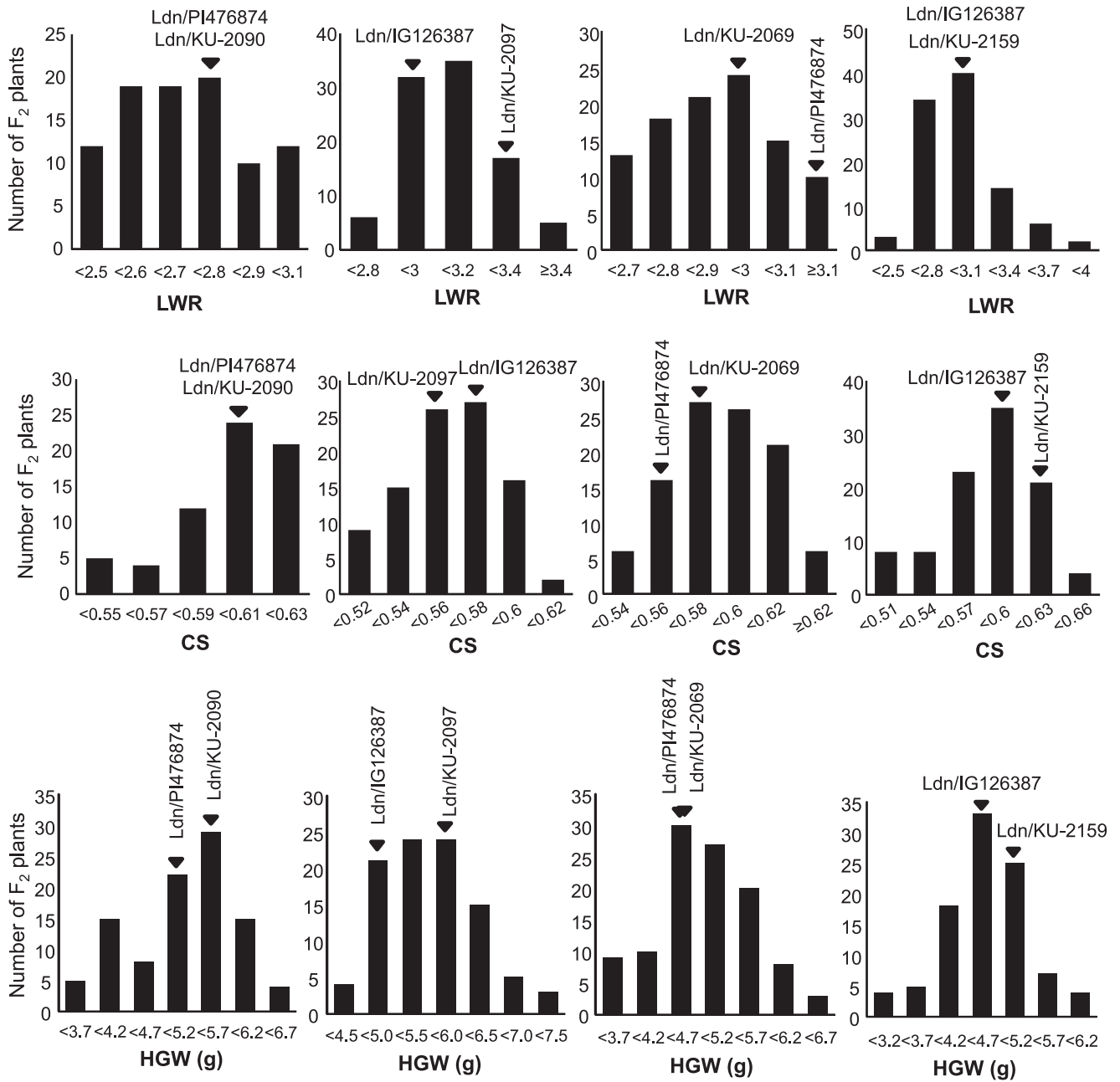
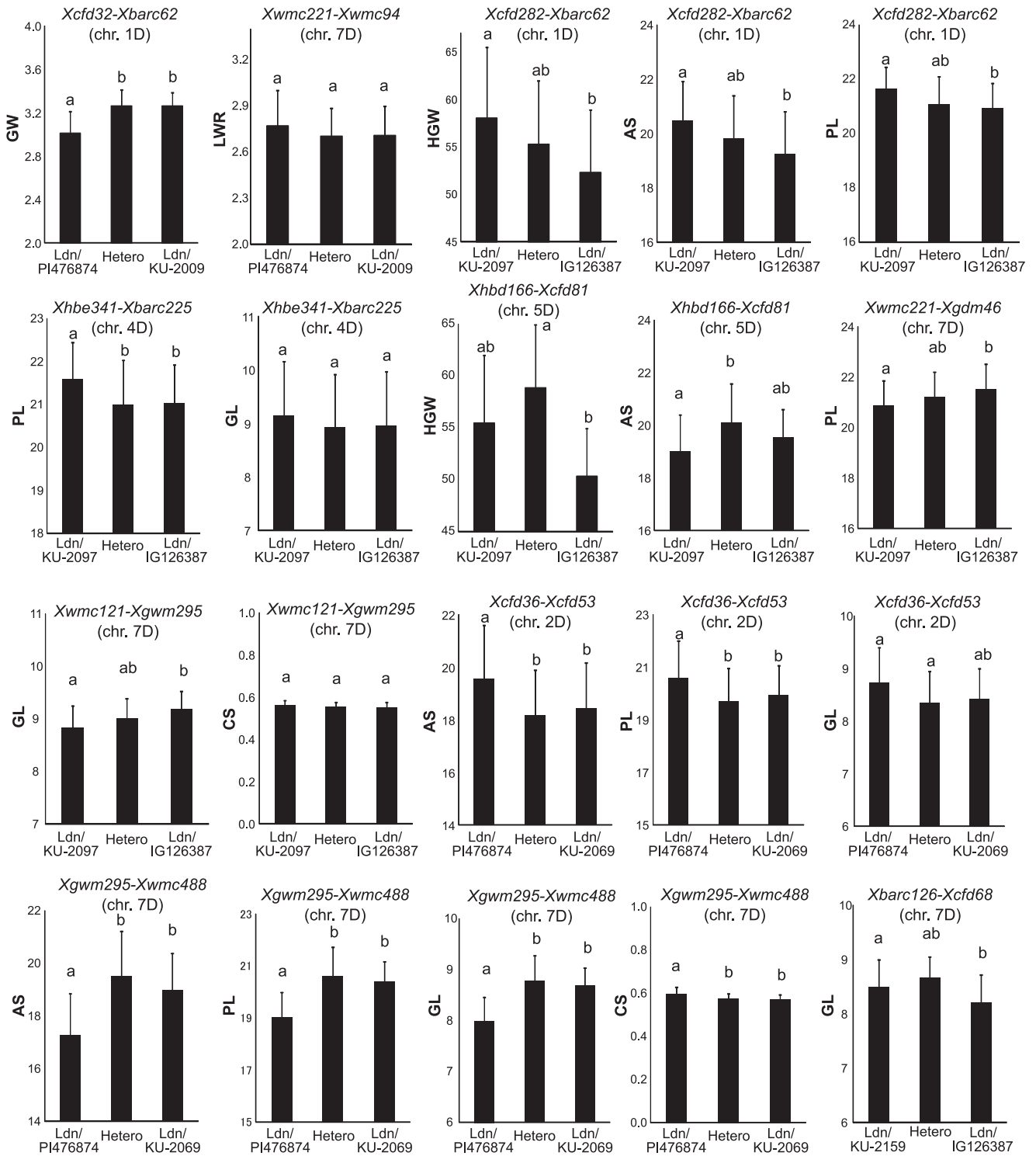


Supplemental Fig. 1. Frequency distribution of the grain shape-related traits in the four mapping populations. Phenotypic values of the parental lines are indicated by arrow heads.



Supplemental Fig. 1. (continued)



Supplemental Fig. 2. The genotype effects at each QTL on the observed variation in the grain shape-related traits in the four populations. Markers that were used to deduce the genotype at a QTL are listed above each graph. Means \pm standard deviation with the same letter were not significantly different ($P > 0.05$) (Tukey-Kramer HSD test).