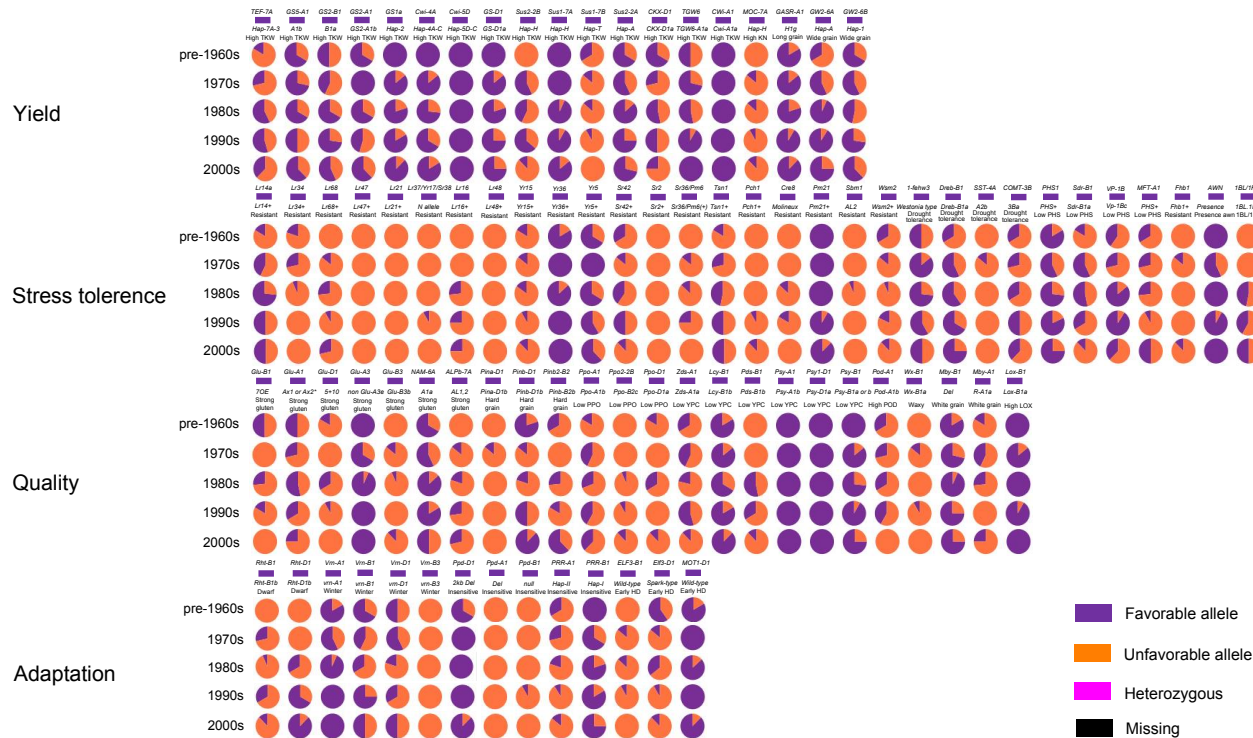
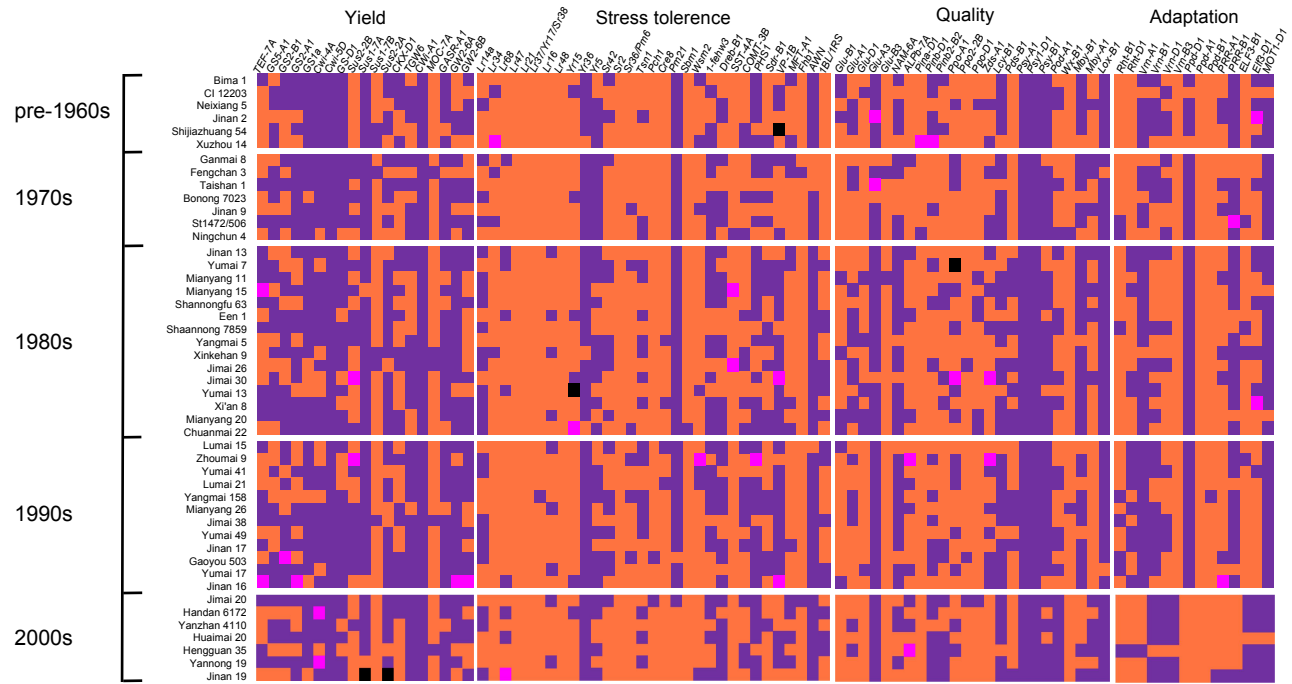




Additional file 15: Fig. S5. Genetic composition and allele frequency of widely grown cultivars from different breeding periods. (A) Genetic composition of 87 yield, resistance, quality, and adaptability genes in 47 widely grown cultivars (WGCs) from five different breeding periods. The favorable and alternative alleles are shown in purple and orange, respectively. Heterozygous types are shown in magenta and missing types are shown in black. (B) Allele frequencies of 87 agronomically important genes controlling grain yield, stress resistance, quality, and adaptability in 47 WGCs from five different breeding periods. The favorable and alternative alleles are shown in purple and orange, respectively.