Supplemental Fig. S1. a) The origin of the initial panel of 850 lines. b) The origin of the final panel of 359 lines.

Supplemental Fig. S2. Neighbor-joining (NJ) tree of 359 lines. Different colors represent different origins of lines. CIMCALI, CIMMYT lines from Cali, Columbia; CML, CIMMYT Maize Line; DTPW, drought tolerant population white grain; DTPY, drought tolerant population yellow grain; MBR, multiple borer resistant; SA, soil acidity.

Supplemental Fig. S3. Decay of linkage disequilibrium (LD) ($r^2$) as a function of physical distance (Mbp) between pairs of loci on individual chromosomes. All 1260 single nucleotide polymorphism (SNPs) were used. Chr, chromosome.