Supplementary Materials:

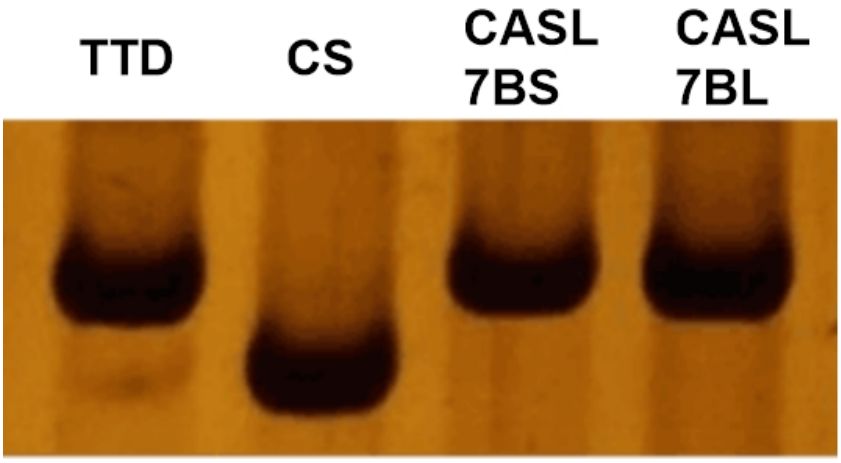

Figure S1. PCR fragment of SSR marker wmc335 indicating that both CASL7BS and 7BL display the same banding pattern as TTD, but differ from CS.

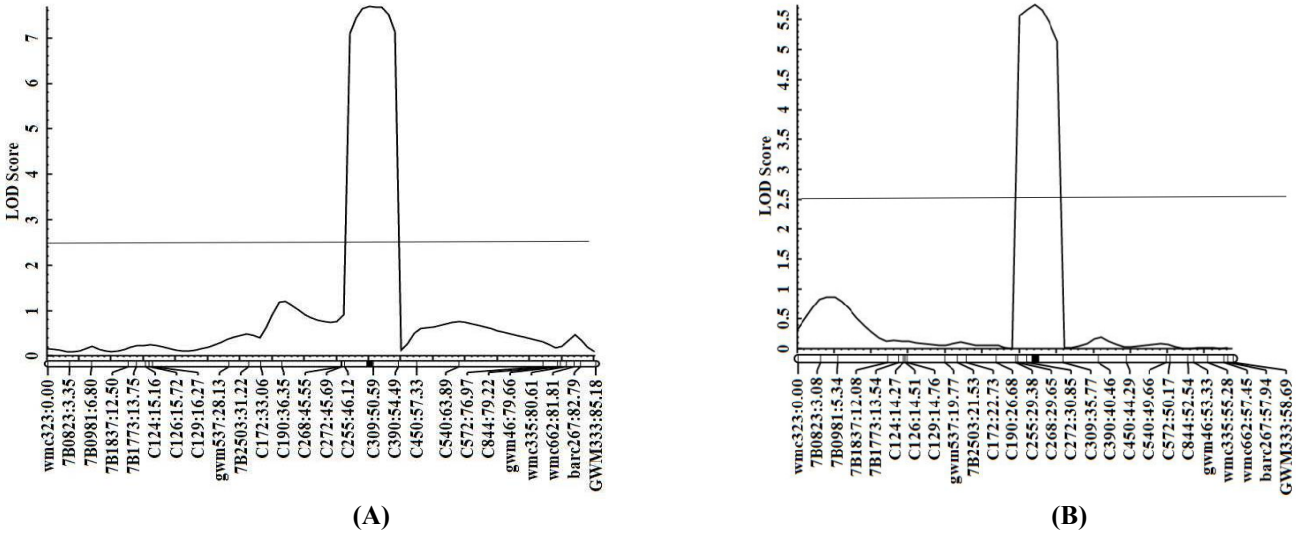

Figure S2. Mapping of QTL related to heading date in P_1 (A) and P_2 (B) populations of (CASL7BS × CS) F_2.

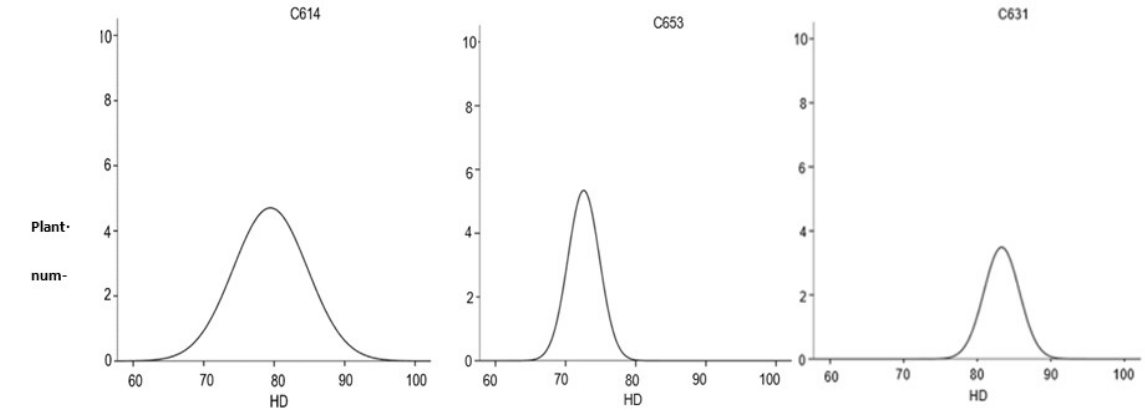

Figure S3. Distribution of heading date in different F_3 families.

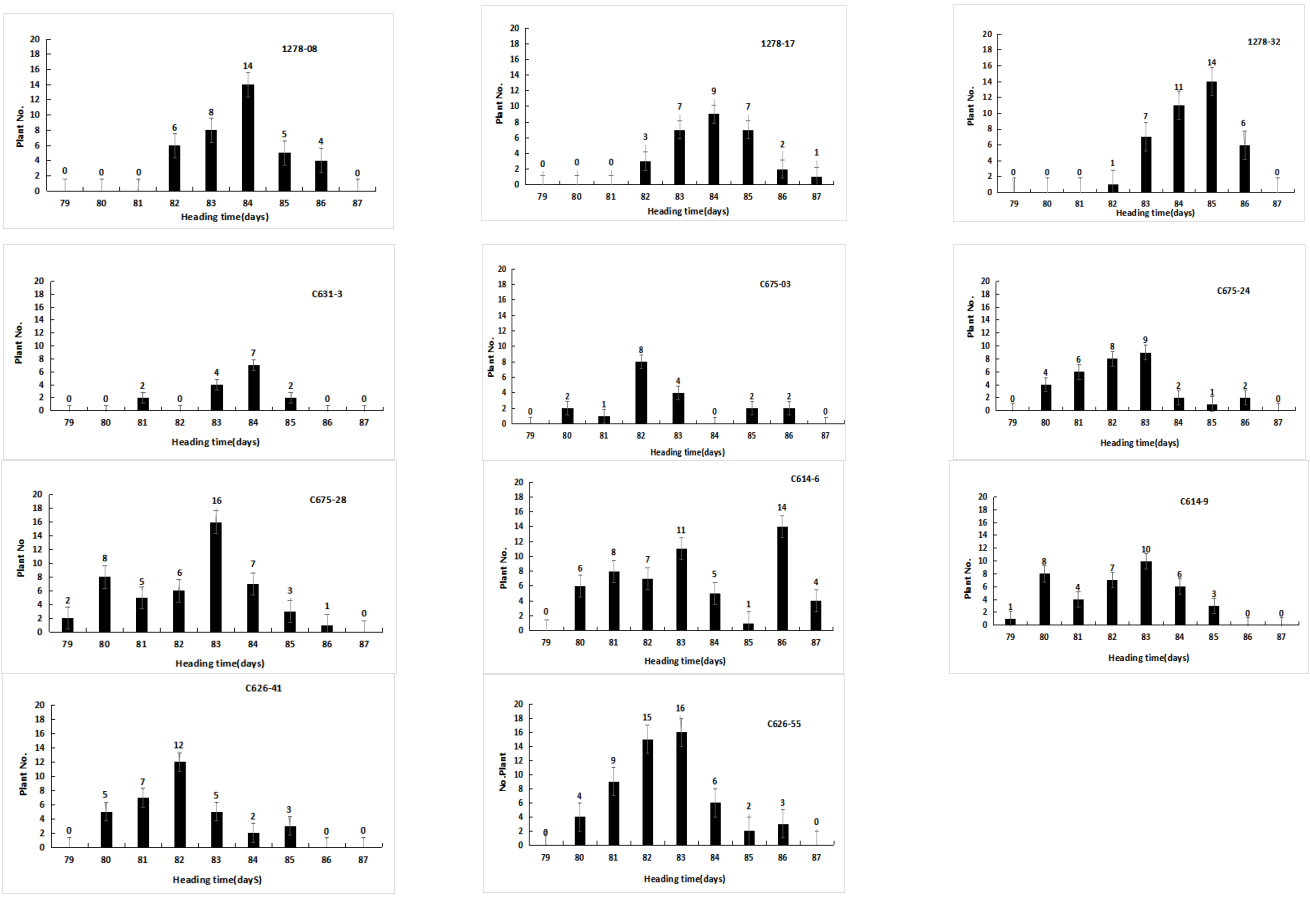

Figure S4. Distribution of heading date in 11 F_4 families, which were corresponding to the data given in Figure 9.