## **SUPPORTING FIGURE S3:**

Variation in (a) dry grain yield and (b) seed size measured in the 305-RIL MAGIC core set and parents grown under restricted and normal irrigation regimes at CVARS in 2015 and 2016. Each dot represents a MAGIC RIL based on mean phenotypic values of two years of data. Labeled solid squares are MAGIC parents (A: IT89KD-288, B: IT84S-2049, C: CB27, D: IT82E-18, E: Suvita-2, F: IT00K-1263, G: IT84S-2246, H: IT93K-503-1).

