

Table S4 Numbers of natural bins associated with traits detected under genome-wide Type I error of 0.05 after Bonferroni correction using the effective number of tests.

Trait	Number of significant bins	Phenotypic variance	Genetic variance	Heritability ^a
Yield (YD)	0	19.8324	0.0000	0.0000
Tiller number (TP)	13	1.4845	0.2858	0.1925
Number of grains (GN)	7	374.4867	76.1498	0.2033
1000 grain weight (KGW)	33	6.4193	3.7104	0.5780
Grain length (GL)	27	0.3095	0.2060	0.6654
Grain width (GW)	5	0.0479	0.0205	0.4285
Heading date (HD)	3	63.7318	9.3167	0.1461
Apicule color (OsC1)	1	0.2467	0.2316	0.9388

^aHeritability: Defined as the ratio of the genetic variance to the phenotypic variance.