

Table S10 Results of the QTL detection in the dent design using the LDLA – 1-marker model. For each detected QTL, we showed its genetic position on the dent consensus map, its confidence interval, its level of significance and the partial percentage of variance explained. We also showed the name of one of the markers located at the detected position and their range of physical position(s) on the B73 v2 genome (Gore et al. 2009).

Trait	Nb	Chr	Marker	Physical position (kb)	Genetic position (cM)	$-\log_{10}(p)$	R ² (%)
DMC (%)	1	1	PZE_101043094	29355	43.3	8.5	2.6
	2	2	PZE_102015152	6459	20.9	15.3	5.1
	3	2	PZE_102150016	196649	94	6.9	2.0
	4	3	PZE_103038375	33073	45.8	14.2	4.7
	5	4	PZE_104077580	151818	57	8.5	2.6
	6	5	PZE_105043990	31444	54.4	9.7	3.0
	7	6	PZE_106020569	16293	9.3	6.4	1.9
	8	6	PZE_106092387	148530	72	6.3	1.8
	9	8	PZE_108054499	97030	50.2	9.8	3.1
	10	8	PZE_108104357	159498	81.9	5.6	1.6
	11	9	PZE_109098884	143900	78.9	9.8	3.1
	12	10	PZE_110073412	130077	53.5	8.5	2.6
DMY (dt.ha ⁻¹)	1	3	PZE_103115334	175353	78.1	9.0	3.6
	2	3	PZE_103162977	213416	117.8	9.0	3.7
	3	6	PZE_106031833	74460	14.6	14.0	6.0
	4	7	PZE_107026145	29198	41.6	7.7	3.0
	5	8	PZE_108054494	97029	50.5	10.4	4.3
DtSILK (d)	1	1	PZE_101032230	19696	37.8	8.8	2.4
	2	1	PZE_101076734	60701	61	11.4	3.3
	3	2	PZE_102150016	196649	94	8.9	2.5
	4	3	PZE_103104448	165863	71.3	15.7	4.7
	5	3	PZE_103132614	188530	91.1	8.1	2.2
	6	5	PZE_105054634	51432	55.4	6.4	1.7
	7	6	PZE_106092387	148530	72	13.8	4.1
	8	7	PZE_107023943	25471	43.9	13.0	3.8
	9	8	PZE_108026961	27634	45.5	5.7	1.5
	10	8	PZE_108063387	113292	57.3	10.1	2.9
	11	10	PZE_110062675	117753	50.1	6.9	1.8
DtTAS(d)	1	1	PZE_101035341	23055	39.2	13.3	4.6
	2	3	PZE_103104448	165863	71.3	26.8	10.1
	3	6	PZE_106092387	148530	72	5.8	1.8
	4	7	PZE_107061937	118305	50.8	6.8	2.1
	5	7	PZE_107100713	155251	79.6	6.7	2.1
	6	8	PZE_108057325	102454	51.5	22.5	8.3
	7	9	PZE_109071914	116752	59.8	7.3	2.3

PH (cm)	1	1	PZE_101132469	170852	80.9	6.5	1.9
	2	1	PZE_101191970	238427	127.1	8.4	2.6
	3	2	PZE_102068532	46438	61.8	6.8	2.0
	4	3	PZE_103104448	165863	71.3	6.0	1.7
	5	4	PZE_104082879	156995	61.4	6.0	1.7
	6	6	PZE_106040890	89137	19.4	19.4	6.7
	7	7	PZE_107084200	139526	76.4	15.9	5.4
	8	8	PZE_108014288	14088	32	15.9	5.4
	9	9	PZE_109080822	128851	65.9	18.5	6.4
	10	10	PZE_110009551	7563	29.4	6.3	1.8
