

Supplementary Table 1: List of SSR markers used for background selection

S.No	Marker	Chromosome no
1.	RM3412	1
2.	RM1	1
3.	RM5	1
4.	RM212	1
5.	RM200	1
6.	RM490	1
7.	RM6519	2
8.	RM2634	2
9.	RM154	2
10.	RM233	2
11.	RM7355	2
12.	RM1092	2
13.	RM514	3
14.	RM5757	3
15.	RM6959	3
16.	RM6283	3
17.	RM3306	3
18.	RM232	3
19.	RM251	3
20.	RM307	4
21.	RM3843	4
22.	RM335	4
23.	RM332	4
24.	RM255	4
25.	RM177	4
26.	RM440	5
27.	RM122	5
28.	RM4710	5
29.	RM1024	5
30.	RM1182	5
31.	RM6024	5
32.	RM574	5
33.	RM3683	5
34.	RM508	6
35.	RM3414	6
36.	RM584	6
37.	RM400	6
38.	RM276	6
39.	RM432	7
40.	RM18	7
41.	RM10	7
42.	RM420	7

S.No	Marker	Chromosome no
43.	RM47	7
44.	RM11	7
45.	RM6999	8
46.	RM152	8
47.	RM342B	8
48.	RM447	8
49.	RM5911	8
50.	RM25	8
51.	RM502	8
52.	RM219	9
53.	RM1328	9
54.	RM434	9
55.	RM205	9
56.	RM288	9
57.	RM242	9
58.	RM257	9
59.	RM4771	10
60.	RM216	10
61.	RM5271	10
62.	RM228	10
63.	RM222	10
64.	RM4844	11
65.	RM286	11
66.	RM5857	11
67.	RM287	11
68.	RM19	12
69.	RM5341	12
70.	RM309	12
71.	RM3331	12
72.	RM235	12

Supplementary Table 2: Spikelet fertility of parents and BILs.

Parents/BILs	<i>qDTY</i> 1.1	<i>qDTY</i> 2.1	<i>qDTY</i> 3.1	Spikelet fertility	
				Control	Stress
IWP	-	-	-	90.5±1.5	25.2±1.2
10-1-1-5-23	+	-	+	87.3±3.0	62.1±1.8*
4-7-4-24-3-41-17	-	+	+	90.8±0.9	68.2±0.7*
4-7-4-24-3-41-15	-	+	+	87.4±0.7	64.3±1.6*
4-7-4-24-4-16-30	-	+	+	90.4±0.6	71.0±1.8*
4-7-4-24-4-16-28	-	+	+	92.5±1.4*	67.6±0.4*
4-7-4-24-4-16-29	-	+	+	89.6±1.7	58.9±1.4*
4-7-4-24-3-41-12	-	+	+	80.1±1.6	56.4±0.9*
C.D. (5%)				2.187	1.764

*Significant at a 5% level.