Appendix A Correlation between yield traits of the HG- and HB-IL populations measured under salt stress (S) and non-stress control (C) conditions

HG-ILs\HB-ILs	SNP (C)	SF (C)	GW (C)	GYP (C)	SNP (S)	SF (S)	GW (S)	GYP (S)
SNP (C)[1)		0.01	-0.08	0.21*	0.10	-0.08	-0.07	-0.09
SF (C)	-0.26*		-0.15	**0.44***	-0.17	0.09	0.14	-0.02
GW (C)	-0.36***	0.20		0.03	-0.01	0.08	0.54***	0.20*
GYP (C)	0.10	**0.57***	0.27**		-0.14	-0.17	0.12	-0.04*
SNP (S)	**0.41***	-0.28**	**-0.42***	0.01		0.20*	-0.07	**0.62***
SF (S)	-0.16	0.27*	**0.40***	**0.35***	-0.35***		0.10	**0.41***
GW (S)	-0.13	-0.15	**0.66***	-0.05	-0.25*	**0.34**		**0.29**
GYP (S)	0.12	-0.16	0.04	0.15	**0.41***	**0.29**	**0.25**	

[1) SNP, spikelet number/panicle; SF, spikelet fertility ; GW, thousand-grain weight; GYP, grain yield/plant. The same as below.

*, ** and *** stand for significant differences at the 0.05, 0.01 and 0.001 probability levels, respectively.

Appendix B ANOVA results of the HG-ILs and HB-ILs for yield traits evaluated under salt stress and non-stress conditions

Pop.	Trait	SOV	Selected population				The whole population			
			df	MS	*P*	R^2%	*df*	MS	*P*	R^2%
Budda-ILs (n = 10 / 13)	SNP	Treatment(T)	1	273235	<.0001	79.0	1	2411386	<.0001	83.4
		ILs (G)	13	21073	0.321	6.1	105	131554	0.061	4.6
		T×G	13	14012	0.647	4.1	105	110729	0.304	3.8
	SF	Treatment(T)	1	0.010	0.196	2.6	1	0.232	<.0001	4.9
		ILs (G)	13	0.145	0.076	36.8	105	1.431	<.0001	30.1
		T×G	13	0.058	0.693	14.7	105	1.204	0.001	25.3
	GW	Treatment(T)	1	571.4	<.0001	89.1	1	4427.5	<.0001	79.4
		ILs (G)	13	31.4	0.0005	4.9	105	592.7	<.0001	10.6
		T×G	13	23.4	0.004	3.6	105	201.5	0.231	3.6
	GYP	Treatment(T)	1	16232.2	<.0001	97.2	1	80952.9	<.0001	92.8
		ILs (G)	13	66.9	0.937	0.4	105	1760.8	0.015	2.0
		T×G	13	68.6	0.931	0.4	105	1792.6	0.011	2.1
Gang46B-ILs (n = 6/9)	SNP	Treatment(T)	1	166458	<.0001	88.2	1	1996109	<.0001	77.0
		ILs (G)	9	9732	0.179	5.2	91	299598	<.0001	11.6
		T×G	5	3587	0.389	1.9	85	130286	0.015	5.0
	SF	Treatment(T)	1	0.000	0.912	0.2	1	0.262	<.0001	4.5
		ILs (G)	9	0.035	0.010	68	91	2.669	<.0001	45.8
		T×G	5	0.004	0.796	7.9	85	1.304	0.0046	22.4
	GW	Treatment(T)	1	153.0	<.0001	70.3	1	2827.5	<.0001	66.8
		ILs (G)	9	24.4	0.006	11.2	91	973.4	<.0001	23.0
		T×G	5	31.6	0.0002	14.5	85	226.4	<.0001	5.3
	GYP	Treatment(T)	1	6188.7	<.0001	95.5	1	49884.2	<.0001	88.4
		ILs (G)	9	8.2	1.000	0.1	91	2610.0	<.0001	4.6
		T×G	5	11.1	0.987	0.2	85	1644.6	0.037	2.9

Appendix C Mean performances of 17 promising ILs for yield traits under non-stress and salt stress conditions

Pop.	Line #	Non-stress				Salt stress			
		SNP	SF (%)	GW (g)	GYP (g)	SNP	SF (%)	GW (g)	GYP (g)
Budda-ILs	**B78**	261	70.6	**22.8**	**34.0**	113	**82.7**	15.4	**2.41**
	B81	257	72.5	20.2	32.9	**130**	**90.2**	14.2	**2.25**
	B113	**297**	77.7	22.0	29.7	**149**	**83.9**	15.9	**2.05**
	B115	277	**86.1**	21.4	32.6	126	**90.7**	15.9	**2.08**
	B117	244	**90.3**	**22.8**	31.3	**155**	**87.0**	**16.1**	**3.52**
	B127	281	**85.4**	**22.7**	29.9	125	**83.0**	**16.0**	**2.90**
	B89	262	**92.7**	19.6	**35.2**	**139**	**82.0**	13.6	**1.85**
	B163	243	**83.8**	22.0	**37.0**	105	74.0	15.0	**1.79**
	G121	**291**	79.4	22.3	**36.6**	**165**	77.0	15.1	**1.71**
	G171	214	81.7	22.2	32.8	**139**	78.8	14.2	**1.79**
Gang46B-ILs	G128	266	**89.5**	22.7	31.6	**133**	**84.5**	15.6	**1.78**
	G124	243	78.4	21.0	31.1	**129**	80.4	13.9	**1.84**
	G139	**323**	72.4	22.1	30.6	118	**82.6**	**19.2**	**2.13**
	G131	**352**	78.2	20.1	30.4	**144**	70.4	13.4	**1.99**
	G137	242	72.5	20.7	28.2	132	**86.2**	**16.1**	**2.57**
	G135	225	81.6	20.4	29.2	127	**83.2**	15.2	**2.29**
	G151	**301**	71.3	20.1	28.9	**151**	**89.0**	15.0	**2.27**
HHZ		257	78.8	21.5	29.3	103	77.1	14.9	0.82

[1] Bold numbers are those statistically significantly higher than HHZ (the recurrent parent) at $P<0.05$.