

Supplementary Materials

Supplementary Table S1. Descriptive Statistics of the BC₁F₂ Progenies of Hasawi x BRR1 dhan28 under No-stress and Salinity Stress at Reproductive Stage of Rice.

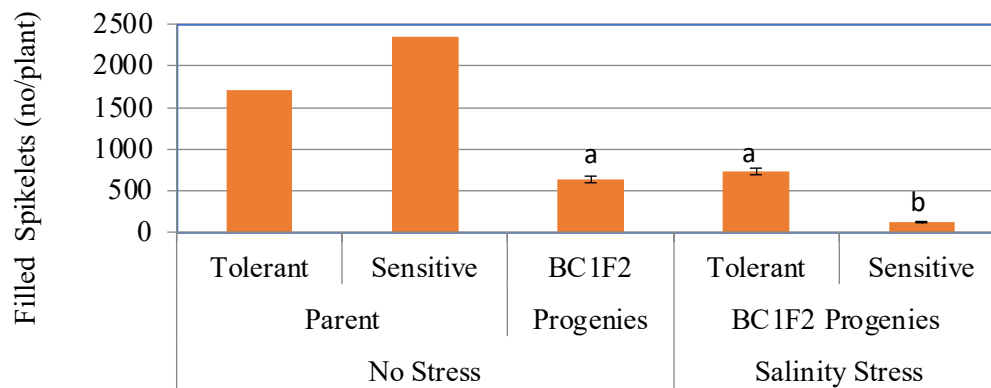
Traits	Parents		BC ₁ F ₂ Progenies of <u>Hasawi</u> x <u>BRR1 dhan28</u>							Decrease Sensitive over Tolerant (%)
	<u>Hasawi</u>	BRR1 dhan28	Mean	Range	Skewness	SE	No-Stress	Tolerant	Sensitive	
Plant Height (cm)	124	90	102.02	37-180	0.36	1.61	-	116.31	98.27	15.51
Productive Tillers/plant	18	25	12.65	1 - 39	0.44	0.33	-	17.53	10.49	40.14
Filled <u>Spikelets/plant</u>	1708	2349	307.59	0-2115	1.89	16.54	637.48	735.72	123.59	83.20
Unfilled <u>Spikelets/plant</u>	436	617	633.4	17-3316	1.40	25.39	448.87	793.55	592.84	25.29
Filled <u>Spikelets</u> (%)	79.66	79.2	29.36	0-84.7	0.42	0.95	59.14	49.69	20.64	58.46
Grain Yield (g/plant)	47.97	54.98	5.85	0-43.49	2.11	0.34	16.48	15.06	2.13	85.85
Na ⁺ -K ⁺ Ratio	1.927	3.105	0.86	0.03-14.5	4.46	0.08	-	0.52	1.18	-128.56

Note: Mean, range, skewness, and standard error (SE) are based on 435 BC₁F₂ individuals grown under salinity stress at the reproductive stage; averages are also shown for a set of 153 BC₁F₂ individuals grown under non-stress control conditions ("no-stress"), along with subsets of BC₁F₂ individuals grown under salinity stress categorized as "tolerant" or "sensitive" by SES scores and grain weight per plant.

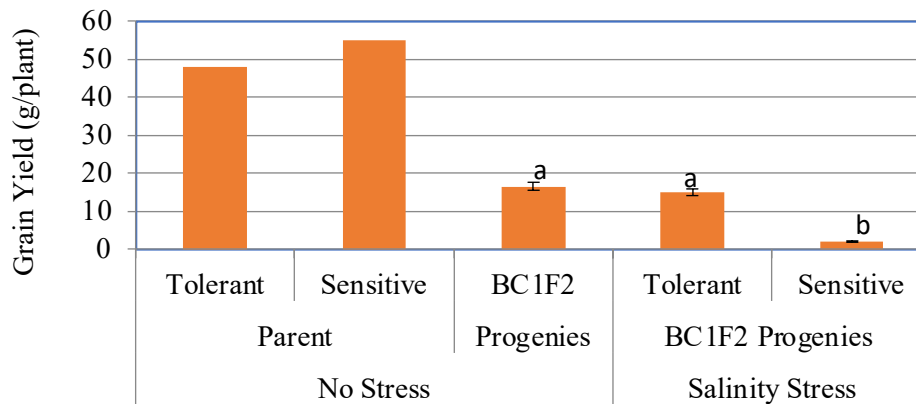
Supplementary Table S2. Comparison of Agronomic and Physiological Parameters of the BC₁F₂ Genotypes of Hasawi x BRR1 dhan28 under No-stress and Salinity Stress at Reproductive Stage of Rice (values with the same letter in a column are not significantly different at 5% level of significance).

Treatment	BC ₁ F ₂ Genotypes/ Progenies	Plant Height (cm)	Productive Tillers (no/plant)	Filled <u>Spikelets</u> (no/plant)	Unfilled <u>Spikelets</u> (no/plant)	Filled <u>Spikelets</u> (%)	Unfilled <u>Spikelets</u> (%)	Grain Yield (g/plant)	Na-K Ratio
Selected Genotypes									
No-Stress	Control	-	-	637.5 ^a	448.9 ^c	59.1 ^a	40.9 ^c	16.5 ^a	-
Salinity- Stress	Tolerant	116.3 ^a	17.5 ^a	735.7 ^a	793.6 ^a	49.7 ^b	50.3 ^b	15.1 ^a	0.52 ^b
	Sensitive	98.3 ^b	10.5 ^b	123.6 ^b	592.9 ^b	20.6 ^c	79.4 ^a	2.1 ^b	1.18 ^a
HSD 0.05	Tolerant vs Sensitive	9.52	1.79	125.19	159.79	5.65	5.65	3.32	0.55
	Control vs Tolerant			118.10	151.65	5.33	5.33	3.13	
	Control vs Sensitive			105.56	135.75	4.77	4.77	2.80	
All Genotypes									
No-Stress (N)		-	-	637.5 ^A	448.9 ^A	59.1 ^A	40.9 ^B	16.5 ^A	-
Salinity Stress (S)		102	12.7	307.6 ^B	633.4 ^B	29.4 ^B	70.6 ^A	5.9 ^B	-
HSD 0.05				69.90	90.74	3.51	3.51	1.66	

Note: For All Genotypes, 153 progenies of BC₁F₂ population were grown under no-stress/control condition and 435 progenies were grown under salinity stress of EC 10 dS/m; and for Selective Genotypes, number of tolerant and sensitives progenies were 78 and 112, respectively grown under salinity stress of EC 10 dS/m at reproductive stage of rice.



Supplementary Figure S1. Number of filled spikelets per plant of tolerant and sensitive parents under non-stress conditions and their BC₁F₂ progenies under non-stress and salt stress conditions. Vertical and capped bars indicate standard error of the mean number of filled spikelets of 153 plants under no-stress, and 78 tolerant and 112 sensitive progenies grown under salinity stress. Values with the same letter are not significantly different at 5% level of significance.



Supplementary Figure S2. Grain yield of tolerant and sensitive parents under non-stress conditions and their BC₁F₂ progenies of Hasawi x BRR1 dhan28 under non-stress and salinity salt stress conditions. Vertical and capped bars indicate standard error of the mean grain yield of 153 progenies under no stress, and 78 tolerant and 112 sensitive progenies grown under salinity stress. Values with the same letter are not significantly different at 5% level of significance.