

Table S2: Descriptive statistics of 25 traits measured at vegetative stage among the 44 wheat genotypes (CHL: chlorophyll, MSI: membrane stability index, RFW: Root fresh weight, SFW: Shoot fresh weight, TFW: Total fresh weight, RDW: Root dry weight, SDW: Shoot dry weight, TDW: Total dry weight, R/S: Root/shoot ratio, , RL: Root length, SL: Shoot length, PS: Photosynthetic rate, RWC_S: Relative water content of shoot, RWC_R: Relative water content of root, RWC_T: Total Relative water content, Shoot Na⁺, Root Na⁺, Shoot K⁺, Root K⁺, Shoot Ca²⁺, Root Ca²⁺, K⁺/Na⁺_S: Shoot K⁺/Na⁺, K⁺/Na⁺_R: Root K⁺/Na⁺, Na⁺/Ca²⁺_S: Shoot Na⁺/Ca²⁺, Na⁺/Ca²⁺_R: Root Na⁺/Ca²⁺.

S. No	Traits	Treatments	Min	Max	Mean	SD	CV (%)	Heritability (h ²)
1	CHL (SPAD)	Salt	18.86	36.82	27.84	3.1	11.02	0.73
		Control	24.3	37.17	30.97	2.8	9.02	
2	MSI (ds/m)	Salt	19.48	76.27	44.08	13.7	31.17	0.69
		Control	44.41	85.78	70.47	10.5	14.86	
3	RFW (g)	Salt	0.07	0.85	0.35	0.17	49.28	0.72
		Control	0.12	1.47	0.64	0.16	24.84	
4	SFW (g)	Salt	0.25	1.9	0.78	0.13	16.67	0.34
		Control	0.64	6.55	2.84	0.19	6.72	
5	TFW	Salt	0.36	2.75	1.13	0.30	26.9	0.45
		Control	0.83	8	3.47	0.35	10.11	
6	RDW (g)	Salt	0.02	0.12	0.06	0.03	45	0.66
		Control	0.03	0.25	0.09	0.02	23.33	
7	SDW (g)	Salt	0.04	0.28	0.13	0.01	9.23	0.45
		Control	0.11	0.79	0.29	0.01	2.75	
8	TDW	Salt	0.05	0.37	0.19	0.02	7.89	0.50
		Control	0.13	0.9	0.38	0.01	3.42	
9	R/S	Salt	0.239	0.948	0.52	0.18	34.48	0.68
		Control	0.14	0.738	0.39	0.16	40.25	
10	RL (cm)	Salt	7.7	22.39	15.27	3.5	23.125	0.36
		Control	7.9	38.09	19.87	5.1	25.49	
11	SL (cm)	Salt	17.4	33.57	24.89	3.6	14.42	0.61
		Control	25.59	49.81	36.34	6.5	17.92	
12	PS	Salt	522	737	682	95.3	13.97	0.30
		Control	699.67	772.33	740.9	14.9	2	

13	RWC_S	Salt	63.64	90.96	83.44	5.2	6.27	0.65
		Control	79.05	93.09	89.56	2.8	3.073	
14	RWC_R	Salt	59.84	92.24	79.27	8.1	10.2	0.79
		Control	57.5	92.36	81.89	7.8	9.48	
15	RWC_T	Salt	62.42	89.16	82.5	5.2	6.26	0.74
		Control	74.266	92.57	88.38	3.0	3.40	
16	Shoot Na ⁺	Salt	61.009	261.61	117.5	37.6	32.02	0.12
		Control	5.16	35.69	15.01	7.6	50.68	
17	Root Na ⁺	Salt	34.2	173.21	75.2	25.8	34.24	0.53
		Control	8.084	75.19	17.93	11.2	62.35	
18	Shoot K ⁺	Salt	26.17	125.78	76.3	29.2	38.23	0.69
		Control	9.02	136.48	78.21	36.6	46.82	
19	Root K ⁺	Salt	9.39	42.92	29.59	8.0	27	0.30
		Control	8.62	102.4	49.44	26.5	53.69	
20	Shoot Ca ²⁺	Salt	13.847	112.76	39.63	21.9	55.168	0.70
		Control	6.357	82.35	31.52	18.1	57.44	
21	Root Ca ²⁺	Salt	150.63	1122.8	368.21	185.6	50.41	0.74
		Control	70.97	996.67	344.7	189.2	54.9	
22	K ⁺ /Na ⁺ _S	Salt	0.165	1.084	0.68	0.25	36.37	0.11
		Control	0.74	10.71	5.67	0.52	9.17	
23	K ⁺ /Na ⁺ _R	Salt	0.147	0.674	0.41	0.11	25.82	0.02
		Control	0.324	9.295	3.26	2.00	61.31	
24	Na ⁺ /Ca ²⁺ _S	Salt	1.08	8.448	3.65	1.8	47.98	0.18
		Control	0.145	1.157	0.55	0.24	43.93	
25	Na ⁺ /Ca ²⁺ _R	Salt	0.073	0.754	0.25	0.14	57.89	0.57
		Control	0.017	0.301	0.071	0.06	86.04	0.51