

Supplementary Materials

Supplementary Table 1. Genotypes used in the present study.

No.	Genotype	No.	Genotype	No.	Genotype
1	ABED4611	51	DELIBES	101	ODIN
2	ABED5193	52	DELITA	102	OPTIC
3	ABELONE	53	DERKADO	103	OPTIMA
4	ADELE	54	DIALOG	104	ORTHEGA
5	AKITA	55	DIGGER	105	OTIRA
6	ALABAMA	56	ENIGMA	106	PALOMA
7	ALANIS	57	ESCORT	107	PASADENA
8	ALBRIGHT	58	ETNA	108	PEEL
9	ALEXIS	59	EVELYN	109	PEGGY
10	ALLIOT	60	EXTRACT	110	PF11011
11	ANNABELL	61	FERMENT	111	PF11202
12	ANNASOFI	62	FUSION	112	POLYGENA
13	APEX	63	GANT	113	PONGO
14	ARAVIS	64	GESINE	114	POTTER
15	ARDILA	65	GIVE	115	PRESTIGE
16	ARIEL	66	GOLDIE	116	PRINCESS
17	ASPEN	67	HANKA	117	PRISMA
18	ASTORIA	68	HENNI	118	PROLOG
19	BARKE	69	HERON	119	PROMINAN
20	BARTOK	70	HYDROGEN	120	PUNTO
21	BELLA	71	JACINTA	121	RAGTIME
22	BERETA	72	JAREK	122	REGGAE
23	BLENHEIM	73	JERSEY	123	RICARDA
24	BOND	74	JILL	124	RIGA
25	BRENDA	75	KORINNA	125	ROXANA
26	BREWSTER	76	KRONA	126	SABEL
27	BRISE	77	LAMBA	127	SALOON
28	BRITTA	78	LENKA	128	SCARLETT
29	CADEAU	79	LIBELLE	129	SENIOR
30	CALYPSO	80	LIMBO	130	SHAMU
31	CAMANT	81	LINUS	131	SJ5095
32	CAMINANT	82	LISBET	132	STATIC
33	CANUT	83	LOMA	133	STEFFI
34	CARUSO	84	LUX	134	SULTANE
35	CASKANT	85	LYSIBA	135	TEAL
36	CATHRINE	86	LYSIMAX	136	TEXANE
37	CECILIA	87	MADONNA	137	THURINGI
38	CENTURY	88	MADRAS	138	TIRUP
39	CHALICE	89	MANDOLIN	139	TOFTA
40	CHAMANT	90	MARESI	140	TREBON
41	CHARIOT	91	MARINA	141	TREMOIS
42	CHARLOTT	92	MAUD	142	TRIANON
43	CHARON	93	MELTAN	143	UN.AE31
44	CHRISTIA	94	MENTOR	144	VADA
45	CICERO	95	MERETE	145	VERONA
46	COLLIE	96	MIE	146	VINTAGE
47	COOPER	97	MIRALIX	147	VISKOSA
48	CORK	98	NERUDA	148	WREN
49	CULMA	99	NEVADA		
50	DECANTER	100	NIZZA		

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Supplementary Table 2. Combined analysis of variance of the studied traits in both non-stress and salinity stress conditions during two cropping years.

Source of variation	df	Mean squares								
		PH	TGW	HI	NGS	GWS	NTT	RWC	LPC	LChC
Environment (E)	1	32179.8**	12880.5**	17082.7**	8534.14**	28**	212598.9**	18551.8**	1332.2**	1833.6**
Year (Y)	1	73738* *	21159.4**	6303.6**	55.52 ^{n.s.}	0.005 ^{n.s.}	516705* *	160067**	339.1* *	521283.6**
E×Y	1	1223.9**	0.52 ^{n.s.}	919.2 ^{n.s.}	1.2 ^{n.s.}	0.21 ^{n.s.}	357554.6**	18407.3**	29.5**	7717**
Rep (E×Y)	4	498.2**	51.01**	572.4 ^{n.s.}	36.8 ^{n.s.}	0.42 ^{n.s.}	22009**	177.7* *	393.02**	97.2 ^{n.s.}
Genotype (G)	14	196.4**	55.03**	367.3 ^{n.s.}	127.17**	0.51* *	2252.2**	81.1 ^{n.s.}	11.5**	101.2**
E×G	14	57.2**	14.94 ^{n.s.}	292.9 ^{n.s.}	39.98**	0.39 ^{n.s.}	1490.4**	75.02 ^{n.s.}	5.5**	77 ^{n.s.}
Y×G	14	38.17 ^{n.s.}	13.4 ^{n.s.}	328.8 ^{n.s.}	21.55 ^{n.s.}	0.35 ^{n.s.}	2113.5**	83.7 ^{n.s.}	0.19 ^{n.s.}	90.7**
E×Y×G	14	45.5*	12.5 ^{n.s.}	284.8 ^{n.s.}	22.1*	0.36 ^{n.s.}	1485.1**	59.5 ^{n.s.}	0.19 ^{n.s.}	71.6 ^{n.s.}
Block(Rep×E×Y)	32	154.8**	20.2*	360.4 ^{n.s.}	62.24**	0.35 ^{n.s.}	591.4 ^{n.s.}	144.4**	0.2 ^{n.s.}	203.3**
Error	55	33.2	12.35	305.8	17.7	0.35	437.6	70.3	0.31	64.7
R-Square (%)	-	89.8	87.6	57	81	58.4	90.3	86.3	97.1	94.2
CV (%)	-	10.2	10.07	57.5	19.5	68.7	16.7	13.8	6.4	12.9

n.s., * and **: Not-significant and significant at 5% and 1% probability levels, respectively. **PH**: Plant height, **TGW**: Thousand-grain weight, **HI**: Harvest index, **NGS**: Number of grains per spike, **GWS**: Grain weight per spike, **NTT**: Number of total tillers, **RWC**: Relative water content, **LPC**: Leaf Proline content, **LChC**: Leaf chlorophyll content, **CV**: Coefficient of Variation

Supplementary Table 3. Statistics calculated for optimum K values using 2.3.4 Structure software.

K	L(K)	Stdev	L'(K)	L''(K)	L''(K)	Delta K
1	-24682.1	1.12	-	-	-	-
2	-23249.7	2.71	1432.41	-611.03	611.03	225.27
3	-22428.3	8.24	821.38	22.84	22.84	2.77
4	-21584.1	218.84	844.22	-289.44	289.44	1.32
5	-21029.4	197.77	554.78	-118.56	118.56	0.599
6	-20593.1	122.63	436.22	-218.4	218.4	1.78
7	-20375.3	50.22	217.82	44.17	44.17	0.88
8	-20113.3	95.84	261.98	-3525.2	3525.2	36.78
9	-23376.6	8275.19	-3263.22	5002.65	5002.65	0.605
10	-21637.1	3430.18	1739.43	-1739.43	1739.43	0.507

L(K): LnP(D) average of all iterations for each K, **L'(K)**: $L(K)_n - L(K)_{n-1}$, **L''(K)**: $L'(K)_n - L'(K)_{n-1}$, **Delta K** (ΔK): $|L''(K)| / \text{Stdev}$