

Accessory Publication

Table S1. The list of genotypes and information on their origin for 25 bread and 25 durum wheat cultivars used in this study

ACN denotes the catalogue number in the Australian Winter Cereal Collection

Bread wheat			Durum wheat		
Genotype	Origin	ACN	Genotype	Origin	ACN
Persia 118	Iran	5272	Odin	Sweden	3116
Westonia	Australia	30128	Purple grain	NZ	1052
Iraq 50	Iraq	4931	Citr 7792	Ethiopia	6264
Kharchia 65	India	21746	13953	Algeria	7911
H7747	China	30166	Aus 19762	Egypt	19762
Iraq 43	Iraq	4926	Tamaroi	Australia	n/a
Titmouse S	Mexico	20025	Covelle	Australia	2151
India 38	India	4672	Timilia	Italy	1391
Punjab 8a	India	868	Jori	Mexico	14077
Barani 70	Pakistan	15981	Aus 19760	Liberia	19760
India 259	India	4838	3228	Portugal	8934
Baart 46	USA	26	Wollaroi	Australia	n/a
Persia 21	Iran	5207	Capeiti	Italy	2065
China 16	China	27382	Pi 595646	Canada	91127
AMC 66	Syria	19118	Zeramek	Morocco	9345
Karoi	Zimbabwe	11940	Tehuacan 60	Mexico	1377
Aleppo 23	Syria	4133	Zulu	Australia	3576
Persia 6	Iran	28179	Alex	France	15637
Viking	Denmark	3506	S.A.S. 449	Italy	1178
Seville 20	Spain	26619	Aus 12746	Kenya	12746
340	Ethiopia	17133	Citr 7805	Ethiopia	6266
Nasseri	Iran	26558	Biskri ac2	Tunisia	1950
Persia 6	Iran	5188	Towner	USA	1404
Iran 118	Iran	17855	C 250	Australia	6220
Belgrade 3	Yugoslavia	4196	Aus 16469	Turkey	16469

Table S2. Water content in plant shoots grown under control and saline (150 mM NaCl for 6 weeks) conditions (calculated as (FW–DW)/FW)

Mean \pm s.e. ($n = 5$). Δ WC, difference in water content between control and salt-treated plants

<i>Genotype</i>	Bread wheat					Durum wheat					
	<i>Control</i>		<i>NaCl</i>		Δ WC	<i>Genotype</i>	<i>Control</i>		<i>NaCl</i>		Δ WC
	Average	s.e.	Average	s.e.			Average	s.e.	Average	s.e.	
340	86.75	0.94	77.18	3.02	9.57	3228	86.06	0.52	83.22	0.32	2.84
Aleppo 23	86.91	0.74	77.27	1.37	9.64	13953	83.27	0.92	77.49	0.67	5.78
AMC 66	85.54	1.17	73.04	4.60	12.50	Alex	87.82	0.20	83.18	0.61	4.64
Baart 46	83.32	1.02	78.69	1.63	4.63	Aus 12746	87.35	0.49	83.10	0.61	4.25
Barani 70	86.80	0.80	82.53	1.87	4.27	Aus 16469	85.82	0.99	82.28	1.54	3.54
Belgrade 3	85.50	0.83	78.81	0.52	6.69	Aus 19760	83.19	0.73	80.66	0.43	2.53
China 16	85.16	0.93	79.05	0.70	6.11	Aus 19762	85.11	0.55	78.09	1.25	7.02
H7747	86.12	0.73	75.55	3.67	10.56	Biskri ac2	85.86	0.76	82.44	0.82	3.42
India 259	84.21	1.24	75.56	1.04	8.64	C 250	83.62	0.54	81.29	0.25	2.33
India 38	86.53	0.17	74.64	4.08	11.89	Capeiti	86.29	1.16	78.70	1.10	7.58
Iran 118	87.96	0.36	76.79	0.82	11.18	Citr 7792	82.43	2.40	73.68	2.39	8.74
Iraq 43	84.57	0.46	77.44	0.53	7.13	Citr 7805	86.07	1.33	80.59	0.73	5.48
Iraq 50	87.34	0.51	79.95	1.37	7.40	Covelle	85.21	1.22	81.11	1.01	4.11
Karoi	84.00	1.07	75.78	0.50	8.22	Jori	80.90	3.88	74.99	2.73	5.90
Kharchia 65	84.50	0.87	73.31	0.59	11.19	Odin	83.37	1.07	76.05	1.37	7.32
Nasseri	88.26	0.31	81.79	0.22	6.47	Pi 595646	86.31	0.81	81.26	1.67	5.05
Persia 118	84.52	0.90	81.50	3.11	3.02	Purple grain	79.88	1.57	71.44	3.01	8.44
Persia 21	84.96	0.24	80.77	2.80	4.18	S.A.S. 449	88.03	1.03	81.06	1.54	6.97
Persia 6	86.33	1.30	79.59	1.27	6.73	Tamaroi	84.33	0.70	77.62	1.68	6.71
Persia 6	86.73	0.54	79.11	1.42	7.62	Tehuacan 60	88.47	1.08	82.22	0.32	6.24
Punjab 8a	87.06	0.31	78.36	2.08	8.71	Timilia	86.88	1.11	77.30	3.28	9.58
Seville 20	85.91	1.12	76.86	2.07	9.05	Towner	87.78	0.20	78.97	2.13	8.80

Titmouse S	82.08	0.69	71.76	0.40	10.32	Wollaroi	85.34	0.18	77.02	0.99	8.32
Viking	85.02	0.53	80.29	0.30	4.73	Zeramek	86.32	0.97	80.73	1.82	5.59
Westonia	83.31	0.86	73.76	0.52	9.55	Zulu	87.50	0.56	80.17	2.73	7.33
Average	85.57	0.75	77.57	1.62	8.00	Average	85.33	1.00	79.39	1.4	5.94

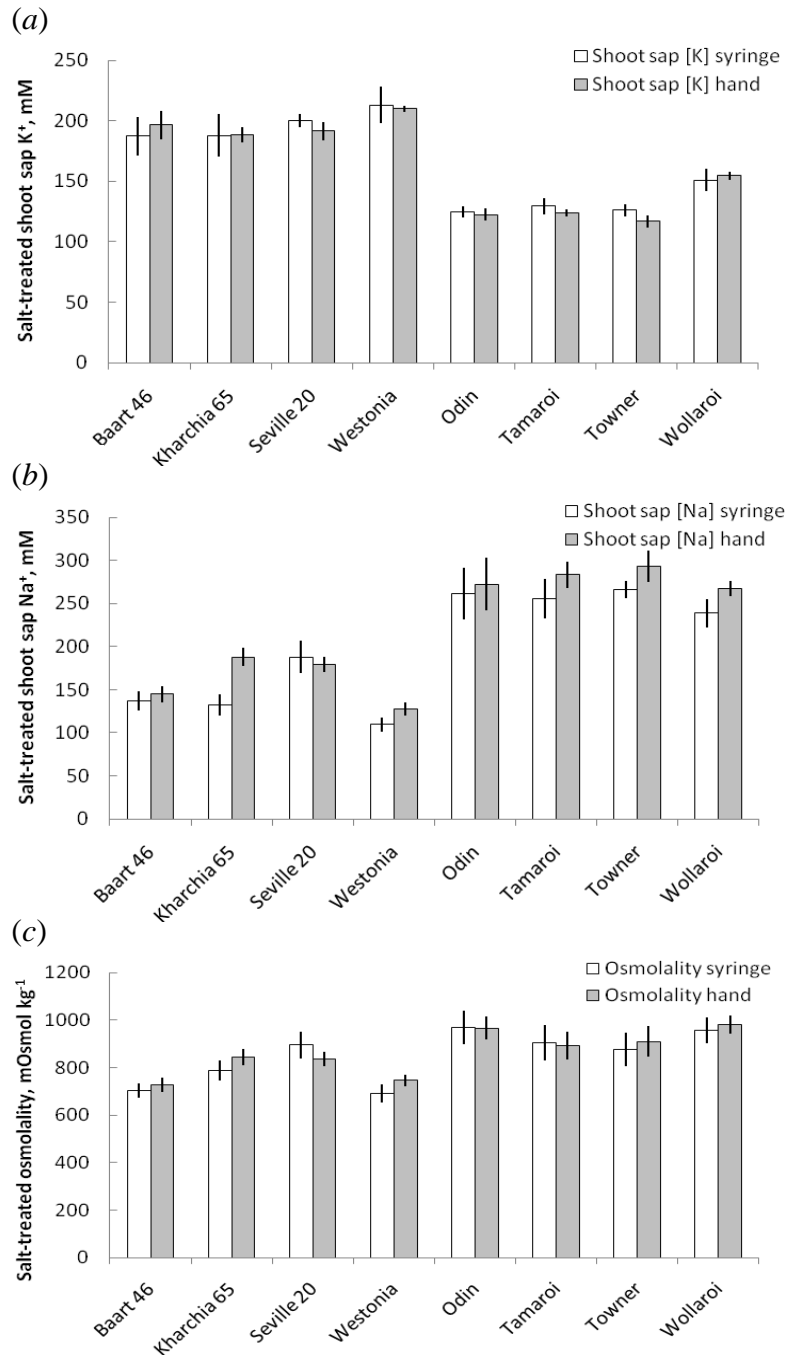


Fig. S1. Comparison between hand- and syringe-squeezed sap extraction methods in salt-treated wheat genotypes: (a) shoot K⁺, (b) shoot Na⁺ and (c) sap osmolality. Mean \pm s.e. ($n = 5$).

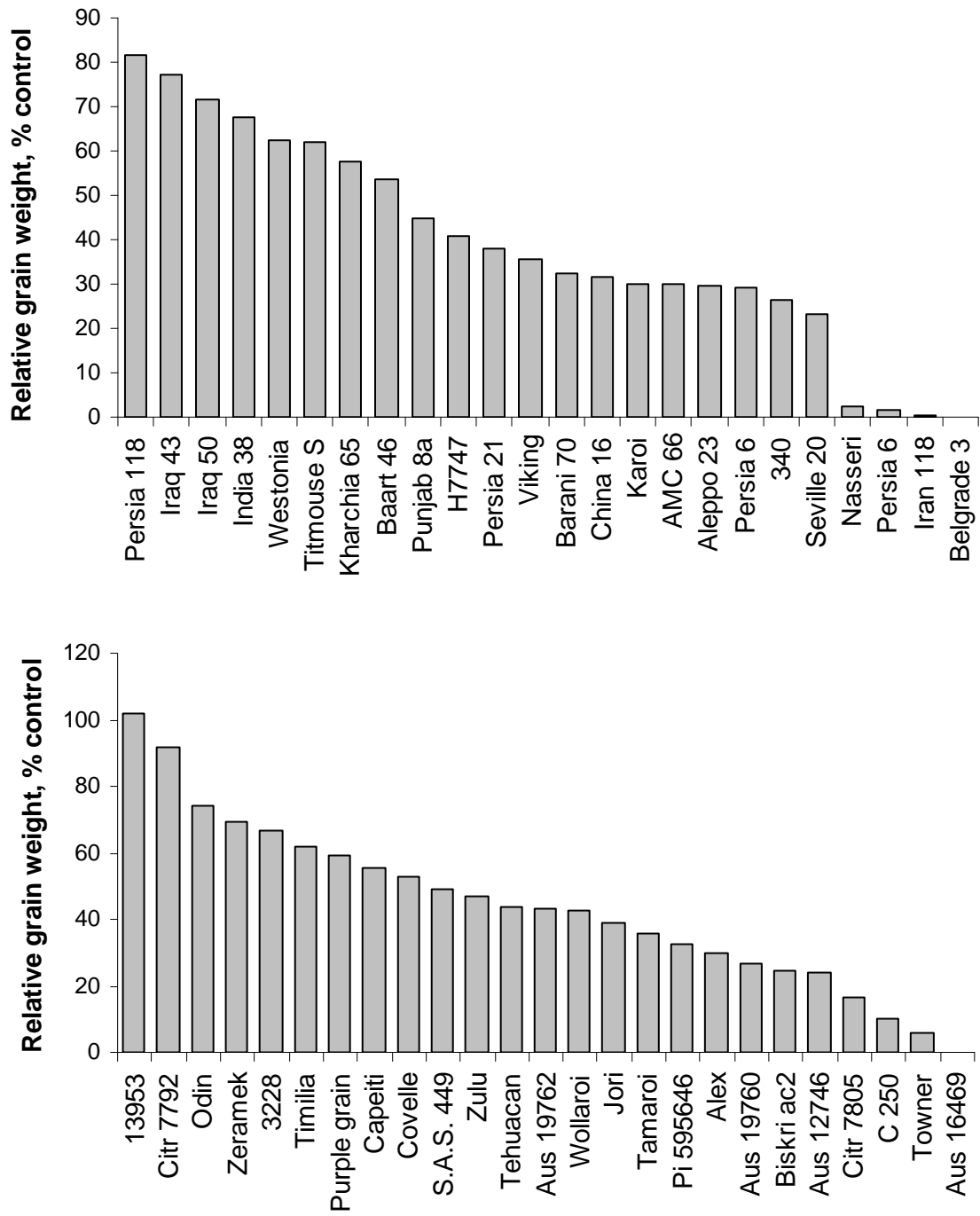


Fig. S2. Relative grain yield (% control) in bread and durum wheat genotypes grown under saline conditions (150 mM NaCl). Mean values ($n = 5$) are shown.

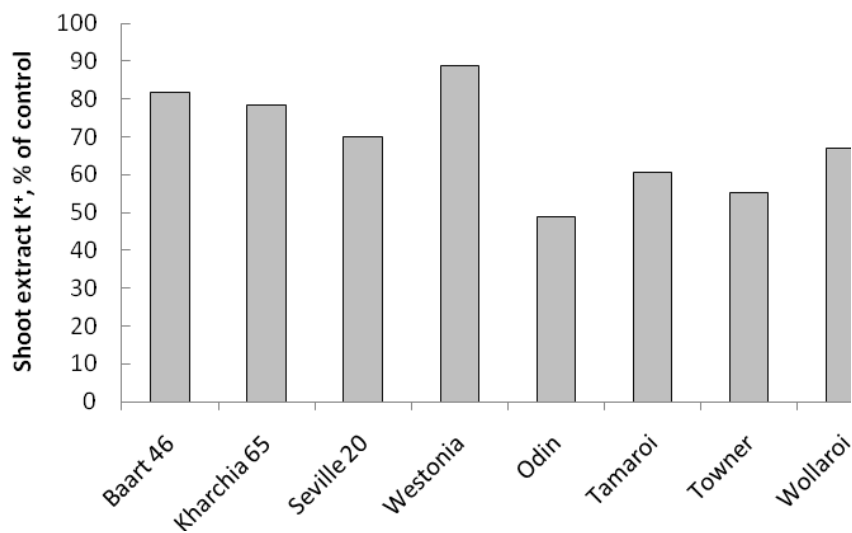


Fig. S3. Shoot K⁺ content (% control) measured by the acid extraction method according to Hunt (1982). The sample size is five replicates per treatment.

Reference

Hunt J (1982) Dilute hydrochloric acid extraction of plant material for routine cation analysis. *Communications in Soil Science and Plant Analysis* **13**, 49–55.
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