

Supplementary Material

Higher flower and seed number leads to higher yield under water stress conditions imposed during reproduction in chickpea

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Table 1. Details of alternate accession identifier, Source country, Biotype and Days to maturity and their tolerance level to drought under field conditions (T-Tolerant, S-Sensitive) of ten ICRISAT chickpea (ICC) genotypes used in this study

ICC number	Alternate accession identifier	Origin/ Source country	Bio	Days to maturity
ICC 867 (T)	P 690; Larkapura 1	India	Traditional Cultivar/ Landrace	87.6
ICC 2263 (T)	P 1857-1	Iran	Traditional Cultivar/ Landrace	90.3
ICC 14799 (T)	RSB 172	India	Traditional Cultivar/ Landrace	90.0
ICC 3325 (T)	P 3971; 2099 2144	Cyprus	Traditional Cultivar/ Landrace	90.0
ICC 8950 (T)	NEC 243; BR 17	India	Traditional Cultivar/ Landrace	90.7
ICC 7323 (S)	PI 251783	Union of Soviet Socialist Republics	Traditional Cultivar/ Landrace	100.6
ICC 7184 (S)	NEC 1554; Acc No. 32685-71	Turkey	Traditional Cultivar/ Landrace	96.3
ICC 4814 (S)	P 6540; 2863 6085	Iran	Traditional Cultivar/ Landrace	92.1
ICC 8058 (S)	NEC 2189; P 6916	Iran	Traditional Cultivar/ Landrace	95.6
ICC 3776 (S)	P 4394	Iran	Traditional Cultivar/ Landrace	92.4

Table 2. *F* probability values (at $P < 0.01$) and *F* statistic values obtained with unbalanced ANOVA analysis for genotype, year and the genotype \times year interaction for relative stem + leaf wt., relative total pod weight, relative total seed number, relative total 100-seed weight, relative harvest index, relative phase I flower number I, relative phase I pod weight, and relative phase II flower + pod + seed abortion percentage

Relative value	Stem + leaf wt.	Total pod weight	Total seed number	Total 100-seed weight	Harvest Index	Phase I flower number	Phase I Pod weight	Phase II Flower + pod + seed abortion %
<i>F</i> Probability								
Genotype	0.08	< 0.001	0.02	0.10	< 0.001	0.01	0.01	< 0.001
Year	< 0.001	0.84	0.02	< 0.001	< 0.001	0.03	0.68	0.01
Genotype \times Year	0.001	0.01	0.01	0.09	0.02	0.02	0.001	0.01
<i>F</i> statistic value								
Genotype	1.82	4.57	2.50	1.74	3.98	2.95	2.83	5.03
Genotype \times Year	3.17	2.63	2.87	1.75	2.39	2.35	3.16	2.89

Table 3. Ranking of genotype for the relative values of phase I and Phase II seed yield obtained by dividing corresponding WS value by mean WW values in year 1 and year 2

Rank	Year 1		Year 2		Year 1		Year 2	
	Genotype	Relative Phase I seed yield	Genotype	Relative Phase I seed yield	Genotype	Relative Phase II seed yield	Genotype	Relative Phase II seed yield
1	ICC 8950 (T)	0.89	ICC 7323 (S)	0.88	ICC 8950 (T)	0.67	ICC 7323 (S)	0.25
2	ICC 7184 (S)	0.76	ICC 7184 (S)	0.76	ICC 14799 (T)	0.52	ICC 867 (T)	0.23
3	ICC 2263 (T)	0.71	ICC 3776 (S)	0.64	ICC 2263 (T)	0.51	ICC 8058 (S)	0.18
4	ICC 14799 (T)	0.67	ICC 867 (T)	0.63	ICC 3325 (T)	0.41	ICC 3325 (T)	0.15
5	ICC 867 (T)	0.54	ICC 3325 (T)	0.57	ICC 3776 (S)	0.24	ICC 4814 (S)	0.12
6	ICC 3325 (T)	0.52	ICC 14799 (T)	0.50	ICC 867 (T)	0.22	ICC 3776 (S)	0.04
7	ICC 4814 (S)	0.50	ICC 4814 (S)	0.49	ICC 7323 (S)	0.22	ICC 14799 (T)	0.02
8	ICC 7323 (S)	0.38	ICC 8950 (T)	0.45	ICC 7184 (S)	0.19	ICC 2263 (T)	0
9	ICC 3776 (S)	0.34	ICC 2263 (T)	0.42	ICC 4814 (S)	0.19	ICC 8950 (T)	0
10	ICC 8058 (S)	0.34	ICC 8058 (S)	0.22	ICC 8058 (S)	0.07	ICC 7184 (S)	0
	<i>F</i> Probability	0.02		0.60		0.12		0.70
	LSD	0.32		NA		NA		NA