

**Efficiency of drought tolerance indices under different stress severities for bread wheat selection**

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**Supplementary Table 1.** Cumulated rainfall amount (mm) in Taoujdate and Sidi El Aidi experimental sites during the two cropping seasons 2013-2014 and 2014-2015.

Month	2014 Season		2015 season	
	Taoujdate	Sidi El Aidi	Taoujdate	Sidi El Aidi
October	2	7.2	8	4.4
November	68	41	120	120
December	24.5	11.7	55	50
January	78.5	70.1	84	35
February	44	21.9	43	9
March	28	14.7	62	40
April	30	18	3	0
May	1	0	27	0
June	1.5	0	5	0
July	0	0	6	0
Total	277.5	184.6	413	258.4

**Supplementary Table 2.** Combined analysis of variance for grain yield of 40 genotypes over years and sites.

Source of variation	df	M.S	Variation explained (%)
Block	2	10.82	2.59
Year	1	146.68**	35.14
Site	1	255.73**	61.26
Genotype	39	1.63**	0.39
Year.Genotype	39	0.60	0.14
Year. Site	1	0.12	0.03
Site.Genotype	39	0.80*	0.19
Year. Site.Genotype	39	0.60	0.14
Residual	296(22)	0.48	0.11

\* $p \leq 0.05$ ; \*\* $p \leq 0.01$ ; \*\*\* $p \leq 0.001$ .

**Supplementary Table 3.** Results of Bonferroni test for grain yield of 40 genotypes over the stress intensities.

Comparison of yield means	t-test	Significant
S4 – S3	-11.98	Yes
S4 – S2	-15.93	Yes
S4 – S1	-28.60	Yes
S3 – S2	-3.95	Yes
S3 – S1	-16.62	Yes
S2 – S1	-12.67	Yes

S1 no stress; S2 First stress intensity 0.25; S3 Second stress intensity 0.35; S4 Third stress intensity 0.57.