

Table 1 *Physio-biochemical changes in selected sorghum genotypes*: Total chlorophyll content was quantified in leaf sample in each replication such three independent replicates were used for an independent variable ‘T’ test analysis. EC and TDH activity were quantified in 25 seeds; catalase and SOD enzyme activities were quantified in seedlings in each replication; three independent replicates were used for an independent variable ‘T’ test analysis using SPSS – version 20.00 (T-tab. 4.303)* **Statistical significant ($p \leq 0.05$).**

Genotypes/ parameters	Ctr (1g)	1000g 1 hr	% change over control	p-value	t-stat.
	Mean ± SEM	Mean ± SEM			
Total chlorophyll content (mg gm ⁻¹ of tissue)					
M35-1	2.20 ± 0.19	2.76 ± 0.04	25.87	0.017*	5.68
SPV2217	2.36 ± 0.07	2.67 ± 0.19	13.13	0.257	1.465
IS18551	2.70 ± 0.11	3.05 ± 0.08	12.19	0.093	2.199
Electrical conductivity (EC) (dsm ⁻¹)					
M35-1	0.29 ± 0.003	0.28 ± 0.080	-2.55	0.538	0.707
SPV2217	0.36 ± 0.010	0.33 ± 0.005	-10.23	0.113	2.345
IS18551	0.23 ± 0.010	0.21 ± 0.005	-10.56	0.221	1.549
Total dehydrogenase (TDH)					
M35-1	0.73 ± 0.28	0.89 ± 0.49	21.91	0.477	0.804
SPV2217	0.74 ± 0.25	0.86 ± 0.37	16.87	0.796	0.279
IS18551	0.81 ± 0.35	0.92 ± 0.45	14.71	0.847	0.207
Catalase (U ml of enzyme ⁻¹) of genotype M35-1					
Root	5.867 ± 0.057	7.32 ± 0.168	24.76	0.008*	8.182
Shoot	5.65 ± 0.172	6.03 ± 0.245	6.72	0.282	1.264
Superoxide dismutase (SOD) (U ml of enzyme ⁻¹) of genotype M35-1					
Root	1.41 ± 0.40	1.75 ± 0.071	24.11	0.023*	4.303
Shoot	2.08 ± 0.043	2.13 ± 0.08	2.4	0.589	0.6