

Table S1. Mean values, standard deviations and Fisher's least significant differences (LSDs) for chlorophyll *a* content (µg/g of d.w.) in the first day of drought

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Table S2. Mean values, standard deviations and Fisher's least significant differences (LSDs) for chlorophyll *b* content ($\mu\text{g/g}$ of d.w.) in the first day of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	0.419	0.022	0.551	0.076	0.485 a	0.087
119	0.314	0.046	0.551	0.125	0.433 bc	0.153
12	0.351	0.051	0.414	0.033	0.383 de	0.053
18	0.36	0.023	0.535	0.03	0.448 ab	0.094
1b	0.343	0.037	0.441	0.112	0.392 cde	0.095
23	0.299	0.056	0.443	0.066	0.371 de	0.095
26	0.329	0.051	0.459	0.059	0.394 cde	0.086
35	0.339	0.029	0.367	0.098	0.353 e	0.071
42	0.344	0.074	0.396	0.101	0.370 de	0.090
43	0.368	0.046	0.377	0.102	0.372 de	0.077
55	0.307	0.042	0.447	0.051	0.377 de	0.085
78b	0.348	0.046	0.41	0.079	0.379 de	0.070
83	0.363	0.059	0.536	0.031	0.450 ab	0.100
9	0.339	0.085	0.442	0.076	0.391 cde	0.094
Bingo	0.418	0.026	0.405	0.107	0.412 bcd	0.075
Average	0.349B	0.057	0.452A	0.098		
LSD _{0.05}	G: 0.0472; T: 0.0172 GT: 0.0667					

Mean values denoted by the same letters are not significantly different.

Table S3. Mean values, standard deviations and Fisher's least significant differences (LSDs) for chlorophyll *a* and chlorophyll *b* content (µg/g of d.w.) in the first day of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	0.997	0.045	1.109	0.104	1.053 a	0.096
119	0.738	0.183	1.038	0.183	0.888 b	0.235
12	0.845	0.135	0.71	0.056	0.777 cde	0.122
18	0.804	0.042	0.963	0.05	0.884 b	0.094
1b	0.825	0.084	0.945	0.27	0.885 b	0.203
23	0.616	0.091	0.792	0.109	0.704 ef	0.133
26	0.722	0.112	0.778	0.122	0.75d ef	0.117
35	0.699	0.118	0.636	0.163	0.668 f	0.141
42	0.762	0.144	0.782	0.105	0.772 de	0.122
43	0.884	0.135	0.762	0.184	0.823 bcd	0.168
55	0.706	0.125	0.866	0.102	0.786 cde	0.138
78b	0.867	0.142	0.786	0.144	0.826 bcd	0.145
83	0.849	0.185	0.987	0.119	0.918 b	0.166
9	0.776	0.263	0.737	0.146	0.756 def	0.206
Bingo	0.993	0.063	0.755	0.155	0.874 bc	0.168
Average	0.805B	0.164	0.843A	0.188		
LSD _{0.05}	G: 0.0978; T: 0.0357 GT: 0.1383					

Mean values denoted by the same letters are not significantly different.

Table S4. Mean values, standard deviations and Fisher's least significant differences (LSDs) for carotenoids content ($\mu\text{g/g}$ of d.w.) in the first day of drought

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Table S5. Mean values, standard deviations and Fisher's least significant differences (LSDs) for Fv/Fm (maximum photochemical efficiency of PS II) in the first day of drought

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Table S6. Mean values, standard deviations and Fisher's least significant differences (LSDs) for area (pool size of electron acceptors from PSII) in the first day of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	57450	6924	40400	13420	48925 cd	13562
119	107850	59670	60050	28090	83950 a	51372
12	62500	28035	31300	5798	46900 cd	25339
18	40933	2925	35250	3436	38092 de	4256
1b	39850	4816	21175	4376	30513 e	10619
23	45475	14249	33775	5664	39625 de	12093
26	50975	14782	31675	2572	41325 de	14296
35	96900	31335	32750	12327	64825 b	40330
42	66175	29240	31025	5807	48600 cd	27280
43	42575	2760	33850	6924	38212 de	6799
55	64625	18242	30100	7486	47362 cd	22345
78b	62925	31276	40500	19596	51712 bcd	27745
83	47800	6519	35900	17667	41850 de	14257
9	67025	43397	36450	8820	51738 bcd	34124
Bingo	78950	35419	42800	12856	60875 bc	31797
Average	62134A	32147	35800B	14245		
LSD _{0.05}	G: 14776.5; T: 5395.6 GT: 20897.2					

Mean values denoted by the same letters are not significantly different.

Table S7. Mean values, standard deviations and Fisher's least significant differences (LSDs) for PI (overall performance index of PSII photochemistry) in the first day of drought

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Table S8. Mean values, standard deviations and Fisher's least significant differences (LSDs) for ETo/CS (energy used for electron transport) in the first day of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	197.8	9.7	225.2	38.7	211.5 def	30.7
119	265.5	61.4	219.3	70.5	242.4 bc	68.2
12	249.3	60.9	197.8	19.4	223.5 cde	51.1
18	180.5	9.4	194.3	13.5	187.4 f	13.3
1b	192.6	6.0	169.9	17.7	181.2 f	17.3
23	216.7	34.5	247.5	43.4	232.1 cd	41.1
26	226.5	39.5	221.5	27.6	224.0 cde	33.0
35	322.8	38.5	242.4	30.3	282.6 a	53.3
42	253.4	64.4	187.5	12.0	220.5 cde	56.2
43	200.1	25.7	208.4	16.0	204.2 def	21.1
55	269.9	45.2	227.0	42.7	248.5 bc	47.9
78b	241.6	66.6	247.0	73.8	244.3 bc	68.0
83	191.0	14.0	208.6	48.5	199.8 ef	35.7
9	222.4	68.2	229.0	43.7	225.7 cde	55.5
Bingo	259.4	50.8	271.7	59.3	265.6 ab	53.7
Average	232.6A	56.6	219.8B	47		
LSD _{0.05}	G: 30.4; T: 11.093 GT: 42.962					

Mean values denoted by the same letters are not significantly different.

Table S9. Mean values, standard deviations and Fisher's least significant differences (LSDs) for RC/CSO (number of active reaction centres in the state of fully oxidized PSII reaction center) in the first day of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	157.8	7.3	156.6	19.8	157.2 bcd	14.4
119	159.2	8.9	166.1	42.3	162.7 bc	29.7
12	154.5	3.8	140.3	13.7	147.4 de	12.2
18	147.4	9.5	134.2	8.9	140.8 ef	11.2
1b	148.9	5	117.9	7	133.4 f	17
23	151	6.8	161	17.7	156.0 bcd	14
26	163.9	5.2	147.8	16.4	155.9 bcd	14.4
35	175.9	10.2	187.2	31	181.6 a	23
42	162.6	15	135	14.4	148.8 de	20.1
43	153.2	14.1	144.7	11	149.0 de	13
55	173.1	9.6	164	20.1	168.5 b	15.9
78b	152.2	9.5	160.4	33.5	156.3 bcd	24.2
83	159.1	5.1	150.2	36.5	154.6 cd	25.6
9	143.2	19.8	152.4	22.7	147.8 de	21.1
Bingo	144.3	12.6	170.4	25.7	157.3 bcd	23.8
Average	156.4A	13.5	152.5A	27.7		
LSD _{0.05}	G: 12.7; T: 4.65 GT: 18.0					

Mean values denoted by the same letters are not significantly different.

Table S10. Mean values, standard deviations and Fisher's least significant differences (LSDs) for chlorophyll *a* content (µg/g of d.w.) after two weeks of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	0.535	0.071	0.22	0.043	0.378 ab	0.173
119	0.545	0.089	0.176	0.023	0.360 bc	0.201
12	0.488	0.08	0.111	0.026	0.300 def	0.203
18	0.553	0.095	0.285	0.118	0.419 a	0.173
1b	0.306	0.075	0.221	0.044	0.264 fg	0.074
23	0.45	0.038	0.096	0.015	0.273 efg	0.185
26	0.471	0.065	0.084	0.006	0.278 defg	0.204
35	0.492	0.086	0.105	0.028	0.298 defg	0.209
42	0.471	0.07	0.085	0.01	0.278 defg	0.206
43	0.511	0.096	0.123	0.045	0.317 cde	0.213
55	0.519	0.117	0.098	0.024	0.308 def	0.232
78b	0.406	0.079	0.102	0.042	0.254 g	0.168
83	0.406	0.03	0.233	0.091	0.320 cd	0.111
9	0.492	0.099	0.098	0.006	0.295 defg	0.215
Bingo	0.511	0.029	0.082	0.007	0.297 defg	0.222
Average	0.477A	0.097	0.141B	0.078		
LSD _{0.05}	G: 0.0451; T: 0.0165 GT: 0.0637					

Mean values denoted by the same letters are not significantly different.

Table S11. Mean values, standard deviations and Fisher's least significant differences (LSDs) for chlorophyll *b* content (µg/g of d.w.) after two weeks of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	0.369	0.022	0.221	0.012	0.295 ab	0.078
119	0.367	0.024	0.217	0.01	0.292 ab	0.08
12	0.357	0.042	0.218	0.012	0.288 abc	0.078
18	0.359	0.042	0.237	0.035	0.298 a	0.074
1b	0.283	0.048	0.23	0.016	0.257 e	0.044
23	0.337	0.021	0.199	0.016	0.268 cde	0.073
26	0.355	0.029	0.195	0.025	0.275 bcde	0.087
35	0.372	0.033	0.191	0.023	0.281 abcd	0.097
42	0.367	0.038	0.207	0.026	0.287 abc	0.088
43	0.366	0.044	0.232	0.026	0.299 a	0.077
55	0.38	0.05	0.183	0.022	0.282 abcd	0.109
78b	0.337	0.034	0.196	0.013	0.266 de	0.077
83	0.341	0.016	0.227	0.042	0.284 abcd	0.066
9	0.358	0.046	0.215	0.009	0.287 abc	0.08
Bingo	0.332	0.024	0.197	0.018	0.264 de	0.073
Average	0.352A	0.041	0.211B	0.027		
LSD _{0.05}	G: 0.0208; T: 0.0076 GT: 0.0295					

Mean values denoted by the same letters are not significantly different.

Table S12. Mean values, standard deviations and Fisher's least significant differences (LSDs) for chlorophyll *a* and chlorophyll *b* content (µg/g of d.w.) after two weeks of drought

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Table S13. Mean values, standard deviations and Fisher's least significant differences (LSDs) for carotenoids content ($\mu\text{g/g}$ of d.w.) after two weeks of drought

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Table S14. Mean values, standard deviations and Fisher's least significant differences (LSDs) for Fv/Fm (maximum photochemical efficiency of PS II) after two weeks of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	0.838	0.004	0.8	0.038	0.819 a	0.033
119	0.677	0.179	0.475	0.149	0.576 f	0.191
12	0.731	0.104	0.808	0.024	0.769 abc	0.083
18	0.83	0.012	0.827	0.009	0.828 a	0.01
1b	0.827	0.007	0.799	0.038	0.813 ab	0.03
23	0.778	0.079	0.722	0.131	0.750 bcd	0.109
26	0.782	0.072	0.789	0.05	0.785 abc	0.06
35	0.561	0.122	0.685	0.084	0.623 e	0.12
42	0.782	0.111	0.78	0.05	0.781 abc	0.083
43	0.843	0.008	0.81	0.032	0.826 a	0.028
55	0.798	0.058	0.764	0.071	0.781 abc	0.065
78b	0.722	0.114	0.648	0.175	0.685 de	0.147
83	0.782	0.083	0.706	0.146	0.744 cd	0.121
9	0.712	0.164	0.633	0.164	0.673 e	0.164
Bingo	0.78	0.102	0.837	0.01	0.809 abc	0.076
Average	0.763A	0.116	0.739A	0.131		
LSD _{0.05}	G: 0.068; T: 0.025 GT: 0.096					

Mean values denoted by the same letters are not significantly different.

Table S15. Mean values, standard deviations and Fisher's least significant differences (LSDs) for area (pool size of electron acceptors from PSII) after two weeks of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	55100	5456	37950	5214	46525 b	10248
119	77000	33448	71750	25084	74375 a	28690
12	45475	7568	34850	7753	40163 bcde	9213
18	49000	1442	35050	7100	42025 bcd	8740
1b	52650	2943	30775	10700	41713 bcde	13604
23	44100	7595	27500	5554	35800 cdef	10714
26	44050	5229	29100	5986	36575 cdef	9438
35	60300	21877	27700	6704	44000 bc	22972
42	50575	5575	15975	11898	33275 ef	19995
43	42400	1894	31050	10895	36725 cdef	9561
55	44200	7764	17925	8674	31062 f	15727
78b	44975	7297	23875	7220	34425 def	12957
83	44875	12267	37800	14052	41338 bcde	13256
9	62425	29895	21875	6221	42150 bcd	29557
Bingo	47950	2818	32600	5647	40275 bcde	9023
Average	51005A	16097	31718B	15944		
LSD _{0.05}	G: 8657.8; T: 3161.4 GT: 12244					

Mean values denoted by the same letters are not significantly different.

Table S16. Mean values, standard deviations and Fisher's least significant differences (LSDs) for PI (overall performance index of PSII photochemistry) after two weeks of drought

Treatment (T)	Control		Drought		Average	
Genotype (G)	Mean	s.d.	Mean	s.d.	Mean	s.d.
114	3.16	0.684	1.703	0.773	2.431 ab	1.031
119	1.481	1.446	0.188	0.308	0.835 gh	1.211
12	1.292	1.093	1.679	0.513	1.486 def	0.849
18	3.252	0.796	2.63	0.731	2.941 a	0.805
1b	3.232	0.439	1.307	0.504	2.269 b	1.094
23	1.826	0.94	0.816	0.412	1.321 defg	0.874
26	2.103	1.107	1.224	0.663	1.663 cd	0.991
35	0.252	0.255	0.39	0.237	0.321 h	0.248
42	2.12	1.227	0.869	0.635	1.495 def	1.144
43	3.003	0.396	1.468	0.462	2.235 bc	0.895
55	2.146	1.269	0.868	0.58	1.507 de	1.16
78b	1.103	0.981	0.707	0.852	0.905 fgh	0.911
83	1.879	1.231	1.068	0.916	1.474 def	1.129
9	1.672	1.294	0.351	0.249	1.011 efg	1.129
Bingo	2.297	1.414	2.274	0.557	2.285 b	1.038
Average	2.054A	1.282	1.169B	0.876		
LSD _{0.05}	G: 0.59; T: 0.215 GT: 0.834					

Mean values denoted by the same letters are not significantly different.

Table S17. Mean values, standard deviations and Fisher's least significant differences (LSDs) for ETo/CS (energy used for electron transport) after two weeks of drought

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Table S18. Mean values, standard deviations and Fisher's least significant differences (LSDs) for RC/CSO (number of active reaction centres in the state of fully oxidized PSII reaction center) after two weeks of drought

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Table S19. Mean values, standard deviations and Fisher's least significant differences (LSDs) for the mass of stems/plant (g)

[illegible]

Table S20. Mean values, standard deviations and Fisher's least significant differences (LSDs) for the number of grains

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Table S21. Mean values, standard deviations and Fisher's least significant differences (LSDs) for the mass of grains/plant (g)

[illegible]