

No.	Drought	Cultivars	Treatment	Replicates	SFW / plant	Individual level dataset	
1	1	1	1	1	32.25	Shoot Fresh weight (S)	
2	1	1	1	2	32.8		
3	1	1	1	3	28.45		
4	1	1	1	4	34.45		
5	1	1	2	1	24.505		
6	1	1	2	2	32.605		
7	1	1	2	3	33.01		
8	1	1	2	4	34.15		
9	1	1	3	1	17.525		
10	1	1	3	2	25.555		
11	1	1	3	3	39.3		
12	1	1	3	4	31		
13	1	1	4	1	34.6		
14	1	1	4	2	27.575		
15	1	1	4	3	25.53		
16	1	1	4	4	26.95		
17	1	1	5	1	20.675		
18	1	1	5	2	24.155		
19	1	1	5	3	18.06		Cultivars Sadaf
20	1	1	5	4	19.63		
21	2	1	1	1	19.26		
22	2	1	1	2	25.65	Sultan	
23	2	1	1	3	28.05		
24	2	1	1	4	20.05		
25	2	1	2	1	20.06		
26	2	1	2	2	21.06		
27	2	1	2	3	13.155		
28	2	1	2	4	14.155		
29	2	1	3	1	21.56		
30	2	1	3	2	18.505		
31	2	1	3	3	21.56		
32	2	1	3	4	21.065		
33	2	1	4	1	23.15		
34	2	1	4	2	21.25		
35	2	1	4	3	18.4		
36	2	1	4	4	24.65		
37	2	1	5	1	21.4		
38	2	1	5	2	29.06		
39	2	1	5	3	26.18		
40	2	1	5	4	22.805		
41	3	1	1	1	12.9		
42	3	1	1	2	23.16		
43	3	1	1	3	20.06		
44	3	1	1	4	14.17		
45	3	1	2	1	13.17		

46	3	1	2	2	13.4
47	3	1	2	3	15.06
48	3	1	2	4	17.8
49	3	1	3	1	17.08
50	3	1	3	2	15.23
51	3	1	3	3	18.225
52	3	1	3	4	19.08
53	3	1	4	1	18.225
54	3	1	4	2	16.25
55	3	1	4	3	21.3
56	3	1	4	4	19.6
57	3	1	5	1	15.23
58	3	1	5	2	12.65
59	3	1	5	3	15.6
60	3	1	5	4	21.45
61	1	2	1	1	19.3
62	1	2	1	2	24.325
63	1	2	1	3	26.35
64	1	2	1	4	24.78
65	1	2	2	1	29.805
66	1	2	2	2	24.305
67	1	2	2	3	23.65
68	1	2	2	4	24.65
69	1	2	3	1	21.05
70	1	2	3	2	18.2
71	1	2	3	3	26.17
72	1	2	3	4	33.695
73	1	2	4	1	35.05
74	1	2	4	2	36.455
75	1	2	4	3	36.015
76	1	2	4	4	35.06
77	1	2	5	1	25.66
78	1	2	5	2	22.835
79	1	2	5	3	26.23
80	1	2	5	4	22.685
81	2	2	1	1	14.455
82	2	2	1	2	15.615
83	2	2	1	3	14.65
84	2	2	1	4	24.3
85	2	2	2	1	23.4
86	2	2	2	2	25.835
87	2	2	2	3	18.25
88	2	2	2	4	16.2
89	2	2	3	1	17.34
90	2	2	3	2	19.73
91	2	2	3	3	20.905

92	2	2	3	4	14.23
93	2	2	4	1	28.15
94	2	2	4	2	22.69
95	2	2	4	3	17.73
96	2	2	4	4	23.95
97	2	2	5	1	24.18
98	2	2	5	2	17.1
99	2	2	5	3	19.3
100	2	2	5	4	20.15
101	3	2	1	1	16.25
102	3	2	1	2	14.3
103	3	2	1	3	13.8
104	3	2	1	4	14.65
105	3	2	2	1	12.45
106	3	2	2	2	14.75
107	3	2	2	3	15.225
108	3	2	2	4	12.45
109	3	2	3	1	14.15
110	3	2	3	2	13.15
111	3	2	3	3	15.06
112	3	2	3	4	15.28
113	3	2	4	1	16.3
114	3	2	4	2	14.85
115	3	2	4	3	13.45
116	3	2	4	4	14.2
117	3	2	5	1	12.45
118	3	2	5	2	11.95
119	3	2	5	3	11.32
120	3	2	5	4	15.9

SDW

Individual level dataset
Shoot dry weight (SDW)

No.	Drought	Cultivars	Treatment	Replicates	SDW/plant
1	1	1	1	1	5.535
2	1	1	1	2	5.57
3	1	1	1	3	4.655
4	1	1	1	4	5.795
5	1	1	2	1	3.94
6	1	1	2	2	5.81
7	1	1	2	3	6.445
8	1	1	2	4	7.23
9	1	1	3	1	6.1
10	1	1	3	2	4.075

11	1	1	3	3	8.6
12	1	1	3	4	5.07
13	1	1	4	1	8.275
14	1	1	4	2	5.24
15	1	1	4	3	4.34
16	1	1	4	4	5.16
17	1	1	5	1	4.505
18	1	1	5	2	6.725
19	1	1	5	3	4.53
20	1	1	5	4	6.06
21	2	1	1	1	1.28
22	2	1	1	2	2.96
23	2	1	1	3	2.75
24	2	1	1	4	3.18
25	2	1	2	1	3.19
26	2	1	2	2	2.835
27	2	1	2	3	1.925
28	2	1	2	4	1.885
29	2	1	3	1	2.75
30	2	1	3	2	1.94
31	2	1	3	3	2.565
32	2	1	3	4	2.935
33	2	1	4	1	3.315
34	2	1	4	2	2.59
35	2	1	4	3	2.44
36	2	1	4	4	2.73
37	2	1	5	1	2.54
38	2	1	5	2	4.43
39	2	1	5	3	2.085
40	2	1	5	4	4.18
41	3	1	1	1	1.295
42	3	1	1	2	1.05
43	3	1	1	3	2.29
44	3	1	1	4	1.17
45	3	1	2	1	1.915
46	3	1	2	2	0.46
47	3	1	2	3	2.155
48	3	1	2	4	1.265
49	3	1	3	1	1.61
50	3	1	3	2	1.28
51	3	1	3	3	1.72
52	3	1	3	4	2.33
53	3	1	4	1	1.33
54	3	1	4	2	1.41
55	3	1	4	3	2.57
56	3	1	4	4	2.365

Cultivars Sadaf

Sultan

57	3	1	5	1	1.15
58	3	1	5	2	0.96
59	3	1	5	3	1.34
60	3	1	5	4	3.535
61	1	2	1	1	2.75
62	1	2	1	2	4.01
63	1	2	1	3	6.485
64	1	2	1	4	4.355
65	1	2	2	1	7.775
66	1	2	2	2	3.535
67	1	2	2	3	3.06
68	1	2	2	4	3.78
69	1	2	3	1	4.68
70	1	2	3	2	5.385
71	1	2	3	3	6.56
72	1	2	3	4	6.16
73	1	2	4	1	5.015
74	1	2	4	2	7.15
75	1	2	4	3	5.1
76	1	2	4	4	6.315
77	1	2	5	1	4.305
78	1	2	5	2	5.425
79	1	2	5	3	4.155
80	1	2	5	4	3.455
81	2	2	1	1	0.875
82	2	2	1	2	1.97
83	2	2	1	3	1.115
84	2	2	1	4	3.04
85	2	2	2	1	3.67
86	2	2	2	2	3.36
87	2	2	2	3	2.04
88	2	2	2	4	1.405
89	2	2	3	1	2.17
90	2	2	3	2	2.96
91	2	2	3	3	2.98
92	2	2	3	4	1.41
93	2	2	4	1	3.26
94	2	2	4	2	2.15
95	2	2	4	3	2.79
96	2	2	4	4	3.19
97	2	2	5	1	3.155
98	2	2	5	2	1.995
99	2	2	5	3	2.72
100	2	2	5	4	2.655
101	3	2	1	1	1.64
102	3	2	1	2	0.96

103	3	2	1	3	1.045
104	3	2	1	4	1.365
105	3	2	2	1	0.575
106	3	2	2	2	1.525
107	3	2	2	3	1.47
108	3	2	2	4	1.725
109	3	2	3	1	0.85
110	3	2	3	2	1.456
111	3	2	3	3	1.395
112	3	2	3	4	1.455
113	3	2	4	1	1.26
114	3	2	4	2	1.415
115	3	2	4	3	1.56
116	3	2	4	4	1.56
117	3	2	5	1	2.13
118	3	2	5	2	0.675
119	3	2	5	3	2.16
120	3	2	5	4	0.89

Individual level dataset captions Table 3

Chlorophyll content

Chlorophyll content under SBE and water deficit stress

No.	Drought	Cultivars	Treatment	Replicates	ak2*0.05 (Chl a)
1	1	1	1	1	1.20505
2	1	1	1	2	1.132938
3	1	1	1	3	1.095319
4	1	1	1	4	1.154497
5	1	1	2	1	1.301996
6	1	1	2	2	1.304686
7	1	1	2	3	1.237036
8	1	1	2	4	1.217175
9	1	1	3	1	1.306838
10	1	1	3	2	1.215256
11	1	1	3	3	1.328582
12	1	1	3	4	1.067032
13	1	1	4	1	1.255325
14	1	1	4	2	1.326991
15	1	1	4	3	1.420254
16	1	1	4	4	1.548162
17	1	1	5	1	1.050924
18	1	1	5	2	1.326118
19	1	1	5	3	1.58348
20	1	1	5	4	1.017021
21	2	1	1	1	0.634178
22	2	1	1	2	0.665386
23	2	1	1	3	1.416512

Cultivars Sadaf

Sultan

24	2	1	1	4	1.027377
25	2	1	2	1	1.209595
26	2	1	2	2	1.501078
27	2	1	2	3	1.305039
28	2	1	2	4	1.019134
29	2	1	3	1	1.22439
30	2	1	3	2	1.178282
31	2	1	3	3	1.082425
32	2	1	3	4	1.263021
33	2	1	4	1	1.192135
34	2	1	4	2	1.265416
35	2	1	4	3	1.147906
36	2	1	4	4	1.074216
37	2	1	5	1	1.325165
38	2	1	5	2	1.538809
39	2	1	5	3	1.577818
40	2	1	5	4	0.989616
41	3	1	1	1	0.557379
42	3	1	1	2	0.783508
43	3	1	1	3	0.761128
44	3	1	1	4	1.127483
45	3	1	2	1	1.108125
46	3	1	2	2	1.236752
47	3	1	2	3	1.173843
48	3	1	2	4	1.230392
49	3	1	3	1	1.202215
50	3	1	3	2	1.197376
51	3	1	3	3	1.217851
52	3	1	3	4	1.246377
53	3	1	4	1	1.167006
54	3	1	4	2	1.215906
55	3	1	4	3	1.137007
56	3	1	4	4	1.156222
57	3	1	5	1	1.106127
58	3	1	5	2	1.179558
59	3	1	5	3	1.662368
60	3	1	5	4	1.426877
61	1	2	1	1	1.280088
62	1	2	1	2	0.648622
63	1	2	1	3	1.061207
64	1	2	1	4	1.215226
65	1	2	2	1	1.276576
66	1	2	2	2	1.28056
67	1	2	2	3	1.359835
68	1	2	2	4	1.165838
69	1	2	3	1	1.322171

70	1	2	3	2	1.328797
71	1	2	3	3	1.326021
72	1	2	3	4	1.286567
73	1	2	4	1	1.275308
74	1	2	4	2	1.194897
75	1	2	4	3	1.12425
76	1	2	4	4	1.001392
77	1	2	5	1	1.234208
78	1	2	5	2	1.019868
79	1	2	5	3	1.170615
80	1	2	5	4	1.036377
81	2	2	1	1	0.664896
82	2	2	1	2	1.063043
83	2	2	1	3	0.44625
84	2	2	1	4	1.08931
85	2	2	2	1	1.246448
86	2	2	2	2	0.679265
87	2	2	2	3	0.641057
88	2	2	2	4	1.305846
89	2	2	3	1	1.264548
90	2	2	3	2	1.232406
91	2	2	3	3	1.127143
92	2	2	3	4	1.094083
93	2	2	4	1	1.241145
94	2	2	4	2	1.165243
95	2	2	4	3	1.171295
96	2	2	4	4	1.203262
97	2	2	5	1	1.469258
98	2	2	5	2	1.369458
99	2	2	5	3	0.526485
100	2	2	5	4	0.96256
101	3	2	1	1	0.196854
102	3	2	1	2	0.267774
103	3	2	1	3	0.258649
104	3	2	1	4	0.168953
105	3	2	2	1	0.296458
106	3	2	2	2	0.35552
107	3	2	2	3	0.308599
108	3	2	2	4	0.308599
109	3	2	3	1	0.268952
110	3	2	3	2	0.234569
111	3	2	3	3	0.312655
112	3	2	3	4	0.267661
113	3	2	4	1	0.333542
114	3	2	4	2	0.235678
115	3	2	4	3	0.569245

0.580316 0.290158

116	3	2	4	4	0.336216
117	3	2	5	1	0.52286
118	3	2	5	2	0.40148
119	3	2	5	3	0.326848
120	3	2	5	4	0.401458

captions Table 1
 FW) under SBE and water deficit stress

	CV1								
	100%FC					75% FC			
	0%	1%	2%	3%	4%	0%	1%	2%	
	32.25	24.505	17.525	34.6	20.675	19.26	20.06	21.56	
	32.8	32.605	25.555	27.575	24.155	25.65	21.06	18.505	
	28.45	33.01	39.3	25.53	18.06	28.05	13.155	21.56	
	34.45	34.15	31	26.95	19.63	20.05	14.155	21.065	
Mean	31.9875	31.0675	28.345	28.66375	20.63	23.2525	17.1075	20.6725	
SD	2.536853	4.423627	9.163652	4.048941	2.584089	4.28019	4.028193	1.46372	
SE	1.268427	2.211813	4.581826	2.02447	1.292045	2.140095	2.014097	0.73186	

	0%	1%	2%	3%	4% SBE
100% FC	31.9875	31.0675	28.345	28.66375	20.63
75% FC	23.2525	17.1075	20.6725	21.8625	24.86125
60% FC	17.5725	14.8575	17.40375	18.84375	16.2325
100% FC	23.68875	25.6025	24.77875	35.645	24.3525
75% FC	17.255	20.92125	18.05125	23.13	20.1825
60% FC	14.75	13.71875	14.41	14.7	12.905

captions Table 2
 v) under SBE and water deficit stress

	CV1				75% FC			
	100%FC				75% FC			
	0%	1%	2%	3%	4%	0%	1%	2%
	5.535	3.94	6.1	8.275	4.505	1.28	3.19	2.75
	5.57	5.81	4.075	5.24	6.725	2.96	2.835	1.94
	4.655	6.445	8.6	4.34	4.53	2.75	1.925	2.565
	5.795	7.23	5.07	5.16	6.06	3.18	1.885	2.935
Mean	5.38875	5.85625	5.96125	5.75375	5.455	2.5425	2.45875	2.5475
SD	0.50255	1.403326	1.943752	1.729342	1.116102	0.859782	0.655838	0.432252

SE 0.251275 0.701663 0.971876 0.864671 0.558051 0.429891 0.327919 0.216126

	0%	1%	2%	3%	4% SBE
100% FC	5.38875	5.85625	5.96125	5.75375	5.455
75% FC	2.5425	2.45875	2.5475	2.76875	3.30875
60% FC	1.45125	1.44875	1.735	1.91875	1.74625
100% FC	4.4	4.5375	5.69625	5.895	4.335
75% FC	1.75	2.61875	2.38	2.8475	2.63125
60% FC	1.2525	1.32375	1.289	1.44875	1.46375

CV1

100%FC

75% FC

	0%	1%	2%	3%	4%	0%	1%	2%
	1.20505	1.301996	1.306838	1.255325	1.050924	0.634178	1.209595	1.22439
	1.132938	1.304686	1.215256	1.326991	1.326118	0.665386	1.501078	1.178282
	1.095319	1.237036	1.328582	1.420254	1.58348	1.416512	1.305039	1.082425
	1.154497	1.217175	1.067032	1.548162	1.017021	1.027377	1.019134	1.263021
Mean	1.146951	1.265223	1.229427	1.387683	1.244386	0.935863	1.258711	1.187029
SD	0.045806	0.044769	0.11888	0.126513	0.26507	0.366774	0.200581	0.077865
SE	0.022903	0.022384	0.05944	0.063256	0.132535	0.183387	0.10029	0.038933

	0%	1%	2%	3%	4% SBE
100% FC	1.146951	1.265223	1.229427	1.387683	1.244386
75% FC	0.935863	1.258711	1.187029	1.169918	1.357852
60% FC	0.807374	1.187278	1.215955	1.169035	1.343732
100% FC	1.051285	1.270702	1.315889	1.148962	1.115267
75% FC	0.815875	0.968154	1.179545	1.195236	1.08194

60% FC 0.223057 0.317294 0.270959 0.36867 0.413161

60% FC					CV2 100%FC			
3%	4%	0%	1%	2%	3%	4%	0%	1%
23.15	21.4	12.9	13.17	17.08	18.225	15.23	19.3	29.805
21.25	29.06	23.16	13.4	15.23	16.25	12.65	24.325	24.305
18.4	26.18	20.06	15.06	18.225	21.3	15.6	26.35	23.65
24.65	22.805	14.17	17.8	19.08	19.6	21.45	24.78	24.65
21.8625	24.86125	17.5725	14.8575	17.40375	18.84375	16.2325	23.68875	25.6025
2.695173	3.443691	4.858569	2.134735	1.664759	2.138182	3.717601	3.051722	2.832197
1.347587	1.721845	2.429284	1.067367	0.83238	1.069091	1.858801	1.525861	1.416099

		0%	1%	2%	3%	4%
Cv1	100% FC	1.268427	2.211813	4.581826	2.02447	1.292045
	75% FC	2.140095	2.014097	0.73186	1.347587	1.721845
	60% FC	2.429284	1.067367	0.83238	1.069091	1.858801
Cv2	100% FC	1.525861	1.416099	3.398757	0.352284	0.927269
	75% FC	2.361985	2.230749	1.473938	2.145274	1.479349
	60% FC	0.529544	0.738902	0.486021	0.605186	1.024748

60% FC					CV2 100%FC			
3%	4%	0%	1%	2%	3%	4%	0%	1%
3.315	2.54	1.295	1.915	1.61	1.33	1.15	2.75	7.775
2.59	4.43	1.05	0.46	1.28	1.41	0.96	4.01	3.535
2.44	2.085	2.29	2.155	1.72	2.57	1.34	6.485	3.06
2.73	4.18	1.17	1.265	2.33	2.365	3.535	4.355	3.78
2.76875	3.30875	1.45125	1.44875	1.735	1.91875	1.74625	4.4	4.5375
0.382935	1.169732	0.568043	0.758852	0.43852	0.639979	1.202549	1.551757	2.178931

0.191468 0.584866 0.284022 0.379426 0.21926 0.319989 0.601274 0.775879 1.089466

		0%	1%	2%	3%	4%
Cv1	100% FC	0.251275	0.701663	0.971876	0.864671	0.558051
	75% FC	0.429891	0.327919	0.216126	0.191468	0.584866
	60% FC	0.284022	0.379426	0.21926	0.319989	0.601274
Cv2	100% FC	0.775879	1.089466	0.41741	0.512986	0.407819
	75% FC	0.490013	0.537178	0.374322	0.254505	0.239369
	60% FC	0.155838	0.255525	0.147027	0.0716	0.395808

60% FC					CV2 100%FC			
3%	4%	0%	1%	2%	3%	4%	0%	1%
1.192135	1.325165	0.557379	1.108125	1.202215	1.167006	1.106127	1.280088	1.276576
1.265416	1.538809	0.783508	1.236752	1.197376	1.215906	1.179558	0.648622	1.28056
1.147906	1.577818	0.761128	1.173843	1.217851	1.137007	1.662368	1.061207	1.359835
1.074216	0.989616	1.127483	1.230392	1.246377	1.156222	1.426877	1.215226	1.165838
1.169918	1.357852	0.807374	1.187278	1.215955	1.169035	1.343732	1.051285	1.270702
0.080118	0.269442	0.236415	0.059867	0.022084	0.03362	0.252884	0.283703	0.079735
0.040059	0.134721	0.118207	0.029934	0.011042	0.01681	0.126442	0.141852	0.039867

		0%	1%	2%	3%	4%
Cv1	100% FC	0.022903	0.022384	0.05944	0.063256	0.132535
	75% FC	0.183387	0.10029	0.038933	0.040059	0.134721
	60% FC	0.118207	0.029934	0.011042	0.01681	0.126442
Cv2	100% FC	0.141852	0.039867	0.009868	0.058067	0.05207
	75% FC	0.156864	0.178403	0.040896	0.017428	0.215148

60% FC 0.023945 0.013059 0.016015 0.070831 0.040576

75% FC					60% FC			
2%	3%	4%	0%	1%	2%	3%	4%	0%
21.05	35.05	25.66	14.455	23.4	17.34	28.15	24.18	16.25
18.2	36.455	22.835	15.615	25.835	19.73	22.69	17.1	14.3
26.17	36.015	26.23	14.65	18.25	20.905	17.73	19.3	13.8
33.695	35.06	22.685	24.3	16.2	14.23	23.95	20.15	14.65
24.77875	35.645	24.3525	17.255	20.92125	18.05125	23.13	20.1825	14.75
6.797515	0.704568	1.854537	4.723969	4.461499	2.947876	4.290548	2.958698	1.059088
3.398757	0.352284	0.927269	2.361985	2.230749	1.473938	2.145274	1.479349	0.529544

75% FC					60% FC			
2%	3%	4%	0%	1%	2%	3%	4%	0%
4.68	5.015	4.305	0.875	3.67	2.17	3.26	3.155	1.64
5.385	7.15	5.425	1.97	3.36	2.96	2.15	1.995	0.96
6.56	5.1	4.155	1.115	2.04	2.98	2.79	2.72	1.045
6.16	6.315	3.455	3.04	1.405	1.41	3.19	2.655	1.365
5.69625	5.895	4.335	1.75	2.61875	2.38	2.8475	2.63125	1.2525
0.834819	1.025971	0.815639	0.980026	1.074355	0.748643	0.50901	0.478737	0.311676

0.41741 0.512986 0.407819 0.490013 0.537178 0.374322 0.254505 0.239369 0.155838

		75% FC				60% FC			
2%	3%	4%	0%	1%	2%	3%	4%	0%	
1.322171	1.275308	1.234208	0.664896	1.246448	1.264548	1.241145	1.469258	0.196854	
1.328797	1.194897	1.019868	1.063043	0.679265	1.232406	1.165243	1.369458	0.267774	
1.326021	1.12425	1.170615	0.44625	0.641057	1.127143	1.171295	0.526485	0.258649	
1.286567	1.001392	1.036377	1.08931	1.305846	1.094083	1.203262	0.96256	0.168953	
1.315889	1.148962	1.115267	0.815875	0.968154	1.179545	1.195236	1.08194	0.223057	
0.019736	0.116134	0.104139	0.313728	0.356806	0.081792	0.034856	0.430296	0.047889	
0.009868	0.058067	0.05207	0.156864	0.178403	0.040896	0.017428	0.215148	0.023945	

1%	2%	3%	4%
12.45	14.15	16.3	12.45
14.75	13.15	14.85	11.95
15.225	15.06	13.45	11.32
12.45	15.28	14.2	15.9
13.71875	14.41	14.7	12.905
1.477805	0.972043	1.210372	2.049496
0.738902	0.486021	0.605186	1.024748

1%	2%	3%	4%
0.575	0.85	1.26	2.13
1.525	1.456	1.415	0.675
1.47	1.395	1.56	2.16
1.725	1.455	1.56	0.89
1.32375	1.289	1.44875	1.46375
0.511051	0.294053	0.1432	0.791616

0.255525 0.147027 0.0716 0.395808

1%	2%	3%	4%
0.296458	0.268952	0.333542	0.52286
0.35552	0.234569	0.235678	0.40148
0.308599	0.312655	0.569245	0.326848
0.308599	0.267661	0.336216	0.401458
0.317294	0.270959	0.36867	0.413161
0.026119	0.03203	0.141662	0.081153
0.013059	0.016015	0.070831	0.040576