Table 4. Mean squares for agronomical studied traits during two growing season under normal irrigation and water stress.

Source of variation	DF	Mean squares											
		Plant height (cm)		Spike length (cm)		Number of spikes per row		Number of spikelets/ spike		Grain yield per row (g)		100-grain weight (g)	
		2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018	2016/2017	2017/2018
Rep	2	67	173	0.7	1.7	663.1	1381	14.4	3.2	396.2	1120	0.14	0.16
Irrigation (I)	1	2731*	5560**	5.4*	80.3*	173520**	46625*	62.7*	31.9*	1797947**	565873**	7.7**	17.2**
Error(a)	2	39.7	44.7	0.27	0.9	291.9	2485	2.5	1.7	1757	16.9	0.09	0.06
Genotypes (G)	31	151.1**	68.1	3.3**	3.72**	15715**	3857**	8.1**	5.7**	25732**	11453**	0.53**	0.18**
Error(b)	62	32.7	30.8	1.3	0.9	1049	304	2.1	2.6	868.4	559.5	0.61	0.08
I*G	31	59.8**	55.3**	1.8*	2.11**	4968**	1756**	2.8*	5.4**	9464**	7514**	0.03	0.11*
Error (C)	62	20.5	25.1	1.00	0.76	1031	314	1.4	2.5	985.1	549.4	0.028	0.06

*,** Significant at 0.05 and 0.01 level of probability, respectively.

Table 5. Combined analysis of variance for agronomical traits over two growing seasons under normal irrigation and water stress.

Source of variation	DF	Mean squares					
		Plant height (cm)	Spike length (cm)	Number of spikes per row	Number of spikelets/ spike	Grain yield per row (g)	100-grain weight (g)
Year (Y)	1	444	50.1	311334**	347**	484418**	14.8**
Error (Y)	4	71	9.9	1806	13.6	744	0.15*
Irrigation (I)	1	8039**	47.5*	200026**	89.1**	2190578**	24.0**
Y*I	1	261*	38.1*	20126*	2.5	173242**	0.954**
Error (I)	4	33	2.7	1388	3.6	887.0	0.08
Genotypes (G)	31	166**	4.9**	14424**	7.7**	28365**	0.33**
Y*G	31	54*	2.0*	5147**	5.7*	8820**	0.38**
Error (G)	124	32	1.2	677	2.6	713.9	0.07**
I*G	31	64.0**	2.7**	3890**	4.4*	10453**	0.08*
Y*I*G	31	40*	1.0	2833**	1.6	6524**	0.06
Error (I*G)	124	24	0.6	673	2.3	767	0.04

$^{*, **}$ Significant at 0.05 and 0.01 level of probability, respectively.

Table 6. Mean Plant height, cm, reduction % (R) and drought susceptibility index (DSI) for all genotypes during the two and over the two seasons under normal irrigation and water stress.

Genotypes	2016/ 2017					2017/ 2018					Combined Over Two seasons				
	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI
C 102	93.67	88.33	**91.00**	5.69	0.73	91.67	85.00	**88.33**	7.27	0.68	92.67	86.67	**89.67**	6.47	0.71
C 103	86.67	86.67	**86.67**	0.00	0.00	98.33	76.33	**87.33**	22.37	2.09	92.50	81.50	**87.00**	11.89	1.05
C 108	101.67	99.33	**100.50**	2.30	0.30	100.33	91.67	**96.00**	8.64	0.81	101.00	95.50	**98.25**	5.45	0.55
C 109	91.00	90.00	**90.50**	1.10	0.14	89.67	84.33	**87.00**	5.95	0.56	90.33	87.17	**88.75**	3.51	0.35
C 112	99.00	92.00	**95.50**	7.07	0.91	96.67	89.00	**92.83**	7.93	0.74	97.83	90.50	**94.17**	7.50	0.82
C 113	101.67	94.67	**98.17**	6.89	0.88	102.00	93.33	**97.67**	8.50	0.79	101.83	94.00	**97.92**	7.69	0.84
C 114	98.67	88.67	**93.67**	10.14	1.30	94.67	86.00	**90.33**	9.15	0.86	96.67	87.33	**92.00**	9.66	1.08
C 118	101.33	94.67	**98.00**	6.58	0.84	105.33	93.67	**99.50**	11.08	1.03	103.33	94.17	**98.75**	8.87	0.94
C 120	112.00	91.67	**101.83**	18.15	2.33	100.33	90.00	**95.17**	10.30	0.96	106.17	90.83	**98.50**	14.44	1.65
C 124	106.00	93.33	**99.67**	11.95	1.53	102.67	87.67	**95.17**	14.61	1.36	104.33	90.50	**97.42**	13.26	1.45
C 128	97.67	89.33	**93.50**	8.53	1.10	100.33	92.67	**96.50**	7.64	0.71	99.00	91.00	**95.00**	8.08	0.90
C 129	100.00	96.67	**98.33**	3.33	0.43	100.67	89.00	**94.83**	11.59	1.08	100.33	92.83	**96.58**	7.48	0.76
C 134	103.33	90.33	**96.83**	12.58	1.61	98.67	91.33	**95.00**	7.43	0.69	101.00	90.83	**95.92**	10.07	1.15
C 137	105.33	95.00	**100.17**	9.81	1.26	99.33	92.67	**96.00**	6.71	0.63	102.33	93.83	**98.08**	8.31	0.94
C 138	95.67	93.00	**94.33**	2.79	0.36	96.33	95.00	**95.67**	1.38	0.13	96.00	94.00	**95.00**	2.08	0.24
C 142	105.00	96.67	**100.83**	7.94	1.02	104.67	91.67	**98.17**	12.42	1.16	104.83	94.17	**99.50**	10.17	1.09
C 144	99.00	93.33	**96.17**	5.72	0.73	99.00	97.67	**98.33**	1.35	0.13	99.00	95.50	**97.25**	3.54	0.43
C 146	107.00	96.67	**101.83**	9.66	1.24	104.00	95.00	**99.50**	8.65	0.81	105.50	95.83	**100.67**	9.16	1.02
C 147	104.33	90.67	**97.50**	13.10	1.68	107.67	94.00	**100.83**	12.69	1.19	106.00	92.33	**99.17**	12.89	1.43
C 148	103.33	92.67	**98.00**	10.32	1.33	98.00	94.33	**96.17**	3.74	0.35	100.67	93.50	**97.08**	7.12	0.84
Assiut-217	110.00	103.33	**106.67**	6.06	0.78	106.00	85.33	**95.67**	19.50	1.82	108.00	94.33	**101.17**	12.65	1.30
Assiut-230	108.00	100.00	**104.00**	7.41	0.95	103.33	85.00	**94.17**	17.74	1.66	105.67	92.50	**99.08**	12.46	1.30
Assiut-401	108.67	100.00	**104.33**	7.98	1.02	107.33	91.67	**99.50**	14.60	1.36	108.00	95.83	**101.92**	11.27	1.19
Assiut-704	103.33	100.00	**101.67**	3.23	0.41	101.67	88.67	**95.17**	12.79	1.19	102.50	94.33	**98.42**	7.97	0.80
Assiut-733	105.00	87.00	**96.00**	17.14	2.20	103.67	86.67	**95.17**	16.40	1.53	104.33	86.83	**95.58**	16.77	1.87
MK1-10	105.33	101.00	**103.17**	4.11	0.53	104.67	88.33	**96.50**	15.61	1.46	105.00	94.67	**99.83**	9.84	0.99
MK1-20	96.67	91.00	**93.83**	5.86	0.75	108.00	90.67	**99.33**	16.05	1.50	102.33	90.83	**96.58**	11.24	1.13
Mubarak	103.33	95.00	**99.17**	8.06	1.04	103.00	88.33	**95.67**	14.24	1.33	103.17	91.67	**97.42**	11.15	1.18
Sel-188	102.33	96.67	**99.50**	5.54	0.71	101.00	92.67	**96.83**	8.25	0.77	101.67	94.67	**98.17**	6.89	0.74
Sel-542	110.00	101.00	**105.50**	8.18	1.05	104.00	92.67	**98.33**	10.90	1.02	107.00	96.83	**101.92**	9.50	1.03
Giza-168	90.67	83.33	**87.00**	8.09	1.04	97.67	91.67	**94.67**	6.14	0.57	94.17	87.50	**90.83**	7.08	0.81
Sids-12	96.33	86.67	**91.50**	10.03	1.29	98.67	91.67	**95.17**	7.09	0.66	97.50	89.17	**93.33**	8.55	0.98
Mean	101.63	93.71				100.92	90.11				101.27	91.91			
F Test Irrigation (I)	S					H.S					H.S				
R LSD (G)	6.59					7.88					4.44				
R LSD I x G	8.17					10.05					4.86				
Reduction %	7.79					10.70					9.24				

S and H.S, significant and highly significant at 0.05 and 0.01 level of probability, respectively.

Table 7. Mean spike length, cm, reduction % (R) and drought susceptibility index (DSI) for all genotypes during the two and over the two seasons under normal irrigation and water stress.

Genotypes	2016 /2017					2017/2018					Combined Over Two seasons				
	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI
C 102	12.00	11.67	11.84	2.75	0.50	11.33	9.67	10.50	14.71	1.26	11.67	10.67	11.17	8.56	0.88
C 103	11.33	10.33	10.83	8.82	1.61	12.33	10.33	11.33	16.22	1.39	11.83	10.33	11.08	12.68	1.50
C 108	12.33	11.33	11.83	8.11	1.48	12.33	10.67	11.50	13.51	1.16	12.33	11.00	11.67	10.81	1.32
C 109	11.33	10.67	11.00	5.88	1.07	12.67	10.00	11.33	21.05	1.80	12.00	10.33	11.17	13.89	1.44
C 112	13.00	12.67	12.83	2.56	0.47	13.00	11.67	12.33	10.26	0.88	13.00	12.17	12.58	6.41	0.67
C 113	13.67	12.67	13.17	7.32	1.34	12.00	11.33	11.67	5.56	0.48	12.83	12.00	12.42	6.49	0.91
C 114	12.00	11.33	11.67	5.56	1.01	11.67	9.67	10.67	17.14	1.47	11.83	10.50	11.17	11.27	1.24
C 118	12.00	12.00	12.00	0.00	0.00	11.67	10.00	10.83	14.29	1.22	11.83	11.00	11.42	7.04	0.61
C 120	11.67	11.67	11.67	0.00	0.00	11.33	11.00	11.17	2.94	0.25	11.50	11.33	11.42	1.45	0.13
C 124	12.00	12.67	12.33	-5.56	-1.01	13.00	11.67	12.33	10.26	0.88	12.50	12.17	12.33	2.67	-0.07
C 128	12.33	12.00	12.17	2.70	0.49	11.67	11.67	11.67	0.00	0.00	12.00	11.83	11.92	1.39	0.25
C 129	12.00	12.00	12.00	0.00	0.00	12.67	10.67	11.67	15.79	1.35	12.33	11.33	11.83	8.11	0.68
C 134	12.00	11.67	11.84	2.75	0.50	11.00	10.67	10.83	3.03	0.26	11.50	11.17	11.33	2.88	0.38
C 137	11.67	11.00	11.33	5.71	1.04	10.67	9.67	10.17	9.37	0.80	11.17	10.33	10.75	7.46	0.92
C 138	11.00	10.67	10.83	3.03	0.55	10.67	9.00	9.83	15.63	1.34	10.83	9.83	10.33	9.23	0.95
C 142	11.33	11.33	11.33	-0.03	-0.01	11.33	9.33	10.33	17.65	1.51	11.33	10.33	10.83	8.81	0.75
C 144	11.67	11.00	11.33	5.71	1.04	11.67	10.67	11.17	8.57	0.73	11.67	10.83	11.25	7.14	0.89
C 146	11.33	11.33	11.33	0.00	0.00	11.00	10.00	10.50	9.09	0.78	11.17	10.67	10.92	4.48	0.39
C 147	12.00	11.33	11.67	5.56	1.01	12.33	10.00	11.17	18.92	1.62	12.17	10.67	11.42	12.33	1.32
C 148	11.67	11.67	11.67	0.00	0.00	12.00	10.33	11.17	13.89	1.19	11.83	11.00	11.42	7.04	0.59
Assiut-217	12.33	12.33	12.33	0.00	0.00	11.33	10.67	11.00	5.88	0.50	11.83	11.50	11.67	2.82	0.25
Assiut-230	14.33	13.33	13.83	6.98	1.27	11.67	10.00	10.83	14.29	1.22	13.00	11.67	12.33	10.26	1.25
Assiut-401	13.67	12.00	12.83	12.20	2.23	11.33	9.33	10.33	17.65	1.51	12.50	10.67	11.58	14.67	1.87
Assiut-704	13.00	12.00	12.50	7.69	1.40	13.67	10.33	12.00	24.39	2.09	13.33	11.17	12.25	16.25	1.75
Assiut-733	12.67	12.00	12.33	5.26	0.96	12.33	11.00	11.67	10.81	0.93	12.50	11.50	12.00	8.00	0.94
MK1-10	13.67	11.67	12.67	14.63	2.67	10.67	10.67	10.67	0.00	0.00	12.17	11.17	11.67	8.22	1.34
MK1-20	14.33	12.00	13.17	16.28	2.97	12.67	12.00	12.33	5.26	0.45	13.50	12.00	12.75	11.11	1.71
Mubarak	12.67	11.67	12.17	7.89	1.44	13.67	10.00	11.83	26.83	2.30	13.17	10.83	12.00	17.72	1.87
Sel-188	12.00	9.33	10.67	22.25	4.06	11.33	11.33	11.33	0.00	0.00	11.67	10.33	11.00	11.44	2.03
Sel-542	13.33	12.33	12.83	7.50	1.37	14.33	13.00	13.67	9.30	0.80	13.83	12.67	13.25	8.43	1.08
Giza-168	12.33	12.00	12.17	2.68	0.49	12.00	10.67	11.33	11.11	0.95	12.17	11.33	11.75	6.84	0.72
Sids-12	12.67	12.00	12.34	5.29	0.97	11.33	11.00	11.17	2.94	0.25	12.00	11.50	11.75	4.18	0.61
Mean	12.35	11.68				11.96	10.56				12.16	11.12			
F Test Irrigation (I)	S					S					S				
R LSD (G)	1.5					1.1					0.89				
R LSD I x G	2.2					1.5					0.87				
Reduction %	5.48					11.67					8.53				

S, significant at 0.05 level of probability, respectively.

Table 8. Mean number of spikes/row reduction % (R) and drought susceptibility index (DSI) for all genotypes during the two and over the two seasons under normal irrigation and water stress.

Genotypes	2016/2017					2017/ 2018					Combined Over Two seasons				
	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI
C 102	240.00	170.00	205.00	29.17	1.08	173.33	128.00	150.67	26.15	1.38	206.67	149.00	177.83	27.90	1.23
C 103	151.33	110.00	130.67	27.31	1.01	180.00	154.67	167.33	14.07	0.75	165.67	132.33	149.00	20.12	0.88
C 108	280.67	155.33	218.00	44.66	1.65	184.33	137.33	160.83	25.50	1.35	232.50	146.33	189.42	37.06	1.50
C 109	278.33	166.00	222.17	40.36	1.49	173.33	152.00	162.67	12.31	0.65	225.83	159.00	192.42	29.59	1.07
C 112	151.67	125.67	138.67	17.14	0.63	166.67	142.00	154.34	14.80	0.78	159.17	133.83	146.50	15.92	0.71
C 113	303.67	202.33	253.00	33.37	1.24	190.33	189.33	189.83	0.53	0.03	247.00	195.83	221.42	20.72	0.63
C 114	230.00	183.33	206.67	20.29	0.75	175.67	168.00	171.83	4.36	0.23	202.83	175.67	189.25	13.39	0.49
C 118	235.00	202.00	218.50	14.04	0.52	239.67	162.67	201.17	32.13	1.70	237.33	182.33	209.83	23.17	1.11
C 120	202.33	168.00	185.17	16.97	0.63	192.67	155.00	173.83	19.55	1.04	197.50	161.50	179.50	18.23	0.83
C 124	314.00	265.00	289.50	15.61	0.58	231.33	150.00	190.67	35.16	1.86	272.67	207.50	240.08	23.90	1.22
C 128	134.67	108.00	121.34	19.80	0.73	133.67	125.33	129.50	6.23	0.33	134.17	116.67	125.42	13.04	0.53
C 129	241.33	177.33	209.33	26.52	0.98	210.00	175.33	192.67	16.51	0.87	225.67	176.33	201.00	21.86	0.93
C 134	227.33	161.33	194.33	29.03	1.07	186.67	150.33	168.50	19.46	1.03	207.00	155.83	181.42	24.72	1.05
C 137	244.00	238.00	241.00	2.46	0.09	178.00	164.33	171.17	7.68	0.41	211.00	201.17	206.08	4.66	0.25
C 138	224.33	219.33	221.83	2.23	0.08	188.67	172.67	180.67	8.48	0.45	206.50	196.00	201.25	5.08	0.27
C 142	258.33	160.33	209.33	37.94	1.40	163.00	146.33	154.67	10.22	0.54	210.67	153.33	182.00	27.22	0.97
C 144	338.00	170.33	254.17	49.61	1.84	201.67	179.33	190.50	11.07	0.59	269.83	174.83	222.33	35.21	1.21
C 146	255.00	183.33	219.17	28.10	1.04	171.33	168.00	169.67	1.95	0.10	213.17	175.67	194.42	17.59	0.57
C 147	272.33	175.00	223.67	35.74	1.32	179.00	170.00	174.50	5.03	0.27	225.67	172.50	199.08	23.56	0.79
C 148	275.00	174.67	224.83	36.48	1.35	208.33	151.33	179.83	27.36	1.45	241.67	163.00	202.33	32.55	1.40
Assiut-217	230.67	185.67	208.17	19.51	0.72	213.00	171.00	192.00	19.72	1.04	221.83	178.33	200.08	19.61	0.88
Assiut-230	415.33	286.33	350.83	31.06	1.15	280.33	147.00	213.67	47.56	2.52	347.83	216.67	282.25	37.71	1.83
Assiut-401	403.00	233.00	318.00	42.18	1.56	184.00	148.67	166.33	19.20	1.02	293.50	190.83	242.17	34.98	1.29
Assiut-704	241.33	172.33	206.83	28.59	1.06	133.33	96.00	114.67	28.00	1.48	187.33	134.17	160.75	28.38	1.27
Assiut-733	336.67	255.00	295.83	24.26	0.90	248.33	164.33	206.33	33.83	1.79	292.50	209.67	251.08	28.32	1.34
MK1-10	339.00	245.33	292.17	27.63	1.02	221.33	201.00	211.17	9.19	0.49	280.17	223.17	251.67	20.35	0.75
MK1-20	249.00	208.33	228.67	16.33	0.60	138.33	122.33	130.33	11.57	0.61	193.67	165.33	179.50	14.63	0.61
Mubarak	337.00	282.67	309.83	16.12	0.60	256.67	177.00	216.83	31.04	1.64	296.83	229.83	263.33	22.57	1.12
Sel-188	305.00	224.00	264.50	26.56	0.98	165.33	155.00	160.17	6.25	0.33	235.17	189.50	212.33	19.42	0.66
Sel-542	218.33	186.33	202.33	14.66	0.54	146.00	121.00	133.50	17.12	0.91	182.17	153.67	167.92	15.65	0.72
Giza-168	268.33	230.33	249.33	14.16	0.52	203.33	156.00	179.67	23.28	1.23	235.83	193.17	214.50	18.09	0.88
Sids-12	269.33	157.00	213.17	41.71	1.54	160.00	128.33	144.17	19.79	1.05	214.67	142.67	178.67	33.54	1.30
Mean	264.70	193.18				189.93	154.05				227.31	173.61			
F Test Irrigation (I)	H.S					S					H.S				
R LSD (G)	34.0					18.4					18.7				
R LSD I x G	52.0					28.2					28.4				
Reduction %	27.02					18.89					23.62				

S and H.S, significant and highly significant at 0.05 and 0.01 level of probability, respectively.

Table 9. Mean number of spikelets/spike, reduction % (R) and drought susceptibility index (DSI) for all genotypes during the two and over the two seasons under normal irrigation and water stress.

Genotypes (G)	2016/ 2017					2017 /2018					Combined Over Two seasons				
	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI
C 102	23.67	22.33	23.00	5.63	0.99	20.33	19.00	19.67	6.56	1.24	22.00	20.67	21.33	6.06	1.11
C 103	20.33	20.33	20.33	0.00	0.00	21.00	19.00	20.00	9.52	1.80	20.67	19.67	20.17	4.84	0.90
C 108	23.67	21.67	22.67	8.45	1.48	21.67	21.00	21.34	3.09	0.58	22.67	21.33	22.00	5.89	1.03
C 109	23.67	21.67	22.67	8.45	1.48	20.33	17.67	19.00	13.11	2.48	22.00	19.67	20.83	10.61	1.98
C 112	24.33	21.67	23.00	10.96	1.92	21.00	20.33	20.67	3.19	0.60	22.67	21.00	21.83	7.36	1.26
C 113	22.33	21.00	21.67	5.97	1.05	21.67	21.00	21.33	3.08	0.58	22.00	21.00	21.50	4.55	0.81
C 114	23.67	22.33	23.00	5.63	0.99	22.33	21.67	22.00	2.99	0.56	23.00	22.00	22.50	4.35	0.78
C 118	23.00	21.00	22.00	8.70	1.53	19.67	19.00	19.33	3.39	0.64	21.33	20.00	20.67	6.25	1.08
C 120	22.33	21.67	22.00	2.99	0.52	19.00	18.33	18.67	3.51	0.66	20.67	20.00	20.33	3.23	0.59
C 124	21.00	21.00	21.00	0.00	0.00	21.00	18.33	19.67	12.70	2.40	21.00	19.67	20.33	6.35	1.20
C 128	21.67	21.00	21.33	3.08	0.54	20.33	20.33	20.33	0.00	0.00	21.00	20.67	20.83	1.59	0.27
C 129	21.67	21.00	21.33	3.08	0.54	22.33	17.33	19.83	22.39	4.23	22.00	19.17	20.58	12.88	2.38
C 134	21.00	20.33	20.67	3.17	0.56	21.00	20.33	20.67	3.17	0.60	21.00	20.33	20.67	3.17	0.58
C 137	22.33	21.00	21.67	5.97	1.05	21.00	20.33	20.67	3.19	0.60	21.67	20.67	21.17	4.62	0.83
C 138	20.33	19.67	20.00	3.28	0.58	19.67	19.00	19.33	3.39	0.64	20.00	19.33	19.67	3.33	0.61
C 142	21.67	19.67	20.67	9.23	1.62	19.00	17.67	18.34	7.00	1.32	20.33	18.67	19.50	8.19	1.47
C 144	23.00	21.67	22.34	5.78	1.01	19.67	19.67	19.67	0.00	0.00	21.33	20.67	21.00	3.12	0.51
C 146	21.00	20.33	20.67	3.19	0.56	21.00	20.33	20.67	3.19	0.60	21.00	20.33	20.67	3.19	0.58
C 147	23.00	21.00	22.00	8.70	1.53	21.00	21.00	21.00	0.00	0.00	22.00	21.00	21.50	4.55	0.76
C 148	22.33	22.33	22.33	0.00	0.00	21.67	21.67	21.67	0.00	0.00	22.00	22.00	22.00	0.00	0.00
Assiut-217	23.00	23.00	23.00	0.00	0.00	21.00	21.00	21.00	0.00	0.00	22.00	22.00	22.00	0.00	0.00
Assiut-230	23.00	22.33	22.67	2.90	0.51	19.00	18.33	18.67	3.51	0.66	21.00	20.33	20.67	3.17	0.59
Assiut-401	23.67	21.00	22.33	11.27	1.98	19.00	17.67	18.33	7.02	1.33	21.33	19.33	20.33	9.37	1.65
Assiut-704	21.00	21.00	21.00	0.00	0.00	20.33	19.67	20.00	3.28	0.62	20.67	20.33	20.50	1.61	0.31
Assiut-733	23.67	21.67	22.67	8.45	1.48	21.00	19.00	20.00	9.52	1.80	22.33	20.33	21.33	8.96	1.64
MK1-10	23.67	21.67	22.67	8.45	1.48	21.00	20.33	20.67	3.19	0.60	22.33	21.00	21.67	5.98	1.04
MK1-20	24.33	22.33	23.33	8.22	1.44	19.67	19.67	19.67	0.00	0.00	22.00	21.00	21.50	4.55	0.72
Mubarak	23.00	21.67	22.33	5.80	1.02	22.33	19.67	21.00	11.94	2.26	22.67	20.67	21.67	8.82	1.64
Sel-188	27.00	25.00	26.00	7.41	1.30	20.33	20.33	20.33	0.00	0.00	23.67	22.67	23.17	4.23	0.65
Sel-542	22.33	21.00	21.67	5.97	1.05	23.00	18.33	20.67	20.29	3.83	22.67	19.67	21.17	13.24	2.44
Giza-168	22.33	19.00	20.67	14.93	2.62	20.33	19.67	20.00	3.28	0.62	21.33	19.33	20.33	9.37	1.62
Sids-12	22.33	21.67	22.00	2.96	0.52	19.67	19.67	19.67	0.00	0.00	21.00	20.67	20.83	1.57	0.26
Mean	22.67	21.38				20.67	19.57				21.67	20.47			
F Test Irrigation (I)	S					S					H.S				
R LSD (G)	1.7					2.3					1.4				
R LSD I x G	2.5					3.2					2.2				
Reduction %	5.70					5.29					5.51				

S and H.S, significant and highly significant at 0.05 and 0.01 level of probability, respectively.

Table 10. Mean grain yield/row reduction % (R) and drought susceptibility index (DSI) for all genotypes during the two and over the two seasons under normal irrigation and water stress.

Genotypes (G)	2016/2017					2017/ 2018					Combined Over Two seasons				
	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI
C 102	349.69	249.55	299.62	28.64	0.70	340.18	260.06	300.12	23.55	0.80	344.94	254.80	299.87	26.13	0.75
C 103	332.81	111.66	222.23	66.45	1.63	327.01	256.18	291.59	21.66	0.74	329.91	183.92	256.91	44.25	1.19
C 108	452.89	238.56	345.73	47.32	1.16	364.95	246.70	305.82	32.40	1.10	408.92	242.63	325.78	40.67	1.13
C 109	534.82	248.69	391.76	53.50	1.32	273.77	171.69	222.73	37.28	1.27	404.29	210.19	307.24	48.01	1.29
C 112	489.67	207.97	348.82	57.53	1.41	355.52	249.09	302.31	29.93	1.02	422.59	228.53	325.56	45.92	1.22
C 113	538.78	311.71	425.25	42.14	1.04	340.72	331.33	336.03	2.76	0.09	439.75	321.52	380.64	26.89	0.56
C 114	466.08	318.25	392.16	31.72	0.78	374.13	251.43	312.78	32.80	1.12	420.10	284.84	352.47	32.20	0.95
C 118	493.06	330.80	411.93	32.91	0.81	453.05	288.57	370.81	36.31	1.24	473.06	309.69	391.37	34.54	1.02
C 120	348.62	224.45	286.53	35.62	0.88	355.92	302.75	329.33	14.94	0.51	352.27	263.60	307.93	25.17	0.69
C 124	534.06	324.80	429.43	39.18	0.96	482.70	198.84	340.77	58.81	2.00	508.38	261.82	385.10	48.50	1.48
C 128	322.27	192.46	257.37	40.28	0.99	265.61	214.48	240.05	19.25	0.66	293.94	203.47	248.71	30.78	0.82
C 129	557.96	279.04	418.50	49.99	1.23	331.30	244.37	287.84	26.24	0.89	444.63	261.71	353.17	41.14	1.06
C 134	442.18	287.10	364.64	35.07	0.86	342.04	246.23	294.13	28.01	0.95	392.11	266.66	329.39	31.99	0.91
C 137	445.85	317.58	381.72	28.77	0.71	265.41	248.27	256.84	6.46	0.22	355.63	282.93	319.28	20.44	0.46
C 138	427.79	246.85	337.32	42.30	1.04	359.34	268.98	314.16	25.15	0.86	393.57	257.92	325.74	34.47	0.95
C 142	372.68	229.46	301.07	38.43	0.94	360.81	156.28	258.55	56.69	1.93	366.75	192.87	279.81	47.41	1.44
C 144	641.30	293.02	467.16	54.31	1.33	497.05	341.81	419.43	31.23	1.06	569.18	317.41	443.29	44.23	1.20
C 146	439.50	224.94	332.22	48.82	1.20	307.86	233.82	270.84	24.05	0.82	373.68	229.38	301.53	38.62	1.01
C 147	429.09	299.16	364.12	30.28	0.74	363.85	261.21	312.53	28.21	0.96	396.47	280.18	338.33	29.33	0.85
C 148	478.05	286.57	382.31	40.05	0.98	350.30	267.21	308.75	23.72	0.81	414.17	276.89	345.53	33.15	0.90
Assiut-217	541.96	276.52	409.24	48.98	1.20	331.12	240.60	285.86	27.34	0.93	436.54	258.56	347.55	40.77	1.07
Assiut-230	628.66	336.63	482.65	46.45	1.14	362.40	313.95	338.18	13.37	0.46	495.53	325.29	410.41	34.36	0.80
Assiut-401	709.51	336.69	523.10	52.55	1.29	564.29	238.33	401.31	57.76	1.97	636.90	287.51	462.21	54.86	1.63
Assiut-704	357.84	348.86	353.35	2.51	0.06	357.11	195.87	276.49	45.15	1.54	357.47	272.37	314.92	23.81	0.80
Assiut-733	555.32	363.05	459.19	34.62	0.85	344.85	305.11	324.98	11.52	0.39	450.09	334.08	392.08	25.77	0.62
MK1-10	527.57	361.65	444.61	31.45	0.77	335.03	329.76	332.40	1.57	0.05	431.30	345.71	388.50	19.84	0.41
MK1-20	468.23	313.83	391.03	32.98	0.81	250.72	238.63	244.68	4.82	0.16	359.48	276.23	317.85	23.16	0.49
Mubarak	525.31	327.01	426.16	37.75	0.93	436.37	315.47	375.92	27.71	0.94	480.84	321.24	401.04	33.19	0.94
Sel-188	438.55	350.41	394.48	20.10	0.49	332.72	249.68	291.20	24.96	0.85	385.64	300.04	342.84	22.20	0.67
Sel-542	547.22	252.79	400.00	53.81	1.32	349.47	171.74	260.61	50.86	1.73	448.34	212.27	330.30	52.66	1.53
Giza-168	372.73	278.69	325.71	25.23	0.62	350.28	275.71	313.00	21.29	0.72	361.51	277.20	319.35	23.32	0.67
Sids-12	453.82	261.86	357.84	42.30	1.04	365.49	202.70	284.09	44.54	1.52	409.65	232.28	320.97	43.30	1.28
Mean	475.75	282.21				359.10	253.65				417.43	267.93			
F Test Irrigation (I)	H.S					H.S					H.S				
R LSD (G)	42.11					24.54					18.75				
R LSD I x G	33.70					34.91					28.66				
Reduction %	40.68					29.37					35.81				

H.S, highly significant at 0.01 level of probability.

Table 11. Mean the 100-grain weight, gm, reduction % (R) and drought susceptibility index (DSI) for all genotypes during the two and over the two seasons under normal irrigation and water stress.

Genotypes(G)	2016/2017					2017/2018					Combined Over Two seasons				
	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI	Normal	Drought	Mean	R%	DSI
C 102	4.04	3.87	3.96	4.21	0.45	4.48	3.97	4.23	11.45	0.95	4.26	3.92	4.09	8.02	0.70
C 103	3.72	3.44	3.58	7.44	0.79	4.87	4.02	4.45	17.51	1.45	4.30	3.73	4.01	13.15	1.12
C 108	4.07	3.64	3.86	10.48	1.11	5.15	4.05	4.60	21.29	1.76	4.61	3.85	4.23	16.52	1.44
C 109	4.02	3.86	3.94	4.14	0.44	4.35	4.03	4.19	7.43	0.62	4.19	3.94	4.06	5.85	0.53
C 112	3.73	3.43	3.58	8.04	0.85	4.31	4.19	4.25	2.78	0.23	4.02	3.81	3.92	5.22	0.54
C 113	3.92	3.46	3.69	11.82	1.25	4.48	4.06	4.27	9.44	0.78	4.20	3.76	3.98	10.55	1.02
C 114	3.88	3.61	3.75	6.79	0.72	4.82	4.13	4.48	14.44	1.20	4.35	3.87	4.11	11.03	0.96
C 118	4.40	3.83	4.11	13.03	1.38	4.43	4.45	4.44	-0.38	-0.03	4.42	4.14	4.28	6.30	0.67
C 120	4.15	3.59	3.87	13.49	1.43	5.10	4.25	4.68	16.66	1.38	4.63	3.92	4.27	15.24	1.40
C 124	4.49	4.13	4.31	7.88	0.83	4.89	4.13	4.51	15.61	1.29	4.69	4.13	4.41	11.91	1.06
C 128	4.74	4.53	4.64	4.57	0.48	4.78	4.12	4.45	13.68	1.13	4.76	4.33	4.54	9.14	0.81
C 129	4.61	4.29	4.45	6.80	0.72	4.87	4.28	4.58	12.05	1.00	4.74	4.29	4.51	9.50	0.86
C 134	4.39	3.90	4.15	11.09	1.17	4.62	4.00	4.31	13.36	1.11	4.50	3.95	4.23	12.25	1.14
C 137	4.20	3.46	3.83	17.63	1.87	4.79	4.15	4.47	13.42	1.11	4.50	3.80	4.15	15.39	1.49
C 138	4.65	4.03	4.34	13.47	1.43	4.40	3.81	4.11	13.55	1.12	4.53	3.92	4.22	13.51	1.27
C 142	4.48	3.94	4.21	12.05	1.28	4.74	4.28	4.51	9.63	0.80	4.61	4.11	4.36	10.81	1.04
C 144	4.71	4.19	4.45	11.05	1.17	4.78	4.06	4.42	15.12	1.25	4.75	4.12	4.43	13.10	1.21
C 146	4.03	3.52	3.78	12.50	1.32	4.74	3.81	4.28	19.55	1.62	4.38	3.67	4.03	16.31	1.47
C 147	3.95	3.47	3.71	12.31	1.30	4.82	4.36	4.59	9.55	0.79	4.38	3.91	4.15	10.79	1.05
C 148	4.57	4.35	4.46	4.81	0.51	5.03	3.89	4.46	22.73	1.88	4.80	4.12	4.46	14.20	1.20
Assiut-217	4.53	3.97	4.25	12.36	1.31	4.55	4.37	4.46	3.88	0.32	4.54	4.17	4.36	8.11	0.82
Assiut-230	4.71	3.94	4.33	16.35	1.73	4.59	3.83	4.21	16.56	1.37	4.65	3.89	4.27	16.45	1.55
Assiut-401	4.38	3.98	4.18	9.13	0.97	4.92	4.01	4.47	18.55	1.54	4.65	4.00	4.32	14.12	1.25
Assiut-704	4.46	4.08	4.27	8.59	0.91	4.59	4.14	4.36	9.88	0.82	4.53	4.11	4.32	9.24	0.86
Assiut-733	3.97	3.60	3.79	9.16	0.97	4.92	4.54	4.73	7.66	0.63	4.44	4.07	4.26	8.33	0.80
MK1-10	4.09	3.75	3.92	8.39	0.89	5.21	4.35	4.78	16.51	1.37	4.65	4.05	4.35	12.94	1.13
MK1-20	4.07	3.59	3.83	11.80	1.25	4.59	4.42	4.51	3.70	0.31	4.33	4.00	4.17	7.51	0.78
Mubarak	3.83	3.67	3.75	4.01	0.42	4.49	4.19	4.34	6.75	0.56	4.16	3.93	4.05	5.49	0.49
Sel-188	4.23	3.99	4.11	5.60	0.59	4.61	4.31	4.46	6.44	0.53	4.42	4.15	4.28	6.04	0.56
Sel-542	4.39	4.20	4.30	4.18	0.44	4.72	4.06	4.39	14.11	1.17	4.56	4.13	4.34	9.33	0.81
Giza-168	3.72	3.65	3.68	1.97	0.21	4.68	4.21	4.44	10.05	0.83	4.20	3.93	4.06	6.47	0.52
Sids-12	3.97	3.36	3.66	15.29	1.62	4.51	4.17	4.34	7.40	0.61	4.24	3.77	4.00	11.09	1.12
Mean	4.22	3.82				4.71	4.15				4.47	3.98			
F Test Irrigation (I)	H.S					H.S					H.S				
R LSD (G)	0.81					0.36					0.20				
R LSD I x G	0.38					0.58					0.31				
Reduction %	9.45					12.07					10.83				

H.S, highly significant at 0.01 level of probability.