

Table (3): Mean performance of spike length and number of spikelets/spike for Gemmeiza-11, Shandawel-1, Sids-12 and Sahel-1 as influenced by gamma rays irradiation treatments and their interaction in M₂ generation under water steers.

Treatments	Spike length/cm				Mean	Number of spikelets /spike				Mean
	Control	150Gy	250Gy	350Gy		Control	150Gy	250Gy	350Gy	
Gemmeiza-11	15.2	15.63	15.86	15.23	15.48	23.6	23.6	22.4	21.6	22.80
Sids-12	13.7	14.4	13.5	13.01	13.38	21.2	21.5	20.8	20.6	23.70
Shandawel-1	13.42	12.92	13.63	13.58	13.65	23.8	23.8	23.6	23.6	21.02
Sahel-1	12.38	12.64	11.58	11.45	12.01	22.2	22.6	21.0	21.26	21.76
Mean	13.67	13.89	13.64	13.31		22.70	22.87	21.95	21.76	
L.S.D										
G	0.371					0.764				
Ga	0.625					0.730				
G × Ga	1.143					1.474				

Table (4): Mean performance of number of infertile spikelets/spike and spike number spikes/plant for Gemmeiza-11, Shandawel-1, Sids-12 and Sahel-1 as influenced by gamma rays irradiation treatments and their interaction in M₂ generation under water steers.

Treatments	Number of infertile spikelets/spike				Mean	Number spikes/plant				Mean
	Control	150Gy	250Gy	350Gy		Control	150Gy	250Gy	350Gy	
Gemmeiza-11	1.76	1.96	1.83	1.76	1.832	5.50	5.70	4.83	6.30	5.58
Sids-12	0.93	0.93	1.26	1.90	3.216	5.33	5.23	5.53	4.74	5.77
Shandawel-1	3.00	3.36	3.23	3.26	1.258	6.36	4.93	5.83	5.96	5.20
Sahel-1	1.26	1.33	1.80	2.20	1.649	5.50	5.86	6.96	6.06	6.09
Mean	1.741	1.899	2.033	2.283		5.67	5.43	5.78	5.76	
L.S.D										
G	0.392					0.661				
G	0.467					0.630				
Ga	0.898					1.272				
G × Ga	0.392					0.661				

Table (5): Mean performance of number of grain/spike and spike grain weight for Gemmeiza-11, Shandawel-1, Sids-12 and Sahel-1 as influenced by gamma rays treatments and their interaction in M₂ generation under water stress.

Treatments	Number of grain/spike				Mean	Spike grain weight(g)				Mean
	Control	150Gy	250Gy	350Gy		Control	150Gy	250Gy	350Gy	
Gemmeiza-11	67.93	67.93	68	71.5	68.84	3.93	4.00	4.51	3.57	4.00
Sids-12	66.06	84.9	94.76	82.73	65.27	3.42	4.19	3.12	3.03	3.04
Shandawel-1	64.06	66.33	64.06	66.66	62.11	2.99	3.02	3.14	3.02	3.43
Sahel-1	70.5	63.13	66.56	54.06	63.56	2.85	3.31	2.32	2.44	2.73
Mean	67.13	70.57	73.34	68.73		3.29	3.62	3.27	3.02	
L.S.D										
G	4.624					0.341				
Ga	5.678					0.235				
G × Ga	10.847					0.530				

Table (6): Mean performance of 1000-grain weight and grain yield /plant for Gemmeiza-11, Shandawel-1, Sids-12 and Sahel-1 as influenced by gamma rays treatments and their interaction in M₂ generation under water stress.

Treatments	1000-Grain weight				Mean	Grain yield plant (g)				Mean
	Control	150Gy	250Gy	350Gy		Control	150Gy	250Gy	350Gy	
Gemmeiza-11	59.52	58.62	51.57	53.8	55.87	17.8	21.58	18.83	19.22	19.35
Sids-12	40.69	44.32	37.84	42.89	46.39	17.54	17.94	14.57	12.38	15.81
Shandawel-1	45.31	47.25	47.16	45.84	41.43	17.11	13.91	16.38	15.85	15.60
Sahel-1	44.31	50.15	42.48	43.61	45.13	14.12	16.84	13.58	13.44	14.49
Mean	47.45	50.08	44.76	46.53		16.64	17.56	15.84	15.22	19.35
L.S.D										
G	3.572					2.686				
Ga	2.338					2.238				
G × Ga	5.381					4.477				