

**Table 2.** Number of spikes/m<sup>2</sup> and grain weight/spike (gm) of some wheat genotypes as affected by chemical desiccation and water regime.

Main effect and interaction	No. of spikes/m <sup>2</sup>				Grain weight/spike(gm)			
	1 <sup>st</sup> season	2 <sup>nd</sup> season	3 <sup>rd</sup> season	Combined	1 <sup>st</sup> season	2 <sup>nd</sup> season	3 <sup>rd</sup> season	Combined
<b>Genotypes (G)</b>								
Sakha 69	297.33 <sup>d</sup>	40.33 <sup>b</sup>	353.33 <sup>bc</sup>	353.00 <sup>b</sup>	1.21 <sup>b</sup>	1.09 <sup>b</sup>	1.12 <sup>b</sup>	1.14 <sup>b</sup>
Sahel 1	321.17 <sup>bc</sup>	391.50 <sup>bc</sup>	368.83 <sup>b</sup>	361.51 <sup>b</sup>	1.12 <sup>e</sup>	1.05 <sup>c</sup>	1.03 <sup>c</sup>	1.07 <sup>c</sup>
Gemmeiza 5	264.33 <sup>e</sup>	359.40 <sup>e</sup>	333.97 <sup>d</sup>	322.01 <sup>c</sup>	1.13 <sup>c</sup>	1.01 <sup>d</sup>	0.96 <sup>d</sup>	1.03 <sup>cd</sup>
Giza168	314.43 <sup>bcd</sup>	390.03 <sup>bcd</sup>	343.00 <sup>cd</sup>	349.39 <sup>b</sup>	1.04 <sup>d</sup>	1.01 <sup>d</sup>	0.97 <sup>d</sup>	1.00 <sup>d</sup>
Bocro-4	321.67 <sup>b</sup>	379.17 <sup>cd</sup>	358.33 <sup>bc</sup>	351.94 <sup>b</sup>	1.20 <sup>b</sup>	1.09 <sup>b</sup>	1.08 <sup>b</sup>	1.12 <sup>b</sup>
Seri 82	347.67 <sup>a</sup>	430.17 <sup>a</sup>	424.7 <sup>a</sup>	402.39 <sup>a</sup>	1.31 <sup>a</sup>	1.18 <sup>a</sup>	1.19 <sup>a</sup>	1.23 <sup>a</sup>
F. test	**	**	**	**	**	**	**	**
L.S.D <sub>0.05</sub>	19.09	16.90	1.70	24.37	0.02	0.025	0.04	0.04
<b>Treatments (T)</b>								
Control	405.28 <sup>a</sup>	448.22 <sup>a</sup>	445.28 <sup>a</sup>	433.74 <sup>a</sup>	1.73 <sup>a</sup>	1.51 <sup>a</sup>	1.52 <sup>a</sup>	1.59 <sup>a</sup>
NaClO <sub>3</sub> at vegetative stage	282.67 <sup>def</sup>	323.89 <sup>d</sup>	373.661 <sup>bc</sup>	325.74 <sup>cd</sup>	1.30 <sup>c</sup>	1.15 <sup>b</sup>	1.10 <sup>bc</sup>	1.19 <sup>bc</sup>
NaClO <sub>3</sub> at flowering stage	315.56 <sup>c</sup>	421.94 <sup>a</sup>	361.11 <sup>cd</sup>	368.06 <sup>bc</sup>	1.09 <sup>e</sup>	1.13 <sup>c</sup>	1.07 <sup>cd</sup>	1.10 <sup>cd</sup>
NaClO <sub>3</sub> at grain filling period	352.78 <sup>b</sup>	441.94 <sup>a</sup>	402.22 <sup>b</sup>	398.98 <sup>ab</sup>	1.03 <sup>f</sup>	0.91 <sup>f</sup>	0.95 <sup>ef</sup>	0.97 <sup>ef</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at vegetative stage	368.89 <sup>b</sup>	416.04 <sup>a</sup>	383.28 <sup>bc</sup>	389.52 <sup>ab</sup>	1.33 <sup>b</sup>	1.18 <sup>b</sup>	1.16 <sup>b</sup>	1.22 <sup>b</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at flowering stage	23.61 <sup>efg</sup>	338.61 <sup>cd</sup>	398.1 <sup>b</sup>	333.61 <sup>cd</sup>	1.09 <sup>e</sup>	1.06 <sup>d</sup>	1.01 <sup>de</sup>	1.05 <sup>de</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at grain filling period	287.50 <sup>cde</sup>	431.67 <sup>a</sup>	342.22 <sup>d</sup>	359.35 <sup>bc</sup>	1.03 <sup>f</sup>	0.80 <sup>g</sup>	0.91 <sup>fg</sup>	0.92 <sup>g</sup>
Missing two irrigation at vegetative stage	279.72 <sup>def</sup>	370.00 <sup>b</sup>	288.89 <sup>e</sup>	313.81 <sup>cd</sup>	1.21 <sup>d</sup>	1.12 <sup>c</sup>	1.09 <sup>c</sup>	1.14 <sup>cd</sup>
Missing two irrigation at flowering stage	245.00 <sup>g</sup>	361.7 <sup>c</sup>	268.06 <sup>e</sup>	290. <sup>46d</sup>	0.85 <sup>g</sup>	0.92 <sup>f</sup>	0.85 <sup>g</sup>	0.87 <sup>g</sup>
Missing two irrigation at grain filling period	310.00 <sup>cd</sup>	364.44 <sup>c</sup>	373.61 <sup>bc</sup>	353.80 <sup>bc</sup>	1.01 <sup>f</sup>	0.93 <sup>f</sup>	0.92 <sup>f</sup>	0.95 <sup>fg</sup>
<b>F-test</b>	**	**	**	<b>*8</b>	**	**	**	**
L.S.D <sub>0.05</sub>	31.46	36.79	31.09	55.81	0.03	0.035	0.07	0.10
Interaction (G. x T.)	**	**	**	N.S	**	**	*	*

A,b,c .. Means with the some alphabetical letters are not significantly different at P<0.05.

**Table 3.** Number of grains /spike and 1000-grain weight (gm) of some wheat genotypes as affected by chemical desiccation and water regime.

Main effect and interaction	Number of grains /spike				1000-grain weight (gm)			
	1 <sup>st</sup> season	2 <sup>nd</sup> season	3 <sup>rd</sup> season	Combined	1 <sup>st</sup> season	2 <sup>nd</sup> season	3 <sup>rd</sup> season	Combined
<b>Genotypes (G)</b>								
Sakha 69	27.39 <sup>b</sup>	23.64 <sup>b</sup>	25.67 <sup>b</sup>	25.5 <sup>b</sup>	37.84 <sup>b</sup>	31.33 <sup>c</sup>	31.65 <sup>c</sup>	33.663 <sup>b</sup>
Sahel 1	31.78 <sup>a</sup>	24.95 <sup>b</sup>	27.94 <sup>a</sup>	28.28 <sup>a</sup>	35.94 <sup>c</sup>	30.10 <sup>d</sup>	30.26 <sup>d</sup>	32.19 <sup>c</sup>
Gemmeiza 5	26.30 <sup>c</sup>	24.92 <sup>b</sup>	23.25 <sup>d</sup>	24.77 <sup>b</sup>	37.49 <sup>b</sup>	31.4 <sup>bc</sup>	31.29 <sup>c</sup>	33.44 <sup>b</sup>
Giza168	25.51 <sup>d</sup>	24.84 <sup>b</sup>	24.40 <sup>c</sup>	24.89 <sup>b</sup>	34.98 <sup>c</sup>	30.07 <sup>d</sup>	28.6 <sup>e</sup>	31.24 <sup>d</sup>
Bocro-4	27.37 <sup>b</sup>	23.16 <sup>b</sup>	25.2 <sup>bc</sup>	25.33 <sup>b</sup>	37.64 <sup>b</sup>	32.18 <sup>b</sup>	23.55 <sup>b</sup>	34.06 <sup>b</sup>
Seri 82	31.67 <sup>a</sup>	27.54 <sup>a</sup>	28.85 <sup>a</sup>	29.35 <sup>a</sup>	39.82 <sup>a</sup>	33.95 <sup>a</sup>	33.59 <sup>a</sup>	35.90 <sup>a</sup>
F. test	**	**	**	**	**	**	**	**
L.S.D <sub>0.05</sub>	0.71	1.98	0.92	2.21	1.27	0.76	0.82	0.69
<b>Treatments (T)</b>								
Control	35.47 <sup>a</sup>	31.01 <sup>a</sup>	32.16 <sup>a</sup>	32.88 <sup>a</sup>	42.18 <sup>a</sup>	37.44 <sup>a</sup>	38.23 <sup>a</sup>	39.22 <sup>a</sup>
NaClO <sub>3</sub> at vegetative stage	24.90 <sup>h</sup>	21.59 <sup>f</sup>	23.22 <sup>g</sup>	23.23 <sup>de</sup>	38.19 <sup>b</sup>	33.38 <sup>b</sup>	33.75 <sup>b</sup>	35.11 <sup>bc</sup>
NaClO <sub>3</sub> at flowering stage	26.54 <sup>g</sup>	27.27 <sup>b</sup>	24.63 <sup>ef</sup>	26.14 <sup>bcd</sup>	37.56 <sup>b</sup>	31.69 <sup>c</sup>	31.69 <sup>c</sup>	33.80 <sup>c</sup>
NaClO <sub>3</sub> at grain filling period	31.58 <sup>b</sup>	24.44 <sup>cd</sup>	28.71 <sup>b</sup>	28.28 <sup>b</sup>	34.53 <sup>c</sup>	29.83 <sup>e</sup>	29.50 <sup>ef</sup>	31.47 <sup>d</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at vegetative stage	28.89 <sup>d</sup>	22.02 <sup>ef</sup>	23.46 <sup>fg</sup>	24.90 <sup>cd</sup>	39.25 <sup>b</sup>	31.16 <sup>cd</sup>	31.32 <sup>d</sup>	33.95 <sup>bc</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at flowering stage	38.37 <sup>e</sup>	24.34 <sup>cde</sup>	27.14 <sup>c</sup>	2.62 <sup>bc</sup>	35.16 <sup>c</sup>	30.3d <sup>e</sup>	30.78 <sup>de</sup>	32.10 <sup>d</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at grain filling period	29.20 <sup>d</sup>	26.67 <sup>b<sup>c</sup></sup>	25.70 <sup>de</sup>	27.10 <sup>bc</sup>	34.90 <sup>c</sup>	29.49 <sup>e</sup>	28.93 <sup>f</sup>	31.11 <sup>d</sup>
Missing two irrigation at vegetative stage	27.50 <sup>f</sup>	24.53 <sup>cd</sup>	26.53 <sup>cd</sup>	2.18 <sup>bcd</sup>	39.6 <sup>b</sup>	31.74 <sup>c</sup>	30.86 <sup>de</sup>	34.08 <sup>bc</sup>
Missing two irrigation at flowering stage	20.40 <sup>f</sup>	23.06 <sup>def</sup>	21.54 <sup>h</sup>	21.68 <sup>e</sup>	39.44 <sup>b</sup>	33.90 <sup>b</sup>	32.96 <sup>bc</sup>	35.43 <sup>b</sup>
Missing two irrigation at grain filling period	30.52 <sup>c</sup>	23.49 <sup>def</sup>	25.86 <sup>cde</sup>	26.62 <sup>bc</sup>	31.99 <sup>d</sup>	2.4 <sup>f</sup>	25.00 <sup>g</sup>	27.82 <sup>e</sup>
<b>F-test</b>	**	**	**	**	**	**	**	**
L.S.D <sub>0.05</sub>	0.76	2.38	1.32	3.02	2.21	0.89	1.37	1.56
<b>Interaction (G. x T.)</b>	**	<b>N.S</b>	<b>N.S</b>	*	*	**	**	<b>N.S</b>

A,b,c .. Means with the some alphabetical letters are not significantly different at P<0.05.

**Table 4.** Grain yield (t/he) of some wheat genotypes as affected by chemical desiccations and water regime.

<b>Main effect and Interaction</b>	<b>1<sup>st</sup> season</b>	<b>2<sup>nd</sup> season</b>	<b>3<sup>rd</sup> season</b>	<b>Combined</b>
<b>Genotypes (G)</b>				
Sakha 69	2.978 <sup>d</sup>	2.876 <sup>b</sup>	2.779 <sup>d</sup>	2.878 <sup>d</sup>
Sahel 1	3.551 <sup>b</sup>	2.846 <sup>b</sup>	3.019 <sup>b</sup>	3.139 <sup>b</sup>
Gemmeiza 5	2.524 <sup>f</sup>	2.741 <sup>d</sup>	2.351 <sup>e</sup>	2.539 <sup>f</sup>
Giza168	2.715 <sup>e</sup>	2.824 <sup>c</sup>	2.321 <sup>f</sup>	2.620 <sup>e</sup>
Bocro-4	3.206 <sup>c</sup>	2.734 <sup>d</sup>	2.850 <sup>c</sup>	2.930 <sup>c</sup>
Seri 82	4.241 <sup>a</sup>	3.893 <sup>a</sup>	3.911 <sup>a</sup>	4.015 <sup>a</sup>
F. test	**	**	**	**
L.S.D <sub>0.05</sub>	0.035	0.048	0.021	0.050
<b>Treatments (T)</b>				
Control	5.621 <sup>a</sup>	4.826 <sup>a</sup>	5.089 <sup>a</sup>	5.179 <sup>a</sup>
NaClO <sub>3</sub> at vegetative stage	2.603 <sup>p</sup>	2.258 <sup>i</sup>	2.946 <sup>c</sup>	2.569 <sup>e</sup>
NaClO <sub>3</sub> at flowering stage	2.945 <sup>e</sup>	3.429 <sup>b</sup>	2.626 <sup>e</sup>	3.000 <sup>b</sup>
NaClO <sub>3</sub> at grain filling period	3.149 <sup>d</sup>	3.333 <sup>c</sup>	2.721 <sup>d</sup>	3.068 <sup>b</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at vegetative stage	3.94 <sup>b</sup>	2.664 <sup>g</sup>	2.626 <sup>e</sup>	3.079 <sup>b</sup>
Mg (ClO <sub>3</sub> ) <sub>2</sub> at flowering stage	2.588 <sup>p</sup>	2.419 <sup>h</sup>	3.221 <sup>b</sup>	2.743 <sup>d</sup>
Mg( ClO <sub>3</sub> ) <sub>2</sub> at grain filling period	3.446 <sup>c</sup>	2.910 <sup>e</sup>	2.246 <sup>k</sup>	2.867 <sup>c</sup>
Missing two irrigations at vegetative stage	2.951 <sup>e</sup>	2.78 <sup>f</sup>	2.288 <sup>g</sup>	2.675 <sup>d</sup>
Missing two irrigations at flowering stage	2.276 <sup>g</sup>	3.113 <sup>d</sup>	2.216 <sup>i</sup>	2.535 <sup>e</sup>
Missing two irrigations at grain filling period	2.929 <sup>e</sup>	2.194 <sup>l</sup>	2.336 <sup>f</sup>	2.486 <sup>e</sup>
<b>F-test</b>	**	**	**	**
L.S.D <sub>0.05</sub>	0.084	0.089	0.026	0.096
<b>Interaction (G. x T.)</b>	**	**	**	**

A,b,c .. Means with the some alphabetical letters are not significantly different at P<0.05.

**Table 5.** Drought susceptibility index “S” and yield injury % for grain yield (ton/ha) of six wheat genotypes grown under chemical desiccation and water stress conditions.

Seasons/drought parameters Genotypes/treatments		1 <sup>st</sup> Season		2 <sup>nd</sup> Season		3 <sup>rd</sup> Season	
		S	Injury %	S	Injury %	S	Injury %
	<b>1- Sakha 69</b>	0.972	36.9	0.979	40.8	0.969	40.03
<b>Stress by</b>	<b>2- Sahel 1</b>	0.939	35.7	1.05	44.5	1.148	47.4
<b>Sodium</b>	<b>3- Gemmeiza 5</b>	1.035	39.3	1.045	43.7	1.104	45.6
<b>Chlorate</b>	<b>4- Giza 168</b>	1.056	40.1	0.988	41.2	1.131	46.7
	<b>5- Bocro-4</b>	1.179	44.8	0.978	40.9	0.779	32.2
	<b>6- Seri 82</b>	0.805	30.6	0.95	40.3	0.848	35.0
	<b>1- Sakha 69</b>	0.949	43.7	0.968	47.1	0.993	46.5
<b>Stress by</b>	<b>2- Sahel 1</b>	1.107	50.9	1.010	49.2	1.116	52.3
<b>Magnesium</b>	<b>3- Gemmeiza 5</b>	1.014	46.7	0.979	47.7	1.080	50.5
<b>Chlorate</b>	<b>4- Giza 168</b>	1.060	48.8	1.142	55.6	1.058	49.5
	<b>5- Bocro-4</b>	0.978	39.2	1.039	50.6	0.829	38.8
	<b>6- Seri 82</b>	0.886	40.8	0.871	42.4	0.904	42.3
	<b>1- Sakha 69</b>	0.867	41.8	0.971	46.2	0.991	44.6
<b>Stress by</b>	<b>2- Sahel 1</b>	0.714	34.4	0.951	45.2	0.988	44.5
<b>Irrigation</b>	<b>3- Gemmeiza 5</b>	1.199	57.8	1.000	47.4	1.151	51.8
<b>treatment</b>	<b>4- Giza 168</b>	1.083	52.2	1.118	53.1	1.152	51.9
	<b>5- Bocro-4</b>	1.227	59.2	0.975	4.3	0.871	39.2
	<b>6- Seri 82</b>	0.901	43.4	0.979	46.5	0.837	37.7