





**Table (3):** Influence of nano-SiO<sub>2</sub> on some yield parameters of wheat crop grown in saline soil.

Water source	Si– addition methods	Biomass (g)	Grains (g)	1000–grains weight (g)
Tap water	<b>Check</b>	26.65	7.66	17.41
	<b>Soil</b>	32.34	9.62	22.13
	<b>Foliar</b>	38.40	9.31	22.43
Saline water	<b>Check</b>	24.59	5.86	14.44
	<b>Soil</b>	34.60	9.70	21.48
	<b>Foliar</b>	39.53	13.33	23.09
<b>Statistical analysis</b>				
Factor		Biomass	Grains	1000–grains weight
<b>Main factor:</b>	<b>TW</b>	32.46	8.86	20.65 <sup>a</sup>
<b>Water quality</b>	<b>SW</b>	32.91	9.62	19.67 <sup>b</sup>
<b>Sub-factor:</b>	<b>LSD 0.05</b>	NS	NS	0.55
<b>Si–addition methods</b>	<b>Check</b>	25.62 <sup>c</sup>	6.76 <sup>b</sup>	15.93 <sup>c</sup>
	<b>Soil</b>	33.47 <sup>b</sup>	9.66 <sup>a</sup>	21.81 <sup>b</sup>
	<b>Foliar</b>	38.97 <sup>a</sup>	11.32 <sup>a</sup>	22.76 <sup>a</sup>
	<b>LSD 0.05</b>	4.02	1.69	0.89
<b>Interaction</b>	<b>W*Si</b>	*	*	*

**Table (4):** Influence of nano-SiO<sub>2</sub> on N, P, K, Si and Na contents (%) of wheat crop grown in saline soil.

Water source	Si-addition methods	Straw					Grains				
		N	P	K	Si	Na	N	P	K	Si	Na
Tap water	<b>Check</b>	0.33	0.03	0.76	1.16	0.09	2.57	0.52	1.13	0.21	0.03
	<b>Soil</b>	0.38	0.04	1.09	3.84	0.05	2.69	0.52	1.77	0.02	0.03
	<b>Foliar</b>	0.35	0.07	1.02	4.15	0.04	2.66	0.62	1.37	0.2	0.05
Saline water	<b>Check</b>	0.22	0.04	0.65	1.76	0.25	2.18	0.39	1.27	0.21	0.11
	<b>Soil</b>	0.20	0.08	1.06	4.21	0.1	2.60	0.46	1.73	0.09	0.06
	<b>Foliar</b>	0.27	0.1	0.99	4.84	0.08	2.46	0.42	1.4	0.2	0.06
<b>Statistical analysis</b>											
Factor		N	P	K	Si	Na	N	P	K	Si	Na
Main factor: Water quality	<b>TW</b>	0.35 <sup>a</sup>	0.05 <sup>b</sup>	0.96	3.05 <sup>b</sup>	0.06 <sup>b</sup>	2.64 <sup>a</sup>	0.56 <sup>a</sup>	1.42	0.14	0.03 <sup>b</sup>
	<b>SW</b>	0.23 <sup>b</sup>	0.07 <sup>a</sup>	0.89	3.60 <sup>a</sup>	0.14 <sup>a</sup>	2.41 <sup>b</sup>	0.42 <sup>b</sup>	1.46	0.16	0.07 <sup>a</sup>
Sub-factor:	<b>LSD 0.05</b>	0.06	0.01	NS	0.09	0.02	0.14	0.01	NS	NS	0.02
Si-addition methods	<b>Check</b>	0.28	0.03 <sup>c</sup>	0.70 <sup>b</sup>	1.46 <sup>c</sup>	0.17 <sup>a</sup>	2.37 <sup>b</sup>	0.46 <sup>c</sup>	1.20 <sup>c</sup>	0.21 <sup>a</sup>	0.07 <sup>a</sup>
	<b>Soil</b>	0.29	0.06 <sup>b</sup>	1.01 <sup>a</sup>	4.03 <sup>b</sup>	0.07 <sup>b</sup>	2.56 <sup>a</sup>	0.49 <sup>b</sup>	1.38 <sup>b</sup>	0.05 <sup>b</sup>	0.05 <sup>b</sup>
	<b>Foliar</b>	0.31	0.09 <sup>a</sup>	1.07 <sup>a</sup>	4.49 <sup>a</sup>	0.06 <sup>b</sup>	2.64 <sup>a</sup>	0.52 <sup>a</sup>	1.75 <sup>a</sup>	0.19 <sup>a</sup>	0.04 <sup>b</sup>
	<b>LSD 0.05</b>	NS	0.01	0.06	0.05	0.01	0.11	0.02	0.08	0.07	0.01
Interaction	W*Si	*	NS	NS	NS	*	NS	*	NS	NS	NS

**Table (2):** Some water quality parameters of the two used water.

Water type	EC dS m <sup>-1</sup>	pH	Soluble ions meq. L <sup>-1</sup>							SAR (meq.L <sup>-1</sup> ) <sup>0.5</sup>	RSC meq. L <sup>-1</sup>	
			Cations				Anions					
			Na <sup>+</sup>	K <sup>+</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Cl <sup>-</sup>	CO <sub>3</sub> <sup>2-</sup>	HCO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>		
Tap water	0.41	7.65	1.67	0.56	1.06	0.81	1.53	=	1.21	1.36	1.38	- 0.66
Saline-water	8.00	7.42	44.05	3.43	20.36	12.16	60.04	=	12.81	7.15	8.57	- 19.71