Table (2). Number of spikelets /spike and No. of grains/spike of barley as affected by nanofertilizer, seeding rate, and nitrogen fertilization in both growing seasons and their combined.

Main effects and	No. of spikelets/spike			No. of grains/spike					
interactions	1 st season	2 nd season	Comb.	1 st season	2 nd season	Comb.			
Nano- fertilizer application (A):									
Treated	27.56 a	28.49 a	28.02 a	20.79 a	21.86 a	21.33 a			
Untreated	26.38 b	27.53 b	26.96 b	19.54 b	20.66 b	20.10 b			
F-test	**	**	**	**	**	**			
Seeding rate kg/fad. (S):									
40	27.98 a	28.39 a	28.18 a	21.21 a	22.03 a	21.62 a			
60	26.55 b	27.76 b	27.16 b	19.86 b	21.03 b	20.44 b			
80	26.39 b	27.87 b	27.13 b	19.42 b	20.72 c	20.07 c			
F-test	**	**	**	**	*	**			
Nitrogen fertilization kg/fad. (N):									
15	23.38 d	23.64 d	23.51 d	16.36 d	16.31 d	16.33 d			
30	25.05 с	25.12 c	25.08 с	18.12 c	18.33 с	18.22 c			
45	27.77 b	28.22 b	27.99 b	21.13 b	22.25 b	21.69 b			
60	31.69 a	35.06 a	33.38 a	25.05 a	28.14 a	26.59 a			
F-test	**	**	**	**	**	**			
Interactions:									
AXS	NS	NS	NS	NS	*	NS			
AXN	*	NS	*	**	**	**			
SXN	*	NS	NS	**	**	**			

Values having the different alphabetical letter(s) did significantly differ at the 0.05 level of significance, according to Duncan's multiple range test.

Table (3).Grain weight (g) /spike and No. of spikes/m² of barley as affected by nano-fertilizer, seeding rate, and nitrogen fertilization in two growing seasons and their combined.

Main effects and interactions	Grain weight (g)/spike 1 st season 2 nd season Comb.			No. of spikes /cm ² 1 st season 2 nd season Comb.				
Nano- fertilizer application (A):								
Treated	0.731 a	0.778 a	0.754 a	344.4 a	343.8 a	344.1 a		
Untreated	0.681 b	0.728 b	0.704 b	340 1 b	340.8 b	340.5 b		
F-test	**	**	**	**	*	**		
Seeding rate kg/fad. (S)								
40	0.743 a	0.788 a	0.765 a	341.5 b	340.8 b	341.1 b		
60	0.693 b	0.741 b	0.717 b	341.0 b	341.4 b	341.2 b		
80	0.682 b	0.731 b	0.706 b	344.2 a	344.7 a	344.5 a		
F-test	**	**	**	**	*	**		
Nitrogen fertilization kg/fad. (N):								
15	0.497 d	0.505 d	0.501 d	334.5 d	335.7 d	335 1 d		
30	0.587 c	0.587 с	0.587 c	339.6 с	340.3 с	340.0 c		
45	0.795 b	0.825 b	0.810 b	345.8 b	345.8 b	345.7 b		
60	0.946 a	1.095 a	1.020 a	349.2 a	347.5 a	348.3 a		
F-test	**	**	**	**	*	**		
Interactions:								
AXS	NS	*	*	NS	NS	NS		
AXN	**	*	**	NS	NS	NS		
SXN	NS	NS	*	NS	NS	NS		

Values having the different alphabetical letter(s) did significantly differ at the 0.05 level of significance, according to Duncan's multiple range test.

Table (4).Thousand grain weight (g.) and grain yield (ardab/fad.) of barley as affected by nano-fertilizer, seeding rate, and nitrogen fertilization in both growing seasons and their combined.

Main effects and	1000 - grain weight (g.)			Grain yield (ardab/fad.)			
interactions	1 st season	2 nd season	Comb.	1 st season	2 nd season	Comb.	
Nano- fertilizer ap	plication (A):						
Treated	34.74 a	34.81	34.77 a	8.861 a	9.357 a	9.109 a	
Untreated	34.13 b	34.64	34.39 b	8.164 b	8.749 b	8.456 b	
F-test	**	NS	**	**	**	**	
Seeding rate kg/fac	d. (S):						
40	34.91 a	35.04 a	34.98 a	8.192 c	8.741 c	8.466 c	
60	34.55 b	34.62 b	34.58 b	8.306 b	8.887 b	8.596 b	
80	33.84 с	34.52 b	34.18 c	9.039 a	9.532 a	9.285 a	
F-test	**	**	**	**	**	**	
Nitrogen fertilizati	on kg/fad. (N):					
15	30.38 с	30.91 d	30.64 с	5.818 d	5.942 d	5.880 d	
30	32.65 b	31.74 c	32.20 b	6.980 c	6.947 c	6.963 c	
45	37.61 a	37.33 b	37.47 a	9.687 b	10.020 b	9.853 b	
60	37.10 a	38.92 a	38.01 a	11.560 a	13.290 a	12.425 a	
F-test	**	**	**	**	**	**	
Interactions:							
AXS	NS	**	**	*	**	NS	
AXN	NS	*	**	**	*	NS	
SXN	NS	*	**	*	**	*	

Values having the different alphabetical letter(s) did significantly differ at the 0.05 level of significance, according to Duncan's multiple range test.