

Table (1) :Effect of K and P in the form of normal and Nano fertilization on vegetative growth during 2018 and 2019 seasons.

Treatments	First season 2018			Second season 2019		
	Plant height (cm)	Neck length (cm)	Number of leaves	Plant height (cm)	Neck length (cm)	Number of leaves
Control	66.763	9.616	8.773	61.747	7.150	8.663
K fertilizer	71.130	9.853	8.940	64.713	7.570	9.053
P fertilizer	71.817	10.666	9.163	64.790	7.653	9.333
P+K fertilizer	74.100	10.680	9.276	66.587	8.233	9.276
Nano K fertilizer	66.993	9.736	8.830	62.923	6.570	8.780
Nano P fertilizer	68.447	9.823	8.883	63.227	7.210	8.833
Nano P+K fertilizer	74.204	11.003	9.386	67.637	8.636	10.000
LSD (5%)	1.13	0.17	0.11	0.96	0.12	0.13

Table (2) :Effect of K and P in the form of normal and Nano fertilization on fresh and dry weight of garlic plant during 2018 and 2019 seasons.

Treatments	First season 2018		Second season 2019	
	Fresh weight (g)	Dry weight (g)	Fresh weight (g)	Dry weight (g)
Control	63.33	22.017	65.28	22.107
K fertilizer	70.51	24.313	71.38	23.887
P fertilizer	73.40	25.597	72.78	25.490
P+K fertilizer	76.42	26.653	76.66	25.927
Nano K fertilizer	69.75	22.833	68.34	22.333
Nano P fertilizer	70.20	23.867	69.17	22.877
Nano P+K fertilizer	76.97	35.540	79.50	33.677
LSD (5%)	0.22	1.13	2.32	2.17

Table (3). Effect of K and P in the form of normal and nano fertilization on yield quality during 2018 and 2019 seasons.

Treatments	First season			Second season		
	Number of cloves	Bulb diameter (cm)	Dry weight of bulb (g)	Number of cloves	Bulb diameter (cm)	Dry weight of bulb (g)
Control	9.487	3.566	17.660	10.880	4.003	18.303
K fertilizer	10.810	3.730	18.847	11.333	4.216	20.000
P fertilizer	11.553	3.740	20.077	11.500	4.243	22.180
P+K fertilizer	11.633	3.797	20.577	11.723	4.263	22.733
Nano K fertilizer	9.733	3.693	17.813	11.110	4.010	18.917
Nano P fertilizer	11.133	3.703	18.217	11.223	4.133	19.460
Nano P+K fertilizer	12.600	3.807	27.737	13.613	4.293	26.340
LSD (5%)	1.11	0.02	2.21	0.07	0.02	1.17

Table (4). Effect of K and P in the form of normal and Nano fertilization on average weight of bulb and bulb yield (ton/fed) during 2018 and 2019 seasons

Treatments	First season		Second season	
	Average weight of bulb (g)	Bulb yield (ton /fedd.)	Average weight of bulb (g)	Bulb yield (ton /fedd.)
Control	38.06	6.394	44.90	6.417
K Fertilizer	40.11	6.792	46.31	6.824
P Fertilizer	42.04	7.820	48.01	7.930
K + P Fertilizer	43.55	8.078	49.01	8.164
Nano K	41.78	7.400	45.40	7.446
Nano P	41.99	7.484	46.30	7.556
Nano K+P	45.27	9.232	49.25	9.348
L.S.D 0.05	1.44	0.031	1.47	0.025

Table (5). Effect of K and P in the form of normal and Nano fertilization on storability/plot during 2018 season.

Treatments	First month	Second month	Third month	Fourth month	Fifth month	Six month	Seven month	Eight month
Control	2.491	1.621	1.498	1.446	1.418	1.397	1.375	1.357
K fertilizer	3.223	2.222	2.076	2.034	1.966	1.923	1.833	1.774
P fertilizer	3.251	2.284	2.224	2.193	2.126	2.072	2.042	2.012
P+K fertilizer	3.712	2.715	2.592	2.507	2.421	2.361	2.294	2.253
Nano K fertilizer	2.501	1.666	1.593	1.518	1.483	1.454	1.398	1.385
Nano P fertilizer	2.651	1.838	1.681	1.641	1.594	1.545	1.497	1.487
Nano P+K fertilizer	3.985	2.793	2.595	2.493	2.425	2.386	2.305	2.269
LSD (5%)0.17	0.17	0.15	0.11	0.11	0.12	0.12	0.11	0.13

Table (6) Effect of K and P in the form of normal and Nano fertilization on storability/plot during 2019 season.

Treatments	First month	Second month	Third month	Fourth month	Fifth month	Six month	Seven month	Eight month
Control	2.530	1.650	1.517	1.468	1.438	1.420	1.393	1.373
K fertilizer	3.258	2.261	2.115	2.070	2.005	1.961	1.871	1.805
P fertilizer	3.447	2.418	2.360	2.328	2.248	2.203	2.173	2.140
P+K fertilizer	3.865	2.830	2.697	2.613	2.528	2.460	2.386	2.343
Nano K fertilizer	2.582	1.716	1.647	1.567	1.531	1.501	1.445	1.428
Nano P fertilizer	2.778	1.927	1.768	1.725	1.668	1.620	1.566	1.555
Nano P+K fertilizer	4.193	2.937	2.733	2.623	2.556	2.505	2.423	2.380
LSD (5 %)	0.12	0.11	0.14	0.13	0.11	0.12	0.12	0.14

Table (7). Effect of K and P in the form of normal and Nano fertilization on storability of ten Bulbs during 2018 season.

Treatments	First month	Second month	Third month	Fourth month	Fifth month	Six month
Control	380.6	264.5	259.2	254.6	248.8	245.6
K fertilizer	401.1	292.3	285.4	282.0	275.6	274.1
P fertilizer	420.4	302.8	296.0	291.5	283.7	282.1
P+K fertilizer	435.5	308.4	300.5	296.2	289.6	287.0
Nano K fertilizer	417.8	292.0	285.4	281.5	274.2	271.3
Nano P fertilizer	419.9	288.6	284.0	286.4	280.0	278.4
Nano P+K fertilizer	452.7	327.4	312.1	307.0	300.4	299.2
LSD (5 %)	9.7	17.2	10.7	11.5	13.3	11.2

Table (8). Effect of K and P in the form of normal and Nano fertilization on storability of ten bulbs in during 2019 season.

Treatments	First month	Second month	Third month	Fourth month	Fifth month	Six month
Control	449.04	312.65	306.41	300.96	294.02	290.30
K fertilizer	463.16	337.62	329.68	325.77	318.34	316.70
P fertilizer	480.11	346.18	338.41	333.22	324.34	322.50
P+K fertilizer	490.17	347.56	338.72	333.78	326.44	323.50
Nano K fertilizer	454.00	317.94	310.79	306.54	298.61	295.40
Nano P fertilizer	463.02	318.94	313.92	316.55	309.50	307.70
Nano P+K fertilizer	492.56	356.31	339.68	334.09	326.92	325.60
LSD (5 %)	9.9	16.1	10.5	11.3	12.9	11.5