

Table (4): Effect of NPK and Bio stimulants on vegetative growth of basil plant during the first season (2019)

Treatments		Plant height (cm)		Number of				
				Branches		Leaves		
		Cuts						
		First	Second	First	Second	First	Second	
NPK g/ pot	0.0 (control)	38.338	41.916	9.600	10.200	168.338	224.916	
	2.5	41.905	45.950	10.011	10.700	222.683	248.666	
	5.0	40.788	43.188	9.922	10.550	202.988	241.083	
LSD at (0.05)		0.221	0.201	0.148	0.143	1.408	1.644	
Bio stimulants	Humic acid g/ L	0.0	34.011	36.855	7.677	8.544	143.988	172..072
		2.5	38.488	40.500	8.611	9.366	194.344	228.389
		5	42.066	44.711	10.633	11.000	217.488	250.056
	Yeast extract g/ L	8.0	41.100	42.911	9.433	10.433	203.888	238.689
		12.0	42.655	47.466	11.177	11.455	225.744	263.178
2.5 g/l Humic acid + 8.0 g /l yeast extract		43.744	49.666	11.633	12.100	238.766	276.944	
LSD (0.05)		0.313	0.284	0.210	0.202	.992	2.325	

Table (9): Effect of NPK fertilizer and bio stimulants on N, P and K % of basil plant during second season (2020)

Treatments	N %		P %		K %	
	First cut	Second cut	First cut	Second cut	First cut	Second cut
NPK						
0.0 (control)	2.461	2.342	0.244	0.253	2.107	2.210
2.5 g/ pot	2.576	2.827	0.255	0.300	2.222	2.379
5.0 g/ pot	2.500	2.616	0.247	0.282	2.158	2.295
LSD (0.05)	0.010	0.011	0.001	.001	0.009	0.010
Biostimulants						
0.0	1.523	1.597	0.223	0.244	1.226	1.361
2.5 g/l Humic acid	2.386	2.271	0.234	0.267	2.236	2.367
5 g/l Humic acid	2.715	2.803	0.256	0.287	2.333	2.437
8.0 g /l Yeast extract	2.658	2.677	0.248	0.279	2.244	2.39
12.0 g /l Yeast extract	2.865	2.902	0.261	0.292	2.442	2.573
2.5 g/l Humic acid + 8.0 g /l yeast extract	2.924	3.021	0.269	0.302	2.495	2.640
LSD (0.05)	0.014	0.016	0.002	0.002	0.013	0.014

Table (10): Effect of NPK fertilizer and bio stimulants on carotene and carbohydrates contents of basil plant during the second season (2020)

Treatments	Carotene		Carbohydrates Total	
	First cut	Second cut	First cut	Second cut
NPK				
0.0 (control)	0.438	0.405	9.351	9.500
2.5 g/ pot	0.497	0.453	11.130	11.278
5.0 g/ pot	0.463	0.446	9.598	9.800
LSD (0.05)	0.002	0.001	0.018	0.015
Biostimulants				
0.0	0.340	0.321	8.442	8.561
2.5 g/l Humic acid	0.437	0.406	9.418	9.696
5 g/l Humic acid	0.490	0.439	10.417	10.571
8.0 g/l Yeast extract	0.472	0.432	10.292	10.461
12.0 g/l Yeast extract	0.517	0.483	10.667	10.827
2.5 g/l Humic acid + 8.0 g /l yeast extract	0.540	0.527	10.923	11.056
LSD (0.05)	0.002	0.002	0.025	0.022