

Effect of *Spirulina* Suspension on Growth, Yield and Nutritional Composition of *Vigna mungo* (L.) Hepper in Field Experiment

In this study, the effects of *Spirulina* suspension on plant growth, yield and nutritional composition of *Vigna mungo* (L.) Hepper were conducted. The result indicated that growth, yield and nutritional composition were significantly different between *Spirulina* suspension treatment and controls were showed in Table 1 and 2, Figure 1 to 8. In this observation, plant height, number of branches per plant, number of leaf per plant, number of pod per plant and seed yield for treatments were higher than control. The highest yield of *Vigna mungo* (L.) Hepper were 1613 kg ha^{-1} for treatment and 1035 kg ha^{-1} for control.

Table 1- Effect of *Spirulina* suspension on the growth and yield of *Vigna mungo* (L.) Hepper (Field experiment)

Treatments	Control	ST ₁	ST ₂	ST ₃	ST ₄	ST ₅	Fpr	LSD	CV%
Parameters	(C) ^a	(1 gl ⁻¹)	(3 gl ⁻¹)	(5 gl ⁻¹)	(7 gl ⁻¹)	(9 gl ⁻¹)			
Plant height	52.39	55.21	58.43	61.70	62.32	60.5	<.001	0.73	2.1
No. of branch per plant	3.87	5.34	6.32	7.12	8.20	6.51	<.001	0.45	10.4
No. of leaf per plant	32.63	34.43	35.23	40.52	43.80	40.51	<.004	4.61	2.5
No. of pod per plant	26.8	27.0	28.2	33.80	35.80	32.12	<.001	1.331	2.9
Seed yield per plant	6.30	7.82	8.56	9.56	11.69	8.43	<.001	0.20	1.5
Yield kg ha^{-1}	1035	1234	1371	1523	1613	14.98	<.001	2.11	11.0

Fpr = F probability ST = *Spirulina* suspension treatment

LSD_{0.05} = Least significant level of 5 % CV% = Coefficient of Variation

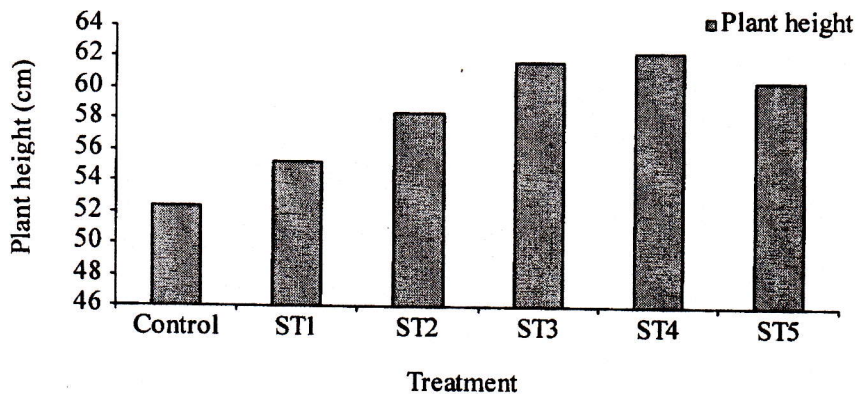


Figure 2. Effect of *Spirulina* suspension on plant height of *Vigna mungo* (L.) Hepper