

Table 1 Height (cm) of *Sesbania* spp. at Various Stage of Growth under Submerged Condition

Tmts kg P/rai	Inoculation				Uninoculation				
	Days				Days				
	28	35	42	49	28	35	42	49	
<u><i>S. rostrata</i></u> (Submerged)									
0	37.2	49.5	59.7	74.8	26.2	36.3	45.2	57.8	
5	44.7	61.2	76.2	94.3	39.5	56.2	71.0	89.5	
10	49.5	68.3	87.2	110.7	40.8	53.8	71.5	90.5	
<u><i>S. aculeata</i></u> (Submerged)									
0	40.5	49.8	56.2	65.8	30.0	38.5	46.0	57.3	
5	40.0	51.2	62.8	79.0	41.3	53.3	66.2	82.0	
10	40.5	51.5	63.5	81.3	39.0	49.8	63.8	83.7	
<u><i>S. rostrata</i></u> (Upland)									
10	38.0	53.2	68.7	85.2	26.8	39.0	50.7	68.3	
<u><i>S. aculeata</i></u> (Upland)									
10	37.0	54.2	67.7	84.8	34.8	49.2	63.2	88.2	



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Table 2 AOV of Height of Sesbania as affected by Application of Rock Phosphate under Submerged Condition

Source	DF	SS	MS	F	Pr>F
P	2	10470.889	5235.444	8.03	0.0021**
inoc.	1	396.674	396.674	0.61	0.4429
P x inoc.	2	436.722	218.361	0.34	0.7186
Spp.	1	1094.507	1094.507	1.68	0.2073
P x Spp.	2	217.722	108.861	0.17	0.8471
inoc. x Spp.	1	689.063	689.063	1.06	0.3141
P x inoc. x Spp.	2	92.167	46.083	0.07	0.9319
Error	24	15641.833	651.743		
Corrected Total	35	29039.576			

0	5	10	kg P/rai
106.79	<u>138.96</u>	<u>145.96</u>	Mean Height, cm
L.S.D. ( =.05) = 21.51			

Table 3 AOV of dry Matter of Stem of Sesbania as Affected by Application of Rock Phosphate under Submerged Condition

Source	DF	SS	MS	F	Pr>F
P	2	1261.606	630.803	11.98	0.0002**
inoc.	1	6.961	6.961	0.13	0.7194
P x inoc.	2	19.115	9.557	0.18	0.8352
Spp.	1	41.624	41.624	0.79	0.3829
P x Spp.	2	29.124	14.562	0.28	0.7608
inoc. x Spp.	1	36.381	36.381	0.69	0.4141
P x inoc. x Spp.	2	25.453	12.726	0.24	0.7872
Error	24	1264.146	52.673		
Corrected Total	35	2684.409			

	0	5	10	kg P/rai
	9.391	19.808	23.335	Mean Yield g/pot
L.S.D. ( =.05) =	6.115			

Table 4 AOV of Dry Matter (Stem + Root) of Sesbania as Affected by Application of Rock Phosphate under Submerged Condition

Source	DF	SS	MS	F	Pr>F
P	2	4735.847	2368.923	5.54	0.0105*
inoc.	1	589.357	589.357	1.38	0.2520
P x inoc.	2	442.902	221.451	0.52	0.6020
Spp.	1	67.623	67.623	0.16	0.6945
P x Spp.	2	792.067	396.033	0.93	0.4100
inoc. x Spp.	1	342.990	342.990	0.80	0.3795
P x inoc. x Spp.	2	805.868	402.934	0.94	0.4039
Error	24	10267.924	427.830		
Corrected Total	35	18046.576			

0	5	10	kg P/rai
20.697	39.538	48.172	Mean Yield g/pot
L.S.D. ( $\alpha = .05$ ) = 17.428			

Table 5 AOV of Diameter of Sesbania as Affected by Application of Rock Phosphate under Submerged Condition

Source	DF	SS	MS	F	Pr>F
P	2	0.490	0.245	18.31	0.0001**
inoc.	1	0.003	0.003	0.19	0.6693
P x inoc.	2	0.008	0.004	0.29	0.7492
Spp.	1	0.834	0.834	62.38	0.0001**
P x Spp.	2	0.034	0.017	1.27	0.3000
inoc. x Spp.	1	0.016	0.016	1.20	0.2842
P x inoc. x Spp.	2	0.010	0.005	0.37	0.6944
Error	24	0.321	0.013		
Corrected Total	35	1.715			

	0	5	10	kg P/rai
	0.6408	<u>0.8567</u>	<u>0.9168</u>	Mean diameter, cm
L.S.D. ( =.05) =				
	<u>S. rostrata</u>		<u>S. aculeata</u>	* Mean diameter, cm
	0.9550		0.6506	for spp.
L.S.D. ( =.05) =				

Table 6 Dry matter of stem (g/pot) and diameter at crown level (cm) of Sesbania spp.

Tmts. kg P/rai	Inoculation		Uninoculation	
	DM	diameter	DM	diameter
<u>S. rostrata</u> (submerged)				
0	9.06	0.76	6.28	0.74
5	17.68	1.02	18.54	1.01
10	26.90	1.17	20.16	1.02
<u>S. aculeata</u> (submerged)				
0	6.72	0.53	11.36	0.53
5	17.23	0.67	22.10	0.71
10	20.59	0.71	23.99	0.74
<u>S. rostrata</u> (upland)				
10	13.24	0.83	8.33	0.88
<u>S. aculeata</u> (upland)				
10	15.80	0.64	20.08	0.67

Table 7. N Content in Sesbania

kg P/rai (RP)	<u>S. rostrata</u>				<u>S. aculeata</u>			
	<u>Submerged</u>		<u>Upland</u>		<u>Submerged</u>		<u>upland</u>	
	-inoc.	+inoc.	-inoc.	+inoc.	-inoc.	+inoc.	-inoc.	+inoc.
	N in leave, %							
0	3.02	2.78	-	-	2.85	2.45	-	-
5	2.93	2.76	-	-	2.46	2.22	-	-
10	2.91	2.54	2.44	2.42	2.28	2.21	2.14	2.01
	N in root, %							
0	0.77	0.96	-	-	0.85	0.77	-	-
5	0.92	0.72	-	-	1.08	0.93	-	-
10	0.92	0.97	0.96	0.93	1.00	1.00	1.08	0.74
	N in stem, %							
0	0.69	0.71	-	-	0.77	0.77	-	-
5	0.74	0.64	-	-	0.85	0.59	-	-
10	0.82	0.65	0.71	0.65	0.63	0.86	0.50	0.55

Table 8 P Content in Sesbania

kg P/rai (RP)	<u>S. rostrata</u>				<u>S. aculeata</u>			
	<u>Submerged</u>		<u>Upland</u>		<u>Submerged</u>		<u>upland</u>	
	-inoc.	+inoc.	-inoc.	+inoc.	-inoc.	+inoc.	-inoc.	+inoc.
	P in leave, %							
0	0.13	0.10	-	-	0.11	0.11	-	-
5	0.11	0.13	-	-	0.09	0.08	-	-
10	0.09	0.09	0.11	0.09	0.07	0.08	0.14	0.13
	P in root, %							
0	0.28	0.27	-	-	0.27	0.24	-	-
5	0.24	0.25	-	-	0.24	0.29	-	-
10	0.28	0.24	0.21	0.23	0.25	0.30	0.21	0.20
	P in stem, %							
0	0.04	0.05	-	-	0.02	0.05	-	-
5	0.03	0.03	-	-	0.02	0.04	-	-
10	0.04	0.02	0.03	0.02	0.03	0.04	0.01	0.02

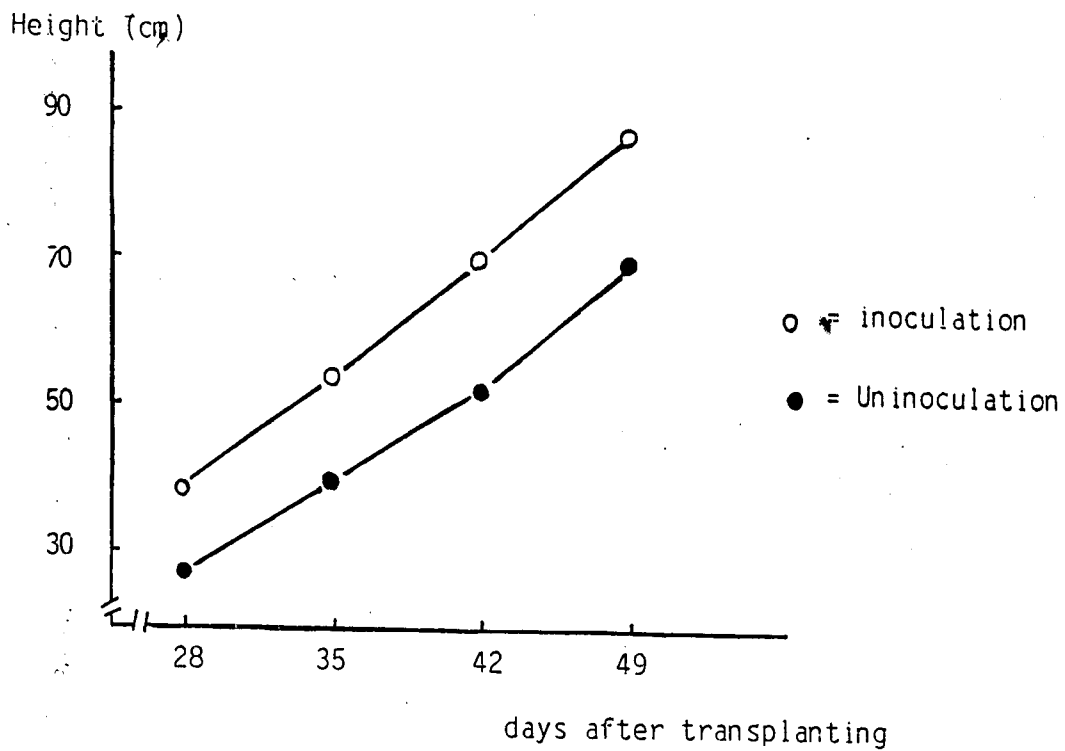


Fig 1 Height of S. rostrata at various stage of Growth Under Upland condition.

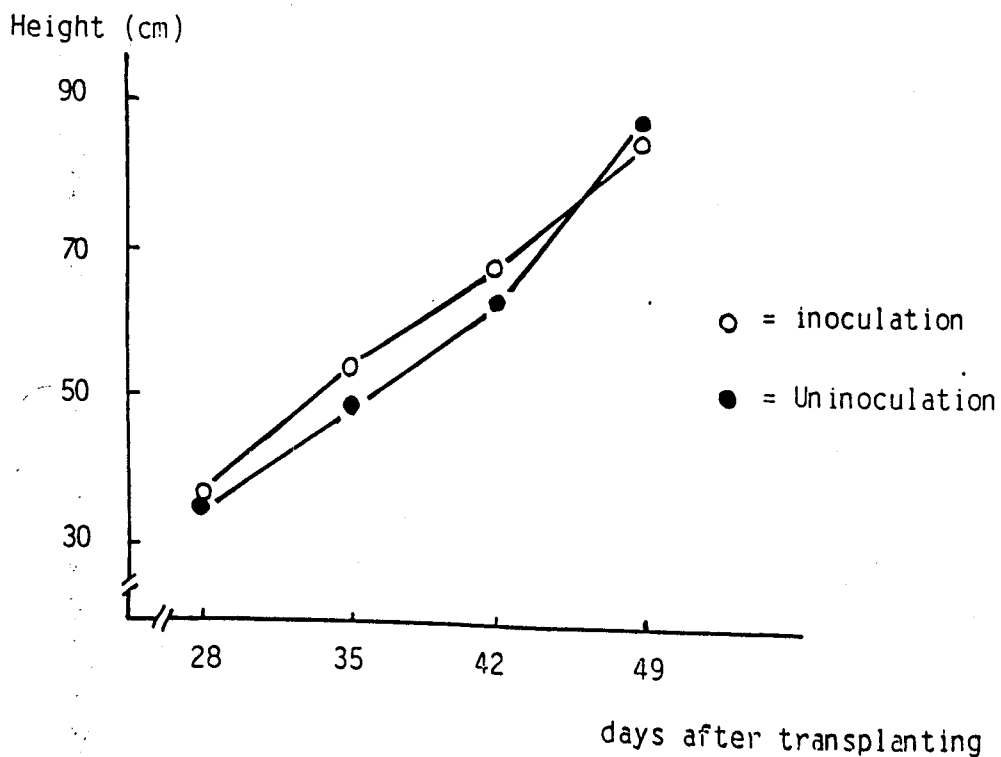


Fig 2 Height of S. aculeata at various stage of Growth Under Upland Condition.

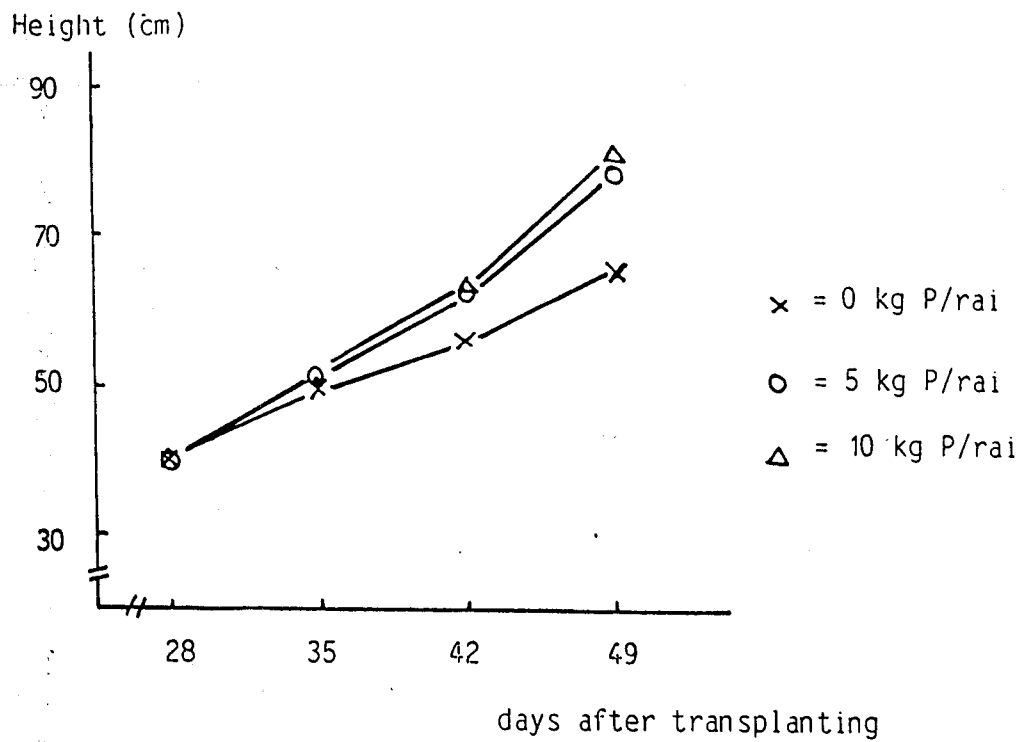


Fig 3 Height of *S. aculeata* at various stage of Growth under submerged condition. (inoculation)

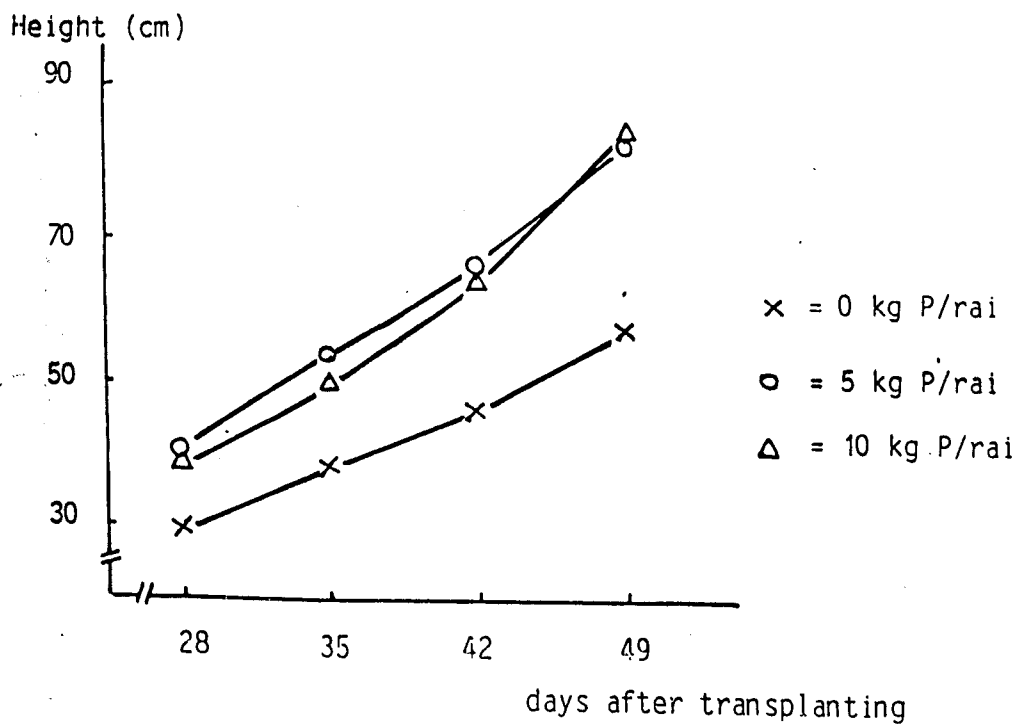


Fig 4 Height of *S. aculeata* at various stage of Growth under submerged condition (Uninoculation)

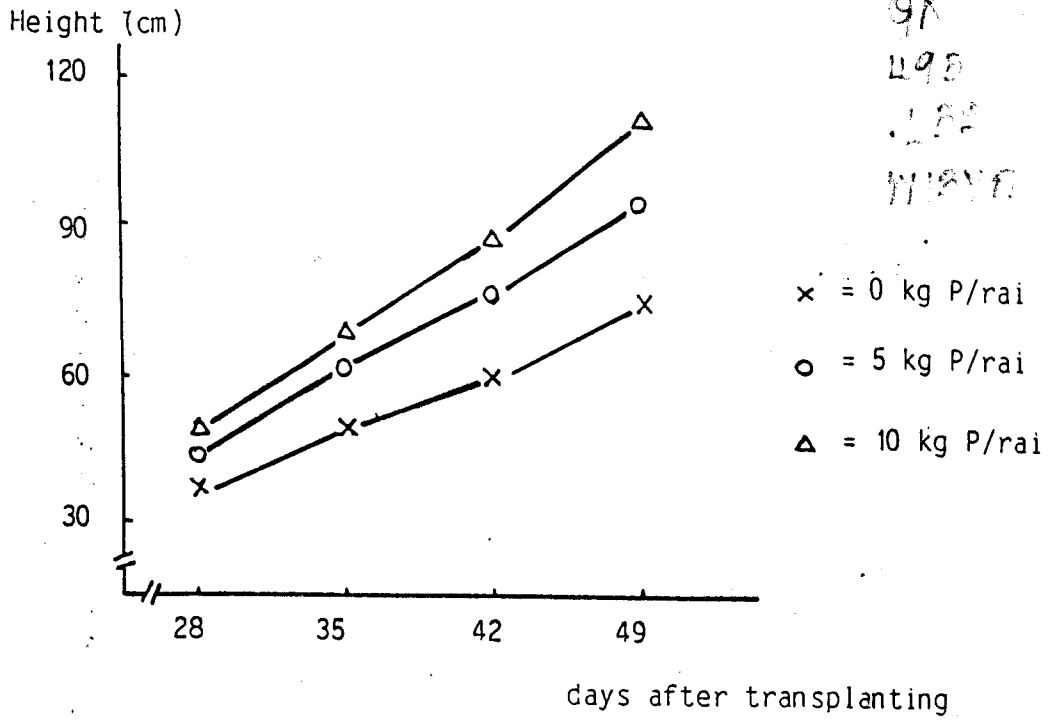


Fig 5 Height of *S. rostrata* at various stage of Growth under Submerged condition (inoculation)

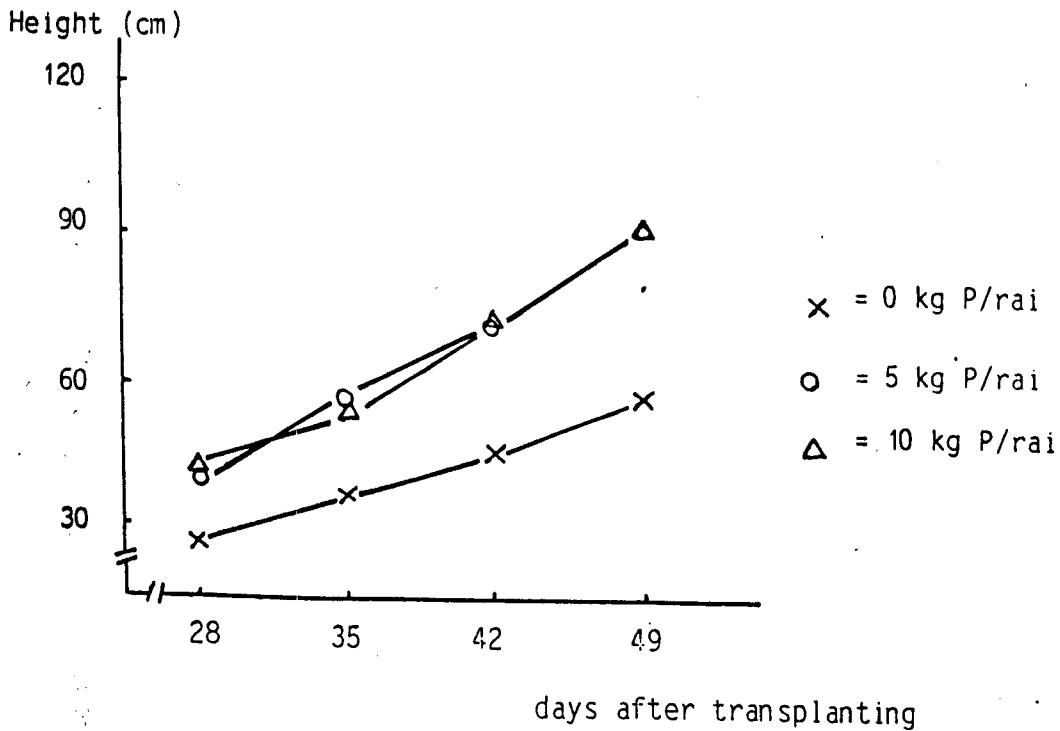


Fig 6 Height of *S. rostrata* at Various stage of Growth under Submerged condition (Uninoculation)