

**EFFECT OF SEED INOCULATION ON NODULATION AND GROWTH OF  
WINGED BEAN (*PSOPHOCARPUS TETRAGONOLOBUS* (L). (DC).**

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Investigations were carried out to ascertain the effect of seed inoculation with *Rhizobium* strains viz. SL 147 (Local) and TAL 309 (Foreign) on nodulation and growth of winged bean cv SLS 40 during the early stage of establishment. The experiment was conducted at Mapalana on Red Yellow Podzolic soil.

Results showed that nodulation started 3 weeks after germination in inoculated as well as in uninoculated plants. On the 45th day following inoculation with both the strains, increases in the effective number of nodules, and dry weight of nodules, leaves and total plants were observed. Moreover, inoculated plants showed a higher nitrogen content in nodules and leaves. The local strain gave higher values in the said parameters throughout the experimental period (75 days). On the 75th day mean plant dry weights recorded in respect of the control and the local strains were 20.9 g and 46.4 g respectively.

Correlation studies showed that both dry weight of nodules and effective number of nodules were highly significantly correlated with leaf and plant dry weight on the 60th and 75th day.