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## ABSTRACT

Micronutrients are known to be associated with certain essential processes of growth and development of plants. Moreover, it is believed that the symbiotic nitrogen fixation is largely dependant on the availability of these elements in soils. Since the regosols of the Eastern province are particularly low in micronutrient elements, it was intended to study the effect of molybdenum, cobalt and boron on seed yield of soybeans.

Accordingly, a field experiment was designed and conducted at the Eastern University Farm. Molybdenum at 0.5 g/kg of seeds, cobalt at 9 g/ha and boron at 1 kg/ha individually and in various combinations were tried in the experiment.

The results of the study showed that both the rates of growth and development and the process of nitrogen fixation were positively influenced by the application of molybdenum and cobalt. The application of molybdenum increased to seed yield by 250 kg/ha and cobalt by 190 kg/ha. The interactions of these elements were found to be insignificant. Also, boron had no effect on any of the above.

PERMANENT REFERENCE

52

MICRONUTRIENT  
REQUIREMENTS FOR SOYBEANS (Glycine max.)

BY

GNANASEGARAM BASIL BENEDICT SURENDRA

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