

# **EFFECT OF POTASH FERTILIZING AND BORON SPRAYING ON YIELD OF *vigna radita* . L .**

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## **ABSTRACT**

An experiment was conducted At Al – Bu – Thiab Village , Ramadi , Anbar on Sandy clay loam soil during summer 2010 to investigate the effect of four levels of K fertilizer (0,40,80 and 120 kg . ha<sup>-1</sup> )and four concentrations of B ( 0,100,200and 300 ppm ) on yield of a local cultivar of mung bean . A factorial experiment according to RCBD design was used with three replicates . Results showed that 80 kg K .ha<sup>-1</sup> was significantly the best in plant height, pods\plant ,pod length and yield( 50.21cm,30.07pod \plant,9.44cm,and 1.24 ton.ha<sup>-1</sup> ,respectively )comparison with control which gave the lower value of plant height, pod \plant ,pod length and yield. (44.23cm, 19.48 pod\ plant, 7.99 cm and 0.79 ton. ha<sup>-1</sup>) Application of B( .0,100,200 and 300 ppm). Caused significant increase in plant height, pods \ plant , pod length , seeds \pod and yield. The highest values were (51.16 cm , 32.10 pod \plant , 9.93 cm, 10.10 seed\ pod and 1.17 ton. ha<sup>-1</sup>. Respectively when B was sprayed at concentration of 200 ppm , while control hat the lowest values for the mentioned traits (43.42 cm ,20.07 pod\plant ,7.69 cm ,8.85 seed\pod and 0.87 ton .ha<sup>-1</sup>) ,respectively. Interaction between K fertilizer and B spray significantly affected yield .the highest yield (1.52 ton .ha<sup>-1</sup> ) was in 80 K kg. ha<sup>-1</sup> with 200 ppm B treatment. Superiority of the third level of both k and B over the highest level was noticed for most traits.