EFFECT OF LEAF NUTRITION BY IRON AND MANGANES IN YIELD AND QUALITY OF THREE SOYBEAN CULTIVARS.

Jassim M. Abass* Ismael A. Serhan** Naeem A. Mutlag***

* College of Agric - University of Baghdad .

** College of Agric - University of Anbar .

*** Agricultural directory of Al-Anbar.

ABSTRACT

A field experiment was conducted in a mixed sand textured soil during summer season at 2009 in AL- Anbar Governorate to know the effect of three levels leaf nutrition by iron and manganese sulfate mixed together 0, 50+50 ,100+100m.g./L in yield and quality of three soybean cultivars LS74, Geza 22 and Geza 83. A factorial experiment arrangement in Randomized Complete Block Design with three replicates .Soybean cultivars showed a different significant . The cultivar LS 74 gave a highest average in : number of pods .plant⁻¹, percentage of 3.02 t.ha⁻¹. The spraying of Iron and fertility in the pods and seeds yield Manganese showed a significant effect for all traits. The leaf nutrition in a level m.g./l gave a highest rate in : number of pods.plant⁻¹ 109.4 pod percentage of fertility 92.63%, 100 seeds weight 12.67 gm, seeds yield 3.22 t.ha⁻¹, and protein percentage in the seeds 35 %, while the spraying of this leaf nutrition in a level 100+100 m.g./l gave a highest rate in number of seeds . pod⁻¹2.52 seed only. .The interaction between cultivars and spraying Iron and Manganese was significant effect in seeds yield. The treatment LS74 with 50 +50 m.g / L gave 3.55 t/ha.