

EFFECTS OF SEED AND SOIL INOCULATION FOR THREE SOYBEAN VARIETIES

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To study the effect of *Bradyrhizobium japonicum*, arbuscular mycorrhizal (AM) fungi and seed fungicide treatment on yield, yield components and protein content of three soybean cultivars (Aires, Bahia and Pannonia kincse) a field experiments was conducted in 2018. The treatments arranged as factorial based on a randomized block design with four replications and with and without soil inoculation. The characteristics such as yield, plant height, number of nodules, number of pods, thousand seed weight, protein and oil content were measured. It is shown in our experiment very well that between seed and soil inoculum as well as inoculum and fungicide seed treatment may be antagonism with setback to the yield and yield components between the three cultivars but not affected the protein and oil content.