

**INFLUENCE OF GROWING SPACE ON 1000-KERNEL WEIGHT OF SOYBEAN UNDER IRRIGATED CONDITIONS**

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**ABSTRACT – Influence of growing space on 1000-Kernel weight of soybean under irrigated conditions**

In two years research three row spaces and three soybean varieties were examined in irrigated conditions. Irrigation was doing with wide gripe device for artificial rain. Aim of this research was to establish rate of influence of growing space shape changing on 1000-kernel weight. Mass of 1000 grains was observed per floors. Experiments were arranged by the analysis of variance as two factorial split-plot experiments method (HADZIVUKOVIC, 1991). Factors of the examination were: (big plot) and different row spacing (sub plot). In both research years, statistically the lower 1000-kernel weight had variety Vojvodjanka. With increasing of row spaces average 1000-kernel weight increased too. Differences were statistically significant only between the smallest (25 cm) and the biggest (70 cm) row spaces. Mass of 1000 grains from lateral branches and separate floors is property of variety. Shape of growing space had influence on 1000-kernel weight from lateral branches and separate floors.

**Keywords:** 1000-kernel weight, growing space shape, irrigation