

## Influence of water stress and potassium fertilizer on mungbean

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**ABSTRACT:**

Water shortage and the increasing competition for water resources between agriculture and other sectors compel the adoption of irrigation strategies in semi-arid Mediterranean regions, which may allow saving irrigation water and still maintain satisfactory levels of production. Mungbean is a warm season crop requiring 90–120 days of frost free conditions from planting to maturity. The field experiment was laid out in factorials with randomized complete block design with three replications. Treatments included water stress involving control (I1), 6 days once (I2), 9 days once (I3) and potassium fertilizer including control (K1), 75 Kg/ha (K2), 150 Kg/ha (K3) and 225 kg/ha (K4). Analysis of variance showed that the effect of water stress and potassium fertilizer on all characteristics were significant. The maximum of all characteristics of treatments except control were obtained. The minimum of all characteristics of treatments were obtained in 9 days once treatments.

**Keywords:**

Biological yield, Grain yield, Harvest index