

## Effect of salicylic acid and irrigation period on some characteristics of mung bean

**Authors:**

**Omolbanin Panahi  
Mishkar,  
Ahmad Mehraban and  
Ebrahim Sabagh**

**Institution:**

Department of Agronomy,  
Islamic Azad University,  
Zahedan Branch,  
Zahedan,  
Iran.

**Corresponding author:  
Ahmad Mehraban**

**ABSTRACT:**

Plants are exposed to different environmental stresses, all affecting growth, which consequently prevent the yield of plants. Water stress affects plant growth and development with substantial decrease in crop growth rate and biomass reposition. A field experiment was conducted with randomized complete block design with three replications. Treatments included salicylic acid at control ( $I_1$ ), 25, 50 and 100 ppm, and irrigation period at: 6 days once, 9 days once and 12 days once along with a control. Analysis of variance showed that the effect of salicylic acid on grain yield, dry forage yield, wet forage yield and Plant height were significant. The maximum characteristics of treatments in 50 ppm were obtained. The minimum of treatments were obtained in control. Analysis of variance showed that the effect of irrigation period on grain yield, dry forage yield, wet forage yield and plant height were significant. The maximum of all characteristics were obtained in the six days once treatment. The minimum characteristics were obtained in 12 days once treatment.

**Keywords:**

Grain yield, Dry forage yield, Wet forage yield, Plant height