



## Effect of Jasmonic Acid on the Physiological Properties and Yield in the Maize Hybrid under Salt Stress

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**Abstract:** Field experiment was carried out on the maize (*Zea mays* L.), in the autumn to find out the effect of jasmonic acid (JA) in mitigating salt stress for hybrid maize. The four levels of saline irrigation water (1, 2, 4, and 6  $\text{ds.m}^{-1}$ ) and four JA concentrations (0, 5, 10 and 15  $\text{mg l}^{-1}$ ). Increase in salt stress caused a significant increase in the effectiveness of the antioxidant enzyme (CAT and SOD) and a significant decrease in chlorophyll content and total yield. Spraying JA in turn caused the significant increase in the effectiveness of the antioxidant enzyme (CAT and SOD) and the significant increase in the total content of chlorophyll and yield.

**Keywords:** Salt stress, Jasmonic acid, CAT, SOD, Chlorophyll, Maize

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