

## Effect of Nitrogen, Boron and Zinc Sprays on Fruit Set, Yield and Quality of Date Fruit (cv Sayer)

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### Abstract

In order to evaluate the effect of foliar application of nitrogen, boron and zinc on yield and quality of date fruit (cv Sayer), an experiment was carried out in randomized complete block design with eight treatments (each treatment include of two trees) and three replications in Arvand Kenar (Khuzestan Province) during 2004- 2006. The treatments were: control (without foliar application), foliar application of urea, foliar application of zinc sulfate, foliar application of boric acid, foliar application urea and boric acid, foliar application of urea and zinc sulfate, foliar application zinc sulfate and boric acid, foliar application of urea, zinc sulfate and boric acid. Concentration of urea, zinc sulfate and boric acid were (5, 3 and 2 g l<sup>-1</sup>) respectively. The results showed that foliar application had a significant effect on fruit set, yield, fresh weight, diameter, pH, reducing sugar of date fruit, and nitrogen density and leaf phosphor compared with control. Also, foliar application of urea and zinc sulfate had the highest effect on fruit set, yield and quality of date fruit.

**Keywords:** *Foliar application, Urea, Zinc sulfate, Boric acid, Sayer date palm*