

## Effects of Foliar Application of Urea and Zinc Sulfate on Some Physical and Bio-Chemical Characteristics of Pomegranate Fruit.

### *Punica granatum* L. cv. Rabab-e-Neyriz

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#### Abstract

The aim of the present work was to study the effects of Urea and ZnSO<sub>4</sub> on qualitative and quantitative characteristics of pomegranate fruit cv. Rabab-e-Neyriz this study was done with 2 individual experiments over 2 years (2008-2009). In experiment 1, ZnSO<sub>4</sub> (0.0, 2.5%, 5%) at fully expanded young leaves and Urea (0.0, 1.5%, 3%) at one month after it and before flowering were sprayed. In experiment 2, ZnSO<sub>4</sub> (0.0, 0.3%, 0.6%) at young fully expanded leaves (< 20 days old) and Urea (0.0, 1.5%, 3%) at 2 weeks after full bloom were sprayed. Factorial experiment based on randomized complete block design was used and comparison of means was done by duncan multiple test at p<0.01 and p<0.05. In experiment 1, results showed that urea 1.5% significantly increased TA; ZnSO<sub>4</sub> increased TA, total weight of fruit and significantly decreased total number of fruit. Interaction of urea and ZnSO<sub>4</sub> significantly increased fresh weight of peel and arill, TA and decreased total weight of fruit. In experiment 2, Urea and ZnSO<sub>4</sub> had no significant effects on fruit length, TSS, yeild, fresh weight of peel and arill. Urea significantly decreased TA and AA, but it increased average fruit weight. ZnSO<sub>4</sub> significantly increased fruit diameter, arill weight and average fruit weight.

**Keywords:** *Pomegranate, Rabab-e-neyriz, Urea, ZnSO<sub>4</sub>.*