

**P-136 (113)****THE ALLEVIATION OF PHYSIOLOGICAL DISORDER OF POMEGRANATE (PUNICA GRANATUM) WHITE ARILS UNDER FOLIAR APPLICATION OF FE AND ZN FERTILIZER**

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Pomegranate (*Punica granatum*) is very important because of many desirable traits, taste abundant medicinal properties, lack of spraying against pests and its being organic. In order to evaluate the effects of Fe and Zn application on reduction of pomegranate white arils, a factorial experiment in a randomized complete block design with three replications was conducted in Bajestan, Khorasan Razavi, Iran. In this study cultivar treatments were cv. Khazar and Shisheh-Cap and fertilizer treatments were in form of foliar application including the use of ferrous sulfate, Zn sulfate, liquid Fe chelate, each treatment separately in three levels, 0, 0.5 and 1% and combination of ferrous sulfate and Zn sulfate in three levels, 0, each with equal concentrations 0.5% in one compound, and 1% in another combination. The results showed that the amount of PWA in cv. Khazar was lower than the cv. Shishe-cap. foliar application of Fe and Zn fertilizer decreased significantly the significantly reduced white arils in both cv. Khazar and Shisheh-Cap. The least white arils was observed via spraying Zn sulfate 0.5 and 1% in cv. Khazar and Fe sulfate 1% in cv. Shisheh-Cap.

**Keywords:** Pomegranate, Fe and Zn fertilizer, pomegranate white arils.