

#### عنوان مقاله:

Potato yield and tuber quality as affected by gibberellic acid and zinc sulfate

### محل انتشار:

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#### خلاصه مقاله:

Abstract Obtaining high potato (Solanum tuberosum L.) tuber yield through increased number and weight of quality tubers is important for farmers while the quality factors are of interest for food processing industries. Potato processing industries require high quality tubers having the highest possible dry matter, starch and protein contents. A two-year field study was carried out as a factorial experiment in a randomized complete block design during YolF. Gibberellic acid (GAT at o, 100, 100 and 500 mg·L-1 levels) and zinc sulfate (at o, 000, 1000 and 1000 mg·L-1 levels) were foliar sprayed on potato plants Yo and Ao days after tuber sprouting, respectively. There was no significant difference in all measured criteria between two years of experiment. Comparing to control, a FA% increase in total tuber yield resulted from treatment with ۲۰۰ mg·L-1 GA۳ and ۱۰۰۰ mg·L-1 zinc sulfate. The greatest tuber dry matter content (۲۴.۳۳ g·1o-g-1 fw) obtained from Yoo mg·L-1 GAT plus Yoo mg·L-1 zinc sulfate treatment, while the highest starch contents (ΨΥ.Δ۶ % tuber fresh weight) was obtained from sole application of zinc sulfate at Υ... mg·L-1.Application of GAΨ at ۴... mg·L-1 and zinc sulfate at Yooo mg·L-1resulted the highest tuber crude protein content of λ.ΨΥ% tuber dry weight which was over twice as control treatment. Manipulating plant nutrition and fertilization could be used as a powerful tool to .obtain desired quality and quantity of potato tuber

# کلمات کلیدی:

Keywords: Seed tuber, starch, tuber crude protein, tuberization

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