

# **EFFECTS OF NANO ZINC OXIDE FOLIAR FERTILIZER TO GROWTH, DEVELOPMENT, YIELD AND QUALITY OF KING ORANGE GROWN IN HAM YEN, TUYEN QUANG**

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## **Summary**

As an important microelement in the life of cropping plan, zinc has been largely used in various crop over the world in which the spray of zinc nano oxide through leaves was paid great attention because of its simple and effective application. This study aimed to determine the effectiveness of nano zinc oxide fertilizer to growth, development, yield and quality of "Sanh orange" cultivar was implemented in Ham Yen district, Tuyen Quang province in 2019. Results conducted from the study shown that nano ZnO sprayed at different concentrations gave good impact to the growth, yield and fruit quality of 8 years old tree of "Sanh orange" cultivar in which the best one was obtained at spraying of 200 ppm ZnO/crop, presented by healthy growth, high yield (132.9% compared to the control-no application) and slightly improved quality.

**Keywords:** *Fertilizer, nano, ZnO, king orange, Tuyen Quang, growth, yield, quality.*