

# EFFECTS OF RARE EARTH ELEMENTS ON QUALITY FACTORS OF ORANGE GROWN IN PHU QUY – NGHE AN

Nguyen Hoa Du, Le Van Diep

## Summary

Rare earth fertilizers are applied in agriculture to increase yield the crops, but the crop quality may be affected by the rare earth application as a microelement nutrient for plants. The application of rare earth fertilizer in Vietnam is still not popular, so the influence of rare earth on the quality of orange has not been evaluated in detail. This paper present the results of the survey of rare earth fertilizer influence on the main quality parameters of orange grown on Phu Quy land, Nghe An. Under the effect of rare earth foliar fertilizer, the sugar content of orange has increasing, about 23.03% for sucrose, from 5.51% to 11.8% for glucose, fructose content has lowest, but has largest increasing, from 31.46 to 42.2%. The contents of vitamin C and total soluble solid have significantly increased by 11.70% and 10.1%, respectively. Rare earth fertilization has no apparent impact on the acidity of orange.

**Key word:** *Quality of orange, rare earth fertilizer, sugar content, vitamin C.*