

# **EFFECTS OF SOIL pH REGULATOR ON YIELD AND PRODUCTION EFFICIENCY OF PEANUT CULTIVATED ON COASTAL SANDY SOIL IN THANH HOA PROVINCE**

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## **Summary**

This study was conducted to evaluate the effects of soil pH regulator on peanut variety L14 in Tinh Gia and Hau Loc districts, Thanh Hoa province. The experiment was carried out with 7 fertilizer treatments (400 kg lime; 0, 300, 600, 900, 1200, 1500 kg soil pH regulator on the application of chemical fertilizers 30 kg N+ 90 kg P<sub>2</sub>O<sub>5</sub> + 60 kg K<sub>2</sub>O+ 5 tons manure/ha), in which the treatments with 0 kg pH regulator and 400 kg lime were control treatments. Results show that soil pH regulator had a remarkable effect on the growth, development and yield of peanut and also improved soil chemical properties. Application of 1200 kg pH regulator together with 30 kg N+ 90 kg P<sub>2</sub>O<sub>5</sub> + 60 kg K<sub>2</sub>O+ 5 tons manure/ha gave the highest peanut yields in both Tinh Gia and Hau Loc districts (3.03 -3.04 tons/ha, respectively) and were statistically higher than the control treatments. This treatment also had the highest economic efficiency with net profits achieved in Tinh Gia and Hau Loc were 13,940,000 VND and 15,660,000 VND, respectively.

**Keywords:** *Peanut, coastal sandy soil, soil pH regulator, lime, spring crop.*