

# IMMEDIATE EFFECT OF INORGANIC FERTILIZER FOR MAIZE CROP ON FERRALIC ACRISOLS IN SON LA PROVINCE

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## Summary

In Son La province, inorganic fertilizer application affected growth, yield of maize crop and protected soil fertility. Continuous (4 years) application of 150 N + 75 P<sub>2</sub>O<sub>5</sub> + 100 K<sub>2</sub>O caused maize yield increase to 5320 kg/ha (average yield 8695 kg seed/ha) and farmer's profit was 23.360 million VND/ha. Immediate efficiency of N, P, K fertilizers was 157.6% in comparison with non N, P, K fertilizers application. A shortage of one of N, P, K fertilizers significantly affected total effect of fertilizer and the most obvious impact reflected in N fertilizer. Immediate efficiency of N is highest. N fertilizer application made increase average maize yield to 3776 kg seed/ha - equivalent to 111.9%, nitrogenous efficiency was 25.2 kg seed/kg N.

**Keywords:** *Maize crop, ferralic acrisols, immediate efficiency, inorganic fertilizer.*