

INTERACTIVE EFFECT OF PHOSPHORUS, POTASSIUM AND ZINC APPLICATION ON LENTIL YIELD AND NUTRIENT UPTAKE

Haq Nawaz¹, M. Saïed Arain², M. Mohsin Iqbal¹, S.Mahmood Shah¹, and Wisal Muhammad¹

ABSTRACT

A field experiment was conducted for three years to study interactive effect of P, K and Zn on lentil yield. Levels of P, K and Zn applications were: 0, 60 and 120 kg P₂O₅ ha⁻¹, 0 and 60 kg K₂O ha⁻¹ and 0.5 and 10 kg Zn ha⁻¹. Results showed that application of phosphorus at the rate of 60 kg P₂O₅ ha⁻¹ increased lentil yield over control. Application of 120 kg P₂O₅ alone decreased lentil yields. However, when Zn was applied with 120-kg P₂O₅ ha⁻¹ yield increased significantly. Potash and zinc had no effect on yield when applied alone. Interaction between K and Zn or P and K on yield of lentil was non-significant. Contents of P, K and Zn in plants increased with their increasing rate of application.