

## **Growth responses in Seedlings of *Scierocarya birrea* (A.Rich) Hochst and *Acacia nilotioa* (Linn) Wild ex. Del to phosphatic Fertilizers**

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### **Abstract**

Investigations were carried out to determine the effect of type (single and triple superphosphate fertilizers and poultry manure) and quantity (10g, 20g and 30g) of phosphatic fertilizer on growth and foliar macronutrient levels in seedlings of *Sclerocarya birrea* (A. Rich) and *Acacia nilotica* (Linn) Willd ex. Del. In both species, type of phosphatic fertilizer had significant effects on seedling height, leaf number, fresh and dry weights as well as root to shoot ratio. In both species, highest values in seedling height, collar diameter, leaf number, leaf area and total dry weights were obtained when poultry manure was applied. Irrespective of type of fertilizer in both species, quantity applied significantly affected dry weights in the leaf, stem and roots of seedlings. Although increased quantity of inorganic fertilizer enhanced growth, best seedling performance was recorded when either 10g or 20g of poultry manure was supplied. In both species, highest foliar macronutrient concentrations were recorded in seedlings raised using poultry manure.

### **Keyword**