

# **Effect of Long-Term Fertilization on Nutrient Content, Uptake and yield of Cotton**

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## **ABSTRACT**

The experiment was under taken during 2013-14 to study the effect of long-term use of manures and fertilizers on nutrient content and uptake in cotton at harvest stage. The results of the investigation indicated that the application of 100% recommended dose of NPK + FYM 10 t ha<sup>-1</sup> recorded significantly higher kapas yield and uptake of nutrients by cotton crop which was followed by 150 per cent recommended dose of NPK. The kapas yield of cotton, with 100% NPK + FYM 10 t ha<sup>-1</sup> was 132.3 per cent increase over control. Application of recommended dose of 100% N alone through fertilizers decreased the yield and uptake of nutrients significantly over 100% recommended dose of NPK + FYM 10 t ha<sup>-1</sup>. Maximum content and accumulation of N, P, K, Fe, Mn and Cu in cotton were noticed in the treatment of 100% NPK + FYM 10 t ha<sup>-1</sup>.

**Key words :** FYM, Long-term fertilization, Kapas yield, Nutrient content, Uptake.