

# Yield and Quality of Rice Fallow Groundnut as Influenced by Sulphur Fertilization to Rice

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## ABSTRACT

A field experiment to study the residual effect of different sources and levels of sulphur on succeeding *rabi* groundnut crop preceding rice was conducted during 1995-1996 and 1996-1997 on sandy loam soil at Agricultural College Farm, Bapatla. The treatments consisted of five sources of sulphur viz., ammonium sulphate, single super phosphate, ammonium phosphate sulphate, gypsum and elemental sulphur at four levels viz., 0, 20, 30 and 40 Kg S ha<sup>-1</sup>, which were applied to preceding *kharif* rice crop. All the five sources of sulphur showed equal effect on groundnut pod yield. Pod number, volume weight, shelling percentage, 100 kernel weight, oil content and finally pod yield were increased with sulphur application from 20 Kg S ha<sup>-1</sup> level. Application of 40 Kg S ha<sup>-1</sup> in rice groundnut sequence resulted in maximum oil content and pod yield.

**Key words** : Groundnut, Rice-fallow, Sulphur