

**Research Article**

DOI : 10.15740/HAS/AJSS/11.1/58-61

# Effect of potassium and sulphur on yield and yield attributes of onion and chilli intercrops in a vertisol

■ K.S. POORNIMA, N. MAMATHA AND H. S. RAMESH

Received : 15.12.2015; Revised : 21.03.2016; Accepted : 17.04.2016

**MEMBERS OF RESEARCH FORUM:**

**Corresponding author :**

**K.S. POORNIMA**, Fertilizer Control Laboratory, MANDYA (KARNATAKA) INDIA  
Email: [poornapavana@gmail.com](mailto:poornapavana@gmail.com)

**Co-authors :**

**N. MAMATHA**, Office of Assistant Registrar of Cooperative Societies, Sahakara Bhavan, SHIMOGA (KARNATAKA) INDIA  
Email : [mamathadavanagere@gmail.com](mailto:mamathadavanagere@gmail.com)

**H.S. RAMESH**, Department of Veterinary Physiology and Biochemistry, Veterinary College, Vinobhanagar, SHIMOGA (KARNATAKA) INDIA  
Email: [ramamabhi@gmail.com](mailto:ramamabhi@gmail.com)

**Summary**

A field experiment was conducted during *Kharif* 2006 on a vertisol to study the effect of potassium and sulphur on yield and yield parameters of onion and chilli intercrops grown with four levels of potassium (0, 50, 75 and 100 kg K<sub>2</sub>O ha<sup>-1</sup>) and three levels of sulphur (0, 15 and 30 kg S ha<sup>-1</sup>). Yield and yield attributes of onion and chilli increased with the individual application of 100 kg K<sub>2</sub>O ha<sup>-1</sup> and 30 kg S ha<sup>-1</sup>. The combined application of 100 K<sub>2</sub>O and 30 kg S ha<sup>-1</sup> recorded the maximum yield of both onion (19.52 t ha<sup>-1</sup>) and chilli (3.90 q ha<sup>-1</sup>) and also onion equivalent yield (23.42 t ha<sup>-1</sup>) of the intercropping system.

**Key words :** Yield, Soil sodium, Soil potassium, Bulb, Vertisol, Intercrops

**How to cite this article :** Poornima, K.S., Mamatha, N. and Ramesh, H.S. (2016). Effect of potassium and sulphur on yield and yield attributes of onion and chilli intercrops in a vertisol. *Asian J. Soil Sci.*, **11** (1) : 58-61 : DOI : [10.15740/HAS/AJSS/11.1/58-61](https://doi.org/10.15740/HAS/AJSS/11.1/58-61).