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RESEARCH ARTICLE

Influence of planting dates and sulphur fertilization on physical and chemical traits of onion cv. PUSA RED

■ NAVALDEY BHARTI AND R.B. RAM

SUMMARY

The present experiment was carried out on the planting dates and forms of sulphur on chemical characteristics of 'Pusa Red' cultivar of onion (*Allium cepa* L.) during *Rabi* season of 2013-14 at three different dates, viz., 15th November 2013, 15th December 2013 and 15th January 2014 and three doses of elemental sulphur and gypsum each 20, 40 and 60 kg/ha at Horticultural Research Farm of the Department of Applied Plant Science, School for Bio science and Biotechnology, Babasaheb Bhimrao Ambedkar University, Lucknow (U.P.). The experiment was laid out in Factorial Randomized Block Design with three replications. The data clearly revealed that higher TSS, ascorbic acid content in bulb were recorded in early planting (15th November with 60 kg/ha and 40 kg/ha), respectively and significantly higher reducing sugar, non-reducing sugar and total sugars were obtained with early planting i.e., 15th November with 20 kg/ha of elemental sulphur, while higher content of pyruvic acid was found in late planting (15th January with 60 kg/h of elemental sulphur) of the crop.

Key Words : Elemental sulphur, Gypsum, Planting dates, Onion

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