



**RESEARCH ARTICLE :**

## Effect of rainfed organic cotton on chemical properties in vertisol

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Cotton, Rainfed, pH, EC, Organic Carbon, Total nitrogen

**SUMMARY :** The present investigation entitled “Effect of rainfed organic cotton on chemical properties in Vertisol” was conducted at the farm of Cotton Research Unit, Central Research Station, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, during *Kharif* 2015-16. The experiment was laid out in RBD with ten treatments and three replications. Organic sources used were FYM, Vermicompost, Sunhemp, Castor cake, *Neem* cake and Sunhemp as *in situ* green manure crop. After 6<sup>th</sup> year of organic cotton experimentation, the influence of different organic sources application of FYM @ 10 t ha<sup>-1</sup> reported lowest pH of soil (7.86) and same dose of FYM application reported numerically lowest value of EC (0.115 dSm<sup>-1</sup>), whereas significantly highest organic carbon (0.57%) content of soil was recorded by the treatment vermicompost @ 5 t ha<sup>-1</sup>, and the significantly total nitrogen content of soil was recorded by the treatment FYM @ 10 t ha<sup>-1</sup>. Significantly lowest C:N ratio of soil (8.24) was recorded by the treatment received FYM @ 10 t ha<sup>-1</sup>.

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