



Research Article

Effect of paddy straw and paper mill effluent on physico-chemical properties of soil

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Summary

A field experiment with wheat crop was conducted in progressive farmer's field in 2006-07 and 2007-08 at Nalhera village district Saharanpur, Uttar Pradesh. The experiment was laid out in RBD with twelve treatments and three replications. In the investigation different levels of NPK and dilution of paper mill effluent with a fixed amount 5 ton paddy straw was used. Soil samples collected from different plots before crop sowing analyzed for different physico-chemical properties *i.e.* pH, Ec, calcium carbonate content, Av. N, Av. P and Av. K. The values for pH, Ec, CaCO₃, available nitrogen, available phosphorus and available potassium before sowing were 6.71, 0.241 dSm⁻¹, 1.10 per cent, 137 mgkg⁻¹, 13.8 mgkg⁻¹ and 87.0 mgkg⁻¹, respectively in 2006-2007 and 6.74, 0.238 dSm⁻¹, 1.24 per cent, 139 mgkg⁻¹, 13.6 mgkg⁻¹ and 90 mgkg⁻¹ were observed in 2007-08. Paddy straw and paper mill effluent were also analyzed for different properties.

Key words : Paddy straw, Paper mill, Effluent, Physico-chemical, Soil

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