



Effect of paddy straw and paper mill effluent on growth attributes and yield of wheat

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Abstract : A field experiment was conducted on the field of progressive farmer at Nalhera village district Saharanpur, Uttar Pradesh from *Rabi* 2006-07 and 2007-08 to study the effect of paddy straw and paper mill effluent on growth and yield attributes of wheat rhizosphere. The experiment was carried out in RBD with 12 treatments and three replications. In the study different levels of NPK were mixed with various proportions of diluted paper mill effluent and fixed amount of 5 ton paddy straw. During the study of growth and yield attributes it was observed that application of 100 % recommended NPK + 5 ton paddy straw recorded 10.0 and 10.3 no. of tillers in 2006-07 and 2007-08 which were at par with 150% NPK and 100% NPK treatments. Differences among treatments for effective numbers of tillers per square meter were highly significant in both the years. The minimum no. of tillers was observed in the application of 75% recommended dose of NPK+100% PME. The highest plant height was recorded with application of 150% recommended dose of NPK was 75.6 and 75.0 cm in both the year application of chemical fertilizers and with paddy straw give significantly higher plant height. The result revealed that maximum average plant dry weight and length of ears were observed that application of 150 % recommended NPK was 21.39, 21.94 g 9.30 and 10.20 cm per plant in both the years, respectively. The data on grains per ear envisage the differences in treatment highly significant during both the crop seasons. The result show that NPK alone 150% and 100% application with paddy straw were significantly different in all the growth attributes viz., plant height, plant dry weight, no. of tillers, ear length etc. compared with application of paper mill effluent in irrigation.

Key Words : Paddy straw, Paper mill effluent, Growth attributes, Yield attributes

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