New Agriculturist, **26**(1) : 65–68, 2015

Performance of wheat (*Triticnm aestivum*) as influenced by iron with and without farm yard manure in light-textured entisol

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Received December 13, 2014 and Accepted March 23, 2015

ABSTRACT : Three year field experiment with wheat (*Triticum aestivum*) cv.PBW- 502 during rabi 2005-06, 2006-07 and 2007-08 at Zonal Research Centre Ujhani- Budaun, Uttar Pradesh were undertaken to study the effect of iron and FYM application on growth, yield attributes and yield of wheat. Iron application, either alone or along with FYM, increased the growth, yield attributes and yield of wheat. Iron application with or without FYM significantly increased the effective tillers/ plant, grain and stover yield, while increased in plant height, ear length, grains/ear and test-weight were statistically non significant. Highest ear length (10.93 cm), 1000-grain weight (31.8 g) and stover yield (70.80 q/ha) were obtained with the application of 40 kg $FeSO_4$+10 t FYM/ha alongwith R.D.F. where as, highest plant height (98.60 cm), effective tillers/plant (7.93), grains/ear (51.3), grain yield (52.08 q/ha) gross, and net return were obtained at 50 kg $FeSO_4$+10 t FYM+RDF.

Key Words : $FeSO_4$, FYM, RDF and iron.