



RESEARCH ARTICLE :

Effect of different organic source of manures on yield of white ponni

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SUMMARY : A field experiment was conducted at the Wetland farm, Department of Farm Management, Tamil Nadu Agricultural University, Coimbatore during *Samba* season (August, 2014 to January, 2015) to study the effect of different organic source of manures on yield of White ponni. The experiment was laid out in split plot design with three replications. The treatments at main plot consisted of different organic manures that were used *viz.*, no manure (M_1), FYM 5.0 t ha⁻¹ (M_2), FYM 5.0 t ha⁻¹ + *Neem* cake 1.0 t ha⁻¹ (M_3) and FYM 5.0 t ha⁻¹ + *Neem* cake 1.0 t ha⁻¹ + Vermicompost 2.0 t ha⁻¹ (Vermicompost at two splits at active tillering (AT) (1.0t) and panicle initiation (PI) (1.0t) stages (M_4)). The control plots did not receive any manure. In sub plots, different foliar sprays *viz.*, Water spray at AT and PI stages (S_1), PPFM (2%) at AT and PI stages (S_2) and TNAU *Panchakavya* (3%) at AT and PI stages (S_3) were sprayed. Higher grain and straw yield (4100 and 4825 kg ha⁻¹, respectively) were obtained under FYM 5.0 t ha⁻¹ + *Neem* cake 1.0 t ha⁻¹ + Vermicompost 2.0 t ha⁻¹ (Vermicompost at two splits at AT and PI stages) (M_4) and the yield under control (S_1) was (1856 and 2986 kg ha⁻¹, respectively). Combined application of organic manures and foliar spray recorded increased grain and straw yields *i.e.*, M_4S_3 (4278 and 5324 kg ha⁻¹, respectively).

KEY WORDS :

Organic manures,
Foliar sprays,
Organic rice, Yield

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