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Research Article

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Residual effect of different sources of nutrients on P content in maize at different growth stages in rice fallow maize cropping system

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Summary

A Doctoral Research was conducted for two consecutive years (2011-2012 and 2012-2013) on fine texture soils of agricultural college farm, Bapatla to find out the residual effect of different sources of nutrients applied to preceding rice on P content in maize at different growth stages. The experiment was laidout in a Randomized Block Design in *Kharif* season with four treatments. The treatments consisted of M_1 (RDF - Control), M_2 (10t FYM ha^{-1} + RDF), M_3 (1.5t vermicompost ha^{-1} + RDF), M_4 (Green manuring + RDF). During the immediate *Rabi,* the experiment was laid out in a split-plot design without disturbing the soil for succeeding maize with the four treatments given to *Kharif* rice as main plot treatments and each of these divided into five sub-plots to receive five levels of fertilizer NPK application *viz.*, N_1 - 75%NPK, N_2 - 100% NPK, N_3 - 125% NPK, N_4 - 150% NPK and N_5 - 175% NPK for succeeding maize. Data collected on P content in maize at different growth stages was significantly increased with the application of 100% NPK in combination with FYM @10t ha^{-1} to preceding rice crop, irrespective of the NPK levels applied to succeeding maize crop. However, it was on par with that of green manuring together with 100% NPK during both the years of the study.

Key words : FYM, Green manuring, Vermicompost, P content

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