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## A CASE STUDY

# Comparison of tank silt and farm yard manures in relation to soil water retention capacity and soil fertility in redgram in alfisol of NSP left canal command area

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**Abstract :** On farm field experiment on effect of soil amendments in relation to soil water retention capacity and soil fertility in redgram were taken up in *Alfisols* of NSP left canal command area during *Kharif* 2006 and *Kharif* 2007 at pilot area Ganapavaram of Nagarjuna Sagar Project left canal command under A.P. water management project funded by FAO. The trial was carried with the farmers participatory mode to study the impact of application of tank silt and farm yard manure as soil amendments in relation to soil water retention capacity and soil fertility and on crop yield of redgram. The five treatments consisted of 5t FYM/ha, 10t FYM/ha, 20t tank silt/ha, 30t tank silt/ha and RDF. Application of 20 t of tank silt + RDF and 30 t of tank silt + RDF application recorded highest grain yield of 2290 kg ha<sup>-1</sup> and 2180 kg ha<sup>-1</sup> during *Kharif*, 2006 and 20 t of tank silt + RDF recorded highest grain yield of 2280 kg/ha followed by application of 30 t of tank silt+ RDF (2130 kg/ha) and application of 10 t of FYM+ RDF (2040 kg/ha) during *Kharif*, 2007, respectively. Post harvest soil analysis revealed that the organic carbon content was high in 10 t FYM + RDF where as the application of increased tank silt recorded increase in water holding capacity during the both the years.

**Key Words :** Soil amendments, Soil fertility, Redgram, Canal command

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