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RESEARCH PAPER

Productivity of different cropping systems as influenced by resource conservation techniques

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Abstract : The field experiment was conducted on loamy sand soils of Agronomy Instructional Farm, C. P. College of Agriculture, S. D. Agricultural University, Sardarkrushinagar (Gujarat) during the years 2012-13 and 2013-14 to study productivity of different cropping systems as influenced by resource conservation techniques. Cotton - summer pearlmillet cropping system was found significantly superior by recording higher pearlmillet equivalent yield and nutrients profitability, while, water productivity, water profitability and nutrients productivity were found higher under greengram + *Kharif* castor (relay) cropping system. Greengram - mustard - summer pearlmillet recorded the highest agro-energy. Residue incorporation secured top position by recording significantly the highest pearlmillet equivalent yield, water productivity, water profitability, nutrients productivity, nutrients profitability as well as agro-energy. The application of 75 % RDN through inorganic fertilizer + 25 % RDN through FYM recorded significantly the highest pearlmillet equivalent yield, water productivity, water profitability, nutrients productivity, nutrients profitability and agro-energy.

Key Words : Cropping system, Residue incorporation, FYM, Nutrients productivity, Nutrients profitability, Water productivity, Water profitability

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