



Research Paper

Correlation studies for site specific nutrient management to achieve the target yields in sugarcane

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ABSTRACT : A field experiment was carried out to study the precision nutrients management in sugarcane during 2008-09 and 2009-10 at Research and Development Farm NSSK, Krishna Nagar, Dt. Bijapur. The experiment in farmers field extended to 2010-11 as only preliminary studies were conducted during 2008-09. The results revealed that the large yield variations in grids of uniformity trial (82.7 t/ha - 128.2 t/ha) 45.5 t/ha and nutrients uptake by the crop ranged between 148.9 – 547.4 kg N/ha (398.5), 2.48 – 15.61 kg P/ha (13.13) and 124.8 – 434.2 kg K/ha (309.4). Sugarcane plant crop recorded significantly higher yield (139.7 t/ha) in relatively high nitrogen containing soils over the low soil nitrogen containing groups (119.0 t/ha). Similar observations were recorded in growth and yield parameters of sugarcane. Ratoon sugarcane also recorded significantly higher yield in relatively high soil nitrogen containing group (126.2 t/ha) over the soils with low nitrogen (109.4 t/ha). Similar observations were recorded in growth and yield parameters.

KEY WORDS : Sugarcane, Correlation studies, Target yield, SSNM GPS

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