An Asian Journal of Soil Science, **(June, 2010) Vol. 5 No. 1 : 209-211**

Research Paper :

Influence of liquid fertilizers through drip irrigation on growth and yield of Suru sugarcane

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Accepted : *May, 2010*

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ABSTRACT

A field experiment was carried out at AICRP on water management Project, Mahatma Phule Krishi Vidyapeeth, Rahuri during 1997-98 on vertic Ustropept. The experiment was conducted in Factorial Randomized Block Design (FRBD) with three replications and eight treatments. The treatments consisted of (a) four levels of NP and K through Richfield water soluble fertilizers (RWSF) *viz.*, 50%, 75%, 100%, 125% per cent of recommended dose, (b) four levels of NPK through straight fertilizers (SF) *viz.*, 50%, 75%, 100 %, 125% per cent of recommended dose. The growth parameters such as cane height, no of internodes, girth of internodes, weight/cane and leaf area were found to be maximum in 125% RD of RWSF as compared to SF. Application of RWSF resulted into higher cane yield (153.35 t/ha) by 9% over to that of SF (141.76 t/ha). The fertilizers application through drip at 125 % RD was found to be significantly superior to those of 100% RD.

Key words : RWSF, SF, Sugarcane, Liquid, Fertilizer