Effect of Dairy Factory Effluent on Available Macronutrients in Soils of Pearlmillet and Greengram Crops

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ABSTRACT

A pot culture experiment was conducted during *rabi,* 2009 at S.V.Agricultural college, Tirupati (Andhra Pradesh) to characterize Dairy factory effluent (DFE) with respect to macronutrients and also to study the effect of Dairy factory effluent on available macronutrients in greengram and pearlmillet crops. The available N, P, K and S increased with increase in levels of Dairy factory effluent application from DFE_0 to $DFE_{3.0}$ irrespective of the crops studied. The soils of pearlmillet crop recorded higher available P and S whereas the soils of greengram crop registered higher available N and K. The interaction effect between crops and levels of Dairy factory effluent on available N and P was significant at 50 days and 25 days, respectively. Further, the interaction on available S was found to be significant at 50 days only while the interaction effect on available K was significant at all stages of crop growth.

Key words : Available N,P,K and S of soil, Dairy factory effluent, Greengram, Pearlmillet.