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RESEARCH PAPER

Studies on nutrient use efficiency and water use efficiency of paprika (*Capsicum annuum* var. Longam) cv. KtPl-19 under drip fertigation

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Abstract : Paprika (*Capsicum annuum* var. *longam*) is one of the important capsicum group known for its less pungency. Application of fertilizers through drip irrigation is known to play a vital role in enhancing the productivity and quality of many horticultural crops. In this view, studies on paprika (*Capsicum annuum* var. *longam*) were carried out at the College orchard, Horticultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore, during 2006-2009 to find out the effect of different sources and levels of potassium with reference to nutrient use efficiency water use efficiency. The experiment was conducted for two seasons *viz.*, season I (June 2007- Jan 2008) and season II (July 2008- Feb 2009) to get the concurrent result. From the study, it was observed that the crop paprika responded well to the fertigation treatments. The result revealed that application of 100 % RDF as MAP, Multi-K and SOP recorded the highest nutrient use efficiency of 60.50 kg kg nutrient^{-1} and nutrient use efficiency of 37.71 kg ha^{-1}mm^{-1}.

Key Words : Paprika, *Capsicum annuum* var. Longam, Drip fertigation, Nutrient use efficiency, Water use efficiency

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