

RESEARCH ARTICLE :

Effect of drip fertigation on chilli - Agronomic use efficiency (*Capsicum annuum* L.) cv. KKM-1

■ C. CIBA AND M. SYAMALA

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SUMMARY : A field experiment on water use efficiency, nutrient use efficiency and agronomic use efficiency of chilli (*Capsicum annuum* L.) cv. KKM-1 under drip fertigation was carried out in College Orchard of Agricultural College and Research Institute, Madurai, Tamil Nadu during *Kharif* 2007 and summer 2008. The experiments were laid out in Randomized Block Design (RBD) with nine treatments in three replications. The study revealed that the increased water use efficiency, nutrient use efficiency and agronomic use efficiency characters was obtained in T₉ (T₅ + liquid biofertilizers + Panchagavya + Humic acid) for both *Kharif* and summer season. Application of 100 per cent drip fertigation through water soluble fertilizers along with bio stimulants (T₉) significantly higher water use efficiency (6.12 and 6.39 kg. ha mm⁻¹), nitrogen use efficiency (33.75 and 32.58 kg. kg N ha⁻¹), phosphorus use efficiency (67.50 and 65.17 kg. kg P ha⁻¹), potassium use efficiency (135.00 and 130.33 kg. kg K ha⁻¹), agronomic use efficiency of nitrogen (14.92 and 14.17 kg. kg N ha⁻¹), agronomic use efficiency of phosphorous (29.83 and 28.33 kg. kg P ha⁻¹) and agronomic use efficiency of potassium (59.67 and 56.67 kg. kg K ha⁻¹) of chilli (*Capsicum annuum* L.) cv. KKM-1.

KEY WORDS :

Drip Fertigation,
WUF, NUF, AUF,
Chilli

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Author for correspondence :

C. CIBA

Department of
Horticulture, Agricultural
College and Research
Institute, MADURAI (T.N.)
INDIA
Email : [cibahorti@
gmail.com](mailto:cibahorti@gmail.com)

See end of the article for
authors' affiliations