



Research Paper

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Effect of different sources and levels of potassium on growth and yield of paprika (*Capsicum annuum* var. *longum*) cv. KtPl-19 under drip fertigation system

■ G. SATHISH, V. PONNUSWAMI¹, I. GEETHALAKSHMI² AND K. SUNDHARAIYA³

Members of the Research Forum

Associated Authors:

¹Horticultural College and Research Institute, Tamil Nadu Agricultural University, COIMBATORE (T.N.) INDIA

Email : swamyvp2002@yahoo.co.in

²Regional Research Station, (T.N.A.U.), Aruppukottai, VIRUDHUNAGAR (T.N.) INDIA
Email : geethahorty@yahoo.in

³Horticultural College and Research Institute (T.N.A.U.), PERIYAKULAM (T.N.) INDIA
Email : aiya_hort@rediffmail.com

Author for correspondence :

G. SATHISH

Horticultural Research Station (T.N.A.U.), KODAIKANAL (T.N.) INDIA

Email : gskspice@gmail.com

ABSTRACT : Paprika is one of the important natural food colourants next to turmeric. Fertigation is known to play a vital role in enhancing the productivity and quality of many horticultural crops. Fertigation studies on paprika (*Capsicum annuum* var. *longum*) 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 on growth and yield parameters of paprika. The results revealed that significantly higher growth and yield attributes viz., plant height, number of branches per plant, higher fruit set percentage, number of fruits per plant, length of the fruit (cm), girth of the fruit (cm), pericarp thickness (mm), fresh fruit weight (g), fresh fruit yield per plant (g), dry fruit yield per plant (g), fresh fruit yield per plot (kg), dry fruit yield per plot (kg), fresh fruit yield per hectare (t) and dry fruit yield per hectare (t) were observed by the treatment T₇ viz., drip fertigation with water soluble fertilizers at 100 per cent RDF using MAP, Multi-K, and SOP. Similarly, the same treatment was found to register significantly minimum number of days to first flowering and days to 50 per cent flowering.

KEY WORDS : Paprika, KtPl-19, Drip fertigation, Growth, Yield

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