

# 2<sup>nd</sup> International Conference on Agricultural & Horticultural Sciences

Radisson Blu Plaza Hotel, Hyderabad, India February 03-05, 2014

## Dissipation pattern of profenophos on cabbage (*Brassica oleracea var. capitata*)

Shashi Vemuri and Anugu Anil Reddy

Acharya N. G. Ranga Agricultural University, India

An experiment conducted during *kharif*, 2012 to evaluate the efficacy of seven insecticides viz., emamectin benzoate 5 SG at 11 g a.i.ha<sup>-1</sup>, emamectin benzoate 5 SG at 22 g a.i.ha<sup>-1</sup>, profenophos 50 EC at 500 g a.i.ha<sup>-1</sup>, profenophos 50 EC at 1000 g a.i.ha<sup>-1</sup>, spinosad 45 SC at 100 g a.i.ha<sup>-1</sup>, bifenthrin 10 EC at 100 g a.i.ha<sup>-1</sup> and *Bacillus thuringiensis* at 5 WP at 25 g a.i.ha<sup>-1</sup> against *Plutella xylostella* on cabbage of which profenophos 50 EC (1000 g a.i.ha<sup>-1</sup>), applied twice as foliar sprays was found to be most effective in controlling the *Plutella xylostella*, hence the dissipation studies were conducted for the same. The dissipation pattern of profenophos 50 EC (1000 g a.i.ha<sup>-1</sup>) was studied collecting samples at regular intervals i.e., 0, 1, 3, 5, 7, 10, 15 and 20 days after last spray and analyzed at AINP on pesticide residues, Rajendranagar, Hyderabad to know the dynamics of degradation. The initial deposits of 0.99 mg kg<sup>-1</sup> profenophos recorded at 2 hours after last spray dissipated to 0.85, 0.82, 0.16 and 0.07 mg kg<sup>-1</sup> by 1, 3, 5 and 7 days after last spray, respectively and below determination level (BDL) by 10<sup>th</sup> day.

### Biography

Shashi Vemuri has completed his Ph.D. at the age of 27 years from Andhra Pradesh Agricultural University specializing in pesticide residues and has 30 years of teaching, Research and Extension experience. He is the Principal Investigator of the Central Sector project "Monitoring of Pesticide Residues at National level" and heading the All India Net work project on Pesticide Residues, Hyderabad centre. He has published more than 65 papers in reputed journals and 32 papers in international conferences in many countries. He is serving as an editorial board member of repute. He is the member of International Sugarcane Technologists Association and received number of State and National awards for his contribution to Farming Society.

sash\_3156@yahoo.co.in