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Evaluation of organic, integrated and inorganic management practices on the incidence of insect pests and natural enemies in groundnut and cotton ecosystem

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The experiment was conducted to know the effect of organic, integrated and inorganic management practices on the incidence of insect pests in groundnut and cotton intercropping system during 2015-2016 to 2016-2017 at Institute of Organic Farming, University of Agricultural Sciences, Dharwad, Karnataka, India. In groundnut, the per cent defoliation due to *Spodoptera litura* ranged from 11.5 to 16.75 in different farming systems. However, the incidence was more in organic as compared to integrated and inorganic management practices. Similarly, the studies made in cotton revealed that the per cent boll damage due to *Helicoverpa armigera* varied from 8.19 to 12.75 in different farming systems. The incidence of bollworms was less in integrated and RPP and found on par with each other and differed significantly with organic farming. The similar trend was observed with aphids and leafhoppers where as the incidence was less than ETL. The natural enemies' viz., coccinellids and *Chrysoperla* were observed more in organic as compared to other farming systems.

Biography

Shekharappa works as a Professor of Entomology in the Institute of Organic Farming, University of Agricultural Sciences, Dharwad, India. He has worked as an Instructor during 1988-1992 at College of Agriculture, Raichur; Assistant Plant Protection Specialist (Ent) during 1992-1996 at Extension Education Unit, Raichur; Asst. Entomologist during 1996-1997 at AICCIP, ARS, Dharwad Farm, Hebballi; Asst. Entomologist during 1997-2002 at AICRP on Midge, UAS, Dharwad; Sr. Entomologist during 2002-2010 at AICSIP, UAS, Dharwad; Professor (Entomology) 2010-2015 at AICSIP, UAS, Dharwad and currently working as a Professor of Entomology since 2015 at IOF, UAS, Dharwad. He has also trained Post graduate and PhD students. He was awarded "Environmentalism of the Year Award 2008" conferred by National Environmental Science Academy, New Delhi during 21st Annual Conference held at Bangalore University, Bangalore, India.

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