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Field efficacy of bio-pesticides and insecticides for management of phyllody disease in sesame

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Sesame, (*Sesame indicum* L.) is the indigenous oil seed crop of the world and also a major oilseed crop of India including Bundelkhand Zone of Madhya Pradesh. The export demand is an increasing trend promising a bright future for export potential. India contributes the highest sesame acreage of above 20 lakh hectare. The low productivity (465 kg/ha) is attributed to poor crop management and exposure of the crop to a number of biotic and abiotic stresses. Among biotic stress, sesame phyllody is the most destructive disease in India. In some tracts phyllody cause crop losses as high as 99 percent in yield. Efficacy of some plant product and insecticides against Jassids (vector of phyllody) was tested, during summer 2013 and used variety JTS-8. The results revealed that the incidence of sucking pests viz., jassid, thrips, and whitefly were decreased significantly by natural and indigenous products as compared to untreated. However, Insecticides Imidachlorprid 17.8SL (0.02%) was most effective for management of phyllody disease than other treatments. Grain yield was significantly higher in all the treatments as compared to untreated but was maximum with Imidachlorprid 0.02% (637 kg/ha) followed by neem oil 5% (568 kg/ha).

Biography

Kailash N Gupta, graduated and post graduated from Faculty of Agriculture Plant Pathology, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur-482004. Dr. Gupta has completed his PhD from JMI, A Central University New Delhi. He worked as several ICAR institutes viz., Division of Plant Pathology, NRL, Indian Agricultural Research Institute, New Delhi, Central Institute for Cotton Research, Nagpur and Bihar Agricultural University Sabour and joined as Assistant Professor cum Scientist of Plant Pathology in Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur-482004, India. He has published more than 20 Research papers in reputed National and International journals, 35 abstracts, one book chapter, 10 technical bulletins and 30 popular articles during the tenure.

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