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EFFICACY OF SYSTEMIC INSECTICIDES AGAINST APHID ON MUSTARD CROP

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ABSTRACT

Eight insecticides viz., Dimecron (phospholmidon), Pirimore (pirimicarb), Anthio (formothion), Metasystox (oxydermeton methyl), Temik (aldicarb), Decamox (thiofanox), Thimet (Phorate) and Solvirex (disulfoton) were applied against aphid on mustard crop. Results showed that in emulsifiable concentrate Dimecron and Metasystox were significantly more effective when compared with Anthio and Pirimore. Temik was comparatively more toxic and persistant followed by Thimet, Decamox and Solvirex in the granular formulation. Similarly, the plots sprayed with more effective insecticides gave higher yields.

INTRODUCTION:

Mustard is important oil seed crop of spring season. Its oil is edible and used in culinary in preparing ointment and soap making etc.. The yield of oil seed crops is very low in Pakistan as compared to other countries. One of the most important factors responsible for low yield is the damage caused by insect pests. Among these aphid. Brevicoryne brassicae L. and Lipaphis erysimi Kalt. are reckoned to be the serious sucking pest of this crop. Both the adults and nymphs suck the cell sap resulting in dehydration and destruction of the plant. Moreover, their excreta (honey dew) serve as medium for the fungus growth which effects photosynthetic activity of the plant. Ultimately the yield of the crop is reduced [2]. Different insecticides have been tried by various workers to control this insect pest on mustard crop Kakar and Dogra [4] ; Hamid and Ahmad [3] ; Abbasi et al [1] ; Roa and