INTEGRATED PEST AND DISEASE MANAGEMENT THROUGH ORGANIC FARMING APPROACHES IN MUSTARD

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Abstract: Field experiment was conducted to study the effect of the different organic modules for management of *Alternaria blight* and *Powdery mildew* diseases of Indian Mustard (Brassica juncea) (L.) Czern & Coss). Efficacy of different organic modules were also tested against aphid management in successful growing of organic mustard. Treatment module comprising of seed treatment with *Trichoderma viride* @8g/kg seed + foliar spray of Azadirachtin @3ml/lit. at 5-10DAS+ Neem oil spray@2% at 10-20DAS+ NSKE spray@5% at 30-40 DAS+cow urine spray@10% at 50-60DAS+ milk whey spray @10% at 60-75 DAS was found significantly superior over control and gave maximum seed yield of mustard 13.65/q/ha. in comparison to control which gave only 10.16q/ha. mustard seed yield. This organic module was found superior in respect to disease control also, and effectively controlled both the diseases and record minimum disease intensity of *Alternaria blight*(15.94%) and *Powdery mildew* 17.67%. Where as in control 38.32% and 48.15% disease intensity was observed respectively. This module gave the highest net return of Rs.2329/over control with maximum B:C ratio of 1.88,1.83 and 1.84 in year 2012-13 & 2013-14 & 2014-15 respectively.

Keywords: Mustard, *Alternaria blight*, *Powdery mildew*, Aphids *Trichoderma viride*, Milk whey, *Azadirachtin*

REFERENCES


