

Potential for Biocontrol of Diamondback Moth in Myanmar by using a predatory bug



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Introduction

- Diamondback Moth (DBM) is the most damaging cabbage pest in Myanmar and in almost all tropical countries
- Cabbage plants and ideal temperatures for high DBM populations prevail throughout the year
- Due to frequent insecticide applications resistance development, including *B. thuringiensis*, has been selected for



• We tested a predator bug (*Eocanthecona furcellata*- EO), native to Myanmar and commonly found in the field, for its effectiveness to prey on Diamondback Moth larvae

We used 2nd instars of EO nymphs and 5 different DBM larval densities(2,4,6,8,10) in the experiments

Methods

- DBM larvae were placed in 9 cm Ø plastic petri- dishes; one EO nymph was placed in the centre of each arena; these were then kept at a constant temperature (30°C, 75% RH and 12:12 L:D) photoperiod in climate cabinets.
- DBM larvae consumed per day, larvae still alive and EO moulting dates to adult stage were recorded









Conclusion

Base on these preliminary data, and given that mass propagation in the lab is no problem, we propose that this predatory bug *Eocanthecona furcellata* might hold potential for controlling **DBM** populations in cabbage field; it thus should be tested under field conditions in Myanmar.