

ASSESSMENT OF IPM TECHNOLOGY FOR MANAGEMENT OF FRUIT FLY (*CARPOMYIA VESUVIANA* COSTA) IN ALWAR DISTRICT OF RAJASTHAN

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Received-09.06.2021, Revised-18.06.2021, Accepted-28.06.2021

Abstract: The experiment was carried out to evaluation of technological gap and performance of integrated pest management (IPM) against the Ber fruit fly, *Carpomyia vesuviana* Costa (Diptera: Tephritidae) with using deep summer ploughing, clean cultivation with two foliar application of Dimethoate 30 EC @ 1ml/ltr in 0.5% Jaggery with establishment of Pheromone (*Methyl eugenol*) trap @ 25 traps/ha at time of flower formation and fruit set at farmers field condition. This experiment was conducted in on farm trials (OFT) at ten farmers field of Shekhambas and Ramgarh villages of Alwar district (Rajasthan) during period of two years (2019-20 and 2020-21). The fruit fly infestation was recorded lowest (pest infestation 12.37 %) when, using deep summer ploughing, clean cultivation with two foliar application of Dimethoate 30 EC @ 1ml/ltr in 0.5% Jaggery with 25 Pheromone (*Methyl eugenol*) trap per ha. Maximum infestation pest damage (56.24%) was observed in traditional farmers practice (FP), the adoption of recommended production technology and plant protection measures of ber was poor. The main objective of the OFT was to conduct extent of technological gap between recommended and actually adopted ber fruit fly management technologies by the ber growers in Alwar district of Rajasthan. The OFT was effective in changing attitude, skill and knowledge of IPM approach and ber fruit yield increased upto 42.43 percent more over the farmers practice. Results indicate that IPM approach received higher net income by Rs. 268164 /ha as compare to FP (Rs. 206518 /ha).

Keywords: Ber, Fruit Fly, *Carpomyia vesuviana* Costa, IPM, OFT

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