

Assessing the Potential of *Pimenta racemosa* (Mill.) J. W. Moore Leaf Extract as an Attractant for *Bactrocera Dorsalis* (Hendel) in Selected Mango Plantations in Southern Ghana

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Abstract : A brief study involving the use of natural plant product in trapping of *Bactrocera dorsalis* was conducted in selected mango orchards in two agro ecological zone of Ghana for the major mango season. The main objective of the study was to compare the attractiveness of different concentrations of aqueous leaf extract of *Pimenta racemosa* with a commercial methyl eugenol (Stop Mating Block). A total number of 174,388 organisms were captured with 171,412 identified as *B. dorsalis* and 2,976 identified as non-target (other insects and spiders). Significant differences ($P < 0.05$) were observed in the performance of the different treatments across the selected experimental farms. Stop Mating Block performed better than the different concentrations with a significant margin. The result suggests that Stop Mating Block performed better than the extract but it is economically preferable since most farmers in Ghana are small-holder farmers.

Keywords : *bactrocera dorsalis*, methyl eugenol, *Pimenta racemosa*, stop mating block

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