

Interaction of Aggregation Pheromone Components of the Bean Bug, *Riptortus clavatus* (Thunberg) (Hemiptera: Alydidae)

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Aggregation pheromone of the bean bug, *Riptortus clavatus*, is composed of three components; (E)-2-hexenyl (Z)-3-hexenoate (EZ), (E)-2-hexenyl (E)-2-hexenoate (EE), and myristyl isobutyrate (MI). The roles of each component in attractiveness to the bug were tested in the fields using laboratory-synthetic chemicals. When used singly, EZ or EE was not attractive, and MI only attractive to the bug. However the mixture of EZ and EE was greatly synergistic to the attractiveness of MI. The number of catches was significantly proportional to the increasing amount of MI up to 50 mg per rubber septum in this experiment only in the presence of EZ and MI. One mg of MI in mixture with EZ (7 mg) and EE (36 mg) rivaled 100 mg MI alone in attractiveness. Binary blends of EZ and EE up to 50:50 mg did not have attractiveness to *R. clavatus*.