



Intisari

Bemisia tabaci merupakan hama polifag yang dapat sebagai vektor virus *Pepper Yellow Leaf Curl Virus* (PYLCV). Salah satu upaya pengendalian *B. tabaci* yaitu dengan penggunaan tanaman jagung. Tanaman jagung memiliki biologis yang tinggi dan lebar, selain itu memiliki senyawa repelen sehingga dapat mengusir serangga. Penelitian ini dilakukan untuk mengetahui pengaruh penanaman tanaman jagung di sekitar tanaman cabai terhadap penyebaran *B. tabaci*. Penelitian dilakukan di Randulanang, Jatinom, Klaten. Terdapat tiga perlakuan yaitu tanaman jagung mengelilingi petak tanaman cabai, tanaman jagung di antara tanaman cabai, dan tanaman cabai tanpa tanaman jagung. *B. tabaci* diperangkap menggunakan perangkap *Yellow Sticky Trap*. Pengamatan dilakukan seminggu sekali, sebanyak delapan kali dengan menghitung jumlah *B. tabaci* yang tertangkap pada perangkap. *B. tabaci* yang tertangkap pada petak lahan cabai yang terdapat tanaman jagung lebih rendah dibandingkan petak lahan cabai tanpa tanaman jagung, menunjukkan bahwa tanaman jagung efektif mengusir *B. tabaci*.

Kata kunci : *Bemisia tabaci*, cabai, tanaman jagung, *Yellow Sticky Trap*

Abstract

Bemisia tabaci is a polyphagous pest that can be used as a vector for the *Pepper Yellow Leaf Curl Virus* (PYLCV). One of the efforts to control *B. tabaci* is the use of maize plants. Maize plants are biologically tall and wide, apart from that they have repellent compounds so they can repel insects. This research was conducted to determine the effect of planting maize plants around chili plants on the spread of *B. tabaci*. The research was conducted in Randulanang, Jatinom, Klaten. There were three treatments, namely maize plants around the chili plantations, maize plants between chili plants, and chili plants without maize plants. *B. tabaci* was trapped using Yellow Sticky Trap. Observations were made once a week, for eight times by counting the number of *B. tabaci* caught in the traps. The trapped *B. tabaci* in chili plots where maize plants was found was lower than the chili plots without maize plants, indicating that maize was effective in expelling *B. tabaci*.

Key words: *Bemisia tabaci*, chili, maize plant, Yellow Sticky Trap