

ABSTRACT

Kusna, Niva Tuti'atul, 2011, **Whirl Nurse Maid of Aphid *Bemisia tabaci* Gennadius (Homoptera : Aleyrodidae) on Cultivation Plants and Weeds**. Thesis, Biology Department, Science and Technology Faculty, Maulana Malik Ibrahim State Islamic University, Malang. Adsor I : Dwi Suheriyanto, MP; Adsor II : Ir. Yuliantoro Baliadi, MS; Religion Adsor : Dr. Ahmad Barizi MA.

Key Word : whirlnursemaid, *Bemisia tabaci*, cultivation plant, weeds

An aphid (*Bemisia tabaci* Gen, Homoptera: Aleyrodidae) is polifag post that attacks a various kind of cultivation plant and weeds. One of population dynamics of Aphid is then influenced by the chacteristic of its nursemaid type. A nursemaid it self is a plant that on fulfill the necessity of insect related to behanou nutrient need. While the charactdishi of so atted. Attecked plant is indicoted by necroic mark on leaves caused by the damaged cells and leaves tissue as a result of nimfa and imago inhale.

Inihally, *Bemisia tabaci* can be controlled by chemical insecticide but then it get easy to resist it's classified to insect with "r" strategy that is characteried but easy to since adapt pressure enuronmental presside. The preseace of another nursemaid in farm ecosystem. Suports the continuy of insect when its main inavailable nursemad is therforc control will be effective if sanitation to such plant insurmaid is done. While the information about while nursemaid of Aphid in plant is so limitid that it needs to coneduct a research related to that.

This reseach takes place in plantation land of Balitkabi, kendalpayak, Malang in Juli-September 2010 it is Quantitative descriptive with purposive sampling method to describe whirl nursemaid and population of Aphid *Bemisia tabaci* on varions cultivation plant and weeds.

The reseach shows that the nursemad of *B. tabaci* on cultivation and weeds is inderly classified into Fabaceae, Convolvulaceae, Euphorbiaceae, Solanaceae, Asteraceae, Portulacaceae, Amaranthacea. The *B. tabaci* spread on 9 plant : *Glycine max*, *Ipomoea batata*, *Manihot esculenta*, *Capsicum annum*, *Canavalia roseae*, *Psophocarpus tetragonolobus*, *Mucuna prurien*, *Vigna radiata*, *Arachis hypogaea* and 8 weeds : *Ageratum conyzoides*, *Euphorbia hirta*, *Crassocephalum crepidioides*, *Conyza albida*, *Portulaca oleracea*, *Synedrella nodiflora*, *Gomphrena celosioides*, and *Amaranthus viridis*. Population density of imago, egg, nimfa and pupa *Bemisia tabaci* reaches its peak on *Glycine max* (161,18 per plant) and it's lomut on *Capsicum annum* (0,45 per plant). While the insect population density of weeds is on *Ageratum conyzoides* (7,86 per plant) and *Synedrella nodiflora* (0,34 per plant) as the lowest.