

EFECTO DE LA PLANTA HOSPEDERA SOBRE DIFERENTES SUBESPECIES DE Myzus persicae (Sulzer) Y EL PARASITOIDE GENERALISTA Praon volucre (Haliday). HOST PLANT INFLUENCE ON DIFFERENT SUBSPECIES OF *Myzus persicae* (Sulzer) AND THE GENERALIST APHID PARASITOID *Praon volucre* (Haliday)

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ABSTRACT

The green peach aphid *Myzus persicae* (Sulzer) is a polyphagous pest with different host ranges. *Myzus persicae sensu stricto* is a very polyphagous aphid, while *Myzus persicae nicotianae* is a subspecies more specialised on tobacco. In this work we evaluated the effect of two crops, pepper and tobacco, on the intrinsic rate of natural increase (*rm*) of both subspecies of *M. persicae*.

Similarly, we evaluated the effect of host plants, pepper and tobacco, on the development time, secondary sex ratio and adult dry weight of the generalist parasitoid *Praon volucre* (Haliday), which is the main natural enemy of this aphid species. The pepper was a suitable host for the development of both races of *M. persicae*, while tobacco did not allow the development of *M*.

persicae sensu stricto. However, the *rm* of *M. persicae nicotianae*, on tobacco, was significantly lower than the *rm* of both races, when developed on pepper. The total development time of the parasitoid males developed on *M. persicae sensu stricto* - pepper was significantly higher than when they were grown on *M. persicae nicotianae* either on pepper or tobacco. Egg to mummy and mummy to adult development time, adult dry mass, pupal survival, as well as secondary sex ratio, did not show significant differences between host plants for both parasitoid sexes. Our results support that there are no main tritrophic interactions in this study system and the parasitoid reacts neutrally to the host plant species or aphid subspecies studied.

Key-words: Myzus persicae, Praon volucre, tobacco, pepper, tritrophic effects.