



# **INTEGRATED MANAGEMENT OF CERTAIN CABBAGE PESTS**

**By**

**Rasha Mohamad Ghidan Abdellatif**

**B.Sc. Agric. Sci., Fac. Agric., Cairo Univ., Fayoum branch, 2002**

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## ABSTRACT

### **Integrated management of certain cabbage pests**

The present work was carried out at experimental Farm, Fac. of Agric., Fayoum Univ. in four successive plantations during 2014/15 and 2015/16 seasons on cabbage. The sabeny variety was cultivated in the summer plantation and the japanese variety was cultivated in the winter plantation.

Survey demonstrated that seven insect pest species belong to seven families and three orders were recorded. *Brevicoryne brassicae* L. and *Thrips tabaci* Lindeman were the most dominant followed by *Bemisia tabaci* Gennadius, while *P. rapae* recorded the lowest density. The predominant predators were *Episyrphus balteatus* Deg and the lady beetles, *Coccinella undecimpunctata* L. Also, three parasitoid species belong to order Hymenoptera were recorded. The most parasitoid abundant was *Diaeretiella rapae* M'Intosh associated with aphids.

Effect of intercropping varieties (sabeny and japanese cabbage) infestation with important insect pests on the two cultivars intercropped in radish and eruca were studied. The combinations of the experiment included six objects: Sabeny cabbage only; Sabeny cabbage intercropping with radish; Sabeny cabbage intercropping with eruca; japanese cabbage only; japanese cabbage intercropping with radish and japanese cabbage intercropping with eruca. During the period from 1<sup>st</sup> Jun to 8<sup>th</sup> Sep.

The efficiency of some insecticides ( Chlorpyrifos 48% EC, Match 50% EC and Speedo 5.7% WDG), Soap 0.5% and Biofly at field concentration were evaluated on cabbage aphid and thrips through out the period from the end of Nov. to mid of Dec. The results observed that high effect on aphids and thrips populations that treated by all used materials ,excpt Biofly which appeared limitable effect.

Key words: cabbage, cabbage pests, population dynamics, natural enemies, intercropping, control, insecticides and biofly.

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