

## **DISTRIBUTION OF THE PARASITOID, *COMPERIELLA LIMINISTACA* (HYMENOPTERA: ENCYRTIDAE) IN EGYPT WITH EMPHASIS ON THE EGYPTIAN OASES**

**SHAABAN ABD-RABOU AND MONA MOSTAFA**

*Plant Protection Research Institute, ARC, Dokki, Giza*

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### **Abstract**

The encyrtid parasitoid, *Comperiella lemniscata* Compere and Annecke (Hymenoptera: Encyrtidae) which attacks armored scale insects. Samples were collected from different locations in Egypt as well as the Egyptian Oases. Results indicated that the parasitoid, *C. lemniscata* is recorded in 6 localities of 5 governorates in Egypt. The present work also dealt with the distribution of this species in the Egyptian Oases, results recorded the parasitoid in 7 localities of 4 oases. Maps of the distribution of aforementioned parasitoid were provided.

### **INTRODUCTION**

The encyrtid parasitoid, *Comperiella lemniscata* Compere and Annecke (Hymenoptera: Encyrtidae) was recorded in Egypt for the first time in Egypt associated with the armored scale insect, *Aonidiella aurantii* (Maskell) (Homoptera: Diaspididae) in Giza by Abd-Rabou and Attia. 2006. The parasitoid, *C. lemniscata* recorded as a parasitoid of armored scale insects (Garonna & Viggiani, 1993, Noyes and Hayat, 1994, Prinsloo, 1996, Abd-Rabou, 2006 and Abd-Rabou and Attia. 2006.

Armored scale insects are considered as serious pests on different orchards and ornamental plants in Egypt (Abd-Rabou, 1997). The main injury caused by these pests are the ingestion of plant sap. Their damage is manifested in reducing the number of healthy plant. Severely infested plants grow poorly and may drop leaves prematurely and suffer dieback of twigs and branches (Abd-Rabou, 1999a and b).

The present work deals with the distribution of *C. lemniscata* in Egypt.

### **MATERIALS AND METHODS**

Collected leaves heavily infested by armored scale insects in different locations in Egypt specially in the Egyptian Oases were transferred to the laboratory for parasitoids emergence and identification. Identification of the parasitoid followed mounting the specimens through the method of Noyes (1982). Maps adopted from [www.egyptmyway.com/contactforms.html](http://www.egyptmyway.com/contactforms.html) (2008).

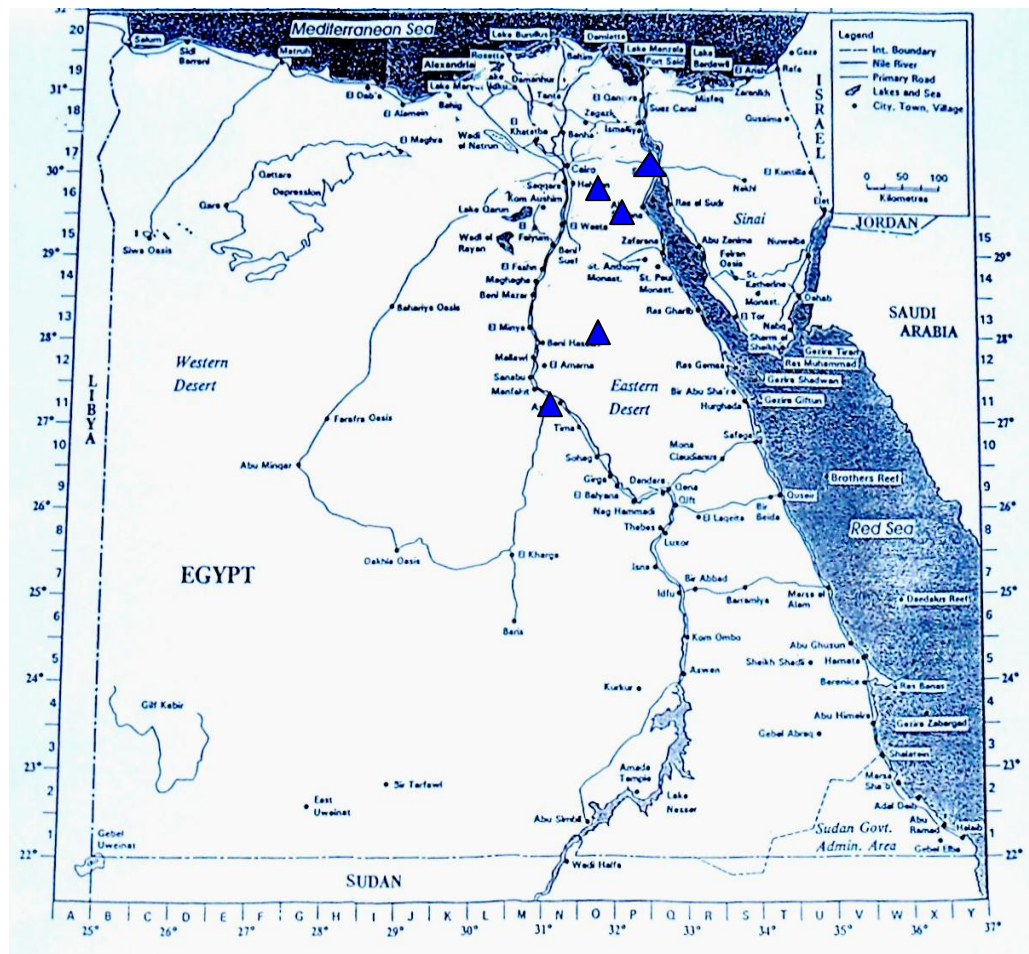
## RESULTS AND DISCUSSION

### 1. Distribution of *Comperiella lemniscata* in Egypt except oases .

As shown in Table (1) and Map (1) *C. lemniscata* is recorded in 6 localities of 5 governorates in Egypt.

Table 1. Distribution of *Comperiella lemniscata* in Egypt.

Distribution		Date of Collection
Governorate	Locations	
Asyut	El-Badari	Sep., 2008
Beni-Suif	El-Wasta	Oct.2008
Cairo	Helwan	Sep., 2008
El-Minia	Mallawi	Sep., 2007
Giza	El-Aiyat	Agu., 2008
	El-Saff	July, 2007



Map 1 . Distribution of the parasitoid, *Comperiella lemniscata* in different localities in Egypt.

## 2. Distribution of *Comperiella lemniscata* in Egyptian oases .

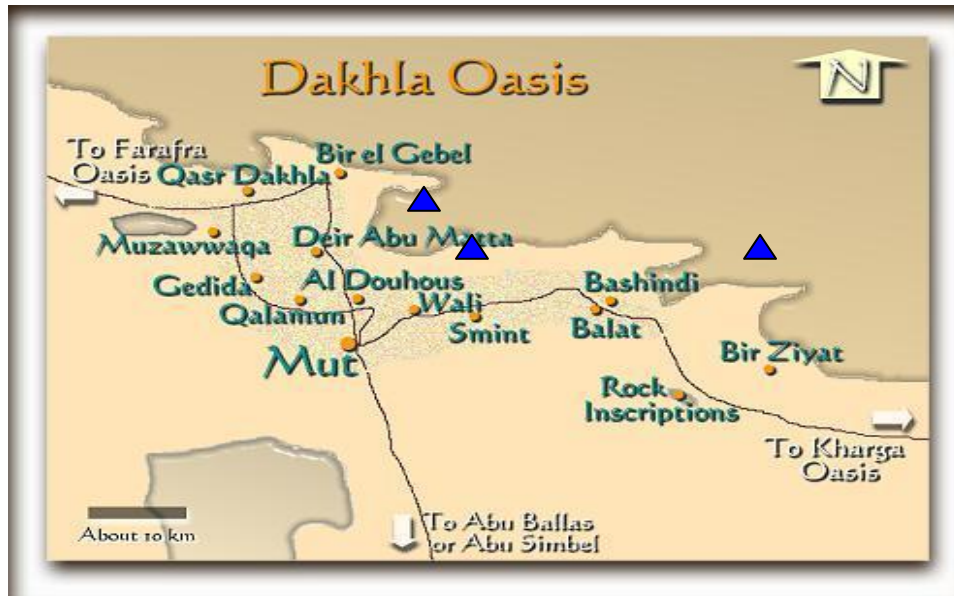
As shown in Table (2) and Maps (2, 3, 4, 5) *C. lemniscata* is recorded in 7 localities of 4 oases in Egyptian oases .

Table 2. Distribution of *Comperiella lemniscata* in Egyptian oases.

Distribution		Date of Collection
Oasis	Locations	
Baharia	Bawiti	July, 2008
Dakhla	Bir Ziyat	Oct. 2008
	Gedida	Oct. 2008
	Mut	Oct. 2008
Farafra	Bir Sitta	Sept.2008
Kharga	Qasr	Oct. 2008
	Baris	Oct. 2008



Map 2. Distribution of the parasitoid, *Comperiella lemniscata* in Baharia Oasis



Map 3 . Distribution of the parasitoid, *Comperiella lemniscata* in Dakhla Oasis



Map 4 Distribution of the parasitoid, *Comperiella lemniscata* in Farafra Oasis



Map 5 . Distribution of the parasitoid, *Comperiella lemniscata* in Kharga Oasis

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## التوزيع الجغرافي لطفيل الكومبيريل ليمينيستاكا في مصر مع التركيز على تواجده في مناطق الواحات المصرية

شعبان عبد ربه و منى مصطفى

معهد بحوث وقاية النباتات - مركز البحوث الزراعية - الدقي - جيزة-

يعد طفيل الكومبيريل ليمينيستاكا من الطفيليات المهمة في مكافحة الحشرات القشرية المسلحة. يتضمن هذا العمل تجميع عينات من هذا الطفيل من محافظات مصر بالإضافة الى واحات مصر المختلفة. وقد أظهرت النتائج أن هذا الطفيل قد سجل في 6 أماكن مختلفة في 5 محافظات. و قد تضمن هذا العمل أيضا توزيع هذا الطفيل في واحات مصر المختلفة. وقد أشارت النتائج الى وجود هذا الطفيل في 7 أماكن في 4 واحات من واحات مصر. تضمن البحث أيضا خرائط للتوزيع الجغرافي لهذا الطفيل في محافظات وواحات مصر المختلفة