

DESCRIPTION OF THREE NEW SPECIES OF THE GENUS
ANTHRENUS GEOFFORY (COLOEOPTERA, DERMESTIDAE) FROM
IRAQ*

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ABSTRACT

The present work represents description of three new species of genus *Anthrenus* Geoffroy from Iraq, these are : *A. aradensis* sp. nov., *A. fabrici* sp. nov. and *A. unicolor* sp. nov. Locality, host plants and date of collection were given.

INTRODUCTION

Anthrenus Geoffroy is one of the largest and most important genus in the family Dermestidae, some species caused damage in dried animals and insect specimens, which kept in museum. Several works have been done on the species of this genus in different part of the world such as Hinton (1945), Marcoskowski (1966) and Zantive (1976).

***Anthrenus aradensis* sp. nov.**

Adult: Length 1.6-2.4 mm; Breadth 0.9-1.5 mm; Head with milky scales, compound eyes with inner margin not emarginated (fig. 1a) , Antenna with nine segments, antennal club consist of three segments, second club segment in both male and female (fig. 1b,c) distinctly longer than the first one, Labrum(fig.1d) with straighted posterior margin. Pronotum with oval whitish subtriangular and oval scales (fig. 1e) , antennal cavity (fig. 1f) oval shaped, elytra narrow with milky scales, fore tibia (fig. 1g) with 12-13 spines. Abdominal sternites without femoral lines (fig. 1h) , paramers longer than aedeagus, aedeagal apodemes short and not extending out of the phallobase, phallobase subtriangular shaped, bridge joining parameres strongly incurved (fig.1 i).

Anthrenus aradensis sp. nov. is closely related to *A. flavipes* Lecont but differs from it by the following characters: compound eyes with inner margin straight(not emarginated); paramers distinctly longer than the aedeagus.

Host: From the flowers of *Euphorbia* sp. (Euphorbiaceae).

Material examined: 1♂(Holotype), 1♀ (allotype), 10♂, 4♀ (paratype), Dohok, Iraq. Coll. 4.7.1983 (Leg. N. A. Mawlood).

The types were deposited in Iraq Natural History Museum.

***Anthrenus fabrici* sp. nov.**

Adult:Length 1.9-2.3 mm, breadth 1.4-1.7 mm, Head with whitish scales and with small spot of brown sales on its apical part, compound eyes with inner margin emarginated (fig. 2a), Antenna with 11 segments, antennal club consist of three segments, second club segment in both male and female slightly longer than first one (fig. 2b,c), Labrum (fig. 2d) with posterior margin slightly emarginated (fig. 2d). Pronotum with oval whitish scales and with both male and female slightly longer than first one (fig. 2b,c), Labrum (fig. 2d) with posterior margin slightly emarginated (fig. 2d). Pronotum with oval whitish scales and with

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longitudinal spots of brown scales, (fig. 2e), antennal cavity circular shape (fig. 2f), fore tibia (fig. 2g) with 4-5 spines. Abdominal sternites with femoral lines (fig. 2h), parameres broad and slightly longer than aedeagus, aedeagal apodemes long and extending out of phallobase, phallobase circular shaped, bridge connecting parameres moderately incurved (fig. 2i).

Anthrenus fabrici sp. nov. is closely related to *A. flavipes* Lecont but differ from it by the following characters: Pronotum with whitish scales and with longitudinal spots of brown scales, parameres broad and slightly longer than aedeagus.

Host: *Ammi majus* L. (Umbelliferae).

Material examined: 1♂ (Holotype), 1♀ (Allotype), 4♂ (paratype), Baghdad, Iraq. Coll. 14.8.1984. (leg N. M. Mawlood).

The types were deposited in Iraq Natural History Museum.

Anthrenus unicolor sp. nov.

Adult: length 2.9-2.2 mm, breadth 1.6-2.0 mm, Head with milky scales, compound eyes with inner margin straightened (not emarginated)(fig. 3a), antenna with 11 segments, antennal club consist of three segments, second antennal club in male about 1.5 time as long as first one (fig. 3b), second antennal club in female slightly longer than the first one (fig. 3c), labrum (fig. 3d) with straightened posterior margin. Pronotum with subtriangular milky scales (fig. 3e), antennal cavity oval shaped (fig. 3f), elytra moderately wide covered with milky scales, fore tibia with 8-9 spines (fig. 3g), abdominal sternites with femoral lines, parameres very narrow, and slightly longer than aedeagus, aedeagal apodemes long and extending out of phallobase, phallobase nearly circular shaped, bridge connecting parameres feebly incurved (Fig. 3h).

Anthrenus unicolor sp. nov. is closely related to *A. flavipes* Lecomt but differ from it by the following characters:-

Dorsal surface of body covered with milky subtriangular scales, compound eyes with inner margin straight (not emarginated), parameres very narrow, bridge connecting parameres feebly incurved.

Host: *Euphorbia* sp. (Euphorbiaeace).

Material examined: 1♂ (Holotype), 1♀ (Allotype), 10♂ (Paratypes).

Dohok, Iraq.

Coll, 4/7/1983, (Leg N. A. Mawlood).

The types were deposited in Iraq Natural History Museum.

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سنة جن مة يجمع ونا تملا نفسه و *Anthrenus Geofforg* (ة يلمغ
الاجنحة، عائلة درمستدي) من العراق*

نبيل عبد القادر مولود** محمد صالح عبد الرسول***
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الخلاصة

سنة جن-مد... باو- نة لافصو . جالنه لثيم *Anthrenus*
Geofforg يه قلع ل ن م: *A. aradensis.*, *A. fabrici* and *A.*
unicolor . قطت اتا هول عك . جالما بك الج لئلا . قيصضات . ب الخ...م
ع حلا .

New species of *Anthrenus*

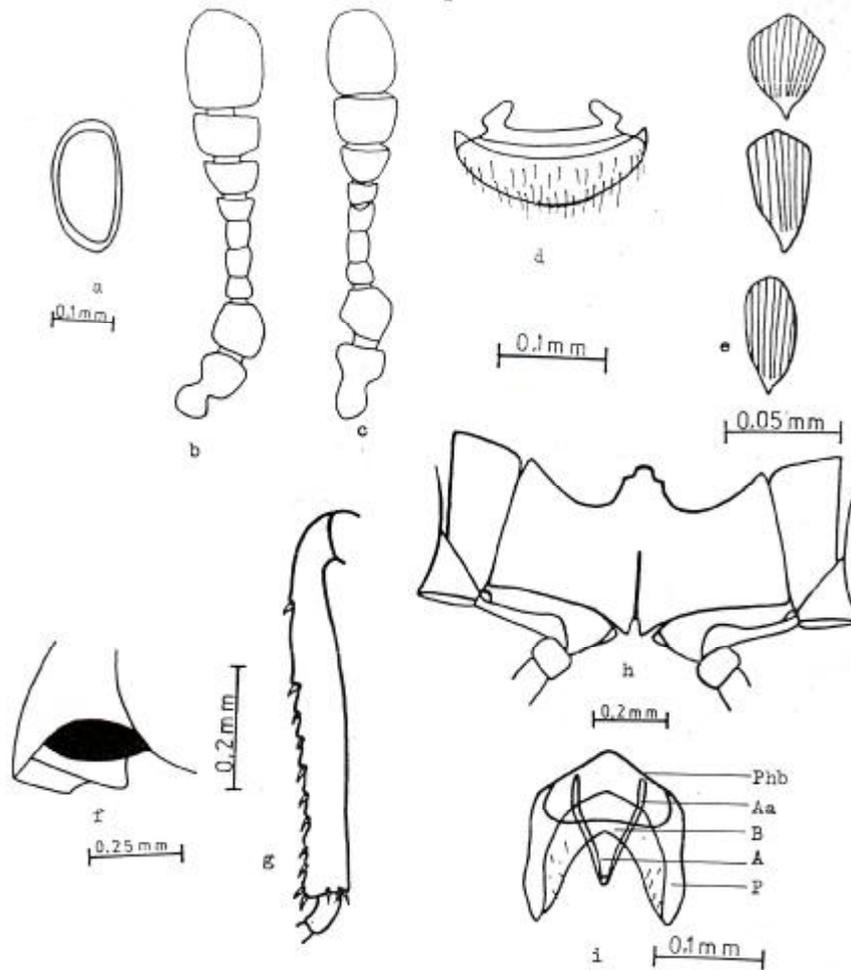


Fig. 1 *Anthrenus aradensis* sp. nov.

- a. Compound eye b. Male antenna c. Female antenna
 d. Labrum e. Scales f. Antennal cavity g. Fore tibia
 h. First abdominal sternite i. Male genitalia
 A=Aedeagus, Aa=Acadagal apodeme, B=Bridge, P=Paramer
 Ph=Phallobase

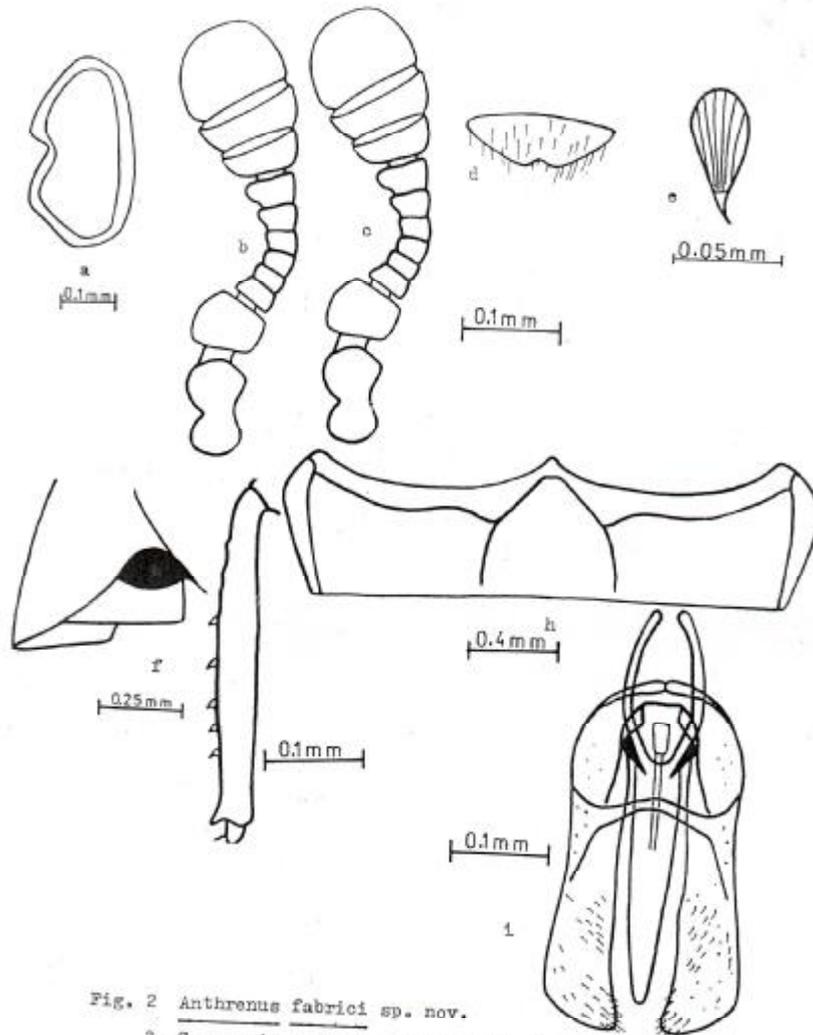


Fig. 2 *Anthrenus fabrici* sp. nov.
 a. Compound eye b. Male antenna c. Female antenna
 d. Labrum e. Scale f. Antenno-cubital cavity g. Pore on tibia
 h. First abdominal sternite i. Male genitalia

New species of *Anthrenus*

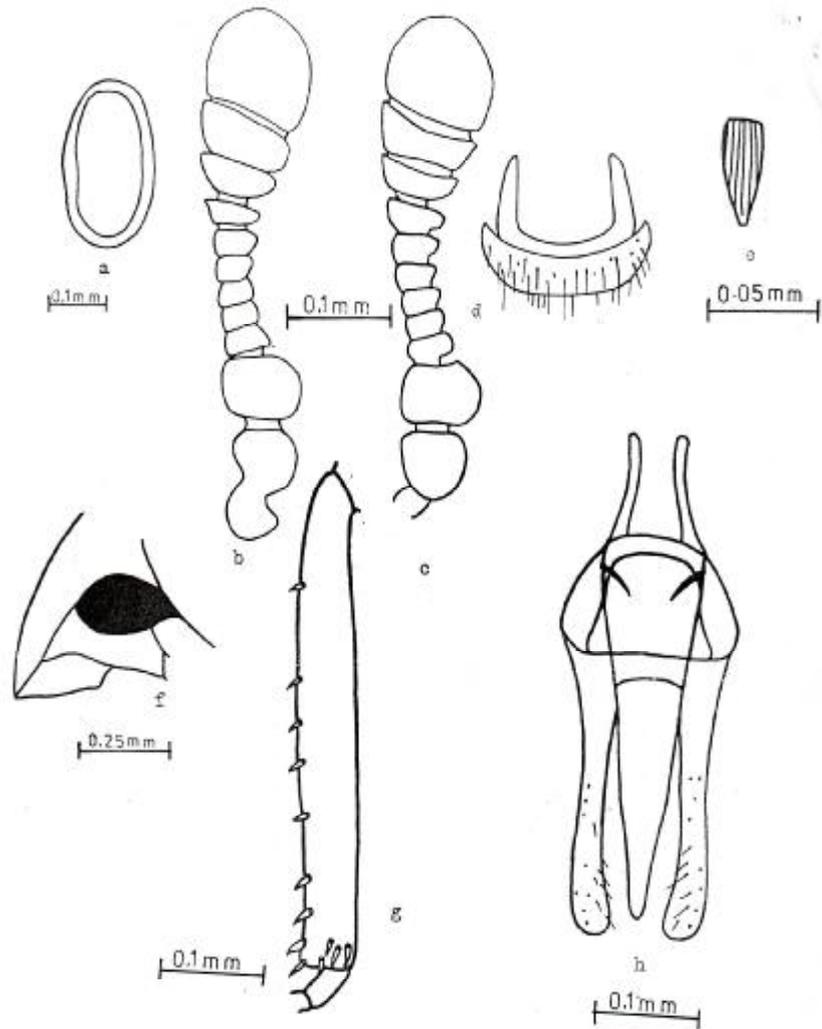


Fig. 3 *Anthrenus unicolor* sp. nov.

- a. Compound eye
- b. Male antenna
- c. Female antenna
- d. Labrum
- e. Scale
- f. Antennifer
- g. Pore tibia
- h. Male genitalia