



# THE FIRST TWO RECORDS OF *TRACHYDERMA* SPECIES FROM SEMNAN PROVINCE, IRAN

Dewanand Makhan

Willem Bilderdijkhove 19, 3438 PM Nieuwegein, Netherlands

## ARTICLE INFORMATION

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### Author's contribution

D. M the principal author and his entire work have been done by him.

### Key words:

Tenebrionidae, Pimeliinae, *Trachyderma*, new records, Iran.

## ABSTRACT

The first records of *Trachyderma hispidum* (Forskål, 1775) and *Trachyderma philistinum* Reiche & Saulcy, 1857 from Semnan Province, Iran (Tenebrionidae: Pimeliinae, *Trachyderma*) is presented here. The two *Trachyderma* Latreille, 1829 species were collected for the first time in Iran and is presented here. The specimens are deposited in the author's collection.

## 1. INTRODUCTION

From the genus *Trachyderma* Latreille, 1829, *Trachyderma lima* (Petagna 1819) was the only one from Fars province: Darab in Iran Ghahari & Bunalski, [1]. During 2011, 2012 collecting-trips to Province Semnan, Iran, I discovered *Trachyderma ispidum* (Forskål, 1775) and *Trachyderma philistinum* Reiche & Saulcy, 1857. Which represents the first records of the species from Province Semnan, Iran The specimens were collected by hand picking. Many authors carried work on this genus i-e Bouchard et al., [2]. Bunalski and Ghahari [3]. Bunalski et al., [4]., doyen et al., [5]. The present finding has been recorded for first time.

## 2. MATERIALS AND METHODS

### 2.1. Study Area and collection

The specimens were collected from Iran, Semnan province, Semnan, Semnan airport. Insect were capture by hand picking and deposit in the author own collection box.

### 2.2. Labeling

Labeling of the collected specimens was done properly with date of collection, locality, type of insect and name of the crop from which they were collected, mentioned accurately.

### 2.3. Identification

The specimens were identified with the help of available literature.

## 3. RESULTS

### *Trachyderma hispidum* (Forskål, 1775)

Synonyms

*Ocnera hispida* (Forskål, 1775)

*Tenebrio hispidus* Forskål, 1775

A new record: Iran, Semnan province, Semnan, Semnan airport, 18.6.2011, coll. D. Makhan 7 specimens.

**Comments:** It is elongated species, *Trachyderma hispidum* (Forskål, 1775) projection between the forelegs with long setae with elytra with small tubercles.

**Distribution:** North Africa and Egypt.

### *Trachyderma philistinum* Reiche & Saulcy, 1857 (Fig. 2)

**Two new records:**

Iran, Semnan Province, Damghan, Mehmandust, 3.7.2012, coll. D. Makhan.1 specimen. Iran, Semnan Province, Semnan, Semnan airport, 18.6.2011, coll. D. Makhan.7 specimens

**Comments:** Is a oval species. *Trachyderma philistinum* Reiche & Saulcy, 1857, projection between the forelegs

with short setae. The elytra with large tubercles on lateral side and with small tubercles on the dorsal side.

(Coleoptera),” *Systematic Entomology*, vol. 4: pp. 333-377, 1979.

**Distribution:** Cyprus, Greece, Israel, Jordan, Syria, Turkey and United Arab Emirates.



**Fig. 1.** *Trachyderma hispidum* (Forskål, 1775) female,

#### **Measurement**

Dorsal view total length = 2.9 cm.

#### **REFERENCES**

- [1] H. Ghahari, M. Bunalski, “A study on darkling beetles (Coleoptera: Tenebrionidae) from south and southeastern Iran,” *Linzer Biologischer Beitrage*, vol. 43(2): pp. 1285-1290, 2011.
- [2] P. Bouchard, J.F. Lawrence, A.E. Davies, A.F. Newton, “Synoptic classification of the world Tenebrionidae (Insecta: Coleoptera) with a review of family-group names” *Annales Zoologici*, vol. 55: pp. 499-530, 2005.
- [3] M. Bunalski, Ghahari, “Contribution to the study of darkling beetles (Coleoptera: Tenebrionidae) from Golestan Province, Northern Iran,” *Wiadomości Entomologiczne*, vol. 36(1): pp. 25-31, 2017.
- [4] M. Bunalski, N. Samin, H. Ghahari, “Contributions to the knowledge on the darkling beetles (Coleoptera: Tenebrionidae) of Khorasan and Semnan Province, Iran,” *Wiadomości Entomologiczne*, vol. 33(3): pp. 188-193, 2014.
- [5] J.T. Doyen, J.F. Lawrence, “Relationships and higher classification of some Tenebrionidae and Zopheridae