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# A new Dermestidae species (Coleoptera: Bostrichoidea) from central Iran

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- ZooBank: <http://zoobank.org/71D662DB-2F3D-4418-98B6-E1DF82895AC5>

## Keywords:

Coleoptera; new species;  
Dermestidae; description;  
Attageninae; *Attagenus*;  
Megatominae; *Phradonoma*;  
taxonomy; Iran.

**Abstract.** – A new species, *Phradonoma isatis* sp. nov., from Iran: Yazd Province is described, illustrated and compared with a similar Iranian species from the « *Phradonoma nobile* species group ».

Háva J., 2022. – A new Dermestidae species (Coleoptera: Bostrichoidea) from central Iran. *Faunitaxys*, 10(15) : 1 – 3.

ZooBank: <http://zoobank.org/E78C8E30-EC9B-45E9-BB4B-E644194E73A4>

## Introduction

The family Dermestidae (Coleoptera) currently includes approximately 1750 species and subspecies worldwide (Háva 2022), Iranian Dermestidae summarized in a catalogue by Ghahari & Háva (2017). In the present article, a new species belonging to the genus *Phradonoma* Jacquelin du Val, 1859 is described and five species are recorded from the Yazd Province. The Dermestidae from locality mentioned is poorly known; new records from the locality concerning other Coleoptera families were published by Khormizi et al. (2016a,b).

## Material and methods

– The size of the beetles or of their body parts can be useful in species recognition and thus, the following measurements were made:

**TL total length:** linear distance from anterior margin of pronotum to apex of elytra.

**EW elytral width:** maximum linear transverse distance.

– The following collection acronyms are used:

**JHAC:** Private Entomological Laboratory & Collection, Jiří Háva, Uněťice u Prahy, Prague-West, Czech Republic;

**JVPC:** Jaroslav Větrovec, private collection, Hradec Králové, Czech Republic.

– All the colour photographs were taken by a Nikon Coolpix 990 digital camera through an MBS-10 binocular stereo microscope and 3D Microscope with Full HD Camera.

– Specimens of the presently described species are provided with red, printed labels with the text as follows:

« HOLOTYPE [or PARATYPE, respectively] *Phradonoma isatis* sp. nov. Jiří Háva det. 2022 ».

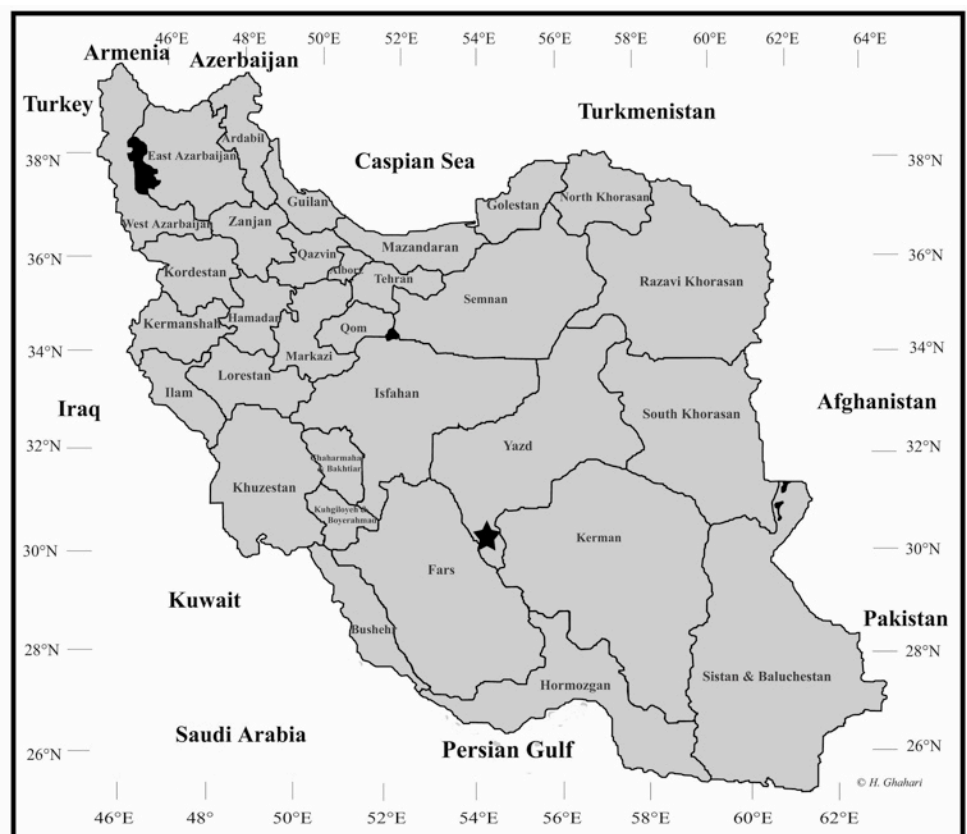
## Results

### Subfamily Attageninae

#### *Attagenus (Attagenus) brunneus* Faldermann, 1835

**Material examined:** « Iran central, [Yazd Prov.], Khatam [County], Bagheshadi Jungle, 29°48'27" N 54°09'18" E, 28.6.2013, Mehdi Zare Khormizi leg. », 1 ♀, J. Háva det. (JVPC).

**Distribution.** – A holarctic species, from Iran cited by Ghahari & Háva (2017), first published data from Yazd Province.



**Map 1.** Map of Iran. Asterisk indicates type locality in Iran, Yazd Province.

*Attagenus (Attagenus) unicolor unicolor* (Brahm, 1790)

**Material examined:** « Iran central, [Yazd Prov.], Khatam [County], Bagheshadi Jungle, 29°48'27''N 54°09'18''E, 28.6.2013, Mehdi Zare Khormizi leg. », 1 ♀, J. Háva det. (JVPC).

**Distribution.** – A cosmopolitan species, from Iran cited by Ghahari & Háva (2017), first published data from the Yazd Province.

## Subfamily Megatominae

Genus *Phradonoma* Jacquelin du Val, 1859

The genus *Phradonoma* Jacquelin du Val, 1859 currently includes 48 species worldwide (Háva 2022), 10 species are known from Iran (Ghahari & Háva 2017)

*Phradonoma muehle* Herrmann & Háva, 2008

**Material examined:** « Iran central, [Yazd Prov.], Khatam [County], Bagheshadi Jungle, 29°48'27''N 54°09'18''E, 28.6.2013, Mehdi Zare Khormizi leg. », 1 ♂, J. Háva det. (JVPC).

**Distribution.** – The species was described from Iran: Yazd Province.

*Phradonoma nobile* (Reitter, 1881)

**Material examined:** « Iran central, [Yazd Prov.], Khatam [County], Bagheshadi Jungle, 29°48'27''N 54°09'18''E, 28.6.2013, Mehdi Zare Khormizi leg. », 1 ♀, J. Háva det. (JVPC).

**Distribution.** – A cosmopolitan species, from Iran cited by Ghahari & Háva (2017).

*Phradonoma pseudoamoenum* Herrmann & Háva, 2008

**Material examined:** « Iran central, [Yazd Prov.], Khatam [County], Bagheshadi Jungle, 29°48'27''N 54°09'18''E, 28.6.2013, Mehdi Zare Khormizi leg. », 1 ♂, J. Háva det. (JVPC).

**Distribution.** – The species was described from Iran: Markazi Province, new for Yazd Province.

*Phradonoma isatis* sp. nov.

(Fig. 3-5)

ZooBank: <http://zoobank.org/08B70627-8AF3-47A9-BB8A-157E51DAD73A>

**Holotype**, ♂: « Iran central, [Yazd Prov.], Khatam [County], Bagheshadi Jungle, 29°48'27''N 54°09'18''E, 28.6.2013, Mehdi Zare Khormizi leg. » (JHAC).

*Description of holotype.*

Male. Body black, oval (Fig. 3).

**Measurements** (mm). – TL 2.0 EW 1.3.

**Head.** – Coarsely punctate, with long more or less decumbent light brown setae, maxillary palpi darkish brown. – **Eyes** large with microsetae. – **Antennae** with 11 antennomeres, with 4-antennomered club. The antennomeres I-X is brown, antennomere XI darkish brown (Fig. 4). – Forehead with ocellus.

**Pronotum.** – Entirely black, shiny, sparsely and not very coarsely punctate, with strong dark and slightly erect brown setae. Lateral margins not visible from above.

**Scutellum.** – Small, black, triangular, without setation or punctures.

**Elytra.** – Black with very narrow, brown apical part, sparsely covered by slightly erect brown, yellow and white setation (most of the setation is abraded).

**Underside.** – Coarsely and (especially the visible ventrites) more densely punctate than elytra and pronotum, covered with straight and procumbent brown setae.

**Legs.** – **Tibiae** and **tarsi** brown. – **Femora** anteriorly darkened and sparsely covered with fine brown hairs. – **Anterior tibia** with spines along shaft.

**Male genitalia.** – As in Fig. 5.

**Female.** – Unknown.

**Differential diagnosis.** – The new species belongs to the *P. nobile* species group. From similar Iranian species, it differs by the characters presented in the key below.

**Etymology.** – The specific epithet *isatis* is a noun in apposition, and refers to the historic name of Yazd, the type locality of the species.



Fig. 1-2. Locality of Bagheshadi Jungle in Yazd Province, Khatam County (photo by Mehdi Zare Khormizi).

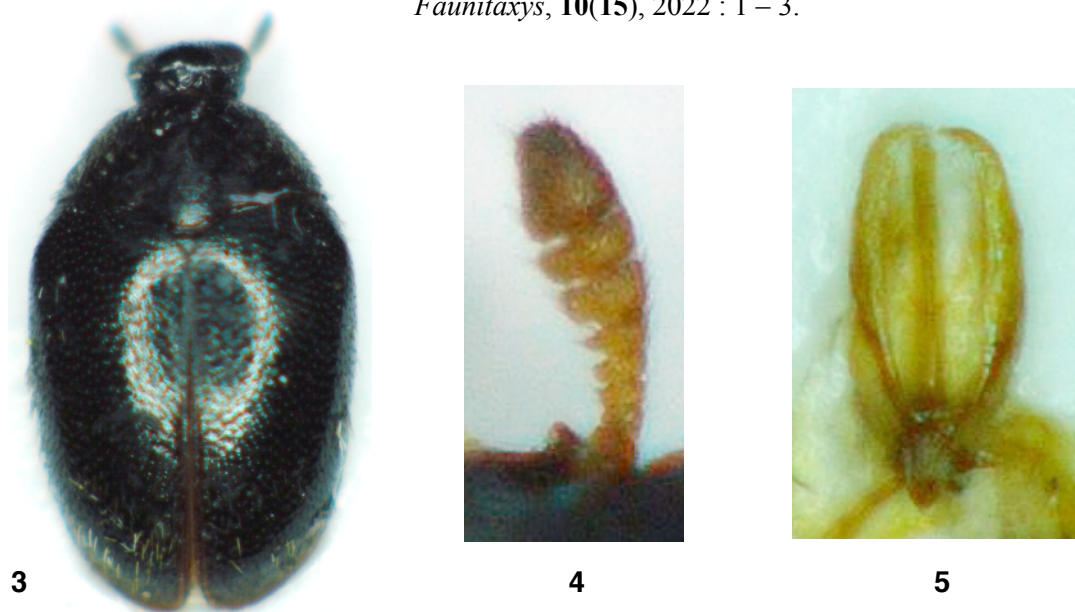


Fig. 3-5. *Phradonoma isatis* sp. nov.: 3. Habitus, dorsal. 4. Antenna. 5. Male genitalia.

### Key to Iranian species of *Phradonoma nobile* species group

- |    |  |   |
|----|--|---|
| 1. | Elytra with reddish or orange-reddish transverse bands and spots .....   | 4                                       |
| —  | Elytra without reddish transverse bands and spots .....  | 2                                       |
| 2. | Elytra brown with transverse narrow fasciae of white setation .....  | <i>P. pseudoamoenum</i> Herrmann & Háva |
| —  | Elytra black with apical part somewhat brightened to dark brown .....  | 3                                       |
| 3. | Antennal club black, 3-antennomered; apical part of elytra somewhat brightened to dark brown; body length 2.2 - 3.2 mm .....     | <i>P. muehlei</i> Herrmann & Háva       |
| —  | Antennal club dark brown, 4-antennomered; elytra with very narrow, brown apical part; body length 2.0 mm .....                   | <i>P. isatis</i> sp. nov.               |
| 4. | Terminal antennal segment triangular; elytra brownish-black except for three (sometimes only two) reddish transverse bands ..... | <i>P. nobile</i> (Reitter)              |
| —  | Terminal antennal segment oval; elytra black except for three reddish transverse bands and apex .....                            | <i>P. jelineki</i> (Háva)               |

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### Résumé

Háva J., 2022. – Un nouveau Dermestidae (Coleoptera: Bostrichoidea) d'Iran central. *Faunitaxys*, 10(15) : 1 – 3.

Une nouvelle espèce, *Phradonoma isatis* sp. nov., est décrite d'Iran, de la province d'Yazd. Elle est illustrée et comparée aux espèces iraniennes les plus proches du groupe « *Phradonoma nobile* ».

Mots-clés. – Coleoptera, Dermestidae, Attageninae, Megatominae, taxinomie, nouvelle espèce, description, *Attagenus*, *Phradonoma*, Iran.

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**Illustration de la couverture** : Locality of Bagheshadi Jungle in Yazd Province, Khatam County (photo by Mehdi Zare Khormizi).

Crédits photos:

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