

A NEW SPECIES OF *Hylemya* FROM WYOMING  
(DIPTERA: ANTHOMYIIDAE)

George C. Steyskal

*Abstract.*—The new species, *Hylemya (Delia) evansi*, is described from Teton County, Wyoming.

---

Specimens submitted for determination were collected by Howard E. Evans during behavioral studies on solitary wasps. An undescribed species was included and is described at this time to make its name available.

*Hylemya (Delia) evansi* Steyskal, new species  
Figs. 1-4

*Male.*—Very similar to *H. angustitarsis* Malloch, to which it will run in the keys of Hockett (1965, 1971) and Hennig (1966-1976). It is also similar to *H. antiqua* (Meigen), the alternate to *H. angustitarsis* in Hockett's (1971:191) key; but the male terminalia differ in more ways from *H. evansi* than do those of *H. angustitarsis*. *Hylemya tenuiventris* (Zetterstedt), the alternate to *H. angustitarsis* in Hennig's key (1966-1976:703), is also similar to *H. evansi*. Both *H. angustiventris* and *H. tenuiventris* have the 5th sternum of the male abdomen with narrower and more elongate lobes than those of *H. evansi*, and both also lack the 3 contiguous blunt apical setae on each lobe. *Hylemya gracilipes* Malloch and *H. curvipes* Malloch also bear considerable resemblance to *H. evansi*; but both of these species, among other differences, have only one, much longer, blunt apical seta on each 5th sternal lobe. The most diagnostic characters seem to be those of the 5th sternum, the curved hindfemur and the short anterodorsal setae on hindtibia.

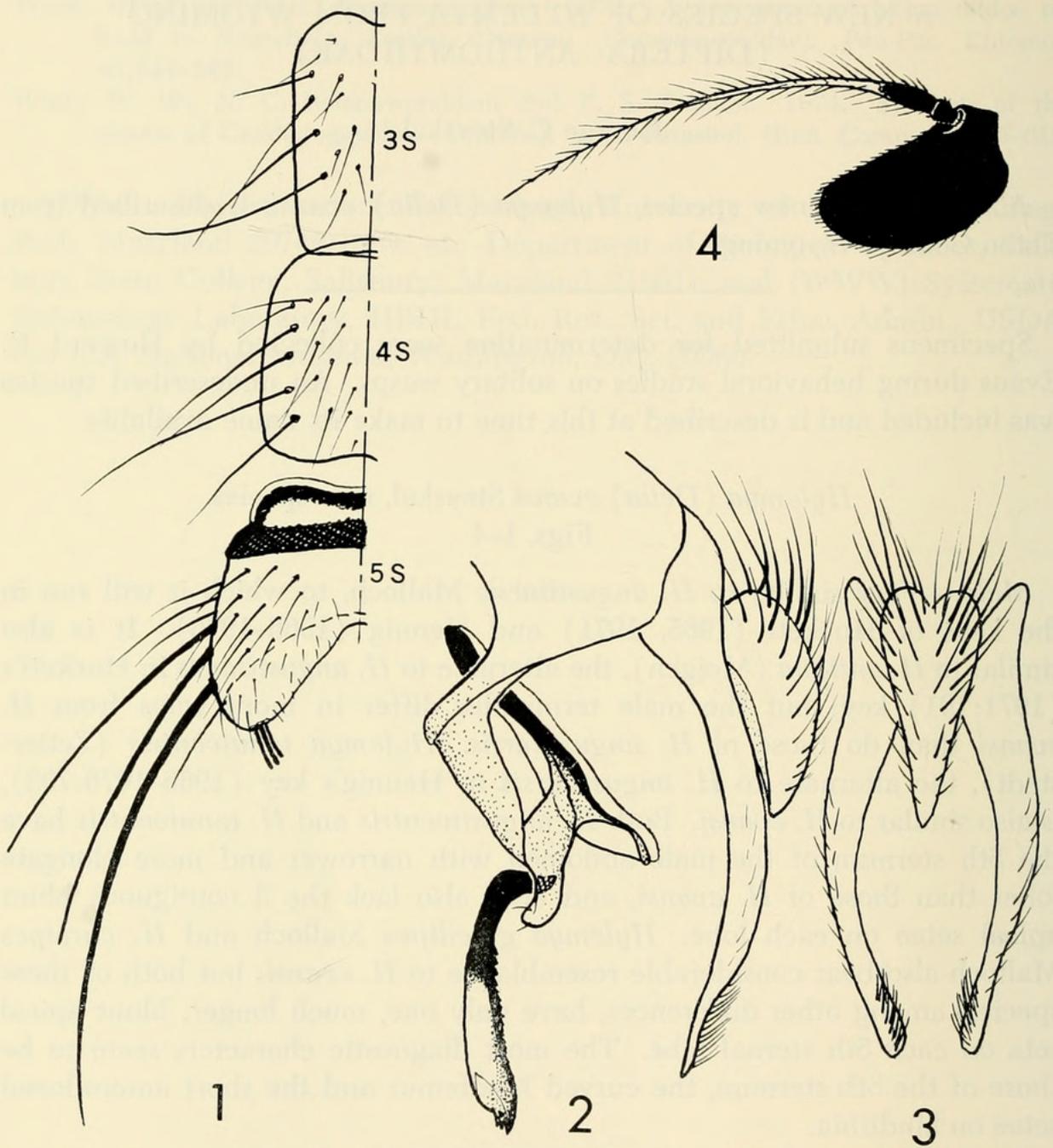
The following characters will distinguish *H. evansi* from its nearest relatives:

Antenna as in Fig. 4; 3rd segment with short pubescence,  $1.8\times$  as long as wide; arisal hairs  $2\times$  as long as basal diameter of arista.

Thorax dull, ochreous gray; notopleural area without fine setae; pre-alar seta present, shorter than posterior notopleural seta.

Wing 4.4 to 4.5 mm long; tinged with yellowish; setulae lacking on underside of costa beyond humeral crossvein.

Legs black, base of tibiae sometimes a little piceous; hindfemur bowed upward, lower margin concave in profile; tarsi simple. Forefemur with only minute setulae posteriorly besides macrochaetae; foretibia with blunt posteroventral apical seta hardly longer than apical tibial diameter. Mid-



Figs. 1-4. *Hylemya (Delia) evansi*, male. 1, Abdominal sterna 3 to 5, right half. 2, Postabdomen, left profile. 3, Terminalia, rear view. 4, Antenna.

femur with 3 or 4 posteroventral setae in basal  $\frac{1}{3}$ ; midtibia without distinct non-apical erect setae; midtarsus with neither elongate dorsal basitarsal setae nor elongate nor enlarged apical segmental setae. Hindfemur with 2 or 3 conspicuous ventral setae near apex and about 4 or 5 moderately long ventral setae basad of midlength; hindtibia without erect ventral setae, but with 4 or 5 anterodorsal setae not longer than tibial diameter and 3 posterodorsal setae, the subbasal one little more than  $\frac{1}{2}$  as long as the other 2.

Abdominal sterna 3 to 5 as in Fig. 1, sternum 3 slightly longer than sternum 4. Fifth sternum with short stout processes (lobes) bearing 3 closely adjacent, blunt-tipped, apical spinules; 3 long and a few short lateral setae; and no setae on mesal margin.

Postabdomen as in Figs. 2 and 3; mesolobus (fused cerci) from posterior view (Fig. 2) slightly concave laterally and nearly evenly tapering; surstyli well separated, bowed outwards, their depressed apices bearing backwardly extending fringe; distiphallus with strong posterior (ventral) spicules, most evident in profile in medial  $\frac{1}{3}$ , but present to apex, where a few are also lateral.

Female unknown.

Holotype and 5 paratypes, males, Wyoming: 14 mi E Moran Postoffice, Teton County (just E of Grand Teton National Park), 29 July 1977, notebook no. 2549 (H. E. Evans), USNM Type #75716 in United States National Museum of Natural History.

I am happy to name the species for my friend, the well-known hymenopterist Howard E. Evans; the epithet is a noun in the genitive case.

#### Literature Cited

- Hennig, W. 1966-1976. 63a. Anthomyiidae. In Lindner, E., Die Fliegen der palarktischen Region VII<sub>1</sub> (Lfg. 315, 262, 268, 271, 272, 276, 278, 280, 282, 283, 294, 295, 296, 297, 306, 307, 308, 314). I-LXXVIII, 1-974 pp., pls. I-XIX.
- Huckett, H. C. 1965. The Muscidae of Northern Canada, Alaska, and Greenland (Diptera). Mem. Entomol. Soc. Can. 42. 369 pp.
- . 1971. The Anthomyiidae of California exclusive of the subfamily Scatophaginae (Diptera). Bull. Calif. Ins. Surv. 12. (vi), 121 pp.

Systematic Entomology Laboratory, IIBIII, Fed. Res., Sci. and Educ. Admin., USDA, c/o U.S. National Museum, Washington, D.C. 20560.



Steyskal, George C. 1978. "New Species Of Hylemya From Wyoming (Diptera anthomyiidae)." *Proceedings of the Entomological Society of Washington* 80, 553–555.

**View This Item Online:** <https://www.biodiversitylibrary.org/item/55252>

**Permalink:** <https://www.biodiversitylibrary.org/partpdf/57865>

**Holding Institution**

Smithsonian Libraries and Archives

**Sponsored by**

Smithsonian

**Copyright & Reuse**

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: Entomological Society of Washington

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.