

A NEW SPECIES OF *BAETIS* FROM OREGON (Ephemeroptera: Baetidae)

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Baetis caurinus new species

Baetis sp. Allen and Edmunds. Proc. Utah Acad. Sci., Arts and Letters 33:86.

MALE IMAGO (in alcohol). Length: body 5-6 mm., wings 5-6 mm. Head (fig. 2) medium brown; antennae pale; ocelli ringed basally with black; lower portion of eyes black; turbinate portion of eyes orange on upper surface and pinkish orange on sides, stalks moderately long, pale and somewhat translucent; turbinate portion of eyes medium sized and elongate-oval from above. Thorax yellowish-brown; dorsum of apex of mesoscutellum pale, sides medium brown. Pleurae yellow-brown, with episterna medium brown. Sternum medium brown with pale areas between sclerites. Legs pale, forefemora with a narrow longitudinal faint purplish trachea running from base to apex. Wings hyaline; venation pale, translucent; base of C and Sc brown; stigmatic area clouded; stigmatic crossveins anastomosed. Hind wing (fig. 1) with well developed costal projection, three longitudinal veins and no intercalaries. Abdominal segments 1-6 hyaline, with faint narrow purplish transverse lines across the mesal half of the apical margins of the tergites; longitudinal tracheal trunks on lateral line, spiracles, and bases of main dorsal and ventral branches of trachea of segments 1-6 purplish; abdominal segments 7-10 opaque, light yellow-brown. Genital forceps of the *intercalaris*-type (fig. 3). Cerci pale, translucent.

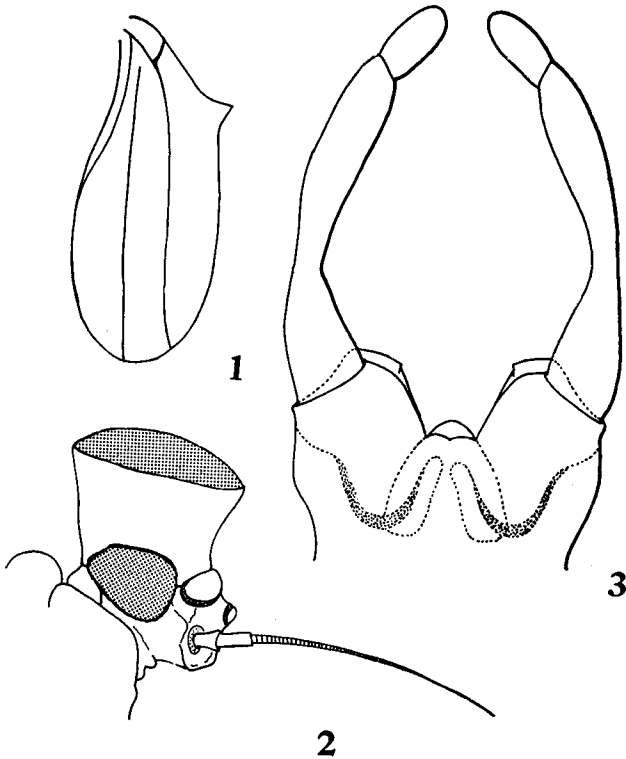
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Holotype: Male imago, Alsea River near Oregon State Highway 34, 10 miles west of Alsea, Lincoln County, Oregon, 25-VIII-54, G. F. Edmunds, Jr. and Richard K. Allen, in collection of the University of Utah. Paratopotypes: 46 male imagoes; 1 male each in collections of W. C. Day, California Academy of Sciences, J. R. Traver, and Canadian National Collection; 42 males in University of Utah collection.

TAXONOMY

Baetis caurinus is the seventh species of this genus with *intercalaris*-type genital forceps to be described from western North America. In Traver's key (1935. The biology of mayflies.), *Baetis caurinus* keys to *B. phoebus* McDunnough, an eastern species described from Ontario. *Baetis caurinus* may be distinguished from all other known species of this genus with *intercalaris*-type genital forceps by the coloration on the abdominal segments, in which abdominal segments 1-6 are hyaline, with narrow purplish lines near their apical margins, and purplish longitudinal tracheal trunks on the lateral line. The female imago and the nymph of this species are unknown.

The specimens were collected swarming over the highway near the Alsea River at dusk in a fine drizzle of rain. This locality is in the Coast Range at an elevation of approximately 200 feet.



EXPLANATION OF FIGURES

Figs. 1-3. *Baetis caurinus*, male imago, paratype. Fig. 1. hind wing. Fig. 2. lateral view of head. Fig. 3. ventral view of male genitalia.