

ORTHOTYLUS AESCULICOLA: A NEW PLANT BUG FROM MISSOURI (HETEROPTERA: MIRIDAE: ORTHOTYLINAE)

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Abstract.—*Orthotylus aesculicola* is described as new from Missouri. This mirid was found breeding on Ohio buckeye, *Aesculus glabra* Willd. (Hippocastanaceae). The adult male and genitalia of the male and female are illustrated.

The genus *Orthotylus* is a large group, with more than 100 species world-wide and 45 North American species listed in Carvalho's (1958) Catalog. Henry (1979) described 3 new species from the United States. In addition, a number of Palearctic species have been recognized for North America: *O. concolor* (Kirschbaum) from Massachusetts (Knight, 1922), *O. nassatus* (Fab.) from Pennsylvania (Henry, 1977), and *O. viridinervis* (Kirschbaum) from Ontario, Canada (Henry and Wheeler, 1979).

In this paper a new species of *Orthotylus* is described to provide a name to be used in a forthcoming paper on the life history of the plant bug fauna associated with *Aesculus glabra* Willd.

The following abbreviations are for institutions and collections cited in this paper: AMNH, American Museum of Natural History, New York; EMUM, Wilbur R. Enns Entomology Museum, University of Missouri-Columbia; RLB, Robert L. Blinn collection; TAM, Texas A&M University, College Station; USNM, U.S. National Museum of Natural History, Washington, D.C. All measurements are in millimeters.

***Orthotylus aesculicola*, new species**

Figs. 1-7

Diagnosis. The general black color, with contrasting yellowish green to pale green lateral margins of the pronotum and hemelytra, and the male parameres will separate *aesculicola* from all other North American *Orthotylus*.

Description. Holotype male: Length 4.90-5.10, width 1.30-1.40, generally black with lateral margins of pronotum and hemelytra yellowish orange to pale green, dorsum with recumbent pale setae.

Head: Length 0.38-0.43, width 0.76-0.80, vertex 0.35-0.38, shiny black with lora, gena, antennal fossae and narrow area bordering eyes yellowish orange. Rostrum: Length 1.15-1.33, attaining mesocoxae, pale green, apex darkened. Antennae: Black; I, length 0.44-0.50; II, 1.55-1.75; III, 0.85-0.93; IV, 0.49-0.58.

Pronotum: Length 0.63-0.68, humeral width 1.06-1.21, yellowish orange, posterior margins of calli (some paratypes with entire calli), area between calli and rays posterior of calli extending to basal margin black; propleura shiny black, ventral margin and xyphus pale green; mesoscutum black, lateral margins appearing paler; scutellum