

New Species of *Ephemerella* (*Ephemerella*) from Alberta
(Ephemeroptera: Ephemerellidae)¹

Richard K. Allen
California State University, Los Angeles 90032

A collection of *Ephemerella* by Bonnie Moffat, Freshwater Institute, Manitoba, Canada, from central Alberta includes nymphs of an undescribed species.

***Ephemerella moffatae*, new species**

Nymph. Length: body 9.0-10.0 mm; caudal filaments 5.5-6.5 mm. General color brown to dark brown. Head dark brown with irregular light brown markings; lateral margins pronotum pale; legs light brown with dark brown markings; femora light brown with basal and subapical dark brown transverse bands; tibiae light brown, dark brown apically; tarsi brown; tarsal claws with 9-10 denticles. Abdominal terga with paired submedian ridges segments 4-9, barely discernible tergum 4 (Fig. 1); terga dark brown; abdominal segment 2 without posterolateral projection, segment 3 with poorly developed projection (Fig. 1); abdominal sterna brown, sterna 1-8 with dark brown sublateral maculae. Caudal filaments brown.

Types. Holotype: mature nymph, Athabasca River, jct. Calling River (Station III), Alberta, Canada, 27-V-75, B. Moffat, in Canadian National Collection, Ottawa, Ontario. Paratypes: 3 nymphs, 1 collected 27-V-75 in collection California State University, Los Angeles, 2 collected 3-VI-75, in collection Freshwater Institute, Winnipeg, Manitoba, other data same as holotype.

This species is named in honor of Bonnie Moffat, collector of the type series.

The nymphs of *E. moffatae* are distinguished from all other western North American *Ephemerella* by paired dorsal abdominal ridges on segments 4-9 (Fig. 1).

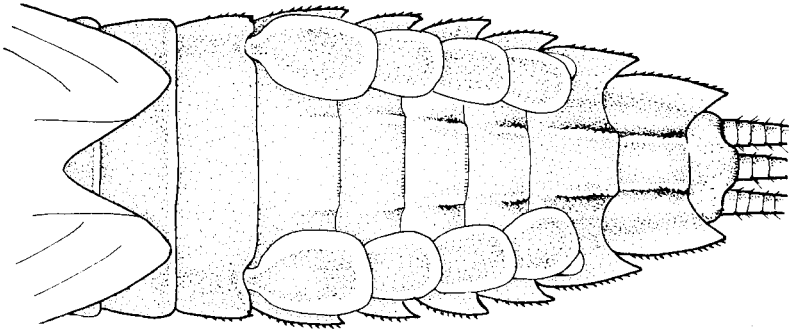


Fig. 1. *Ephemerella moffatae*, abdomen, dorsal view.

¹The research on which this report is based was supported by National Science Foundation Grant No. BMS 75-17661.