

NOTE

A New Synonym of *Caudatella hystrix* (Traver)  
(Ephemeroptera: Ephemerellidae)

*Caudatella* Edmunds (Ephemeroptera: Ephemerellidae) was described as a Nearctic subgenus of *Ephemerella* Walsh (Edmunds 1959) for species included in McDunnough's (1935) *heterocaudata* species group. Allen (1980) later raised *Caudatella* to generic status. Allen and Edmunds (1961) constructed a *Caudatella* species key, in which specimens with well-defined ventral color patterns would "key with ease"; however, specimens with less distinct ventral markings would "key through a more difficult series of couplets."

Allen and Edmunds (1961) differentiated *C. cascadia* (Allen and Edmunds) and *C. hystrix* (Traver) (two species with overlapping geographic distribution) by ventral abdominal coloration, the respective presence or absence of occipital tubercles, and the relative development of abdominal tubercles. Examination of series of *C. hystrix* larvae, *C. cascadia* type material, and additional material from the *C. cascadia* type locale revealed that variability of occipital and abdominal tubercles development and ventral color pattern in *C. hystrix* encompasses the concept of *C. cascadia*. Some individuals from populations of *C. hystrix* have occipital tubercles such as described for *C. cascadia*. Additionally, we have found that the ventral color patterns associated with *C. cascadia* and *C. hystrix* are variable within single populations and have overlapping development. Therefore, we propose the following new subjective synonymy: *C. hystrix* (Traver) 1934 [= *C. cascadia* (Allen and Edmunds) 1961, **new synonym**]. Previously, Day (1954) recognized *Ephemerella spinosa* Mayo (nec *E. spinosa* Morgan, nec *E. spinosa* Ikononov) as a synonym of *C. hystrix*.

All material examined is housed in the

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Material examined.—IDAHO: Lemhi Co., Opal Cr., 23-VII-1964, three larvae, one set larval exuviae. MONTANA: Judith Basin Co., Running Wolf Cr., 47°00'33"N, 110°22'18"W, 12-VI-2000, WP McCafferty et al., 25 larvae; Ravalli Co., Bitterroot R., N. of Sula on US93, AR Gaufin, 29-VI-1963, one larva; E. Fk. Bitterroot R., 10 mi. above jct. W. Fk. Bitterroot R., 24-VI-1965, JR Grierson, one larva. NEVADA: Washoe Co., Incline Cr., 2 mi. W. Mt. Rose Summit, GF Edmunds, Jr. & RK Allen, 21-IX-1957, six immature larvae. OREGON: Clackamas Co., Branch of Still Cr. on rd. to Timberline Lodge, Mt. Hood, 30-VIII-1958, GF Edmunds, Jr. & RK Allen, 18 larvae (*C. cascadia* holotype, paratopotype, and topotypes); Douglas Co., Jackson Cr. headwater trib., Umpqua NF, 43°03'N, 122°30'W, 14-VI-1990, RW Wissemann, four larvae; Klamath Co., Sun Cr., Crater Lake NP, 14/22-IX-1993, 10 larvae; Linn Co., Sweetwater Cr., Willamette NF, Rigdon Ranger District, IX-1997, three larvae. WYOMING: Park Co., Antelope Cr., Yellowstone NP, 17-VI-1949, GF Edmunds, Jr., one larva; Gibbon R. at Virginia Cascade, 12-VI-1963, ER Vincent, 15 larvae; Iron Cr., YNP, 21-VI-1949, GF Edmunds, Jr., one larva; Teton Co., Firehole R., Old Faithful, YNP, 6-VI-1942, GF Edmunds, Jr., one larva.

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