

SCIENTIFIC NOTE

NAME ADJUSTMENTS AND A NEW SYNONYM FOR NORTH AMERICAN EPHEMEROPTERA SPECIES^{1,2}W. P. McCafferty³

While researching the original orthography for the list of North American mayflies, as it is to appear in volume 4 of *Nomina Insecta Nearctica*, I discovered that three specific epithets had not been corrected to gender agreement when recombined by McCafferty and Waltz (1990) or listed again by McCafferty (1996); these names are corrected to *Baetis futilis* (McDunnough), 1936 [originally *Pseudocloeon futile*], *Baetis rubrolateralis* (McDunnough), 1931 [originally *Pseudocloeon rubrolaterale*], and *Baetis virilis* (McDunnough), 1923 [originally *Pseudocloeon virile*]. One specific epithet had not been correctly formed by Berner (1940) or corrected subsequently either with its original genus or in recombination; this name is corrected to *Procloeon viridoculare* (Berner), 1940 [originally *Centroptilum viridocularis* and subsequently *P. viridocularis*]. One specific epithet had not been corrected to gender agreement by McDunnough (1926) or any North American authors listing or treating the name subsequently; this name is corrected to *Cinygma lyriforme* (McDunnough), 1924 [originally *Ecdyonurus lyriformis* and subsequently *C. lyriformis*]. One additional specific epithet had been incorrectly formed by McDunnough (1939); this name is corrected to *Baetis persecutor* McDunnough, 1939 [originally *B. persecuta* and subsequently *B. persecutus*].

With regard to the first three corrections, the specific epithets are transformed to the masculine gender from the original neuter to agree with the masculine name *Baetis*. In the case of *P. viridoculare*, both the original *Centroptilum* Eaton and subsequent *Procloeon* Bengtsson generic combinations required neuter agreement. In the case of *Cinygma* Eaton, McDunnough (e.g., McDunnough 1924) formed all his epithet names that were associated with this genus, and derived from the nominative singular, in the incorrect feminine gender. It is clear from Eaton (1885) that his genus is neuter. The "a" ending of the name, which is most often indicative of the Latinized feminine gender was evidently misleading. Notably, *Stenonema* Traver is another example of a mayfly genus group name ending in "ma" (latinization of ending Greek letters "μα") that is neuter, not feminine and that has confused workers. The emendation to *B. persecutor* is based on the fact that the correct spelling of the Latin noun in apposition is "persecutor."

McCafferty (1993) synonymized *Drunella conestee* (Traver), 1932 with *Drunella tuberculata* (Morgan), 1911. Further examination of North Carolina material has revealed that *Drunella wayah* (Traver), 1932 also falls within the range of variation of *D. tuberculata* as discussed by McCafferty (1993). This variability involves, for example, frontal shelf, genae, and tuberculation development. Allen and Edmunds (1962) drew the forefemur of *wayah* with a forefemoral ridge somewhat less apparent than that drawn for *tuberculata* or *conestee*, but the ridge is nonetheless present. No adults have ever been associated with the name *D. wayah*, and its known distribution is consistent with that recorded for *D. tuberculata* and, more precisely, *D. conestee*. Therefore, I place *D. wayah* as a junior subjective synonym of *D. tuberculata*: *Drunella tuberculata* (Morgan) [= *D. wayah* (Traver), n. syn.].

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LITERATURE CITED

- Allen R. K. and G. F. Edmunds, Jr.** 1962. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). V. The subgenus *Drunella* in North America. Misc. Publ. Entomol. Soc. Am. 3: 147-179.
- Berner, L.** 1940. Baetina mayflies in Florida. Fla. Entomol. 23: 33-45, 49-62.
- Eaton, A. E.** 1885 (1883-88). A revisional monograph of recent Ephemeridae or mayflies. Trans. Linn. Soc. Lond. 2nd Ser.-Zool. 3: 1-352.
- McCafferty, W. P.** 1993. Commentary on *Drunella tuberculata* and *Procloeon penulatum* (Ephemeroptera: Ephemerellidae; Baetidae) in North Carolina. Entomol. News 104: 235-239.
- McCafferty, W. P.** 1996. The Ephemeroptera species of North America and index to their complete nomenclature. Trans. Am. Entomol. Soc. 122: 1-54.
- McCafferty, W. P. and R. D. Waltz.** 1990. Revisionary synopsis of the Baetidae (Ephemeroptera) of North and Middle America. Trans. Am. Entomol. Soc. 116: 769-799.
- McDunnough, J.** 1924. New Canadian Ephemeridae with notes II. Can. Entomol. 56: 90-98, 113-122, 128-133.
- McDunnough, J.** 1926. New Canadian Ephemeridae with notes IV. Can. Entomol. 58: 296-303.
- McDunnough, J.** 1939. New British Columbian Ephemeroptera. Can. Entomol. 71: 49-54.