THE MAYFLIES OF UTAH

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The list of the mayflies (Ephemeroptera) of Utah presented below is a result of more than ten year's study by the writer. A monographic report of this study is being prepared but until this is available a list of the species can be of use. This list is presented with two main purposes in mind: (1) to present a list of the species of mayflies known to occur in Utah, of which more than half are previously unrecorded for the state; and (2) to make more useful the previous reports on the Utah mayfly fauna, especially that of Needham and Christenson (1927), by including a synonymy of names used in earlier reports when such records were based on misidentifications or when the names differ from those currently used. The arrangement of families and subfamilies is one devised by the author and Jay R. Traver, and should be credited to both rather than to the present author only.

Superfamily Heptagenioidea

Family Siphlonuridae

Subfamily Siphlonurinae

Genus Siphlonurus

Siphlonurus occidentalis (Eaton)

Family Isonychiidae

Genus Isonychia

Isonychia campestris McDunnough (? = Chirotenetes sp. [sic!] of Needham and Christenson, 1927:12)

Family Oligoneuriidae

Genus Lachlania

Lachlania powelli Edmunds

Family Heptageniidae

Genus Heptagenia

Heptagenia criddlei McDunnough
Heptagenia simplictoides McDunnough
Heptagenia solitaria McDunnough
Heptagenia elegantula (Eaton) (= Rithrogena elegantula [sic!] of Needham and Christenson, 1927:15)
Stenonema sp. - an undescribed species (= Stenonema terminatum of Edmunds, 1951:162)

Genus Cinygmula

Cinygmula tarda (McDunnough)
Cinygmula mimus (Eaton) (= Rithrogena mimus [sic!] of Needham 1927:133, and Needham and Christenson, 1927:14, adult not nymph).
Cinygmula ramaleyi (Dodds)
Cinygmula par (Eaton)

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Family Ephemerellidae

Ephemerella inermis Eaton (in part, not figure 1, Needham, 1927: 114; in part, Needham and Christenson, 1927: 9)
Ephemerella infrequens McDunnough (= Ephemerella inermis, in part, of Needham, 1927:114; and Needham and Christenson, 1927:9)
Ephemerella tibialis McDunnough (= Ephemerella angusta Traver, 1934:211, and 1935:581, new synonymy)
Ephemerella coloradensis Dodds
Ephemerella grandis Eaton
Ephemerella doddii Needham
Ephemerella margarita Needham
Ephemerella hecuba Eaton
[Ephemerella spinifera of Needham 1927:110, apparently does not occur in Utah.]

Family Tricorythidae

Tricorythodes minutus Traver (= Tricorythus explicatus of Needham and Christenson 1927:12)
Tricorythodes spp. — at least two additional species

Superfamily Caenoidea

Family Caenidae
Caenis simulans McDunnough
Brachycerus sp. (probably prudens McDunnough)

Superfamily Ephemeroidae

Family Ephemeridae
Ephemera simulans Walker
Hexagenia limbata Serville
Family Polymitarcydae
Ephoron album Say

Literature Cited


Mayflies of Utah

Cinygmula kootenai McDunnough


Rhithrogena mormoni (Banks) (?="Rhithrogena futulis [sic] of Knowlton and Harmston, 1939:3)

Rhithrogena futulis McDunnough

Rhithrogena undulata (Banks)

Rhithrogena robusta Dods

[Rhithrogena brunnea (Hagen), reported by Needham and Christenson, 1927:13, probably does not occur in Utah.]

Epeorus (Iron) longimanus (Eaton) (="Iron longimanus of Needham and Christenson, 1927:15)

Epeorus (Iron) deceptivus (McDunnough)

Epeorus (Iron) albertae (McDunnough) (="Epeorus sp. of Needham and Christenson, 1927:15)

Anepeorus rusticus McDunnough

Pseudiron sp. — An undescribed species.

Family Ametropodidae

- Ametropus albrighti Traver

Family Baetidae

- Callibaetis nigrurus Banks (="Callibaetis claudiae, nomen nudum, of Edmunds, 1945:169)
- Callibaetis fuscus Dods
- Callibaetis montanus Eaton
- Callibaetis doddsi Traver

["Callibaetis pallidus Banks, reported by Needham and Christenson, 1927:11, probably does not occur in Utah."]

- Baetis parvus Dods
- Baetis quilleri Dods
- Baetis tricaudatus Dods
- Baetis intermedius Dods
- Baetis bicaudatus Dods
- Baetis dardanus McDunnough
- Baetis insignicans McDunnough
- Baetis spp. — Three undescribed species

- Centroptilum oreophilum Edmunds
- Centroptilum selanderorum Edmunds
- Centroptilum conturbatum McDunnough
- Centroptilum spp. — Some additional undetermined species present.

- Pseudocloeon turbidum McDunnough

Superfamily Leptophlebioidea

Family Leptophlebiidae

- Paraleptophlebia heteronea (McDunnough) (="Leptophlebia pallipes of Needham and Christenson, 1927:10)
- Paraleptophlebia pallipes (Hagen)
- Paraleptophlebia debilis (Walker)
- Paraleptophlebia packti (Needham) (="Leptophlebia packii of Needham, 1927:44, and Needham and Christenson, 1927:10)
- Leptophlebia (Blasturus) gravastellus McDunnough
- Choroterpes albiannulata McDunnough

- Traverella albertana (McDunnough) (="Thraulus albertanus of Traver, 1935:544, and Knowlton and Harmston, 1939:3)