

3.11.1 Key to the Genera of Heptageniidae: Larvae

- 1a. Two caudal filaments present2
- 1b. Three caudal filaments present4
- 2a. Gills on abdominal segments 1 and 2 inserted ventrally; rare, South Saskatchewan River
upstream of Lake Diefenbaker3
- 2b. Gills on abdominal segments 1 and 2 inserted laterally, but extend and meet ventrally to form
a ‘suction cup’ (similar to Fig. 216); found in small streams in the western boreal forest
and Cypress Hills*Epeorus*
- 3a. Head and thorax with paired dorsal tubercles (note: the larva of *A. rusticus* is unknown, key
is based on larvae of *A. simplex*)*Anepeorus*
- 3b. Head and thorax without paired dorsal tubercles (Fig. 171)*Acanthomola*
- 4a. Gills inserted ventrally and mostly filamentous (Fig. 213)*Raptoheptagenia*
- 4b. Gills inserted laterally, but they may be expanded ventrally, and with large lamellae on at
least some segments (Figs. 184, 240, 215, 216)5
- 5a. Gills on abdominal segments 1 and 7 extend and meet ventrally (Fig. 216)
.....*Rhithrogena*
- 5b. Gills not as above6

- 6a. Anterior margin of head capsule with a distinct notch on anterior margin (Fig. 172)
.....*Cinygmula*
- 6b. Anterior margin of head capsule without a distinct notch7
- 7a. Gill 7 minute; body uniform brown (Fig.199)*Macdunnoa*
- 7b. Gill 7 large; body usually with a combination of light and dark markings8
- 8a. Gill 7 reduced to a slender filament and pointed (Figs. 218, 222)9
- 8b. Gill 7 large, similar in shape to preceeding gills10
- 9a. Gills on abdominal segments 1-6 pointed (Fig. 218)*Stenacron*
- 9b. Gills on abdominal segments 1-6 rounded or truncate (Figs. 222, 229)*Stenonema*
- 10a. Gill 7 with a filamentous portion, tarsal claws with a single large tooth (Fig. 192)
.....*Heptagenia*
- 10b. Gill 7 lacking a filamentous portion, tarsal claws with small denticles (Fig. 196)11
- 11a. Anterior margin of head with numerous dark spots (Fig. 194); head wider than pronotum;
caudal filaments without long setae*Leucrocuta*
- 11b. Anterior margin of head usually without numerous dark spots; pronotum as wide or wider
than head; caudal filaments with long setae*Nixe*