6 Key to Nymphs of North American Families of Plecoptera

This family key has been modified from several sources, including Ricker (1959b), Jewett (1968), McCafferty (1981), and Harper & Stewart (1984). A few new secondary characters are introduced in the family key, but this key differs from earlier ones primarily in organization. Throughout the family key and the generic keys that follow, we have stated the most easily observed diagnostic character first. All keys are based on latemstar nymphs, but, hopefully, the utilization of isecondary characters will permit determination of younger individuals.

KEY TO FAMILIES

1.	Highly branched gills present on sides and venter of all thoracic segments
	(Fig. 5.15, 5.3)
	Gills absent, or restricted to cervical or coxal area (Fig. 14.2E, 10.12D) or
	fingerlike without numerous filaments (Fig. 12.2C, 14.36F)
2.	Gill tufts present on abdominal sterna 1–2 or 1–3 (Fig.
	15.2C,D)
	Gill tufts absent from abdominal sterna 2–3 (Fig. 5.2, 5.3) Perlidae, p. 278
3.	Coxae with single, telescoping gills (Fig. 10.12D), or abdomen with large
	triangular ventroapical plate (Fig. 10.2G, H); first and second tarsal seg-
	ments subequal in length (Fig. 10.2C)
	Coxal gills and ventroapical abdominal plates absent; second tarsal segment
	wedgeshaped and shorter than segment 1 (Fig. 7.2D)
1	Thoracic sternal plates shieldlike, overlapping succeeding segment and typi-
7.	
	cally fringed with posterior setal row (Fig. 12.2F); habitus roach-like
	(Fig. 12.1) Peltoperlidae, p. 259
	Thoracic sterna not shieldlike or overlapping, and without posterior setal
_	row (Fig. 5.2); habitus not roachlike (Fig. 7.1, 14.1)
	Apex of labial palps extending little beyond anterior para-glossa margin;
	paraglossa and glossa extending forward about the same distance
	(Fig. 5.4F)
	Entire apical segment ofilabial palp extending beyond anterior margin of
	paraglossa, paraglossa much longer than glossa (Fig. 5.5E)
6.	Metathoracic wingpads strongly diverging from body axis (Fig. 9.1);
	cervical gills sometimes present (Fig. 9.2E, 9.24D); body form short and