

FAMILY HALIPLIDAE (Crawling water beetles)

R.E. Roughley

This family of aquatic beetles includes 37 species in Canada and Alaska. The adults are distinctive among aquatic beetles by their enlarged hind coxal plates suspended below the abdominal sterna. Adult haliplids swim slowly or crawl on submerged vegetation. Members of *Brychius* are found in erosional portions of streams. Those of other genera use a wide variety of freshwater habitats but are most often found in permanent, clean, nutrient-rich ponds and lakes or in slow backwaters of streams. Larvae feed on periphyton or on algae. Adults are primarily algophagous but may be facultative scavengers.

The haliplids have often been placed near Dytiscidae in classifications. This position is maintained by Beutel and Roughley (1988); however, they suggest that haliplids represent an independent invasion of the water. There is no recent taxonomic revision of the North American species. The last comprehensive treatments are those of Matheson (1912) and Roberts (1913). Proper species identification often requires examination of male genitalia. Therefore the recent trend is that previously widespread species are found to represent species complexes. A number of regional taxonomic works, such as Gordon and Post (1965), Matta (1976), Brigham (1982), and Hilsenhoff and Brigham (1982), are useful for interpreting the Canadian fauna.

AK (2); YK (4); NT (9); BC (23); AB (14); SK (9); MB (12); ON (16); PQ (19); NB (3); NS (3); LB (2); NF (4); H (1)

Genus BRYCHIUS C.G.Thomson

Key to North American species: Carr (1928)

B. albertanus Carr	-	-	-	-	AB	-	-	-	-	-	-	-	-	-
B. hornii Crotch	-	-	-	BC	-	-	-	-	-	-	-	-	-	-
B. hungerfordi Spangler	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
B. pacificus Carr	-	-	-	BC	-	-	-	-	-	-	-	-	-	-

Genus HALIPLUS Latreille

Key to North American species: Wallis (1933)

(Subgenus HALIPLUS s.str.)

H. allisonae Brigham	-	-	-	BC	-	-	-	-	-	-	-	-	-	-
H. apicalis C.G.Thomson*	AK	YK	NT	BC	AB	SK	MB	-	-	-	-	-	-	-
strigatus Roberts														
H. blanchardi Roberts	-	-	-	-	-	-	-	-	PQ	-	-	-	-	-
H. distinctus Wallis	-	-	-	BC	-	-	-	-	-	-	-	-	-	-
H. dorsomaculatus Zimmermann	-	-	-	BC	-	-	-	-	-	-	-	-	-	NF
H. falli Mank	AK	YK	NT	-	-	-	MB	-	PQ	-	-	-	-	-
H. immaculicollis Harris	-	YK	NT	BC	AB	SK	MB	ON	PQ	NB	NS	PE	LB	NF
americanus Aubé														
impressus Kirby														
H. longulus LeConte	-	-	NT	BC	AB	-	MB	ON	PQ	-	-	-	-	-
hoppingi Wallis														
H. robertsi Zimmermann	-	-	-	BC	-	-	-	-	-	-	-	-	-	-
pallidus Roberts														
H. stagninus Leech	-	-	NT	BC	AB	SK	MB	-	-	-	-	-	-	-

(Subgenus PARALIAPHLUS Wallis)

H. borealis LeConte	-	-	-	-	-	SK	MB	ON	PQ	-	-	-	-	-
H. connexus Matheson	-	-	-	-	-	-	MB	ON	PQ	NB	NS	-	-	-
H. fasciatus Aubé	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-
H. leopardus Roberts	-	-	-	-	-	-	-	-	PQ	-	-	-	-	-
H. pantherinus Aubé	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-

H. triopsis Say - - - - - ON PQ - - - - -

(Subgenus LIAPHLUS Guignot)

H. canadensis Wallis - - - BC AB SK MB ON PQ - - - - -
H. columbiensis Wallis - - NT BC - - - - - - - - -
H. cribrarius LeConte - YK NT BC AB SK MB ON PQ NB - - LB NF
H. leechi carteri Leech - - - BC - - - - - - - - -
H. leechi leechi Wallis - - - BC AB - - - - - - - - -
H. nitens LeConte - - NT - - - - ON PQ - - - - -
H. salinarius Wallis - - - BC - - - - - - - - -
H. salmo Wallis - - - BC AB - - - - - - - - -
H. subguttatus Crotch - - NT BC AB SK MB ON PQ - NS - - NF
H. unguaris Wallis - - - BC - - - - - - - - -
H. vancouverensis Matheson - - - BC AB - - - - - - - - -

Genus PELTODYTES Régimbart
Cnemidotus Erichson

P. callosus (LeConte) - - - BC AB - - - - - - - - -
P. duodecimpunctatus (Say) - - - - - ON PQ - - - - -
P. edentulus (LeConte) - - - BC AB SK MB ON PQ - - - - -
P. lengi Roberts - - - - - ON PQ - - - - -
P. muticus (LeConte) - - - - - PQ - - - - -
P. tortulosus Roberts - - - BC AB SK MB ON PQ - - - - -