

# FAMILY SCARABAEIDAE (Scarab beetles)

J. McNamara

The Scarabaeidae is one of the largest families of beetles in the world; 245 species are known to occur in Canada and Alaska. Beetles of this family are popular with collectors because of their bright colours and the large horns in some groups. The size of these beetles varies greatly, from 1.9 mm for *Pleurophorus longulus* to 15 cm for *Goliathus* which is probably the largest insect known based on bulk. The scarabs contain some of the most destructive beetles, such as the Japanese beetle (*Popillia japonica*), the Asiatic garden beetle (*Maladera castanea*) and the European chafer (*Amphimallon majalis*). These belong to a group of scarabs that feed primarily on live plant matter as adults, and usually on plant roots or rotting wood as larvae. The other group of scarabs are mainly dung-feeders or scavengers. They feed primarily on dung or decaying plant and animal matter as adults and in many cases the larvae feed on the same materials as it is supplied to them by the adults. Because of their economic importance, the life cycle of many species is fairly well known. That of the Japanese beetle is probably typical of the family in general. Mating takes place during the summer, the eggs are laid in the soil in late July and early August; they hatch immediately and the larvae begin to feed. When the weather gets cold the larvae go deeper into the soil, below the frost line, where they hibernate. In the spring when the weather gets warmer, they go up near the surface of the ground and continue to feed until they pupate in June. The adults emerge about the first of July depending on the area. There are many variations in the life cycle of scarabs. The *Phyllophaga* species cycle ranges from two to four years, depending largely on the latitude.

The scarabs of Canada and Alaska are being revised by Cooper and his work is expected to be published in the series "The Insects and Arachnids of Canada". The classification used here is almost entirely taken from his manuscript.

AK (13); YK (9); NT (17); BC (89); AB (89); SK (55); MB (83); ON (131); PQ (99); NB (41); NS (47); PE (11); LB (4); NF (20); H (1); I (20)

## Subfamily SCARABAEINAE Tribe Scarabaeini

Genus CANTHON Hoffmanssegg

Key to North American species: Robinson (1948)

(Subgenus CANTHON s. str.)

C. chalcites (Haldeman)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
C. pilularius (Linné)	-	-	-	-	AB	-	-	-	-	-	-	-	-	-	-
hudsonias (Forster)															
laevis (Drury)															
obtusidens (Ziegler)															
viridescens Horn															
volvans (Fabricius)															
C. vigilans LeConte	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-

(Subgenus BOREOCANTHON Halffter)

C. praticola LeConte	-	-	-	BC	AB	SK	MB	-	-	-	-	-	-	-	-
C. simplex LeConte	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-	-

(Subgenus GLAPHYROCANTHON Martinez)

C. viridis (Palisot de Beauvois)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
metallicus Sturm															
obsoletus (Say)															
viridicatus (Say)															

## Tribe Coprini

Genus COPRIS O.F.Muller

Key to New World species: Matthews (1961)

C. fricator fricator (Fabricius)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
anaglypticus Say															
tullius (Olivier)															

## Tribe Onthophagini

Genus ONTHOPHAGUS Latreille

Key to North American species: Howden & Cartwright (1963)

O. hecate hecate (Panzer)	-	-	-	BC	AB	SK	MB	ON	PQ	NB	NS	-	-	-
furcicollis Dejean														
hastator (Fabricius)														
lama Dejean														
latebrosus (Fabricius)														
obtectus (Palisot de Beauvois)														
sayi Castelnau														
scabricollis Kirby														
O. nuchicornis (Linné)+	-	-	-	BC	AB	-	-	ON	PQ	NB	NS	-	-	NF
rhinoceros Melsheimer														
xiphias LeConte														
O. orpheus canadensis (Fabricius)	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-
O. orpheus pseudorpheus Howden & Cartwright	-	-	-	-	-	-	MB	-	-	-	-	-	-	-
O. pennsylvanicus Harold	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-

Subfamily APHODIINAE

Tribe Aegialiini

Key to North American species: Gordon & Cartwright (1988)

Genus MICRAEGIALIA W.J.Brown

M. pusilla (Horn)	-	-	-	BC	AB	-	MB	-	-	-	-	-	-	-
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Genus AEGIALIA Latreille

(Subgenus LEPTAEGIALIA W.J.Brown)

A. humeralis W.J.Brown	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-
A. montana W.J.Brown	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-
A. rufescens Horn	-	-	-	BC	AB	SK	MB	ON	PQ	NB	-	-	-	-

(Subgenus PSAMMOPORUS Thomson)

A. criddlei W.J.Brown	AK	-	-	BC	AB	SK	MB	ON	PQ	-	-	-	-	NF
A. cylindrica (Eschscholtz)	AK	-	-	BC	-	-	-	-	-	-	-	-	-	-
A. lacustris LeConte	AK	YK	NT	BC	AB	SK	MB	ON	PQ	NB	NS	-	-	NF
A. nana W.J.Brown	-	-	-	-	-	-	-	-	PQ	NB	-	-	-	-
A. opaca W.J.Brown	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-
A. terminalis W.J.Brown	AK	YK	NT	BC	AB	SK	MB	-	-	-	-	-	LB	NF

(Subgenus RHYSOTHORAX Bedel)

(Anomalaegialia W.J.Brown)

A. rufa (Fabricius)+ spissipes LeConte	-	-	-	-	-	-	-	ON	PQ	-	NS	-	-	NF
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(Subgenus AEGIALIA s. str.)

A. arenaria (Fabricius)+	-	-	-	-	-	-	-	-	-	-	NS	-	-	-
A. blanchardi Horn	-	-	-	BC	-	-	-	-	PQ	-	-	-	-	-
A. carri Gordon & Cartwright	-	-	-	-	AB	-	-	-	-	-	-	-	-	-
A. conferta Horn	-	-	-	-	-	-	MB	ON	-	-	-	-	-	-
A. crassa LeConte	-	-	-	BC	-	-	-	-	-	-	-	-	-	-
insularis W.J.Brown														
A. opifex Horn	-	-	-	-	-	-	-	ON	PQ	-	NS	PE	-	-

Tribe Aphodiini



A. opacus LeConte	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-	-
columbiensis Wickham															
A. pardalis LeConte	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
A. pectoralis LeConte	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-	-
A. peculiaris Schmidt	-	-	-	-	-	-	MB	-	-	-	-	-	-	-	-
awemeanus W.J.Brown															
longitarsis Fall															
tenuitarsis Reitter															
A. phaeopterus LeConte	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-	-
canadensis Garnett															
?russelli Hatch															
A. piceatus Robinson	AK	-	-	BC	AB	-	-	-	-	-	-	-	-	-	-
raineri Hatch															
A. pinguellus W.J.Brown	-	-	-	BC	AB	SK	MB	-	-	-	-	-	-	-	-
A. pinguis Haldeman	-	-	NT	?	AB	SK	MB	ON	PQ	-	-	-	-	-	NF
validus Horn															
A. prodromus (Brahm)+	-	-	-	BC	-	SK	MB	ON	PQ	NB	NS	-	-	-	-
A. richardsonae Hatch	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
A. rogersi Hatch	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
A. rubripennis Horn	-	-	-	-	-	-	-	ON	PQ	NB	NS	-	-	-	-
A. rufipes (Linné)+	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
A. ruricola Melsheimer	-	-	-	-	AB	-	MB	ON	PQ	-	NS	-	-	-	NF
aurelianus Harold															
curtus Haldeman															
A. scabriceps LeConte	-	-	-	-	AB	-	-	-	-	-	-	-	-	-	-
A. scrofa (Fabricius)+	-	-	-	-	-	-	-	-	-	NB	-	-	-	-	NF
A. sigmoideus Van Dyke	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
A. socialis W.J.Brown	-	-	-	-	-	-	MB	-	-	-	-	-	-	-	-
A. stercorosus Melsheimer	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-	-
A. subaeneus LeConte	-	-	-	BC	?	-	-	-	-	-	-	-	-	-	-
gentneri Hatch															
perpolitus Gordon															
A. subterraneus (Linné)+	-	-	-	-	-	-	-	ON	PQ	NB	NS	-	-	-	-
A. talpoidesi W.J.Brown	-	-	-	-	-	-	MB	-	-	-	-	-	-	-	-
A. tenellus Say	AK	YK	NT	BC	AB	-	MB	ON	PQ	-	-	-	-	-	-
A. thomomysi W.J.Brown	-	-	-	-	-	-	MB	-	-	-	-	-	-	-	-
A. vittatus Say	-	-	-	BC	AB	SK	MB	ON	PQ	NB	NS	-	LB	-	-
A. walshii Horn	-	-	-	-	AB	SK	MB	-	-	-	-	-	-	-	-

Genus OXYOMUS Stephens

O. silvestris (Scopoli)+	-	-	-	BC	-	-	-	-	PQ	-	-	-	-	-	-
opacifrons Horn															
porcatus (Fabricius)															

Tribe Eupariini

Genus ATAENIUS Harold

Key to North American species: Cartwright (1974)

A. abditus (Haldeman)	-	-	-	-	-	-	-	ON	PQ	NB	-	-	-	-	-
attenuator Harold															
A. gracilis (Melsheimer)	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-	-
A. imbricatus (Melsheimer)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
sordidus Harold															
A. spretulus (Haldeman)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
consors Fall															
falli Hinton															
A. strigatus (Say)	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-	-

Genus DIALYTES Harold

<i>D. criddlei</i> W.J.Brown	-	-	-	-	-	-	-	MB	-	-	-	-	-	-	-	-
<i>D. striatulus</i> (Say)	-	-	-	-	-	-	-	MB	ON	PQ	NB	NS	-	-	-	-
<i>cribrosus</i> (LeConte)																
<i>D. truncatus</i> (Melsheimer)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-	-
<i>corvinus</i> (Haldeman)																
<i>D. ulkei</i> Horn	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-	-

Genus DIALYTELLUS W.J.Brown  
Key to species: Brown (1929)

<i>D. dialytoides</i> (Fall)	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-	-	-
<i>D. humeralis</i> (LeConte)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-	-

Tribe Psammodiini

Genus PSAMMODIUS Fallen  
Key to New World species: Cartwright (1955)

<i>P. caelatus</i> (LeConte)	-	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
<i>P. laevipennis</i> Costa+	-	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
<i>aegialioides</i> Haldeman																
<i>P. oregonensis</i> Cartwright	-	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
<i>P. sulcicollis</i> (Illiger)+	-	-	-	-	-	-	-	-	-	PQ	-	-	-	-	-	-

Genus RHYSEMUS Mulsant  
Key to New World species: Gordon & Cartwright (1980)

<i>R. californicus</i> Horn	-	-	-	-	AB	-	-	-	-	-	-	-	-	-	-	-
<i>R. germanus</i> (Linné)+	-	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-	-
<i>puncticollis</i> W.J.Brown																
<i>R. neglectus</i> W.J.Brown	-	-	-	-	AB	-	-	-	-	-	-	-	-	-	-	-
<i>R. sonatus</i> LeConte	-	-	-	-	AB	SK	MB	-	-	-	-	-	-	-	-	-

Genus PLEUROPHORUS Mulsant  
Key to New World species: Cartwright (1948)

<i>P. atlanticus</i> Cartwright	-	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
<i>P. caesus</i> (Creutzer)+	-	-	-	-	BC	-	-	-	ON	PQ	-	-	-	-	-	-

Subfamily OCHODAEINAE

Genus OCHODAEUS Audinet-Serville  
    *Cadocera* Eschscholtz  
    *Psephus* Kirby  
    *Stomphax* Fischer von Waldheim

<i>O. luscinus</i> Howden	-	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-	-
<i>O. musculus</i> (Say)	-	-	-	-	-	-	-	-	ON	-	-	-	-	-	-	-
<i>americanus</i> Westwood																
<i>O. opacus</i> LeConte	-	-	-	-	-	-	-	MB	-	-	-	-	-	-	-	-
<i>O. simplex</i> LeConte	-	-	-	-	-	AB	SK	MB	-	-	-	-	-	-	-	-

Subfamily GEOTRUPINAE  
Key to North American species: Howden (1955)  
Tribe Bolboceratini

Genus BOLBOCEROSOMA Schaeffer

B. bruneri Dawson & McColloch - - - - - MB - - - - -

Genus EUCANTHUS Westwood  
Key to North American species: Howden (1964)

E. greeni Robinson - - - - AB - MB - - - - -  
E. lazarus (Fabricius) - - - - - ON - - - - -  
    meliboeus (Fabricius)

Genus BOLBOCERAS Kirby  
    Odontaeus Fischer von Waldheim  
Key to North American species: Wallis (1928)

B. falli (Wallis) - - - - - SK MB ON PQ - - - - -  
B. filicornis (Say) - - - - - SK MB - - - - -  
B. liebecki (Wallis) - - - - - ON PQ - NS - - - - -  
B. obesus (LeConte) - - - BC AB - - - - -

Tribe Geotrupini

Genus GEOTRUPES Latreille

(Subgenus GEOTRUPES s. str.)

G. stercorarius (Linné)+ - - - - - PQ NB - PE - NF

(Subgenus ANOPLOTRUPES Jekel)  
    (Melanotrupes Blanchard)

G. balyi Jekel - - - - - MB ON PQ NB NS - - -  
    similis Jekel  
G. hornii Blanchard - - - - - ON PQ - - - - NF

(Subgenus ONYCHOTRUPES Jekel)

G. semiopacus Jekel - - - - - MB ON PQ - - - - -  
    blackburnii Melsheimer  
    melsheimeri Jekel  
    ovalipennis Jekel  
G. splendidus miarophagus Say - - - - - ? - - - - -  
G. splendidus splendidus (Fabricius) - - - - - ON PQ - NS - - - - -  
    gilnickii Jekel  
    mixtus Horn  
    starki Jekel

Subfamily GLAPHYRINAE

Genus LICHNANTHE Burmeister  
    Dasydera LeConte  
Key to species: Carlson (1980)

L. rathvoni (LeConte) - - - BC - - - - -  
    canina Horn  
    edwardsi Horn

Subfamily TROGINAE

Genus GLAREISIS Erichson

Key to North American species: Gordon (1970c)

<i>G. canadensis</i> W.J.Brown	-	-	-	-	AB	-	MB	-	-	-	-	-	-	-
<i>G. medialis</i> Gordon	-	-	-	BC	-	-	-	-	-	-	-	-	-	-

Genus TROX Fabricius

Key to North American species: Vaurie (1955)

(Subgenus TROX s. str.)  
(Pseudotrox Robinson)

<i>T. aequalis</i> Say	-	-	-	-	-	-	MB	ON	PQ	NB	NS	-	-	-
<i>T. atrox</i> LeConte	-	-	-	BC	AB	SK	-	ON	-	-	-	-	-	-
<i>T. capillaris</i> Say	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
<i>T. fascifer</i> LeConte	-	-	-	BC	-	-	-	-	-	-	-	-	-	-
<i>T. hamatus</i> Robinson	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
<i>T. robinsoni</i> Vaurie	-	-	-	-	AB	SK	MB	-	-	-	-	-	-	-
<i>T. scaber</i> (Linné)	-	-	-	BC	AB	-	MB	ON	PQ	NB	NS	-	-	-
<i>T. sonorae</i> LeConte	-	-	NT	-	AB	SK	-	-	-	-	-	-	-	-
<i>alternans</i> LeConte														
<i>lecontei</i> Harold														
<i>T. sordidus</i> LeConte	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-
<i>T. spinulosus spinulosus</i> Robinson	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
<i>T. unistriatus</i> Palisot de Beauvois	-	-	-	-	AB	SK	MB	ON	PQ	NB	NS	PE	-	NF
<i>porcatus</i> Say														
<i>T. variolatus</i> Melsheimer	-	-	-	-	-	-	-	ON	PQ	NB	NS	-	-	-
<i>erinaceus</i> LeConte														
<i>monticola</i> Robinson														

(Subgenus OMORGUS Erichson)

<i>T. scabrosus</i> Palisot de Beauvois	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
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Subfamily MELOLONTHINAE  
Tribe Sericini

Genus SERICA MacLeay  
    *Camptorhina* Kirby  
    *Stilbolemma* Harris

<i>S. anthracina</i> LeConte	-	-	-	BC	AB	SK	-	-	-	-	-	-	-	-
<i>crassata</i> Walker														
<i>frontalis</i> LeConte														
<i>robusta</i> LeConte														
<i>valida</i> Harold														
<i>S. atracapilla</i> (Kirby)	-	-	-	BC	-	-	MB	ON	PQ	NB	NS	-	-	-
<i>cucullata</i> Dawson														
<i>S. curvata</i> LeConte	-	-	NT	BC	AB	SK	MB	-	-	-	-	-	-	-
<i>S. elusa</i> Dawson	-	-	-	-	-	-	-	-	PQ	-	-	-	-	-
<i>S. georgiana</i> Leng	-	-	-	-	-	-	-	ON	PQ	NB	NS	PE	-	-
<i>lecontei</i> Dawson														
<i>S. intermixta</i> Blatchley	-	-	NT	BC	AB	SK	MB	ON	PQ	-	-	-	-	-
<i>S. parallela</i> Casey	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-
<i>S. sericea</i> (Illiger)	-	-	NT	BC	-	SK	MB	ON	PQ	-	-	-	-	-
<i>S. sponsa</i> Dawson	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
<i>S. tristis</i> LeConte	-	-	-	-	-	-	MB	ON	PQ	NB	NS	PE	-	-

Tribe Melolonthini  
Key to North American genera: Hardy (1974)

Genus DIPLLOTAXIS Kirby

Alobus LeConte  
 Diazus LeConte  
 Orsonyx LeConte

Key to species: Vaurie (1958; 1960)

D. atlantis Fall	-	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
nigra Cartwright															
D. brevicollis LeConte	-	-	-	BC	AB	-	-	-	-	-	-	-	-	-	-
nigropicea (Walker)															
D. haydenii LeConte	-	-	-	-	AB	SK	-	-	-	-	-	-	-	-	-
impressifrons Cazier															
innoxia LeConte															
levicoxa Fall															
D. liberta (Germar)	-	-	-	-	-	-	-	-	PQ	-	-	-	-	-	-
georgiae Blanchard															
moesta (Say)															
D. obscura LeConte	AK	-	-	BC	AB	SK	MB	-	-	-	-	-	-	-	-
compacta Fall															
consequens (Walker)															
prominens Fall															
D. sordida (Say)	-	-	-	-	-	-	-	-	ON	PQ	-	-	-	-	-
carbonaria Burmeister															
rugosoides Schaeffer															
D. subangulata LeConte	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
californica Schaeffer															
D. tenebrosa Fall	-	-	-	BC	-	-	-	-	-	-	-	-	-	-	-
D. tristis Kirby	-	-	-	-	-	-	-	?	ON	PQ	NB	NS	PE	-	-
corpulenta Burmeister															

Genus PHYLLOPHAGA Harris

Ancylonycha Blanchard  
 Endrosa LeConte  
 Gymnis LeConte  
 Lachnosterna Hope  
 Trichesthes Erichson

Key to North American species: Luginbill & Painter (1953)

P. anxia (LeConte)	-	-	NT	BC	AB	SK	MB	ON	PQ	NB	NS	PE	-	NF
alpina (Linell)														
brevicollis (Blanchard)														
cephalica (LeConte)														
dubia (Smith)														
insperata (Smith)														
puncticollis (Blanchard)														
uninotata (Walker)														
P. balia (Say)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
comata (Burmeister)														
P. crenulata (Frolich)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
georgicana (Gyllenhal)														
P. drakii (Kirby)	-	-	-	-	AB	SK	MB	ON	PQ	NB	NS	PE	-	-
consimilis (LeConte)														
grandis (Smith)														
P. ephilida (Say)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
burmeisteri (LeConte)														
P. fervida (Fabricius)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
arcuata (Smith)														
quercina (Knoch)														
P. fraterna Harris	-	-	-	-	-	-	-	ON	-	-	-	-	-	-
cognata (Burmeister)														
P. fusca (Frolich)	-	-	-	BC	-	-	-	ON	PQ	-	NS	-	-	NF
fervens (Gyllenhal)														
P. futilis (LeConte)	-	-	-	-	-	-	-	ON	PQ	NB	-	-	-	-
decidua (LeConte)														
gibbosa (Burmeister)														
serricornis (LeConte)														
P. gracilis (Burmeister)	-	-	-	-	-	-	-	ON	-	-	-	-	-	-





*P. variolosa* (Hentz) - - - - - ON PQ - - - - -

Genus RHIZOTROGUS Berthold

(Subgenus AMPHIMALLON Berthold)

*R. majalis* (Razoumowski)+ - - - - - ON - - - - -

Tribe Pachydeniini

Genus PHOBETUS LeConte  
Key to species: Hardy (1978)

*P. comatus* LeConte - - - BC - - - - -  
*leachi* Barrett

Tribe Macroductylini

Genus DICHELONYX Harris  
*Dichelonycha* Kirby  
Key to North American species: Saylor (1945)  
Key to E North American species: Brown (1946)

*D. albicollis* (Burmeister) - - - - - ON PQ NB NS - - -  
*D. backii* (Kirby) - - NT BC AB SK MB ON PQ - - - - -  
*arizonica* Barrett  
*D. canadensis* (Horn) - - - - - ON PQ - - - LB -  
*D. diluta* (Fall) - - - - - ON PQ NB NS - - -  
*D. elongatula* (Schonherr) - - - - - - - NB - PE - - -  
*D. fulgida* (LeConte) - - - BC AB - - - - -  
*crotchi* (Horn)  
*mormona* (Fall)  
*oregona* (Van Dyke)  
*D. kirbyi* W.J.Brown - - - - - AB SK MB - - - - -  
*D. linearis* (Gyllenhal) - - - - - MB ON PQ - - - - -  
*hexagona* (Germar)  
*testacea* (Kirby)  
*D. subvittata* (LeConte) - - - - - MB ON PQ NB NS - - -  
*D. truncata* (LeConte) - - - BC AB SK - - - - -  
*D. vicina* (Fall) - - - BC - - - - -  
*columbiana* Hopping  
*deserta* Hopping

Genus MACRODUCTYLUS Latreille  
*Stenothorax* Harris

*M. subspinosus* (Fabricius) - - - - - ON PQ - - - - -  
 *barbatus* Fitch  
 *elongatus* (Herbst)  
 *polyphagus* (Burmeister)

Tribe Hopliini

Genus HOPLIA Illiger  
*Echyra* Erichson  
Key to North American species: Hardy (1977)

*H. callipyge* LeConte - - - BC - - - - -



Genus POPILLIA Audinet-Serville

P. japonica Newman+ - - - - - - - ON PQ - NS - - -

Tribe Rutelini

Genus PELIDNOTA MacLeay

Key to North American species: Hardy (1975)

(Subgenus PELIDNOTA s. str.)

(Pelidnotidia Casey)

P. punctata (Linné) - - - - - - MB ON PQ - - - - -  
 brevicollis Casey  
 brevis Casey  
 debiliceps Casey  
 hudsonica Casey  
 lutea (Olivier)  
 oblonga Casey  
 pallidipes Casey  
 ponderella Casey  
 strenua Casey  
 tarsalis Casey  
 texensis Casey

Genus COTALPA Burmeister

Ciocotalpa Saylor

C. lanigera (Linné) - - - - - SK MB ON - - - - -  
 molaris Casey  
 tau Wickham  
 vernicata Casey

Subfamily DYNASTINAE  
 Key to species: Endrodi (1985)  
 Tribe Cyclocephalini

Genus CYCLOCEPHALA Latreille

Dichromina Casey  
 Ochrosidia Casey  
 Spilosota Casey

C. borealis Arrow - - - - - - - - - NS - - -  
 villosa Burmeister  
 C. longula LeConte - - - BC - - - - - - - - -  
 abrupta (Casey)  
 ambiens (Casey)  
 californica Arrow  
 marcida (Casey)  
 modulata (Casey)  
 obesula (Casey)  
 oblongula (Casey)  
 phasma (Casey)  
 prona (Casey)  
 reflexa (Casey)  
 regulifrons (Casey)  
 rustica (Casey)

Tribe Pentodontini

Genus LIGYRUS Burmeister

(Subgenus LIGYRODES Casey)

L. relictus (Say) - - - - - MB ON PQ NB - PE - -  
 clypealis (Casey)  
 dawsoni (Casey)  
 parviceps (Casey)  
 quadripennis (Casey)  
 vernicicollis (Casey)

(Subgenus LIGYRUS s. str.)  
 (Anagrylius Casey)  
 (Ligyrellus Casey)

L. gibbosus gibbosus (DeGeer) - - - - AB - - ON - - - -  
 bicorniculatus Casey  
 brevisculus Casey  
 curtispennis Casey  
 fartus Casey  
 juvenus (Fabricius)  
 lacustris Casey  
 laetulus Casey  
 laticauda Casey  
 longulus Casey  
 lucublandus Casey  
 morio (LeConte)  
 parallelus Casey  
 puncticauda Casey  
 remotus Casey  
 rubidus Casey  
 texanus Casey  
 variolosus (Burmeister)  
 virginicus Casey

Genus APHONUS LeConte

Key to North American species: Gill & Howden (1985)

A. castaneus (Melsheimer) - - - - - PQ - - - -  
 cubiformis Casey  
 obesus (Burmeister)  
 saginatus Casey  
 trapezicollis Casey  
 A. tridentatus (Say) - - - - - ON PQ - - - -  
 aterrimus Casey  
 congestus Casey  
 elongatus Casey  
 frater LeConte  
 modulatus Casey  
 politus Casey  
 scutellaris Casey

Tribe Oryctini

Genus XYLORYCTES Hope

X. jamaicensis Drury - - - - - ON PQ - - - -  
 americanus (Palisot de Beauvois)  
 faunus Casey  
 hebes Casey  
 lacustris Casey  
 obsolescens Casey



