

## **FAMILY COCCINELLIDAE (Ladybird beetles)**

J. McNamara

This family comprises 155 species and subspecies in Canada and Alaska. Many species are introduced in North America, some of these purposely for biological control. Most coccinellid adults and larvae are beneficial being predators of aphids, scale insects and mites. However, in the absence of preferred food, many species will feed on the immature stages of other insects. The species of *Psyllobora* feed on fungus and the only species of *Epilachna* occurring in Canada feeds on plants of the family Leguminaceae.

The taxonomy of the North American Coccinellidae is well known thanks to the recent monograph of Gordon (1985). Only some of the most recent references on coccinellids have been listed in the checklist. Good regional works on Coccinellidae include those of Chapin (1974) for Louisiana, Belicek (1976) for western Canada and Alaska, and Larochelle (1979) for Quebec.

AK (21); YK (25); NT (30); BC (88); AB (70); SK (58); MB (52); ON (81); PO (68); NB (37); NS (25); PE (6); LB (9); NF (12); H (2); I (8)

Subfamily STICHOLOTIDINAE  
Tribe Microweisini

## Genus MICROWEISEA Cockerell

Epismilia Cockerell

Pseudoweisea Schwarz

Smilia Weise

Key to species: Gordon (1970a)

### *M. misella* (LeConte)

- - - BC AB SK MB ON PQ NB - - - NF

## Genus COCCIDOPHILUS Brethes

Cryptoweisea Gordon

Key to North American species: Gordon (1970a)

### *C. marginatus* (LeConte)

- - - BC AB SK MB ON PO NB - - -

## Tribe Serangjini

## Genus DELPHASTUS Casey

### Key to species: Gordon (1970b)

### D. pusillus (LeConte)

#### *puncticollis* (LeConte)

sonoricus Casey

**Subfamily SCYMNINAE**  
**Tribe Stethorini**

## Genus STETHORUS Weise

Key to New World species: Gordon & Chapin (1983)

### S. punctillum Weise+

#### S. punctum punctum (LeConte)

### S. punctum picipes Casey

brevis Casey

Tribe Scymnini  
Key to North American species: Gordon (1976)

## Genus DIDION Casey

<i>D. longulum</i> Casey	-	-	-	BC	AB	-	-	-	-	-	-	-
<i>occiduum</i> (Casey)												
<i>parviceps</i> Casey												
<i>D. nanum</i> (LeConte)	-	-	-	-	-	-	-	ON	PQ	-	-	-
<i>D. punctatum</i> (Melsheimer)	-	-	NT	BC	AB	SK	MB	ON	PQ	NB	-	PE

## Genus SCYMNUS Kugelann

(Subgenus SCYMNUS s.str.)

<i>S. americanus</i> Mulsant	-	-	-	-	-	-	-	ON	PQ	-	-	-
<i>S. apicanus pseudapicanus</i> Gordon	-	-	-	-	-	AB	SK	MB	-	-	-	-
<b>borealis</b> Gordon												
<i>S. caurinus</i> Horn	-	-	-	-	BC	-	-	-	-	-	-	-
<b>aluticollis</b> Casey												
<i>S. fenderi</i> Malkin	-	-	-	BC	-	-	-	-	-	-	-	-
<i>S. indianensis</i> Weise	-	-	-	-	-	-	-	-	ON	-	-	-
<b>rusticus</b> Casey												
<i>S. nebulosus</i> LeConte	-	-	-	BC	-	-	-	-	-	-	-	-
<b>harneyi</b> Hatch												
<b>infuscatus</b> Boheman												
<b>phelpsii</b> Crotch												
<i>S. opaculus</i> Horn	-	-	-	BC	AB	SK	-	-	-	-	-	-
<i>S. paracanus linearis</i> Gordon	-	-	-	-	AB	SK	MB	-	-	-	-	-

(Subgenus PULLUS Mulsant)

<i>S. abbreviatus</i> LeConte	-	-	-	-	-	-	-	ON	PQ	-	-	-
<i>S. aquilonarius</i> Gordon	-	-	-	-	-	AB	-	-	-	-	-	-
<i>S. aridus</i> Casey	-	-	-	BC	-	-	-	-	-	-	-	-
<i>S. brullei</i> Mulsant	-	-	-	-	-	SK	MB	ON	PQ	-	NS	-
<divisus casey<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></divisus>												
laurenticus Casey												
lodi Stehr												
subaeneus Casey												
<i>S. calaveras</i> Casey	-	-	-	BC	-	-	-	-	-	-	-	-
saginatus Casey												
strenuus Casey												
stygicus Casey												
tenuivestis Casey												
<i>S. carri</i> Gordon	-	-	-	-	AB	-	-	-	-	-	-	-
<i>S. caudalis</i> LeConte	-	-	-	-	-	MB	ON	PQ	-	-	-	-
agricola Casey												
indutus Casey												
natchezianus Casey												
<i>S. cervicalis</i> Mulsant	-	-	-	-	-	-	-	ON	-	-	-	-
<i>S. compar</i> Casey	-	-	-	-	-	-	-	ON	-	-	-	-

## Genus NEPHUS Mulsant

(Subgenus NEPHUS s.str.)

*N. ornatus* *ornatus* (LeConte) - - - - - ON PQ NB NS - - -  
     *frosti* (Casey)  
     *sanguinifer* (Casey)  
*N. ornatus* *naviculatus* (Casey) AK - - BC AB SK MB ON - - - - NF  
     *kincaidi* (Hatch)

(Subgenus TURBOSCYMNUS Gordon)

N. georgei (Weise) - - NT - AB - - ON PQ - - - - NF  
 bisignatus (Horn)

(Subgenus SCYMNObIUS Casey)

## Tribe Hyperaspini

Genus HYPERASPIDIUS Crotch											
H. comparatus Casey juniperus Nunenmacher	-	-	-	-	BC	-	-	-	-	-	-
H. hercules Belicek	-	-	-	-	AB	-	-	-	-	-	-
H. insignis Casey	-	-	-	-	AB	-	-	-	-	-	-
H. mimus Casey carri Nunenmacher coloradensis Nunenmacher	-	-	-	-	AB	SK	-	-	-	-	-
H. vittigerus (LeConte)	-	YK	-	BC	AB	SK	-	-	-	-	-

## Genus BRACHIACANTHA Dejean

sonorana Casey

## Subfamily CHILOCORINAE

## Tribe Chilocorini

Key to genera: Chapin (1965)

## Genus BRUMOIDES E.A.Chapin

B. histrio (Fall)	-	-	-	BC	-	-	-	-	-	-	-
parvicollis (Casey)											
B. septentrionis septentrionis (Weise)	AK	YK	NT	BC	AB	SK	MB	ON	-	-	-
desertorum (Casey)											
nevadensis (Leng)											
ovoideus (Casey)											
B. septentrionis davisi (Leng)	-	-	-	-	-	-	-	ON	PQ	-	-

## Genus EXOCHOMUS Redtenbacher

*E. aethiops* (Bland) - - - - AB - - - - - -  
*mormonius* Casey - - - BC - - - - - - - - -

*E. californicus* Casey - - - - - - - - - - - - -

## Genus CHILOCORUS Leach

## Subfamily COCCIDULINAE

## Tribe Coccidulini

## Genus COCCIDULA Kugelann

*C. lepida* LeConte AK YK NT BC AB SK MB ON PQ NB - - -  
*occidentalis* Horn  
*reitteri* Dodge  
*suturalis* Reitter  
*suturalis* Weise

## Subfamily COCCINELLINAE

## Tribe Coccinellini

## Genus ANISOSTICTA Dejean

A. bitriangularis (Say) irregularis Weise multiguttata (Randall)	AK YK NT BC AB SK MB ON PQ NB NS - LB NF
A. borealis Timberlake	AK YK NT - AB SK MB ON - - - - - - -

Genus MACRONAEMIA Casey

*M. episcopalalis* (Kirby)

AK YK NT BC AB SK MB ON PQ - - - - -

Genus PARANAEMIA Casey

*P. vittigera* (Mannerheim)  
similis Casey

- - - - BC AB - - - - - - - - -

Genus COLEOMEGLLA Timberlake

Megilla Mulsant

*C. maculata lengi* Timberlake

- - - - - - - ON PQ - - - - -

Genus CERATOMEGLLA Crotch

*C. ulkei* Crotch  
parva (Watson)

AK YK NT BC - - - ON - - - - -

Genus HIPPODAMIA Dejean

*H. americana* Crotch

- - NT BC AB SK MB ON PQ - - - - -

*H. apicalis* Casey

- - - BC - - - - - - - - -

lengi Johnson

nigromaculata (Nunenmacher)

tricolor Nunenmacher

*H. arctica* (Schneider)\*

AK YK - BC - - - - PQ - - - LB -

*H. caseyi* Johnson

- - - BC - - - - - - - - -

*H. convergens* Guérin-Méneville

- - - BC AB SK MB ON PQ NB - - -

juncta Casey

modesta Melsheimer

obsoleta Crotch

praticola Mulsant

*H. expurgata* Casey

- YK - BC AB SK - - - - - - -

*H. falcigera* Crotch

- YK NT BC AB SK MB - PQ - - - -

albertana Casey

cottlei (Nunenmacher)

*H. glacialis* glacialis (Fabricius)

- - NT - AB SK MB ON PQ - - - -

*H. glacialis* lecontei Mulsant

- - - - AB SK - - - - - - -

abducens Casey

defecta Johnson

hoppingi Nunenmacher

mackenzie E.A.Chapin

pseudoglacialis Johnson

*H. lunatomaculata* dobzhanskyi E.A.Chapin

- YK - BC - - - - - - - - -

*H. moesta* moesta LeConte

- - - BC - - - - - - - - -

*H. moesta* bowditchi Johnson

- - - BC - - - - - - - - -

*H. oregonensis* Crotch

- - - BC AB - - - - - - - -

cockerelli Johnson

dispar Casey

liliputana Casey

<i>H. puncticollis</i> Casey	
<i>H. parenthesis</i> (Say)	AK YK NT BC AB SK MB ON PQ NB NS - - -
<i>albomacula</i> Fitch	
<i>approximata</i> Fitch	
<i>confluenta</i> Fitch	
<i>connata</i> Fitch	
<i>discopunctata</i> Fitch	
<i>insulata</i> Fitch	
<i>linearis</i> Fitch	
<i>lituricollis</i> Fitch	
<i>nimia</i> Fitch	
<i>permacrifrons</i> Fitch	
<i>triangularis</i> fitch	
<i>tridens</i> (Kirby)	
<i>tridentifrons</i> Fitch	
<i>H. quindecimmaculata</i> Mulsant	- - - - - SK - ON - - - - -
<i>H. quinquesignata</i> quinquesignata (Kirby)	AK YK NT BC AB SK MB ON PQ NB - PE -
<i>coccinea</i> Casey	
<i>leporina</i> Mulsant	
<i>mulsanti</i> LeConte	
<i>pugetana</i> Casey	
<i>quadraria</i> Casey	
<i>subsimilis</i> Casey	
<i>uteana</i> Casey	
<i>vernix</i> Casey	
<i>H. quinquesignata</i> ambigua LeConte	- - - BC - - - - - - - - -
<i>obliqua</i> Casey	
<i>punctulata</i> LeConte	
<i>H. sinuata</i> crotchi Casey	- - NT BC AB SK - - - - - - -
<i>disjuncta</i> Timberlake	
<i>fontinalis</i> Casey	
<i>straminea</i> E.A.Chapin	
<i>H. sinuata</i> spuria LeConte	AK - - BC - - - - - - - - -
<i>complex</i> Casey	
<i>H. tredecimpunctata</i> tibialis (Say)	AK YK NT BC AB SK MB ON PQ NB NS PE LB NF
<i>H. variegata</i> (Goeze)+	- - - - - - - - PQ - - - - -
<i>H. washingtoni</i> Timberlake	- - - BC - - - - - - - - -

#### Genus ANATIS Mulsant

Key to species: Watson (1976)

<i>A. labiculata</i> (Say)	- - - - - MB ON PQ NB - - -
<i>canadensis</i> Provancher	
<i>caseyi</i> Westcott	
<i>quindecimpunctata</i> (Olivier)	
<i>A. lecontei</i> Casey	- - - BC AB - - - - - - -
<i>A. mali</i> (Say)	AK YK NT BC AB SK MB ON PQ NB NS PE - NF
<i>borealis</i> Belicek	
<i>signaticollis</i> Mulsant	
<i>A. rathvoni</i> (LeConte)	- - - BC AB SK - - - - - - -

#### Genus MYZIA Mulsant

*Neomysia* Casey  
*Paramysia* Reitter

## Genus CALVIA Mulsant

Anisocalvia Crotch

## Genus ADALIA Mulsant

## Genus COCCINELLA Linné

Key to North American species: Brown (1962b)

C. alta W.J.Brown - - - - - AB - - - - - - - - - - -

<i>C. suturalis</i> Casey	- - - BC - - - - - - - - - - - -
<i>C. californica</i> Mannerheim	
<i>melanocollis</i> Johnson	
<i>C. fulgida</i> Watson	AK - NT BC - - - ON PQ - - - - - -
<i>C. hieroglyphica</i> humboldtiensis Nunenmacher	- - - BC - - - - - - - - - - - -
<i>C. hieroglyphica kirbyi</i> Crotch	- YK NT BC AB SK MB ON PQ NB NS - - -
<i>tricuspis</i> Kirby	
<i>C. hieroglyphica mannerheimi</i> Mulsant	AK YK NT - - - MB - - - - - - - -
<i>C. johnsoni</i> Casey	AK - - BC - - - - - - - - - - - -
<i>C. monticola</i> Mulsant	- - NT BC AB SK MB ON PQ NB NS - - -
<i>alutacea</i> Casey	
<i>biguttata</i> Johnson	
<i>confluenta</i> Johnson	
<i>impressa</i> Casey	
<i>lacustris</i> LeConte	
<i>nevadica</i> Casey	
<i>postica</i> Johnson	
<i>sellica</i> Johnson	
<i>C. novemnotata</i> Herbst	- - NT BC AB SK MB ON PQ - - - - - -
<i>confluenta</i> Fitch	
<i>conjuncta</i> Fitch	
<i>degener</i> Casey	
<i>divisicollis</i> Fitch	
<i>franciscana</i> Mulsant	
<i>inaequalis</i> Fitch	
<i>oregona</i> Casey	
<i>parvamaculata</i> Fitch	
<i>C. prolongata</i> prolongata Crotch	- - - BC - - - - - - - - - - - -
<i>C. septempunctata</i> Linné+	- - - - - - - MB ON PQ NB NS - - -
<i>C. transversoguttata richardsoni</i> W.Brown	AK YK NT BC AB SK MB ON PQ NB NS - LB NF
<i>interrupta</i> Fitch	
<i>quinquenotata</i> Kirby	
<i>zetterstedti</i> Mader	
<i>C. trifasciata perplexa</i> Mulsant	AK YK NT BC AB SK MB ON PQ NB NS - LB NF
<i>C. trifasciata subversa</i> LeConte	- - - BC - - - - - - - - - - - -
<i>barda</i> LeConte	
<i>euginii</i> Mulsant	
<i>juliana</i> Mulsant	
<i>praedicta</i> Mader	
<i>C. undecimpunctata undecimpunctata</i> Linné+	- - - BC - - - - - ON PQ NB NS PE - NF

## Genus PROPYLAEA Mulsant

P. quatuordecimpunctata (Linné)+ - - - - - - - - PQ NB - - -

## Genus CYCLONEDA Crotch

*C. munda* (Say) - - - - - MB ON PQ - - - -  
*C. polita* Casey - - - BC - - - - - - - - - -  
                           flava Timberlake

Genus OLLA Casey

O. v-nigrum (Mulsant) - - - BC AB SK MB ON - - - -

abdominalis (Say)  
 arizonae Casey  
 fenestralis Casey  
 minuta Casey  
 plagiata Casey  
 sayi (Crotch)  
 semilunaris Johnson  
 sobrina Casey

Genus NEOHARMONIA Crotch

Agrabia Casey  
 Harmoniaspis Casey  
 Neoharmonia Casey

N. venusta venusta (Melsheimer)

centralis Casey  
 dissimila Blatchley  
 fattigi Blatchley  
 notulata (Mulsant)

- - - - - - - ON - - - - - - -

Genus MULSANTINA Weise

Pseudocleis Casey

Key to species: Chapin (1985)

M. hudsonica (Casey)

M. picta (Randall)  
 blanchardi (Johnson)  
 concinnata (Melsheimer)  
 contexta (Mulsant)  
 impictipennis (Weise)  
 minor (Casey)  
 nubilata (Casey)

- - - BC AB SK MB ON PQ NB NS PE LB -  
 - YK - BC AB SK MB ON PQ NB NS - - -

Tribe Psylloborini

Genus PSYLOBOORA Dejean

P. borealis Casey  
 deficiens Casey  
 P. vigintimaculata (Say)  
 obsoleta Casey  
 separata Casey  
 taedata LeConte

- - - BC - - - - - - -  
 AK YK NT BC AB SK MB ON PQ NB NS - - NF

Subfamily EPILACHNINAE

Key to New World species: Gordon (1975)

Tribe Epilachnini

Genus EPILACHNA Dejean

E. varivestis Mulsant

- - - - - - - ON PQ - - - - -

cervina Mulsant  
corrupta Mulsant  
cuprea Cockerell  
genuina Mulsant  
juncta Johnson  
maculiventris Bland  
toweri Johnson