

LIST OF COLEOPTERA.

TAKEN AT GRIMSBY, ONTARIO, BY J. PETTIT.

(Continued from page 118.)

SPHINDIDÆ.

*Sphindus Americanus, *Lec.*

CIOIDÆ.

*Cis fuscipes, *Mellie.**Ennearthron mellyi, *Mell.**Ceracis militaris, *Mell.*

TENEBRIONIDÆ.

Phellopsis obcordata, *Lec.*Blapstinus metallicus, *Lec.*Centronopus calcaratus, *Fab.**Merinus lævis, *Oliv.*Xylopinus saperdoides, *Oliv.*Haplandus femoratus, *Fab.**concolor, *Lec.*Nyctobates Pensylvanica, *De Geer.**Iphthinus opacus, *Lec.*Tenebrio molitor, *Linn.*castaneus, *Knoch.*tenebrioides, *Beauv.*Paratenetus punctatus, *Spin.**Tribolium madens, *Charp.*Uloma impressa, *Mels.**culinaris, *Linn.**mentalis, *Horn.*Boletotherus cornutus, *Fab.*Boletophagus corticola, *Say.**Rhipidandrus flabellicornis, *Lec.**Pentayhyllus pallidus, *Lec.*Diaperis hydni, *Fab.*Haplocephala bicornis, *Oliv.*Platydemia excavatum, *Dej.*Americanum, *Lap.**picilabrum, *Mels.*flavipes, *Fab.*Hypophloeus parallelus, *Mels.**thoracicus, *Mels.***Dicedus punctatus, *Lec.*Helops micans, *Fab.*Meracantha contracta, *Beauv.**Strongylium tenuicolle, *Say.*

CISTELIDÆ.

Allecula nigrans, *Mels.**Hymenorus obscurus, *Say.*niger, *Mels.*Cistela brevis, *Say.*sericea, *Say.*Isomira quadristriata, *Couper.**velutina, *Lec.**Mycetocharis foveatus, *Lec.**tenuis, *Lec.*binotata, *Say.**Chromatia amœna, *Say.*Capnochroa fuliginosa, *Mels.*Androchirus luteipes, *Lec.*

LAGRIIDÆ.

Arthromacra, aenea, *Say.*

PYROCHROIDÆ.

Pyrochroa flabellata, *Fab.*femoralis, *Lec.*Schizotus cervicalis, *Newm.*Dendroides concolor, *Newm.*Canadensis, *Latr.*

ANTHICIDÆ.

*Corphyra collaris, *Say.*lugubris, *Say.*newmani, *Lec.*Notoxus anchora, *Hentz.**Anthicus obscurus, *Ferte.*

* Species marked with an asterisk have not been included in the list of Canadian Coleoptera.

.Three specimens taken by Dr. Milward.

Anthicus formicarius, *Ferte*.
 **floralis*, *Payk*.
scabriceps, *Lec*.
cervinus, *Ferte*.
 **coracinus*, *Lec*.
 **Xylophilus piceus*, *Lec*.
 **fasciatus*, *Mels*.

MELANDRYIDÆ.

**Cænifa pallipes*, *Mels*.
Tetratoma truncorum, *Lec*.
Stenotrachelus arctatus, *Say*.²
Penthe obliquata, *Fab*.
pimelia, *Fab*.
Synchroa punctata, *Newm*.
Emmesa connectens, *Newm*.
Melandrya striata, *Say*.
 **Xylita lævigata*, *Hel*.
Spilotes quadripustulosus, *Mels*.
Hypulus simulator, *Newm*.
Serropälpus striatus, *Hel*.
Enchodes sericea, *Hald*.
Dircæa liturata, *Lec*.
 **Symphora flavicollis*, *Hald*.
 **rugosa*, *Hald*.
Hallomenus scapularis, *Mels*.
Eustrophus bicolor, *Fab*.
bifasciatus, *Say*.
tomentosus, *Say*.
Orchesia gracilis, *Mels*.

MORDELLIDÆ.

**Anaspis nigra*, *Hald*.
flavipennis, *Hald*.
rufa, *Say*.
 **Tomoxia inclusa*, *Lec*.
Mordella melæna, *Lec*.
scutellaris, *Fab*.
 **octopunctatus*, *Fab*.
marginata, *Mels*.

Mordella lineata, *Mels*.
 **serval*, *Say*.³
triloba, *Say*.
 **Mordellistena lutea*, *Mels*.?
trifasciata, *Say*.
 **limbalis*, *Mels*.
 **ornata*, *Mels*.
scapularis, *Say*.
 **tosta*, *Lec*.
 **varians*, *Lec*.
 **morula*, *Lec*.
 **unicolor*.⁴
 **divisa*, *Lec*.
 **liturata*, *Mels*.
 **discolor*, *Mels*.
Pelecotoma flavipes, *Mels*.

MELOIDÆ.

Meloe angusticollis, *Say*.
Macrobasis Fabricii, *Lec*.
Epicauta Pensylvanica, *De Geer*.
vittata, *Dej*.

CEPHALOIDÆ.

Cephaloon lepturides, *Newm*.

CEDEMERIDÆ.

Asclera ruficollis, *Say*.
puncticollis, *Say*.

MYCTERIDÆ.

Mycterus scaber, *Hald*.⁵

PYTHIDÆ.

Pytho Americanus, *Kirby*.
 **strictus*, *Lec*.
Boros unicolor, *Say*.
 **Rhinosimus nitens*, *Lec*.

SCOLYTIDÆ.

**Crypturgus atomus*, *Lec*.
 **Cryphalus fasciatus*, *Say*.
 **mali*, *Fitch*.
 **materiarius*, *Fitch*.

² A single specimen, taken on the Lake Shore. ³ Taken in the Township of Adelaide.

⁴ Taken in Bosanquet.

⁵ A single specimen taken by Dr. Milward.

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| * <i>Cryphalus pullus</i> , Zimm. | * <i>Micracis suturalis</i> , Lec. |
| * <i>puberulus</i> , Lec. | * <i>aculeatus</i> , Lec. |
| * <i>Xyloterus retusus</i> , Lec. | * <i>Chramesus hicoriæ</i> , Lec. |
| <i>politus</i> , Say. | * <i>Phlorotribus limniaris</i> , Harr. |
| * <i>Xyleborus pyri</i> , Harr. | <i>Hylesinus aculeatus</i> , Say. |
| * <i>pubescens</i> , Zimm. | * <i>opaculus</i> , Lec. |
| * <i>sparsus</i> , Lec. | <i>dentatus</i> , Say. |
| * <i>plagiatus</i> , Lec. | <i>Dendroctonus terebrans</i> , Lec. |
| * <i>cælatus</i> , Eich. | * <i>simplex</i> , Lec. |
| <i>Tomicus calligraphus</i> , Germ. | * <i>Hylastes porculus</i> , Er. |
| * <i>cacographus</i> , Lec. | <i>pinifex</i> , Fitch. |
| <i>pini</i> , Say. | |

MISCELLANEOUS NOTES.

REARING BUTTERFLIES FROM THE EGG.—In the last number of the *Canadian Entomologist* I mentioned that I had succeeded in inducing females of *P. ajax* to deposit eggs, by enclosing them in a keg placed over the growing food-plant—the paw-paw. The first female enclosed on May 16th laid a number of eggs, and another female was enclosed in the same keg on the 17th. I was obliged to leave home for some days, and returned on June 1st, when I found but six larvæ in the keg. These had hatched and attained a length of three-fourths of an inch within sixteen days. On the 5th of June the larvæ were mature and had stopped feeding; the whole time from the laying of the eggs being but three weeks. On the 20th one ♂ *Marcellus* emerged; on the 21st a ♀ *Marcellus*, and by the 23rd four others emerged, all *Marcellus*.

On the 1st June I put three ♀ *Ajax* into another keg; by the 2nd 37 eggs were deposited. These began to hatch on the 6th. From this lot I obtained 24 chrysalids, which began to give imagos by 3rd of July. From them I obtained 12 ♂ and 10 ♀, all *Marcellus*.

On June 7th I shut up a ♀ *Marcellus*, the first I had noticed flying this year. By the 23rd I had five larvæ from this lot. The imagos began to appear on the 4th of July, and gave three ♀ and one ♂, all *Marcellus*, not distinguishable from those produced from the eggs of *Ajax* as above.

So that the question of the identity of *Ajax* and *Marcellus* may be regarded as settled.

I have had no difficulty, by some means, in inducing other species to deposit eggs. On a young tulip tree I placed two black females of *Turnus* (*Glaucus*), and have now several larvæ growing as the result. I have also raised two broods of *C. Philodice*, and the *Nisoniades lycidas*, and *N. pylades*, Scudder.