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## Insects

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## INSECTS.\*

BY H. F. WICKHAM.

## COLEOPTERA

*Carabidæ.*

- Cychrus lecontei, Dej., Independence.  
 Nomaretes cavicollis, Lec., Iowa, (Leng & Beutenmuller.)  
 Carabus limbatus, Say, Iowa City.  
 Elaphrus clairvillei, Kirby, Iowa City.  
 Nebria pallipes, Say, Independence.  
 Clivina impressifrons, Lec., Iowa City.  
 Bembidium postremum, Say, Iowa (Reinecke).  
 Evarthrus sodalis, Lec., Iowa City.  
 Amara remotestriata, Dej., Iowa (Hamilton).  
 Diplochila obtusa, Lec., Iowa City.  
 Platynus picticornis, Newm., Iowa (Reinecke).  
 — placidus, Say, Iowa City.  
 Perigona pallipennis, Lec., Iowa (Horn).  
 Galerita atripes, Lec., Iowa City.  
 Callida punctata, Lec., Iowa City.  
 Pinacodera limbata, Dej., Iowa City.  
 Helluomorpha bicolor, Harr., Iowa City.  
 Chlaenius diffinis, Chaud, Iowa City.  
 — brevilabris, Lec., Iowa City (Horn).  
 Harpalus testaceus, Lec., Iowa City (Bailey\*).

*Dytiscidæ.*

- Laccophilus proximus, Say, Iowa (Crotch).

*Hydrophilidæ.*

- Hydrochus variolatus, Lec., Iowa (Leng & Beutenmuller).

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\*[At the request of Professor Nutting, I have prepared the following list of species known from the state additional to those recorded by Professor Osborn, for incorporation in his report. For the species marked Iowa City I am to be considered responsible, the specimens being in my collection; where a locality is given, followed by a name in parenthesis, it is, however, usually taken from a published reference and rests on the authority of the author cited. When the name is that of the collector only, and the identification my own, an asterisk is used. The labor of searching through an immense amount of literature for local references has been borne by my wife, to whom thanks are due for the large number of additions made in this way.]

*Silphidæ.*

- Necrophorus pustulatus, var. melsheimeri, Iowa City.  
 Prionochæta opaca, Say, Iowa City, Independence.  
 Ptomaphagus pusio, Lec., Iowa City.

*Scydmanidæ.*

- Scydmanus flavitarsis, Lec., Iowa City.  
 — rasmus, Lec., Iowa City.  
 — minimus, Brend., Linn Co. (Brendel).  
 Eumierus motschulskii, Lec., Iowa City.  
 Euthiodes lata, Brend., Iowa (Brendel).

*Pselaphidæ.*

- Ctenistes zimmermanni, Lec., Iowa City.  
 Cylindractus crinifer, Casey, Iowa, (Casey).  
 Decarthron scarificatum, Brend., Cedar Rapids (Brendel).  
 Batrisus globosus, Lec., Iowa City.  
 — simplex, Lec., Iowa (Brendel).  
 Bryaxis terebrata, Casey, Iowa (Brendel).  
 — trigona, Lec., Cedar Rapids (Brendel).  
 — inornata, Brend., Iowa (Leconte).  
 — truncaticornis, Brend., Iowa (Brendel).  
 — canadensis, Brend., Iowa (Brendel).  
 — cribricollis, Brend., Iowa (Brendel).  
 Euplectus confluens, Lec., Iowa City.  
 — iowensis, Casey, Iowa (Casey).  
 — rufipes, Lec., Iowa (Brendel).

*Staphylinidæ.*

- Echidnoglossa brendeli, Cedar Rapids (Casey).  
 Homalota festinans, Er., Iowa City.  
 Trichiusa robustula, Casey, Cedar Rapids (Casey).  
 Myrmobiota crassicornis, Casey, Iowa City.  
 Myrmédonia caliginosa, Casey, Iowa City.  
 Thecturota exigua, Casey, Cedar Rapids (Casey).  
 Ocyusa asperula, Casey, Iowa (Casey).  
 Thiasophila angustiventris, Casey, Iowa (Casey).  
 Eurypronota discreta, Casey, Cedar Rapids (Casey).  
 Polylobus gratellus, Fauvel, Iowa City.  
 Bolitochara blanchardi, Casey, Iowa (Casey).  
 Somatium claviger, Casey, Keokuk (Casey).  
 Dinopsis americanus, Kraatz, Iowa City.  
 Quedius capucinus, Grav., Iowa City.  
 — peregrinus, Grav., Iowa City.  
 Staphylinus mysticus, Er., Iowa City.  
 Philonthus confertus, Lec., Iowa (Horn).  
 — micans, Grav., Iowa City.  
 — quisquiliarius, Gyll., Iowa City.  
 Actobius sobrinus, Er., Iowa City.  
 Stenus junio, Fabr., Iowa City.  
 — colonus, Er., Iowa City.

- egenus, Er., Iowa City.
- gratiosus, Casey, Independence.
- annularis, Er., Iowa City.
- Lathrobium armatum*, Say, Iowa City.
- Scopæus picipes*, Casey, Iowa City.
- Stilicus dentatus*, Say, Iowa City.
- Platymedon laticolle*, Casey, Iowa City.
- Tachyporus maculipennis*, Lec., Iowa City.
- Conurus scriptus*, Horn., Iowa City.
- Bledius nebulosus*, Casey, Iowa (Casey).
- opacus, Block., Iowa City.
- Oxytelus placusinus*, Lec., Iowa City.
- suspectus, Casey, Iowa City.
- Trogophlœus lepidus*, Casey, Cedar Rapids (Casey).
- phlœoporinus, Lec., Cedar Rapids (Casey).
- ingens, Casey, Cedar Rapids (Casey).
- detractus, Casey, Cedar Rapids (Casey).
- imbellis, Casey, Cedar Rapids (Casey).
- Arpedium tenue*, Lec., Iowa City.
- cribratum, Fauvel, Iowa City.

*Scaphidiidæ.*

- Bæocera specularifer*, Casey, Keokuk (Casey).
- congener, Casey, Iowa (Casey).
- Scaphisoma pusilla*, Lec., Iowa (Casey).
- repanda, Casey, Iowa (Casey).
- evanescens, Casey, Iowa (Casey).

*Phalacridæ.*

- Phalacrus politus*, Melsh, Iowa City.
- simplex, Lec., Iowa (Casey).
- Stilbus obscurus*, Casey, Iowa City.
- Acylomus ergoti*, Casey, Iowa (Casey).

*Coccinellidæ.*

- Cryptognatha pusilla*, Lec., Cedar Rapids.
- Hyperaspis pratensis*, Lec., Iowa City.

*Endomychidæ.*

- Symbiotes ulkei*, Cr., Iowa City.
- Phymaphora pulchella*, Newm., Cedar Rapids (Brendel).

*Erotylidæ.*

- Mycotretus sanguinipennis*, Say, Iowa City.
- Tritoma humeralis*, Say, Iowa City.

*Colydiidæ.*

- Colydium lineola*, Say, Iowa City.

*Cucujidæ.*

- Silvanus bidentatus*, Fabr., Iowa City.
- Pediacus depressus*, Hbst., Iowa City.

*Mycetophagidæ.*

Litargus 6-punctatus, Say, Iowa City.

*Dermestidæ.*

Anthrenus varius, Fabr., Iowa City.

*Histeridæ.*

Hister harrisii, Kirby, Iowa City.

— depurator, Say, Iowa City.

— americanus, Payk, Iowa City.

Hetærius brunnipennis, Rand, Iowa City.

Paromalus æqualis, Say, Iowa City.

Acritus exiguus, Er., Iowa City.

Bacanius punctiformis, Lec., Cedar Rapids (Brendel).

*Nitidulidæ.*

Colastus semitectus, Say, Iowa City.

— truncatus, Rand, Iowa City.

Epuræa erichsonii, Reitt, Iowa City.

Nitidula ziezac, Say, Iowa City.

Amphicrossus ciliatus, Oliv., Iowa City.

Ips sanguinolentus, Oliv., Iowa City.

*Trogositidæ.*

Alindria cylindrica, Serv., Iowa City.

*Byrrhidæ.*

Limnichus punctatus, Lec., Iowa City.

*Parnidæ.*

Dryops lithophilus, Germ., Iowa (Horn).

Macronychus glabratus, Say, Iowa City.

*Dasyllidæ.*

Eucinetus terminalis, Lec., Iowa City.

Helodes fuscipennis, Guer., Iowa City.

*Elateridæ.*

Cryptohypnus obliquatulus, Melsh., Iowa.

Limonius nimbatus, Say, Iowa City.

Corymbites tessellatus, Linn., Iowa City.

*Buprestidæ.*

Cinyra gracilipes, Melsh., Iowa City.

Agrilus anxius, Gory., Iowa City.

*Lampyridæ.*

Eros thoracicus, Rand, Iowa City.

Plateros canaliculatus, Say, Iowa City.

*Malachiidæ.*

Attalus otiosus, Say, Iowa City.

*Cleridæ.*

*Orthopleura damicornis*, Fabr., Iowa City.  
*Necrobia rufipes*, Fabr., Iowa City.

*Ptinidæ.*

*Ptilinus ruficornis*, Say, Iowa City.  
*Sinoxylon basilare*, Say, Iowa City.  
*Dinoderus porcatus*, Lec., Iowa City.

*Lucanidæ.*

*Passalus cornutus*, Fabr., Muscatine (McBride\*).

*Scarabæidæ.*

*Aegialia conferta*, Horn, Independence.  
*Geotrupes semiopacus*, Jek., Iowa City.  
*Dichelonycha subvittata*, Lec., Iowa City.  
*Macroductylus subspinosus*, Fabr., Independence (Mrs. Wickham\*).  
*Lachnosterna fraterna*, Harr., Iowa City.  
——— var. *forsteri*, Burm., Iowa (Horn).  
——— *marginalis*, Lec., Iowa City.  
——— *implicata*, Horn, Iowa City.  
——— *spretata*, Horn, Iowa (Horn).  
——— *villifrons*, Lec., Iowa (Horn).  
*Chalepus trachypygyus*, Burm., Iowa City.  
*Cremastochilus retractus*, Lec., Iowa (Horn).  
*Trichius piger*, Fabr., Iowa City.

*Cerambycidæ.*

*Elaphidion incertum*, Newm., Iowa City.  
*Typocerus badius*, Newm., Iowa City.  
——— *lugubris*, Say, Iowa (Leng.).  
*Liopus cinereus*, Lec., Iowa City.  
*Lepturges facctus*, Say, Iowa City.  
*Oberea flavipes*, Hald., Iowa City.

*Chrysomelidæ.*

*Donacia æqualis*, Say, Iowa (Leng.).  
——— *flavipes*, Kirby, Iowa City.  
*Hæmonia nigricornis*, Kirby, Iowa.  
*Bassareus congestus*, Fabr., Riverton (Shimek\*).  
——— var. *luteipennis*, Melsh., Iowa City.  
*Myochrous denticollis*, Say, Eastport (Shimek\*).  
*Typophorus viridicyanea*, Cr., West Iowa (Shimek\*).  
*Metachroma angustulum*, Cr., Eddyville (Shimek\*).  
*Graphops nebulosus*, Lec., Iowa (Crotch.).  
*Phyllobrotica limbata*, Fabr., Iowa (Horn).  
*Blepharida rhois*, Forst., Iowa City.  
*Hypolampis pilosa*, Ill., Iowa City.  
*Oedionychis limbalis*, Melsh., Iowa (Horn).  
*Disonycha pensylvanica*, var. *limbicollis*, Lec., Iowa City.  
——— *crenicollis*, Say, Iowa City.

*Crepidodera rufipes*, Linn., Iowa (Horn).  
*Longitarsus testaceus*, Melsh., Iowa City.  
*Glyptina cerina*, Lec., Iowa City.

*Tenebrionidæ.*

*Eleodes suturalis*, Say, Western Iowa (McBride\*).  
*Merinus lævis*, Oliv., Iowa City.  
*Haplandrus femoratus*, Lec., Iowa City.  
*Tenebrio castaneus*, Knoch, Eddyville (Shimek\*).  
*Blapstinus interruptus*, Say, Iowa City.  
*Tribolium ferrugineum*, Fabr., Iowa City.  
*Uloma mentalis*, Horn, Iowa City.  
*Hoplocephala viridipennis*, Fabr., Iowa City.  
*Platydema picilabrum*, Lap. and Br., Iowa City.  
*Phylethus bifasciatus*, Say, Iowa City.  
*Strongylium tenuicolle*, Say, Iowa City.

*Cistelidæ.*

*Hymenorus pilosus*, Melsh, Iowa City.  
    *curticollis*, Casey, Iowa (Casey).  
*Isomira iowensis*, Casey, Iowa (Casey).  
*Mycetochares foveata*, Lec., Iowa (Casey).

*Melandryidæ.*

*Synchroa punctata*, Newm. Iowa City.  
*Eustrophus repandus*, Horn, Iowa City.  
*Hallomenus scapularis*, Melsh. Iowa City.  
*Nothus varians*, Lec., Iowa City.

*Anthicidæ.*

*Mecynotarsus candidus*, Lec., Iowa (Liebeck).  
*Tomoderus interruptus*, Laf., Iowa City.  
*Anthicus cinctus*, Say, Iowa City.  
    — *fulvipes*, Laf., Iowa City.

*Otiorhynchidæ.*

*Hormorus undulatus*, Uhler, Iowa City.

*Curculionidæ.*

*Apion erraticum*, Smith, Iowa (Smith).  
    *robustum*, Smith, Iowa (Smith).  
    *floridanum*, Smith, Iowa (Smith).  
*Listronotus appendiculatus*, Boh., Iowa City.  
*Lixus marginatus*, Say, Iowa (Casey).  
*Dorytomus fusciceps*, Casey, Iowa (Casey).  
    — *indifferens*, Casey, Iowa (Casey).  
*Smieronyx constrictus*, Say, Iowa (Casey).  
    — *fiducialis*, Casey, Iowa (Casey).  
    — *perfidus*, Dietz, Iowa (Dietz).  
    — *sculpticollis*, Casey, Iowa (Deitz).  
*Otidocephalus perforatus*, Horn, Iowa City.  
*Anthonomus sycophanta*, Walsh, Iowa City.

- bolteri, Deitz, Iowa City.  
 — rufipes, Lec., Iowa (Dietz).  
 — subguttatus, Deitz, Iowa (Angell).  
 — ligatus, Deitz, Iowa (Angell).  
*Pseudanthonomus facetus*, Deitz, Iowa (Angell).  
*Tychuis sordidus*, Lec., Iowa (Casey).  
*Ceutorhynchus cyanipennis*, Ill., Iowa City.  
*Baris dolosa*, Casey, Iowa (Casey).  
   — confinis, Lec., Iowa City.  
   — transversa, Say, Iowa (Casey).  
*Pseudobaris angustula*, Lec., Iowa (Casey).  
*Nicentaus ingenuus*, Casey, Iowa (Casey).  
*Centrinus falsus*, Lec., Iowa (Casey).  
*Limnobaris deplanata*, Casey, Keokuk (Casey).  
   — confinis, Lec., Iowa (Casey).  
*Idiostethus ellipsoideus*, Casey, Iowa (Casey).  
*Catapastus conspersus*, Lec., Iowa (Casey).  
*Euryssobia echidna*, Lec., Iowa (Casey).

*Calandridæ.*

- Cossonus subareatus*, Boh., Eddyville (Shimek\*).

*Scolytidæ.*

- Hylesinus opaculus*, Lec., Iowa City.  
*Phlæotribus frontalis*, Zimm., Iowa (Leconte & Horn).

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 A KYMOGRAPH AND ITS USE.
 

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BY W. S. WINDLE.

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The science of physiology in its present condition owes much of its advancement to the skillful manipulation of cunningly devised apparatus. Without the successful invention of delicate mechanical appliances many of the profound researches of Foster, Du Bois, Raymond, McKendrick, Martin and others would never have been possible. It must be granted, however, that invention and skill in manipulation have been supplemented by clear and comprehensive interpretation of results obtained, and it is to the latter that most credit is due. In emphasizing the value of scientific apparatus and its use, we recognize the imperative need of a fundamental knowledge in anatomy, histology, chemistry and physics, which the pupil must necessarily possess before entering upon advanced work in the science