



State of Connecticut  
State Geological and Natural History Survey  
BULLETIN No. 31

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U.S. Nat. Mus.  
Div. Insects  
U.S. Nat. Mus.

CHECK-LIST OF THE  
INSECTS OF CONNECTICUT

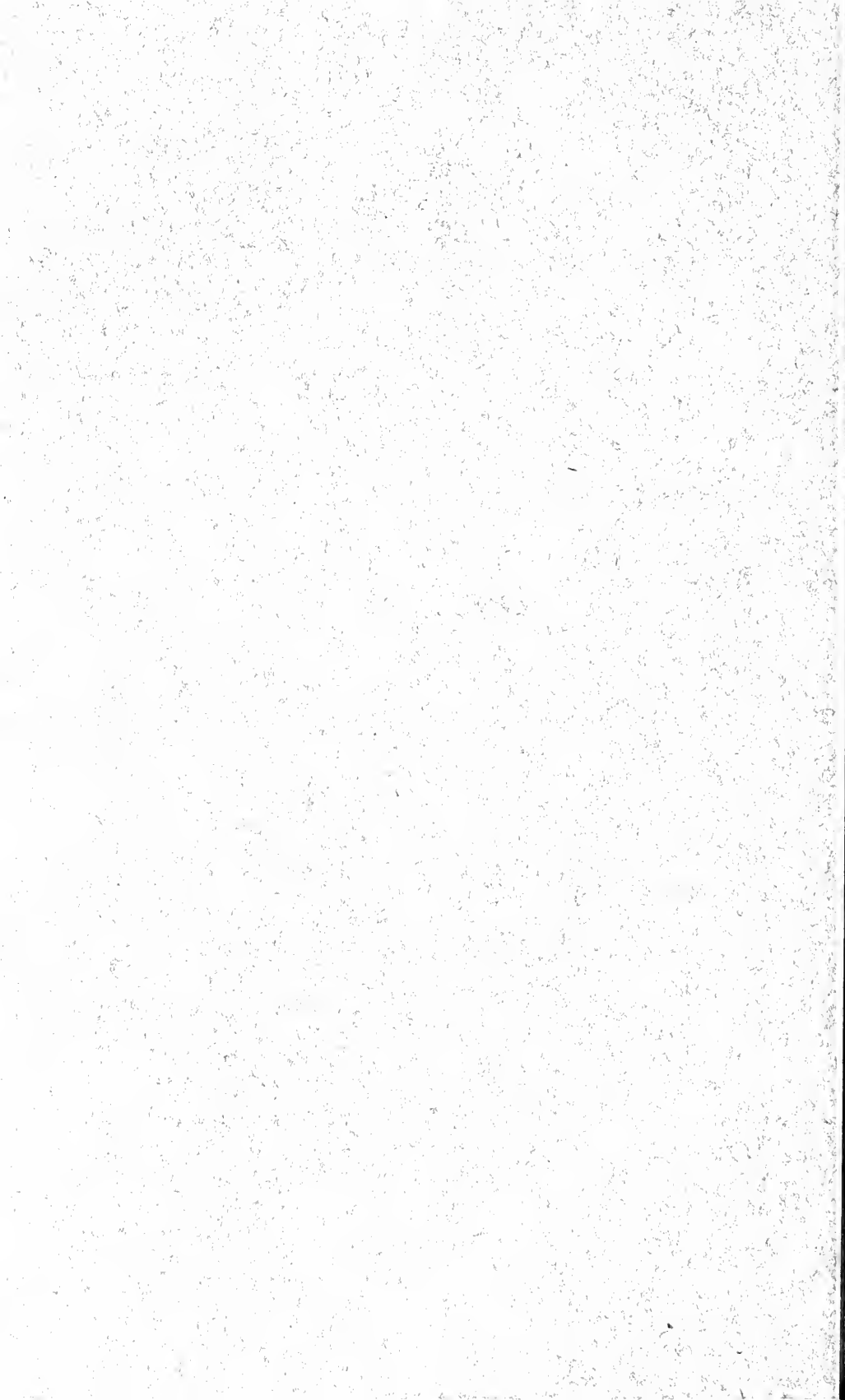
By

WILTON EVERETT BRITTON, Ph.D.

*State Entomologist and*

*Entomologist of the Agricultural Experiment Station, New Haven, Conn.*

HARTFORD  
PUBLISHED BY THE STATE  
1920



# BULLETINS

OF THE

## State Geological and Natural History Survey of Connecticut

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1. First Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1903-1904.
2. A Preliminary Report on the Protozoa of the Fresh Waters of Connecticut: by Herbert William Conn. (Out of print. To be obtained only in Vol. I, containing Bulletins 1-5. Price \$1.50, postpaid.)
3. A Preliminary Report on the Hymeniales of Connecticut: by Edward Albert White.
4. The Clays and Clay Industries of Connecticut: by Gerald Francis Loughlin.
5. The Ustilagineæ, or Smuts, of Connecticut: by George Perkins Clinton.
6. Manual of the Geology of Connecticut: by William North Rice and Herbert Ernest Gregory. (Out of print. To be obtained only in Vol. II, containing Bulletins 6-12. Price \$2.45, postpaid.)
7. Preliminary Geological Map of Connecticut: by Herbert Ernest Gregory and Henry Hollister Robinson.
8. Bibliography of Connecticut Geology: by Herbert Ernest Gregory.
9. Second Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1905-1906.
10. A Preliminary Report on the Algæ of the Fresh Waters of Connecticut: by Herbert William Conn and Lucia Washburn (Hazen) Webster.
11. The Bryophytes of Connecticut: by Alexander William Evans and George Elwood Nichols.
12. Third Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1907-1908.
13. The Lithology of Connecticut: by Joseph Barrell and Gerald Francis Loughlin.
14. Catalogue of the Flowering Plants and Ferns of Connecticut growing without cultivation: by a Committee of the Connecticut Botanical Society.

15. Second Report on the Hymeniales of Connecticut: by Edward Albert White.
16. Guide to the Insects of Connecticut: prepared under the direction of Wilton Everett Britton. Part I. General Introduction: by Wilton Everett Britton. Part II. The Euplexoptera and Orthoptera of Connecticut: by Benjamin Hovey Walden.
17. Fourth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1909-10.
18. Triassic Fishes of Connecticut: by Charles Rochester Eastman.
19. Echinoderms of Connecticut: by Wesley Roscoe Coe.
20. The Birds of Connecticut: by John Hall Sage and Louis Bennett Bishop, assisted by Walter Parks Bliss.
21. Fifth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1911-1912.
22. Guide to the Insects of Connecticut: prepared under the direction of Wilton Everett Britton. Part III. The Hymenoptera, or Wasp-like Insects, of Connecticut: by Henry Lorenz Viereck, with the collaboration of Alexander Dyer MacGillivray, Charles Thomas Brues, William Morton Wheeler, and Sievert Allen Rohwer.
23. Central Connecticut in the Geologic Past: by Joseph Barrell.
24. Triassic Life of the Connecticut Valley: by Richard Swann Lull.
25. Sixth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1913-1914.
26. The Arthrostraca of Connecticut: by Beverly Waugh Kunkel.
27. Seventh Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1915-1916.
28. Eighth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1917-1918.
29. The Quaternary Geology of the New Haven Region, Connecticut: by Freeman Ward, Ph.D.
30. Drainage, Modification and Glaciation in the Danbury Region, Connecticut: by Ruth Sawyer Harvey, Ph.D.
31. Check List of the Insects of Connecticut: by Wilton Everett Britton, Ph.D.
32. Ninth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1919-1920.



Bulletins 1, 9, 12, 17, 21, 25, 27, 28 and 32 are merely administrative reports containing no scientific matter. The other bulletins may be classified as follows:

Geology: Bulletins 4, 6, 7, 8, 13, 18, 23, 24, 29, 30.

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Zoölogy: Bulletins 2, 16, 19, 20, 22, 26, 31.

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11	.30	21	.05	31	1.50
12	.05	22	2.00	32	.05

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scientific institutions, and to scientific men, teachers, and others who require particular bulletins for their work, especially to those who are citizens of Connecticut.

Applications or inquiries should be addressed to

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Hartford, Conn.

In addition to the bulletins above named, published by the State survey, attention is called to three publications of the United States Geological Survey prepared in co-operation with the Geological and Natural History Survey of Connecticut. These are the following:

Bulletin 484. The Granites of Connecticut: by T. Nelson Dale and Herbert E. Gregory.

Water-Supply Paper 374. Ground Water in the Hartford, Stamford, Salisbury, Willimantic and Saybrook Areas, Connecticut: by Herbert E. Gregory and Arthur J. Ellis.

Water-Supply Paper 397. Ground Water in the Waterbury Area, Connecticut: by Arthur J. Ellis, under the direction of Herbert E. Gregory.

These papers may be obtained from the Director of the United States Geological Survey at Washington.

## CATALOGUE SLIPS.

*Connecticut. State geological and natural history survey.*

Bulletin no. 31. Check-list of the insects of Connecticut. By Wilton Everett Britton. Hartford, 1920.

397 pp., 23<sup>cm</sup>.

*Britton, Wilton Everett.*

Check-list of the insects of Connecticut. By Wilton Everett Britton. Hartford, 1920.

397 pp., 23<sup>cm</sup>.

(Bulletin no. 31, Connecticut geological and natural history survey.)



## CATALOGUE SLIPS.

### *Zoology.*

Britton, W. E. Check-list of the insects of Connecticut. Hartford, 1920.

397 pp., 23<sup>cm</sup>.

(Bulletin no. 31, Connecticut geological and natural history survey.)

### *Insects.*

Britton, W. E. Check-list of the insects of Connecticut. Hartford, 1920.

397 pp., 23<sup>cm</sup>.

(Bulletin no. 31, Connecticut geological and natural history survey.)



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# State Geological and Natural History Survey

HERBERT E. GREGORY, SUPERINTENDENT

BULLETIN NO. 31



HARTFORD  
Printed for the State Geological and Natural History Survey  
1920

# State Geological and Natural History Survey

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*Publication Approved by the Board of Control*



# CHECK-LIST OF THE INSECTS OF CONNECTICUT

Div. Insects  
U.S. Nat. Mus.

By

WILTON EVERETT BRITTON, Ph.D.

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*PREFACE.*

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Div. Insects  
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The purpose of this list is to stimulate an interest in the collection and study of insects in the state, as has been done in New Jersey, and to serve as a check-catalogue of the species in the collections of the institutions and amateur collectors. A work entitled "Guide to the Insects of Connecticut," containing keys to orders, families, genera, and species, and including much information about life-histories, habits, distribution, etc., is already in progress; two papers, the Euplexoptera and Orthoptera, by B. H. Walden, and the Hymenoptera, by Henry L. Viereck, having already been published as Bulletins 16 and 22 of this Survey. It will be many years at least before the Guide can be finished so as to include all orders of insects, and the usefulness of a check-list for service during this time seemed to warrant its preparation and publication.

Only such species are included as are known to occur within the boundaries of the state, and are represented by specimens or reliable records. The list is based on the material in the collection of the Agricultural Experiment Station at New Haven, which has been accumulated during the past twenty years, and is now by far the most important collection of Connecticut insects in existence. Many records have been obtained from the collections of various institutions both in and outside of the state, and from many private collectors. No localities are mentioned in the list, but these will be given in the Guide. Where possible, one or more references are given for each species. These are not references to the original descriptions except in a few cases, but are usually references to the most accessible accounts, sometimes popular and sometimes scientific, containing descriptions, figures, or studies of life-histories and injuries that will aid one in recognizing the species. Only the well-known common names and

synonyms are given, except where a different specific or generic name occurs in the work cited.

The arrangement of the orders, families, and genera is from the lowest to the highest, and in this respect is opposite to that of Dyar's List of Lepidoptera and Blatchley's Coleoptera of Indiana, but coincides with Aldrich's List of Diptera and Calvert's List of Odonata. These works have all been followed except where they have been shown to be in error or where new or additional genera and species were included. For convenient reference the species have been arranged alphabetically.

I wish to acknowledge here my obligations to the following collectors and specialists for furnishing records and identifying species listed in this work.

W. D. Kearfott, Montclair, N. J.; the late Professor John B. Smith, Agricultural Experiment Station, New Brunswick, N. J.; William Beutenmüller and the late John A. Grossbeck, formerly of the American Museum of Natural History, New York, N. Y.; Charles W. Johnson, Boston Society of Natural History, Boston, Mass.; E. P. Van Duzee, Berkeley, Calif., formerly of Buffalo, N. Y.; George Dimmock, Springfield, Mass.; Professors Herbert Osborn and J. S. Hine, Ohio State University, Columbus, Ohio; Dr. E. P. Felt, State Entomologist, Albany, N. Y.; Doctors Philip L. Calvert and Henry Skinner, Philadelphia, Pa.; Professor J. G. Needham, Cornell University, Ithaca, N. Y.; Messrs. Charles W. Leng, John D. Sherman, Jr., Fred Wintersteiner, New York, N. Y.; J. R. de la Torre Bueno, White Plains, N. Y.; William T. Davis, New Brighton, Staten Island, N. Y.; Charles Schaeffer, Brooklyn, N. Y.; Professor W. E. Hinds, Auburn, Ala.; Kenyon F. Chamberlain, Cornwall, Conn.; Arthur I. Bourne, Amherst, Mass.; R. R. Parker, Bozeman, Mont.; J. F. Abbott, St. Louis, Mo.; Professor A. P. Morse, Wellesley College, Wellesley, Mass.; C. A. Frost, Framingham, Mass.; L. W. Swett, Boston, Mass.; Thomas L. Casey, Washington, D. C.; Professors J. W. Folsom and Alexander D. MacGillivray, University of Illinois, Urbana, Ill.; Dr. Edith M. Patch, Agricultural Experiment Station, Orono, Me.; Professors William Morton

Wheeler and Charles T. Brues, Bussey Institution, Forest Hills, Mass.; Charles R. Ely, Washington, D. C.; B. H. Walden, New Haven, Conn.; Dr. L. O. Howard, Dr. H. G. Dyar, the late Otto Heidemann, Henry L. Viereck, Nathan Banks, W. Dwight Pierce, S. A. Rohwer, of Washington, D. C., and John J. Davis, Riverton, N. J., Harrison E. Smith, Arlington, Mass., and Alfred B. Champlain, Harrisburg, Pa., all now or formerly of the Bureau of Entomology; and finally to many collectors whose initials appear after the names of species in the list.

This list must necessarily be very incomplete, but it is believed to be accurate and reliable in regard to the species included. It is hoped that sometime a revised and enlarged edition may be issued, and the author requests that authentic records be sent him of any additional species taken within the state.

W. E. BRITTON.

Agricultural Experiment Station,  
New Haven, Conn., April 6, 1920.

### STATISTICS.

Statistics of the insects listed in this Bulletin are as follows:—

Order	Number of Families	Number of Genera	Number of Species and Varieties
Thysanura	5	10	16
Isoptera	1	1	1
Corrodentia	1	6	9
Plecoptera	1	9	11
Ephemera	1	7	11
Mallophaga	2	4	7
Neuroptera	5	10	16
Mecoptera	1	2	3
Trichoptera	7	17	30
Odonata	3	5	101
Euplexoptera	1	2	2
Orthoptera	6	50	106
Thysanoptera	3	9	12
Hemiptera	37	330	800
Lepidoptera	46	609	1452
Siphonaptera	1	1	1
Diptera	53	455	1111
Coleoptera	83	781	1825
Strepsiptera	2	3	3
Hymenoptera	74	635	1261
Total	333	2946	6781

KEY TO INITIALS OF AUTHORITIES FOR OCCUR-  
RENCE OF SPECIES.

---

- A. B. C.** — Alfred B. Champlain, Bureau of Economic Zoology, Harrisburg, Pa., formerly of Washington, D. C., Lyme and New Haven, Conn.
- A. E. V.** — Professor Addison E. Verrill, New Haven, Conn.
- A. H. Me.** — Rev. A. H. Manee, Southern Pines, N. C., formerly of New Milford, Conn.
- A. H. Mn.** — Dr. Anna H. Morgan, Mt. Holyoke College, South Hadley, Mass.
- A. I. B.** — Arthur I. Bourne, Amherst, Mass., formerly of New Haven, Conn.
- Ald. Cat.** — Aldrich's Catalogue of North American Diptera.
- A. P. M.** — Professor Albert P. Morse, Wellesley, Mass.
- A. W. P.** — A. W. Pearson, Norwich, Conn.
- B. H. W.** — B. H. Walden, New Haven, Conn.
- C. C.** — Rev. Charles Crozet, formerly of Hartford and Danielson, Conn., now of Rome, Italy.
- C. D. J.** — Professor C. D. Jarvis, formerly of Storrs, Conn.
- C. H. Y.** — Professor Clarence H. Young, New York City.
- C. R. E.** — Charles R. Ely, Washington, D. C. (Summers at East River, Conn.)
- C. S.** — Charles Schaeffer, Brooklyn, N. Y.
- C. W. J.** — Charles W. Johnson, Boston, Mass.
- C. W. L.** — Charles W. Leng, New York City.
- D. J. C.** — Donald J. Caffrey, Bureau of Entomology, Washington, D. C., formerly of New Haven and Wallingford, Conn.
- D. W. C.** — D. W. Coquillett, Washington, D. C. Died 1911.
- E. D. H.** — Edward Doubleday Harris, New York City. Died 1919.
- E. F.** — Ernst Frensch, Mystic, Conn.
- E. L. D.** — Edgar L. Dickerson, Newark, N. J.
- E. N.** — Edward Norton, Farmington, Conn. Died 1894.
- E. P. F.** — Dr. E. P. Felt, State Entomologist, Albany, N. Y.
- E. P. V. D.** — Edward P. Van Duzee, San Francisco, Calif., formerly of Buffalo, N. Y.



- F. K. — Frederick Knab, Washington, D. C. Died 1918.
- F. W. H. — F. W. Holms, Norwich, Conn.
- G. A. C. — G. A. Cromie, New Haven, Conn.
- G. D. — George Dimmock, Springfield, Mass.
- G. H. H. — George H. Hollister, Hartford, Conn.
- G. M. — Gustav Mayr, Vienna, Austria. Died 1908.
- H. B. — Henry Bird, Rye, N. Y.
- H. B. K. — Harry B. Kirk, Harrisburg, Pa., formerly of New Haven, Conn.
- H. F. B. — Homer F. Bassett, Waterbury, Conn. Died 1902.
- H. H. A. — H. H. Abeling, Torrington, Conn.
- H. J. G. — Henry J. Goodman, New Haven, Conn.
- H. L. J. — Harry L. Johnson, South Meriden, Conn.
- H. L. V. — Henry L. Viereck, Bureau of Biological Survey, Washington, D. C., formerly of New Haven, Conn.
- H. M. R. — H. M. Russell, Bureau of Entomology, Washington, D. C., formerly of Bridgeport, Conn. Died 1915.
- H. W. F. — Professor H. W. Foote, New Haven, Conn.
- H. W. W. — Rev. H. W. Winkley, formerly of Branford, Conn.
- J. A. H. — James A. Hyslop, Bureau of Entomology, Washington, D. C.
- J. K. L. — J. Kirby Lewis, New Haven, Conn.
- J. R. T. B. — J. R. de la Torre Bueno, White Plains, N. Y.
- J. S. H. — Professor J. S. Hine, Ohio State University, Columbus, Ohio.
- J. T. K. — J. T. Klein, Torrington, Conn. Died 1904.
- K. F. C. — Kenyon F. Chamberlain, Cornwall, Conn.
- L. B. W. — Lewis B. Woodruff, New York City.
- L. W. S. — L. W. Swett, Boston, Mass.
- O. H. — Otto Heidemann, Bureau of Entomology, Washington, D. C. Died 1916.
- P. L. B. — Philip L. Buttrick, New Haven, Conn.
- R. H. — Robert Hochstein, Torrington, Conn. Died 1920.
- R. Hd. — Roland Hayward, Milton, Mass. Died 1906.
- S. I. S. — Professor Sidney I. Smith, New Haven, Conn.
- S. N. D. — Stewart N. Dunning, Hartford, Conn.
- S. W. W. — Professor S. W. Williston, Chicago, Ill., formerly of New Haven, Conn. Died 1918.

- T. L. C. — Major Thomas L. Casey, Washington, D. C.  
W. B. — William Beutenmüller, New York City.  
W. C. W. — William C. Woods, Middletown, Conn.  
W. E. B. — W. E. Britton, New Haven, Conn.  
W. F. — William Fox, Philadelphia, Pa.  
W. H. P. — William H. Patton, Hartford, Conn. Died, 1918.  
W. M. W. — Professor William M. Wheeler, Forest Hills,  
Mass.  
W. S. B. — Professor W. S. Blatchley, Indianapolis, Ind.

## KEY TO REFERENCES CITED IN THIS LIST.

- Act. Soc. Sci. Fenn.** — Acta Societatis Scientiarum Fennicæ, Helsingfors, Finland.
- Am. Ent.** — American Entomologist, 1868. St. Louis, Mo. ii volumes; American Entomologist and Botanist, 1870. 2nd ser. i volume, 1880. New York, N. Y.
- Am. Jour. Sci.** — American Journal of Science and Arts. New Haven, Conn. 1818 — date.
- Am. Mus. Jour.** — Journal of the American Museum of Natural History. New York, N. Y.
- Am. Nat.** — The American Naturalist. Now published at New York, N. Y. Begun in 1867.
- Annales** — A series of papers on Diptera by Jacques Bigot in Annales de la Société Entomologique de France, Paris. 1874-1892.
- Ann. Ent. Soc. Am.** — Annals of the Entomological Society of America. Columbus, Ohio. 1908-date.
- Ann. Lyc. Nat. Hist. N. Y.** — Annals of the Lyceum of Natural History of New York, N. Y. 8 vols. 1824-1867.
- Ann. Mus. Nat. Hung.** — Annals of the National Museum of Hungary.
- Ann. N. Y. Acad. Sci.** — Annals of the New York Academy of Science. New York, N. Y. Begun in 1877.
- Ann. Soc. Ent. France.** — Annales de la Société Entomologique de France. Paris. Begun in 1832.
- Aphid. Minn.** — Synopsis of the Aphididæ of Minnesota, by O. W. Cestlund, Bulletin 4, Geological and Natural History Survey of Minnesota. St. Paul, Minn. 1887.
- Berl. Ent. Zeit. or Zeitschr.** — Berliner Entomologische Zeitschrift. Berlin, Germany. Begun in 1857.
- Bomb. Moths.** — A Monograph of the Bombicine Moths of America North of Mexico, by A. S. Packard, Memoirs, National Academy of Sciences, Vol. vii, Part I. Notodontidæ. Washington, D. C. 1895.
- Bost. Jour. Nat. Hist.** — Boston Journal of Natural History. Boston, Mass. 1834-1863.
- British Aphid.** — Monograph of the British Aphides, by G. B. Buckton. 4 vols. Ray Society. London, England. 1875-1883.

- Brit. Ent.** — British Entomology, by J. Curtis. London, England.
- Bull. Am. Mus. Nat. Hist.** — Bulletin of the American Museum of Natural History. New York, N. Y. Begun in 1881.
- Bull. Brook. Ent. Soc.** — Bulletin of the Brooklyn (N. Y.) Entomological Society. 7 vols. 1878-1885. Re-established in 1912.
- Bull. Buff. Soc. Nat. Sci.** — Bulletin of the Buffalo Society of Natural Sciences. Buffalo, N. Y. Begun in 1874.
- Bull. Geol. Geog. Surv. Terr.** — Bulletin of the United States Geological and Geographical Survey of the Territories. Washington, D. C.
- Bull. Ill. State Lab. Nat. Hist.** — Bulletin of the Illinois State Laboratory of Natural History. Urbana, Ill.
- Bull. Mosc.** — Bulletin de la Société Impériale des Naturalistes de Moscow, Moscow, Russia.
- Bull. Sci. Lab. Denison Univ.** — Bulletin of the Science Laboratories, Denison University. Granville, Ohio.
- Bull. Soc. Ent. Belg.** — Bulletin de la Société Entomologique de Belgique. Brussels, Belgium. Begun in 1860.
- Bull. Wis. Acad. Sci.** — Bulletin Wisconsin Academy of Sciences, Milwaukee, Wis. Begun in 1901.
- Bur. Ent.** — Bureau of Entomology (formerly Division), United States Department of Agriculture, Washington, D. C. Bulletins, new series. Technical series, Circulars.
- Butterfly Book.** — The Butterfly Book, by W. J. Holland. Doubleday, Page & Co., Garden City, N. Y.
- Can. Bark Beetles.** — Canadian Bark Beetles, by J. M. Swaine. Technical Bulletin, No. 14. Entomological Branch, Department of Agriculture, Dominion of Canada, Ottawa, Can. 1918.
- Can. Ent.** — Canadian Entomologist. London, Ontario, Canada. Begun in 1869.
- Cat. Brit. Mus.** — Catalogue of the British Museum, London, England.
- Cat. Brit. Tin.** — Catalogue of British Tineinae.
- Cat. Homop. N. Y.** — Catalogue of New York Homoptera.

- Cat. Ins. N. Y.** — Catalogue of New York Insects, by Asa Fitch. Fourth Annual Report of the Regents of the University of the State of New York, 1851. Reprinted in 9th Report of the N. Y. State Entomologist, 1892.
- Cat. Lep. Eur.** — Catalogue Méthodique des Lépidoptères d'Europe, by P. A. J. Duponchel. Paris, France. 1844-1846.
- Cat. Noc.** — Catalogue of Noctuidæ, by J. B. Smith. Bulletin 44. United States National Museum. Washington, D. C. 1893.
- Cent.** — Diptera Americæ Septentrionalis Indigena, by H. Loew. Originally published in 10 Centuries in Berliner Entomologische Zeitschrift, 1861-72. Berlin, Germany. (Usually cited as "Century.")
- Cin. Quart. Jour. Sci.** — Cincinnati Quarterly Journal of Science. Cincinnati, Ohio.
- Coleop. Can.** — Petite Faune Entomologique du Canada: Les Coleoptères, by L'Abbé L. Provancher, with two supplements. Quebec, Canada. 1877 and 1879.
- Coleop. Ind.** — Coleoptera of Indiana, by W. S. Blatchley. Nature Publishing Company, Indianapolis, Ind.
- Collem. Minn.** — Collembola of Minnesota, by Joseph E. Guthrie, Zoological Series IV, Geological and Natural History Survey of Minnesota.
- Compl. Writ.** — Complete Writings on the Entomology of North America, by Thomas Say. 2 vols.
- Comst. Butt.** — How to Know the Butterflies, by J. H. and A. B. Comstock. D. Appleton & Co., New York, N. Y.
- Conn. Geol. Nat. Hist. Surv.** — Connecticut Geological and Natural History Survey. Hartford, Conn. Begun in 1903.
- Cornell Agr. Expt. Sta.** — Cornell Agricultural Experiment Station. Ithaca, N. Y.
- Diag. N. A. Phyc.** — Diagnoses of North American Phycitidæ and Galleriidæ, by E. L. Ragonot. Paris, France. 1888.
- Dipt. Exot. (Suppl.)** — Diptères Exotiques Nouveaux ou Peu Connus, by J. Macquart. 2 vols. 5 supplements. 1838-1855. Paris, France.

- Dipt. Saund.** — *Insecta Saundersiana*, Diptera, by Francis Walker. 5 parts, London, England. 1850-1856.
- Dipt. Scand.** — *Diptera Scandinaviæ*, by J. W. Zetterstedt. London, England. 1842-1860.
- Encycl. Meth.** — *Encyclopédie Méthodique*, by A. G. Olivier. 1789-1791 et 1825. Paris, France.
- Ent. Am.** — *Entomologica Americana*. Brooklyn Entomological Society, Brooklyn, N. Y. 1885-1890.
- Ent. Cont.** — *Entomological Contributions*, by J. A. Lintner. N. Y. State Museum of Natural History, Albany, N. Y.
- Ent. Monthl. Mag.** — *The Entomologists' Monthly Magazine*. London, England. Begun in 1864.
- Ent. News.** — *Entomological News*. Philadelphia, Pa. Began in 1892.
- Ent. Rec.** — *Entomologists' Record and Journal of Variation*. London, England. Begun in 1890.
- Ent. Syst. Suppl.** — *Entomologia Systematica*. Supplement, by J. C. Fabricius.
- Enum. Hemip.** — *Enumeratio Hemipterorum*, by C. Stål, Stockholm, Sweden, 1870-1876.
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Order **THYSANURA**.Suborder **CINURA**.Family **MACHILIDÆ**.**Machilis** Latreille.

sp. probably **variabilis** Say. Pack. Guide, 9th Ed., pl. x, figs. 8 and 9.

Family **LEPISMIDÆ**.**Lepisma** Linnæus.

**quadriseriata** Packard. *Ctenolepisma*. Bristle-tail. Silverfish. Fish moth. Pack. Guide, 9th Ed., 623.

**saccharina** Linnæus. Bristle-tail. Silverfish. Bur. Ent., Bull. 4, new ser., 76.

**Thermobia** Bergroth.

**domestica** Packard. *Lepisma*. Silverfish. Bristle-tail. Fish moth. Insect Book, 382; Bur. Ent., Bull. 4, new ser., 77.

Suborder **COLLEMBOLA**.Family **SMINTHURIDÆ**.**Sminthurus** Latreille.

**hortensis** Fitch. *pruinus*. Garden flea. Rept. N. Y. State Ent., ii, 207.

Family **ENTOMOBRYIDÆ**.**Entomobrya** Rondani.

sp.

**Seira** Lubbock.

**nigromaculata** Lubbock. Collem. Minn., 36.

**Isotoma** Bourlet.

**albella** Packard. Rept. Peab. Acad. Sci., v, 32.

sp. near **palustris** Müller. Collem. Minn., 70.

sp.

sp.

## Family PODURIDÆ.

**Achorutes** Templeton.**armatus** Nicolet. Proc. U. S. Nat. Mus., 50, 491.**harveyi** Folsom. *Ibid.*, 50, 486.**nivicola** Fitch. Rept. N. Y. State Ent., ii, 203.**Neanura** MacGillivray.**muscorum** Templeton. Proc. U. S. Nat. Mus., 50, 508.**Onychiurus** Gervais.**fimetarius** Linnæus. Proc. U. S. Nat. Mus., 53, 649.

## Order ISOPTERA.

## Family TERMITIDÆ.

**Termes** Linnæus.**flavipes** Kollar. White ant. Bur. Ent., Bull. 4, new ser., 70.

## Order CORRODENTIA.

## Family PSOCIDÆ.

**Troctes** Burmeister.**divinatorius** Müller. *Atropos*. Book louse. Bur. Ent., Bull. 4, new ser., 79.**pulsatorius** Linnæus. *Clothilla*. Rept. N. Y. State. Ent., ii, 202.**Pterodela** Kolbe.**pedicularis** Linnæus. *Psocus salicis*. *Hemerobius*. Syn. Neurop. N. A., 13.**Cæcilius** Curtis.**aurantiacus** Hagen. *Psocus*. Syn. Neurop. N. A., 14.**Polypsocus** Hagen.**corruptus** Hagen. *Psocus*. Syn. Neurop. N. A., 13.**Psocus** Latreille.**confraternus** Banks. Trans. Am. Ent. Soc., xxxii, 2.**ieidy** Aaron. Proc. Acad. Nat. Sci., Phila., 1886, 15.  
sp.**Cerastipsocus** Kolbe.**venosus** Burmeister. *Psocus*. Syn. Neurop. N. A., 10.



Order **PLECOPTERA.**

## Family PERLIDÆ.

**Acroneuria** Pictet.**abnormis** Newman. Syn. Neurop. N. A. 17.**Perla** Geoffrey.**postica** Walker. Syn. Neurop. N. A., 23.**Perlesta** Banks.**placida** Hagen. Syn. Neurop. N. A., 28.**virginica** Banks. Trans. Am. Ent. Soc., xxv, 199.**Isoperla** Banks.**bilineata** Say. Syn. Neurop. N. A., 30.**Alloperla** Banks.**imbecilla** Say. Syn. Neurop. N. A., 31.**lateralis** Banks. Trans. Am. Ent. Soc., xxxvii, 337.**Tæniopteryx** Pictet.**frigida** Hagen. Syn. Neurop. N. A., 35.**Nemoura** Latreille.**perfecta** Walker. Syn. Neurop. N. A. 37.**Leuctra** Stephens.**tenella** Provancher. N. Y. State Mus., Bull. 47, 416.**Capnia** Pictet.**necydaloides** Pictet. Syn. Neurop. N. A., 32.Order **EPHEMERIDA.**

## Family EPHEMERIDÆ.

**Hexagenia** Walsh.**bilineata** Say. *Batis*. Compl. Writ., i, 203. (A.H.Mn.)**limbata** Pictet. *Batis*. *Palingenia bilineata* Say. *variabilis* Eaton. Syn. Neurop. N. A., 41.**Ephemera** Linnæus.**decora** Walker. *varia* Eaton. Insect Book, pl. xxvi, 6.**Leptophlebia** Westwood.**cupida** Say. *Batis ignava*. Syn. Neurop. N. A., 47.

**Ephemerella** Walsh.

**cornuta** Morgan. Ann. Ent. Soc. Am., iv, 114. (A.H.Mn.)

**Callibætis** Eaton.

**ferrugineus** Walsh. Trans. Am. Ent. Soc., xxvi, 250.

**Siphonurus** Eaton.

**aridus** Say. *Bætis*. Syn. Neurop. N. A., 46.

**mirus** Eaton. Can. Ent., xlvii, 248.

**typicus** Eaton. *Ibid.*, xlvii, 253.

**Heptagenia** Walsh.

**luridipennis** Burmeister. Syn. Neurop. N. A., 49.

**terminata** Walsh. *Pentagenia*. Proc. Phila., Ent. Soc., ii, 203.

Order **MALLOPHAGA**.

Biting bird lice.

Family **PHILOPTERIDÆ**.**Goniocotes** Burmeister.

**abdominalis** Piaget. *gigas* Taschenberg. Bur. Ent., Bull. 7, 32; Storrs Agr. Expt. Sta., Bull. 86, 180.

**hologaster** Nitzsch. Bur. Ent., Bull. 7, 33; Bull. 5, new ser., 192.

**Lipeurus** Nitzsch.

**heterographus** Nitzsch. Chicken head louse. Bur. Ent., Bull. 5, new ser., 231; Storrs Agr. Expt. Sta., Bull. 86, 178.

**variabilis** Nitzsch. Variable chicken louse. Bur. Ent., Bull. 5, new ser., 202.

Family **LIOTHEIDÆ**.**Menopon** Nitzsch.

**biseriatum** Piaget. Large body hen louse. Bur. Ent., Bull. 5, new ser., 212; Storrs Agr. Expt. Sta., Bull. 86, 174.

**pallidum** Nitzsch. Small body hen louse. Common biting hen louse. Bur. Ent., Bull. 5, new ser., 210; Storrs Agr. Expt. Sta., Bull. 86, 174.

**Nitschia** Denny.

**pulicaris** Nitzsch. Jour. N. Y. Ent. Soc., x, 225.

## Order NEUROPTERA.

## Family SIALIDÆ.

**Corydalis** Latreille.

**cornuta** Linnæus. Dobson. Hellgrammite. Insect Book, pl. xxiii, 15 and 16.

**Chauliodes** Latreille.

**angusticollis** Hagen. N. Y. State Mus., Bull. 68, 462.

**pecticornis** Linnæus. *Ibid.*, Bull. 68, 461: Insect Book, pl. xxxiii, 14.

**rasticornis** Rambur. N. Y. State Mus., Bull. 68, 460.

**serricornis** Say. *Ibid.*, Bull. 68, 459.

**Sialis** Latreille.

**infumata** Newman. N. Y. State Mus., Bull. 68, 448: Insect Book, pl. xxiii, 18.

## Family HEMEROBIDÆ.

**Hemerobius** Linnæus.

**humuli** Linnæus. Syn. Neurop. N. A., 205.

**stigmaterus** Fitch. *Ibid.*, 202.

**Symphorobius** Banks.

**amiculus** Fitch. *Hemerobius*. Syn. Neurop. N. A., 200.

**Micromus** Rambur.

**posticus** Walker. *Hemerobius*. Syn. Neurop. N. A., 204.

## Family CHRYSOPIDÆ.

**Chrysopa** Leach.

**harrisi** Fitch. Trans. Am. Ent. Soc., xxix, 155.

**nigricornis** Burmeister. Insect Book, pl. xxvi, 2.

**oculata** Say. *Ibid.*, 223.

## Family MYRMELEONIDÆ.

**Myrmeleon** Linnæus.

**immaculatus** DeGeer. Insect Book, pl. xxv, 2.

**Brachynemurus** Hagen.

**abdominalis** Say. Insect Book, pl. xxvi, 11.

## Family ASCALAPHIDÆ.

**Colobopterus** Rambur.

**excisus** Hagen. Can. Ent., xix, 153. (H. J. G.)

Order **MECOPTERA**.

## Family PANORPIDÆ.

**Panorpa** Linnæus.

**americana** Swederus. Bull. Sci. Lab., Denison Univ., xi, 250.

**confusa** Westwood. *Ibid.*, xi, 251.

**maculosa** Hagen. *Ibid.*, xi, 247.

**nebulosa** Westwood. *Ibid.*, xi, 247.

**rufescens** Rambur. Insect Book, pl. xxiii, 10.

**Bittacus** Latreille.

**stigmaterus** Say. Bull. Sci. Lab., Denison Univ., xi, 260.

Order **TRICHOPTERA**.

## Family PHRYGANEIDÆ.

**Phryganea** Linnæus.

**cinerea** Walker. Syn. Neurop. N. A., 252.

**interrupta** Say. Compl. Writ., i, 98.

**Neuronia** Leach.

**angustipennis** Hagen. Verh. Zool-Bot. Ges. Wien., 1873, 400.

**concatenata** Walker. *Phryganea irrorata*. Syn. Neurop.  
N. A., 249.

**postica** Walker. *Ibid.*, 251.

**stygipes** Hagen. Verh. Zool-Bot. Ges. Wien., 1873, 388.

## Family LIMNEPHILIDÆ.

**Limnephilus** Leach.

**despectus** Walker. Syn. Neurop. N. A., 259.

**indivisus** Walker. *Ibid.*, 260.

**submonilifer** Walker. *Ibid.*, 260.

**Platycentropus** Ulmer.

**maculipennis** Kolenati. *Hallesus hostis*. Syn. Neurop. N. A., 266.

**Pycnopsyche** Banks.

**scabripennis** Rambur. *Hallesus*. Syn. Neurop. N. A., 265.

**Dicosmœcus** McLachlan.

**argus** Harris. Entomological Correspondence, 333.

**Stenophylax** Kolenati.

**divergens** Walker. *Limnephilus*. Syn. Neurop. N. A., 255.

**Chilostigma** McLachlan.

**difficilis** Walker. *Limnephilus*. Syn. Neurop. N. A., 268.

## Family RHYACOPHILIDÆ.

**Chimarrhia** Leach.

**aterrima** Hagen. Syn. Neurop. N. A., 297.

## Family SERICOSTOMATIDÆ.

**Helicopsyche** Hagen.

**borealis** Hagen. *Notidobia*. Syn. Neurop. N. A., 271.

## Family LEPTOCERIDÆ.

**Leptocerus** Leach.

sp.

**Æcetina** Banks.

**avara** Banks. Trans. Am. Ent. Soc. xxii, 316.

**incerta** Walker. *Leptocerus*. Syn. Neurop. N. A., 278.

sp. ?

**Mystacides** Latreille.

**nigra** Linnæus. *Leptocerus*. Syn. Neurop. N. A., 277.

**sepulchralis** Walk. *Leptocerus*. *Ibid.*, 277.

**Setodes** Rambur.

**grandis** Banks. Proc. Wash. Ent. Soc. viii, 128.

## Family HYDROPSYCHIDÆ.

**Macronema** Pictet.

**zebrata** Hagen. Insect Book, pl. xxiii, 9.

**Hydropsyche Pictet.**

**alternans** Walker. *morosa*. Syn. Neurop. N. A., 288.

**analis** Banks. Jour. N. Y. Ent. Soc., 1903, 243.

**scalaris** Hagen. Syn. Neurop. N. A., 286.

**sordida** Hagen. *Ibid.*, 290.

sp.

## Family HYDROPTILIDÆ.

**Orthotrichia** Eaton.

**pictipes** Banks. Trans. Am. Ent. Soc., xxxvii, 359.

Order **ODONATA.**

## Dragonflies.

Family **AGRIONIDÆ.****Agrion** Fabricius.*Calopteryx* Leach.**æquabile** Say. Insect Book, pl. xlvi, 14.**amatum** Hagen. Psyche, 5, 244.**maculatum** Beauvois. Insect Book, pl. xlvi, 12.**Hetærina** Hagen.**americana** Fabricius. Insect Book, pl. xlvi, 9, 11.**Lestes** Leach.**congener** Hagen. Trans. Am. Ent. Soc., xx, 229.**disjunctus** Selys. *Ibid.*, xx, 231.**eurinus** Say. Insect Book, pl. xlvii, 11.**forcipatus** Rambur. *Ibid.*, pl. xlvi, 1, 5.**inæqualis** Walsh. Rept. Geol. Ind., 260.**rectangularis** Say. *Ibid.*, pl. xlvii, 9.**uncatus** Kirby. *Ibid.*, pl. xlviii, 3.**unguiculatus** Hagen. *Ibid.*, pl. xlvii, 15.**vigilax** Hagen. *Ibid.*, pl. xlvii, 8.**Argia** Rambur.\***mœsta** Hagen var. **putrida** Hagen. Insect Book, pl. xlvii, 10, 13.**violacea** Hagen. Trans. Am. Ent. Soc., xx, 233.**Nehalennia** Selys.**irene** Hagen. Insect Book, pl. xlvi, 3.**Amphiagrion** Selys.**saucium** Burmeister. Insect Book, pl. xlvi, 2.**Chromagrion** Needham.**conditum** Hagen. N. Y. State Mus., Bull. 68, pl. 13, 1 and 2.**Enallagma** Charpentier.**aspersum** Hagen. Trans. Am. Ent. Soc., xx, 237.**civile** Hagen. Insect Book, pl. xlvii, 12, 14.

\* See also appendix.

- carunculatum* Morse. *Psyche*, 7, 208.  
*cyathigerum* Charpentier. *amcrum*. Ent. News, xi, 154.  
*divagans* Selys. Trans. Am. Ent. Soc., xx, 238.  
*durum* Hagen. Insect Book, pl. xlvi, 13.  
*ebrium* Hagen. Rept. Geol. Ind., xxiv, 270.  
*exsulans* Hagen. Insect Book, pl. xlvi, 4, 8.  
*geminatum* Kellicott. Ent. News, vi, 239.  
*signatum* Hagen. Insect Book, pl. xlvi, 1.  
*traviatum* Selys. Rept. Geol. Ind., 1900, 271.  
*vesperum* Calvert. *pollutum*. Trans. Am. Ent. Soc., xlv, 381.

**Ischnura** Charpentier.

- posita* Hagen. Insect Book, pl. xlvi, 7.  
*verticalis* Say. *Ibid.*, pl. xlvi, 2, 3, 5.

**Anomalagrion** Selys.

- hastatum* Say. Insect Book, pl. xlvi, 16, 18.

Family ÆSCHNIDÆ.

**Hagenius** Selys.

- brevistylus* Selys. Trans. Am. Ent. Soc., xx, 241.

**Ophiogomphus** Selys.

- johannus* Needham. Can. Ent., xxix, 182.  
*rupinsulensis* Walsh. Rept. Geol. Ind., xxiv, 298.

**Lanthus** Needham.

- albistylus* Hagen. *Gomphus navius*. Trans. Am. Ent. Soc.,  
 xx, 242. (L. B. W.)

**Gomphus** Leach.

- abbreviatus* Hagen. Trans. Am. Ent. Soc., xx, 243.  
*borealis* Needham. N. Y. State Mus., Bull. 68, 265.  
*brevis* Hagen. N. Y. State Mus., Bull., 47, 449.  
*exilis* Selys. Trans. Am. Ent. Soc., xx, 243.  
*sordidus* Hagen. *lividus* Selys. Ent. News, xiv, 256.  
*spicatus* Hagen. Rept. Geol. Ind., 292, 1899.

**Dromogomphus** Selys.

- spinus* Selys. N. Y. State Mus., Bull. 47, 462.

**Cordulegaster** Leach.

- diazotops* Selys. *lateralis*. Proc. Bost. Soc. Nat. Hist., x, 211.



- erroneus* Hagen. Trans. Am. Ent. Soc., xx, 246.  
*maculatus* Selys. Insect Book, pl. xlv, 7.  
*obliquus* Say. Rept. Geol. Ind., xxiv, 300.

**Anax** Leach.

- junius* Drury. Insect Book, pl. xl, 15.

**Æshna** Fabricius.

- canadensis* Walker. Can. Ent., xl, 384.  
*clepsydra* Say. *Ibid.*, xl, 383.  
*constricta* Say. Insect Book, pl. xli, 4.  
*juncea* Linnæus. Can. Ent., xl, 385.  
*tuberculifera* Walker. Can. Ent., xl, 385.  
*umbrosa* Walker. *Ibid.*, xl, 380.  
*verticalis* Hagen. Trans. Am. Ent. Soc., xx, 248.

**Epiæschna** Selys.

- heros* Fabricius. Insect Book, pl. xli, 7.

**Boyeria** MacLachlan.

- vinosa* Say. *Fonscolombia*. Insect Book, pl. xlv, 4.

**Basiaëschna** Selys.

- janata* Say. Insect Book, pl. xlv, 1.

**Gomphæschna** Selys.

- furcillata* Say. Rept. Geol. Ind., xxiv, 302.

Family LIBELLULIDÆ

**Didymops** Rambur.

- transversa* Say. Insect Book, pl. xlv, 9.

**Epicordulia** Selys.

- princeps* Hagen. Insect Book, pl. xiv, 8.

**Helocordulia** Needham.

- uhleri* Selys. N. Y. State Mus., Bull. 47, 496.

**Tetragoneuria** Hagen.

- cynosura* Say. Trans. Am. Ent. Soc., xx, 252.  
*cynosura* var. *simulans* Muttkowski. Bull. Wis. Acad. Sci.,  
 95, 1911.  
*spinigera* Selys. Rept. Geol. Ind., 311. 1899.  
*spinosa* Hagen. N. Y. State Mus., Bull. 47, 495.

**Somatochlora Selys.\***

*elongata* Scudder, var. *minor* Calvert. Ent. News, ix, 87.  
*tenebrosa* Say. Rept. Geol. Ind., 314. 1899.

**Cordulia Leach.**

*shurtleffi* Scudder. N. Y. State Mus., Bull. 47, 506.

**Dorocordulia Needham.**

*lepida* Hagen. N. Y. State Mus., Bull. 47, 506.  
*libera* Selys. Rept. Geol. Ind., 314. 1899.

**Libellula Linnæus.**

*auripennis* Burmeister. Insect Book, pl. xlv, 6.  
*cyanea* Fabricius. *Ibid.*, pl. xlv, 2, 3.  
*exusta* Say. *Ibid.*, pl. xli, 5, 6.  
*incesta* Hagen. Insect Book, pl. xliii, 3.  
*luctuosa* Burmeister. *basalis*. *Ibid.*, pl. xliii, 2.  
*pulchella* Drury. *Ibid.*, pl. xl, 7.  
*quadrimaculata* Linnæus. *Ibid.*, pl. xl, 3.  
*semifasciata* Burmeister. *Ibid.*, pl. xlv, 5.  
*vibrans* Fabricius. *Ibid.*, pl. xl, 11.

**Plathemis Hagen.**

*lydia* Drury. *trimaculata*. Insect Book, pl. xl, 1, 5.

**Erythrodiplax Brauer.**

*berenice* Drury. *Micrathyria*. Insect Book, pl. xli, 1, 2, 3.

**Nannothemis Brauer.**

*bella* Uhler. Trans. Am. Ent. Soc., xx, 260.

**Tamea Hagen.**

*carolina* Linnæus. Insect Book, pl. xliii, 8.

**Sympetrum Newman.**

*corruptum* Hagen. *Diplax*. Insect Book, pl. xlii, 5.  
*costiferum* Hagen. *Ibid.*, pl. xlv, 8, 9.  
*rubicundulum* Say. *Diplax*. *Ibid.*, pl. xlii, 8, 9.  
*semicinctum* Say. *Diplax*. *Ibid.*, pl. xliii, 7.  
*vicinum* Hagen. *Diplax*. Trans. Am. Ent. Soc., xx, 264.

**Leucorhinia Brittinger.**

*frigida* Hagen. Trans. Am. Ent. Soc., xvii, 231. (L. B. W.)  
*glacialis* Hagen. N. Y. State Mus., Bull. 47, 518.  
*intacta* Hagen. Insect Book, pl. xlv, 5, 6.

\* See also appendix.

**Celethemis** Hagen.**elisa** Hagen. Insect Book, pl. xl, 14.**eponina** Drury. *Ibid.*, pl. xliii, 4.**monomelæna** Williamson. Ohio Nat., 10. 1910.**Perithemis** Hagen.**domitia** Drury. *tenera* Say. Insect Book, pl. xl, 4, 6.**Erythemis** Hagen.**simplicicollis** Say. *Mesothemis*. Insect Book, pl. xli. 8, 9.**Pachydiplax** Brauer.**longipennis** Burmeister. Trans. Am. Ent. Soc., xx, 265.Order **EUPLEXOPTERA**.

## Earwigs.

## Family FORFICULIDÆ.

**Anisolabis** Fieber.**maritima** Bonnel. Maritime earwig. Conn. Geol. Nat. Hist. Surv., Bull. 16, 45.**Labia** Leach.**minor** Linnæus. Conn. Geol. Nat. Hist. Surv., Bull. 16, 47.

Order **ORTHOPTERA.**

Grasshoppers, Crickets, and Cockroaches.

Family **BLATTIDÆ.****Parcoblatta** Hebard.

**pennsylvanica** DeGeer. Pennsylvania cockroach. Conn. Geol. Nat. Hist. Surv., Bull. 16, 54.

**uhleriana** Saussure. *Ibid.*, Bull. 16, 55.

**virginica** Brunner, *Ischnoptera borealis*. Proc. Acad. Nat. Sci., Phila., 44. 1910.

**Blattella** Caudell.

**germanica** Linnæus. *Ectobia*. *Phyllodromia*. Croton bug. German cockroach. Bur. Ent., Bull. 4, new ser., 92: Conn. Geol. Nat. Hist. Surv., Bull. 16, 56.

**Blatta** Linnæus.

**orientalis** Linnæus. Oriental cockroach. Bur. Ent., Bull. 4, new ser., 91: Conn. Geol. Nat. Hist. Surv., Bull. 16, 57.

**Periplaneta** Burmeister.

**americana** Linnæus. American cockroach. Bur. Ent., Bull. 4, new ser., 84: Conn. Geol. Nat. Hist. Surv., Bull. 16, 58.

**australasiæ** Fabricius. Australian cockroach. Bur. Ent., Bull. 4, new ser., 91. Conn. Geol. Nat. Hist. Surv., Bull. 16, 59.

**Nyctibora** Burmeister.

**noctivaga** Rehn. *mexicana* Saussure. In bananas. Conn. Geol. Nat. Hist. Surv., Bull. 16, 53.

**Pycnoscelus** Scudder.

**surinamensis** Linnæus. *Leucophaea*. In greenhouse. Rept. Conn. Agr. Expt. Sta., 307. 1917.

**Panchlora** Burmeister.

**cubensis** Saussure. *pocyi*. *viridis*. Green cockroach. In bunches of bananas. Conn. Geol. Nat. Hist. Surv., Bull. 16, 53.

Family **PHASMIDÆ.****Diapheromera** Gray.

**femorata** Say. Walking stick. Conn. Geol. Nat. Hist. Surv., Bull. 16, 62.

## Family MANTIDÆ.

**Tenodera** Burmeister.

*sinensis* Saussure. *Paratenodera*. Chinese praying mantis.  
Conn. Geol. Nat. Hist. Surv., Bull. 16, 60.

**Manomera** Rehn and Hebard.

*blatchleyi* Caudell. Proc. U. S. Nat. Mus., 44, 612. (A.P.M.)

## Family ACRIDIDÆ.

**Nomotettix** Morse.

*cristatus* Scudder. Crested grouse locust. Conn. Geol. Nat.  
Hist. Surv., Bull. 16, 66.

*cristatus* var. *carinatus* Scudder. *Ibid.*, Bull. 16, 67.

**Tettix** Charpentier.

*angustus* Hancock. Trans. Am. Ent. Soc., xxiii, 238. (A.P.M.)

*granulatus* Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 16, 68.

*ornatus* Say. Ornate grouse locust. *Ibid.*, Bull. 16, 67.

**Paratettix** Bolivar.

*cucullatus* Burmeister. Hooded grouse locust. Conn. Geol.  
Nat. Hist. Surv., Bull. 16, 69.

**Tettigidea** Scudder.

*parvipennis* Harris. Conn. Geol. Nat. Hist. Surv., Bull. 16, 70.

*parvipennis* var. *pennata* Morse. *Ibid.*, Bull. 16, 70.

**Eritettix** Bruner.

*carinatus* Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 75.

**Orphulella** Giglio-Tos.

*olivacea* Morse. Conn. Geol. Nat. Hist. Surv., Bull. 16, 81.

*pelidna* Burmeister. Smaller spotted-winged locust. *Ibid.*,  
Bull. 16, 79.

*speciosa* Scudder. *Ibid.*, Bull. 16, 80.

**Dicromorpha** Morse.

*viridis* Scudder. Short-winged green locust. Conn. Geol. Nat.  
Hist. Surv., Bull. 16, 76.

**Chlœaltis** Harris.

*conspersa* Harris. Sprinkled locust. Conn. Geol. Nat. Hist.  
Surv., Bull. 16, 83.

**Stenobothrus** Fischer.

*curtipennis* Harris. Short-winged brown locust. Conn. Geol.  
Nat. Hist. Surv., Bull. 16, 83.

**Mecostethus** Fieber.

- lineatus* Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 85.  
*platypterus* Scudder. *Ibid.*, Bull. 16, 86. (A. P. M.)

**Arphia** Stål.

- sulphurea* Fabricius. Sulphur-winged locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 89.  
*xanthoptera* Germar. *Ibid.*, Bull. 16, 90.

**Chortophaga** Saussure.

- viridifasciata* DeGeer. Green-striped locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 90.

**Encoptolophus** Scudder.

- sordidus* Burmeister. Clouded locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 92.

**Camnula** Stål.

- pellucida* Scudder. Clear-winged locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 92.

**Hippiscus** Saussure.

- tuberculatus* Beauvois. Coral-winged locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 94.

**Dissosteira** Scudder.

- carolina* Linnæus. Carolina locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 96.

**Spharagemon** Scudder.

- bolli* Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 99.  
*collare* Scudder, var. *scudderi* Morse. *Ibid.*, Bull. 16, 98.  
*collare* var. *wyomingianum* Thomas. Mottled sand locust. *Ibid.*, Bull. 16, 98.  
*saxatile* Morse. *Ibid.*, Bull. 16, 100.

**Scirtetica** Saussure.

- marmorata* Harris. Conn. Geol. Nat. Hist. Surv., Bull. 16, 101.

**Psinidia** Stål.

- fenestralis* Serville. Long-horned locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 103.

**Trimerotropis** Stål.

- maritima* Harris. Maritime locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 104.

**Circotettix** Scudder.

- verruculatus* Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 16, 105.

**Pseudopomala** Morse.

**brachyptera** Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 73.

**Schistocerca** Stål.

**alutacea** Harris. Leather-colored locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 108.

**americana** Drury. American locust. *Ibid.*, Bull. 16, 108.

**rubiginosa** Harris. Rusty locust. *Ibid.*, Bull. 16, 109.

**Melanoplus** Stål.

**atlanis** Riley. Lesser locust. Conn. Geol. Nat. Hist. Surv., Bull. 16, 117.

**bivittatus** Say. Yellow-striped locust. *Ibid.*, Bull. 16, 121.

**fasciatus** Walker and Barnston. *Ibid.*, Bull. 16, 119.

**femur-rubrum** DeGeer. Red-legged locust. *Ibid.*, Bull. 16, 118.

**luridus** Dodge. *Ibid.*, Bull. 16, 120.

**mancus** Smith. *Ibid.*, Bull. 16, 115.

**minor** Scudder. *Ibid.*, Bull. 16, 119.

**punctulatus** Uhler. Grizzly locust. *Ibid.*, Bull. 16, 122.

**scudderi** Uhler. Scudder's short-winged locust. *Ibid.*, Bull. 16, 116.

**Paroxya** Scudder.

**floridana** Thomas. Conn. Geol. Nat. Hist. Surv., Bull. 16, 123

## Family LOCUSTIDÆ.

**Scudderia** Stål.

**curvicauda** DeGeer. Curve-tailed katydid. Conn. Geol. Nat. Hist. Surv., Bull. 16, 127.

**furcata** Bruner. Fork-tailed katydid. *Ibid.*, Bull. 16, 128.

**pistillata** Bruner. *Ibid.*, Bull. 16, 128.

**septentrionalis** Serville. *Ibid.*, Bull. 16, 129.

**texensis** Saussure-Pictet. *Ibid.*, Bull. 16, 126.

**Amblycorypha** Stål.

**oblongifolia** DeGeer. Oblong-winged katydid. Conn. Geol. Nat. Hist. Surv., Bull. 16, 130.

**rotundifolia** Scudder. Round-winged katydid. *Ibid.*, Bull. 16, 130.

**Cyrtophyllus** Burmeister.

**perspicillatus** Linnæus. *concausus*. True katydid. Conn. Geol. Nat. Hist. Surv., Bull. 16, 131.

**Conocephalus** Thunberg.

**ensiger** Harris. Sword-bearer. Conn. Geol. Nat. Hist. Surv., Bull. 16, 133.

**exiliscanorus** Davis. *Ibid.*, Bull. 16, 134.

**robustus** Scudder. *Ibid.*, Bull. 16, 135.

**triops** Linnæus. *Ibid.*, Bull. 16, 135.

**Orchelimum** Serville.

**concinnum** Scudder. *herbaceum*. Conn. State Geol. Nat. Hist. Surv., Bull. 16, 139.

**gladiator** Bruner. Can. Ent., xxiii, 71.

**vulgare** Harris. Common meadow grasshopper. Conn. Geol. Nat. Hist. Surv., Bull. 16, 139.

**Xiphidium** Serville.

**brevipenne** Scudder Short-winged meadow grasshopper. Conn. Geol. Nat. Hist. Serv., Bull. 16, 137.

**ensiferum** Scudder. *Ibid.*, Bull. 16, 137. (W. S. B.)

**fasciatum** DeGeer. Slender meadow grasshopper. *Ibid.*, Bull. 16, 137.

**spartinæ** Fox. Ent. News, xxiii, 1111. (A.P.M.)

**Atlanticus** Scudder.

**dorsalis** Burmeister. Conn. Geol. Nat. Hist. Surv., Bull. 16, 141.

**pachymerus** Burmeister. *Ibid.*, Bull. 16, 141.

**Ceutophilus** Scudder.

**brevipes** Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 145.

**gracilipes** Haldeman. *Ibid.*, Bull. 16, 143.

**grandis** Scudder. *Ibid.*, Bull. 16, 144.

**latens** Scudder. *Ibid.*, Bull. 16, 146.

**maculatus** Harris. *Ibid.*, Bull. 16, 145.

**neglectus** Scudder. *Ibid.*, Bull. 16, 147.

**pallidipes** Walker. *Ibid.*, Bull. 16, 146.

**terrestris** Scudder. *Ibid.*, Bull. 16, 144.



## Family GRYLLIDÆ.

**Gryllotalpa** Linnæus.

**borealis** Burmeister. Northern mole cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 149.

**Tridactylus** Olivier.

**terminalis** Uhler. Conn. Geol. Nat. Hist. Surv., Bull. 16, 150.

**Nemobius** Serville.

**carolinus** Scudder. Conn. Geol. Nat. Hist. Surv., Bull. 16, 152.

**fasciatus** DeGeer. *vittatus*. Small black cricket. Striped ground cricket. *Ibid.*, Bull. 16, 151.

**griseus** Walker. Can. Ent., xxxiv, 182.

**maculatus** Blatchley. Orthop. Ind., 424.

**palustris** Blatchley. Marsh ground cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 152.

**Gryllus** Linnæus.

**abbreviatus** Serville. Common field cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 154.

**domesticus** Linnæus. House cricket. Conn. Geol. Nat. Hist. Surv., 16, 154.

**pennsylvanicus** Burmeister. Pennsylvania field cricket. *Ibid.*, Bull. 16, 154.

**Œcanthus** Serville.

**angustipennis** Fitch. Narrow-winged tree cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 158.

**exclamationis** Davis. *Ibid.*, Bull. 16, 158.

**nigricornis** Walker. *fasciatus* Fitch. Striped tree cricket. *Ibid.*, Bull. 16, 159.

**niveus** DeGeer. Snowy tree cricket. *Ibid.*, Bull. 16, 157.

**pini** Beutenmüller. Pine tree cricket. *Ibid.*, Bull. 16, 160.  
(W. B.)

**quadripunctatus** Beutenmüller. Four-spotted tree cricket. *Ibid.*, Bull. 16, 159.

**Anaxipha** Saussure.

**exigua** Say. Conn. Geol. Nat. Hist. Surv., Bull. 16, 162.

**Xabea** Walker.

**bipunctatus** DeGeer. Two-spotted tree cricket. Conn. Geol. Nat. Hist. Surv., Bull. 16, 161.

Order **THYSANOPTERA** (PHYSOPODA).Family **ÆOLOTHRIPIDÆ**.**Æolothrips** Haliday.

**fasciatus** Linnæus. *Coleothrips trifasciata*. Proc. U. S. Nat. Mus., xxvi, 127.

Family **THRIPIDÆ**.**Euthrips** Targioni-Tozzetti.

**tritici** Fitch. *Thrips*. Wheat thrips. Proc. U. S. Nat. Mus., xxvi, 148.

**Anaphothrips** Uzel.

**striatus** Osborn. Grass thrips. Proc. U. S. Nat. Mus., xxvi, 161.

**Heliothrips** Haliday.

**femoralis** Heeger. *cestri*. Proc. U. S. Nat. Mus., xxvi, 172.  
**hæmorrhoidalis** Bouché. *Ibid.*, xxvi, 168.

**Parthenothrips** Uzel.

**dracænæ** Heeger. Proc. U. S. Nat. Mus., xxvi, 176.

**Thrips** Linnæus.

**perplexus** Beach. Proc. U. S. Nat. Mus., xxvi, 184.  
**tabaci** Lindeman. Onion thrips, *Ibid.*, xxvi, 179: Rept. Conn. Agr. Expt. Sta., 1903, 266.

Family **PHLÆOTHRIPIDÆ**.**Anthothrips** Uzel.

**verbasci** Osborn. Proc. U. S. Nat. Mus., xxvi, 189.  
sp.

**Liothrips** Uzel.

**citricornis** Hood. Can. Ent., xl, 306.

**Leptothrips** Hood.

**aspersus** Hinds. *Cryptothrips*. Proc. U. S. Nat. Mus., xxvi, 265.

Order **HEMIPTERA.**

Bugs, Lice, Aphids, Scale Insects, etc.

Suborder **PARASITICA.**Family **PEDICULIDÆ.****Pediculus** Linnæus.**corporis** DeGeer. *vestimenti* Leach. Body-louse of man. Bur. Ent. Bull. 5, new series.**humanus** Linnæus. *capitis*. Head-louse of man. *Ibid.*, 166.**Phthirus** Leach.**pubis** Linnæus. *inguinalis* Leach. Crab-louse of man. Bur. Ent., Bull. 5, new series, 165.**Hæmatopinus** Leach.**eurysternus** Nitzsch. Short-nosed ox-louse. Bur. Ent., Bull. 5, new series, 172.**Linognathus** Enderlein.**piliferus** Burmeister. Sucking dog-louse. Bur. Ent., Bull. 5, new series, 169.**vituli** Linnæus. Long-nosed ox-louse. *Ibid.*, 176.Suborder **HOMOPTERA.**Family **FULGORIDÆ.****Scolops** Schaum.**angustatus** Uhler. Bull. Geol. Geog. Surv., I, 350.**sulcipes** Say. Compl. Writ., ii, 254.**Phylloscelis** Germar.**atra** Germar. Proc. Acad. Nat. Sci. Phila., 1907, 472.**atra** var. **albovenosa** Millichar. *Ibid.*, 1907, 472.**Elidiptera** Spinola.*Helicoptera* Amyot and Serville.**variegata** Van Duzee. Proc. Acad. Nat. Sci. Phila., 1907, 479. sp.

**Catonia Uhler.**

*grisea* Van Duzee. Proc. Acad. Nat. Sci. Phila., 1907, 480, 482.  
*impunctata* Fitch. *Myndus*. *Ibid.*, 1907, 480, 482.

**Oliarus Stål.**

*cinnamomeus* Provancher. Proc. Acad. Nat. Sci. Phila., 1907,  
 485, 488.  
*complectus* Ball. *Ibid.*, 1907, 485, 488.  
*humilis* Say. *Ibid.*, 1907, 485, 488.

**Cixius Latreille.**

*basalis* Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 191.  
*colæpeum* Fitch. Proc. Acad. Nat. Sci. Phila., 1907, 489, 490.  
*misellus* Van Duzee. (erroneously *stigmaticus*) Can. Ent.,  
 xxxviii, 408.  
*pini* Fitch. *Ibid.*, xxxviii, 408.

**Æcleus Stål.**

*borealis* Van Duzee. Bull. Buff. Soc. Nat. Sci., x, 495.  
*campestris* Ball. Can. Ent., xxxiv, 156.  
*decens* Stål. Berl. Ent., Zeitschr., vi, 307.

**Myndus Stål.**

*fulvus* Osborn. Ohio Nat., iv, (2) 46.

**Bruchomorpha Newman.**

*oculata* Newman. Can. Ent., xxi, 7.

**Acanalonia Spinola.***Amphiscepa* Uhler.

*bivittata* Say. *Flata*. Insect Book, Pl. xxviii, 20. Compl.  
 Writ., ii, 255.

**Ormenis Stål.**

*pruinosa* Say. *Flata*. Insect Book, Pl. xxvii, 28. Compl.  
 Writ., ii, 373.  
*septentrionalis* Spinola. Insect Book, Pl. xxvii, 24, 27; Ann.  
 Soc. Ent. France, Ser. i, viii, 1839.

**Lamenia Stål.**

*obscura* Ball. Can. Ent. xxxiv, 262.  
*vulgaris* Fitch. Cat. Ins. N. Y., 47, 1851.

**Otiocerus Kirby.**

*amyoti* Fitch. Ins. N. Y., iii, 394.  
*degeerii* Kirby. Trans. Linn. Soc. London, xiii, 16.

**Stenocranus** Fieber.

**dorsalis** Fitch, var. **vittatus** Stål. (*lautus* Van Duzee.) Bull. Buff. Soc. Nat. Sci., v, 231.

**Kelisia** Fieber.

**axialis** Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 191.

**Prokelisia** Osborn.

**marginata** Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 235.

**Pissonotus** Van Duzee.

**ater** Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 190.

**Stobæra** Stål.

**tricarinata** Say. *Delphax.* Compl. Writ., ii, 255.

**Liburniella** Crawford.

**ornata** Stål. Berl. Ent. Zeitschr., vi, 315.

**Liburnia** Stål.

**campestris** Van Duzee. Bull. Buff. Soc. Nat. Sci., v, 191.

**laminalis** Van Duzee. *Ibid.*, v, 251.

**lateralis** Van Duzee. *Ibid.*, v, 253.

**lutulenta** Van Duzee. *Ibid.*, v, 191.

**pellucida** Fabricius. *Ibid.*, v, 191.

**puella** Van Duzee. *Ibid.*, v, 191.

## Family CICADELLIDÆ.\*

## Jassoidea.

**Agallia** Curtis.

**constricta** Van Duzee. Can. Ent., xxvi, 90.

**novella** Sav. Proc. Acad. Nat. Sci. Phila., 1831, 6, 309.

**quadripunctata** Provancher. Nat. Can., 1872, 4, 376.

**sanguinolenta** Provancher. *Ibid.*, 1872, 4, 376.

**Idiocerus** Lewis.

**lachrymalis** Fitch. Ohio State Univ., Bull. 22, 507, 1905.

**pallidus** Fitch. *Ibid.*, Bull. 22, 505, 1905.

**fitchi** Van Duzee. *maculipennis.* Proc. Dav. Acad. Sci., vii, 73, 127.

**provancheri** Van Duzee. Buff. Soc. Nat. Sci., Bull. 5, 194.

**scurra** Germar. *gemmisimulans* Leonard and Crosby. Jour. Econ. Ent., 8, 542.

sp.

\* See also appendix.

**Macropsis** Lewis.*Pediopsis* Burmeister.*trimaculata* Fitch. *insignis* Van Duzee. Ent. Amer., v, 172.*viridis* Fitch. Rept. N. Y. State Ent., 9, 399.*virescens* Gmelin, var. *graminea* Fabricius. Me. Agr. Expt. Sta., Bull. 239, 90.**Oncopsis** Burmeister.*cognatus* Van Duzee. Ent. Amer., vi, 225.*fitchi* Van Duzee. *fenestratus* Fitch. Rept. N. Y. State Ent., 9, 400.*minor* Fitch. Ent. Amer., vi, 228.*sobrius* Walker. *Ibid.*, vi, 223.*variabilis* Fitch. Ent. Amer., vi, 224.

sp.

**Oncometopia** Stål.*lateralis* Fabricius, var. *limbata* Say. Compl. Writ., ii, 258.**Cicadella** Latreille.*Tettigoniella* Jacoby.*gothica* Signoret, *Tettigonia*. Ohio State Univ. Bull., ser. 5, No. 21, 19.**Kolla** Distant.*bifida* Say. *Tettigonia*. Bull. Ill. State Lab. Nat. Hist., iii, 27.*tripunctata* Fitch. *Tettigonia*. Ohio State Univ. Bull., Ser. 5, No. 21, 26.**Helochara** Fitch.*communis* Fitch. Ohio State Univ. Bull., Ser. 5, No. 21, 28.**Graphocephala** Van Duzee.*Diedrocephala* Ball.*coccinea* Færster. *Tettigonia*. Bull. Ill. State Lab. Nat. Hist., iii, 23.*coccinea* var. *teliformis* Walker. Bull. Buff. Soc. Nat. Sci., ix, 214.**Dræculacephala** Ball.*angulifera* Walker. Ohio State Univ. Bull., Ser. 5, No. 21, 33, 35.*minor* Walker. Bull. Buff. Soc. Nat. Sci., ix, 214.

**mollipes** Say. *Tettigonia*. Bull. Ill. State Lab. Nat. Hist., iii, 24.  
**noveboracensis** Fitch. *Tettigonia*. *Ibid.*, iii, 24.

**Penthimia** Germar.

**americana** Fitch. Rept. N. Y. State Ent., ix, 397.

**Gypona** Germar.

**bipunctulata** Woodworth. Bull. Ill. State Lab. Nat. Hist.,  
 iii, 30.

**cinerea** Uhler. Bull. Geol. Geog. Surv., 3, 460.

**geminata** Osborn. Rept. N. Y. State Ent., xx, 513.

**melanota** Spangberg. Spec. Gyponæ, 1878, 23.

**octolineata** Say. *striata*. *flavilincata*. Bull. Ill. State Lab.  
 Nat. Hist., iii, 30.

**rugosa** Spangberg. Rept. N. Y. State Ent., 20, 513.

**scarlatina** Fitch. *Ibid.*, ix, 397.

**Stroggylocephalus** Flor.

**agrestis** Fallen. Bull. Buff. Soc. Nat. Sci., v, 197.

**Xerophlœa** Germar.

**major** Baker. Psyche, viii, 285.

**viridis** Fabricius. Proc. Iowa Acad. Sci., iv, 179.

**Acucephalus** Germar.

**albifrons** Linnæus. *Tettigonia mixta*. Compl. Writ., ii, 258.

**Parabolocratus** Fieber.

**viridis** Uhler. Bull. Geol. Geog. Surv., 3, 462, 1877.

**Mesamia** Ball.

**vitellina** Fitch. *Paramesus*. Rept. N. Y. State Ent., 9, 399.

**Scaphoideus** Uhler.

**auronitens** Provancher. Jour. Cin. Soc. Nat. Hist., xix, 194.

**carinatus** Osborn. Ohio Nat., xi, 251.

**consors** Uhler. Jour. Cin. Soc. Nat. Hist., xix, 196.

**immistus** Say. *Ibid.*, xix, 204.

**intricatus** Uhler. *Ibid.*, xix, 202.

**lobatus** Van Duzee. Ohio Nat., xi, 250.

**luteolus** Van Duzee. Jour. Cin. Soc. Nat. Hist., xix, 203.

**melanotus** Osborn. Ohio Nat., xi, 251.

**opalinus** Osborn. Rept. N. Y. State Ent., 20, 525.

**productus** Osborn. Jour. Cin. Soc. Nat. Hist., xix, 200.

**unicolor** Osborn. *consors* var. *unicolor*. *Ibid.*, xix, 196.

sp.

**Platymetopius** Burmeister.

- acutus* Say. *Jassus*. Compl. Writ., ii, 382.  
*frontalis* Van Duzee. Can. Ent., xxii, 112.  
*frontalis* var.  
*hyalinus* Osborn. Ent. News, xi, 501.  
*magdalensis* Prévancher. Tenn. State Bd. Ent., Bull. 17, 41.

**Deltocephalus** Burmeister.

- apicatus* Osborn. Me. Agr. Expt. Sta., Bull. 238, 120.  
*balli* Van Duzee. *nigrifrons*. Bur. Ent., Bull., 198, 77;  
*configuratus* Uhler. Bull. Geol. Geog. Surv., iv, 511, 1871.  
*flavicosta* Stål. *flavocostatus*. Can. Ent., xxiv, 116.  
*inimicus* Say. *Jassus*. Compl. Writ., ii, 382; Me. Agr. Expt.  
 Sta., Bull. 238, 123.  
*littoralis* Ball. Bull. Buff. Soc. Nat. Sci., ix, 221.  
*melsheimerii* Fitch. Tenn. State Bd. Ent., Bull., 17, 48.  
*minimus* Osborn and Ball. *Ibid.*, 17, 47.  
*pascuellus* Fallen. *minki* Fieber. Me. Agr. Expa. Sat., Bull.,  
 238, 118.  
*pictus* Osborn. Tenn. State Bd. Ent., Bull. 17, 43.  
*sayi* Fitch. *Ibid.*, Bull. 17, 46.  
*simplex* Van Duzee. Trans. Am. Ent. Soc., xix, 304.  
*sylvestris* Osborn and Ball. Tenn. State Bd. Ent., Bull., 17, 49.

**Driotura** Osborn and Ball.

- gammaroides* Van Duzee. Me. Agr. Expt. Sta., Bull. 238, 132.

**Euscelis** Brullé.*Athysanus* Burmeister.

- anthracinus* Van Duzee. Ohio Nat., ii, 241.  
*curtisii* Fitch. *Ibid.*, ii, 251.  
*extrusus* Van Duzee. *Ibid.*, ii, 237.  
*relativus* Gillette and Baker. *obsoletus*. *Ibid.*, ii, 239.  
*striatulus* Fallen. *plutonius* Uhler. *Ibid.*, ii, 240.  
*striolus* Fallen. *Ibid.*, ii, 235.  
*uhleri* Ball. Can. Ent., xliii, 200.  
*vaccini* Van Duzee. Ohio Nat., ii, 242.  
*varus* Ball. *Ibid.*, ii, 239.

**Eutettix** Van Duzee.

- cinctus* Osborn and Ball. Proc. Dav. Acad. Sci., xii, 64.  
*johnsoni* Van Duzee. *Mesamia*. *Ibid.*, xii, 66.



- marmoratus* Van Duzee. *Ibid.*, xii, 35.  
*seminudus* Say. *Athysanus*. *Ibid.*, xii, 42.  
*strobi* Fitch. *Ibid.*, xii, 44.

**Phlepsius** Fieber.

- collitus* Ball. Can Ent., xxxv, 227.  
*fulvidorsum* Fitch. Trans. Am. Ent. Soc., xix, 74.  
*fuscipennis* Van Duzee. *Ibid.*, xix, 70.  
*incisus* Van Duzee. *Ibid.*, xix, 73.  
*irroratus* Say. *Ibid.*, xix, 71.  
*lobatus* Osborn. Proc. Ia. Acad. Sci., v, 247.  
*majestus* Osborn and Ball. Tenn. St. Bd. Ent., Bull. 17, 76.  
*nebulosus* Van Duzee. Trans. Am. Ent. Soc., xix, 77.  
*solidaginis* Walker. *humidus*. *Ibid.*, xix, 76.

**Acinopterus** Van Duzee.

- acuminatus* Van Duzee. Psyche, vi, 308.

**Thamnottettix** Zetterstedt.

- brittoni* Osborn. Proc. Dav. Acad. Sci., x, 166.  
*clitellarius* Say. *Jassus*. Compl. Writ., ii, 384.  
*eburatus* Van Duzee. Can. Ent., xxi, 10.  
*kennicotti* Uhler. Proc. Ent. Soc. Phila., ii, 161.  
*melanogaster* Provancher. Nat. Can., iv, 378.  
*nigrifrons* Forbes. *perpunctata* Van Duzee. Ins. Ill., 14, 67.

**Chlorotettix** Van Duzee.

- balli* Osborn. Proc. Iowa Acad. Sci., v, 247.  
*galbanatus* Van Duzee. Psyche, vi, 309.  
*lusorius* Osborn and Ball. Proc. Iowa Acad. Sci., iv, 226.  
*tergatus* Fitch. Psyche, vi, 309.  
*unicolor* Fitch. *Ibid.*, vi, 308.  
*viridius* Van Duzee. *Ibid.*, vi, 309.

**Jassus** Fabricius.

- olitorius* Say. *subbifasciatus*. Jour. Acad. Nat. Sci. Phila.,  
vi, 301, 1831.

**Cicadula** Zetterstedt.

- sexnotata* Fallen. Tenn. State Bd. Ent., Bull. 17, 94.  
*variata* Fallen. *Ibid.*, Bull. 17, 95.

**Balclutha** Kirkaldy.

*impicta* Van Duzee. *Gnathodus*. Can. Ent., xxiv, 113.

*punctata* Thunberg. Me. Agr. Expt. Sta., Bull., 238, 149.

**Alebra** Fieber.

*albostriella* Fallen, var. *fulveola* Herrich-Schæffer. Proc. U. S. Nat. Mus., xx, 713.

**Dicraneura** Hardy.

*mali* Provancher. *communis* Gillette. Proc. U. S. Nat. Mus., xx, 718.

**Empoasca** Walsh.

*flavescens* Fabricius. Proc. U. S. Nat. Mus., xx, 745.

*mali* Le Baron. Apple leaf-hopper. Rept. Conn. Agr. Expt. Sta., 1904, 216.

*smaragdula* Fallen. Proc. U. S. Nat. Mus., xx, 725.

*trifasciata* Gillette. *Ibid.*, xx, 726.

*unica* Provancher. *splendida* Gillette. *Ibid.*, xx, 731.

**Typhlocyba** Germar.*Eupteryx* Curtis.

*flavoscuta* Gillette. Proc. U. S. Nat. Mus., xx, 749.

*melissæ* Curtis. *collina* Flor. Bull. Buff. Soc. Nat. Sci., x, 511.

*nigra* Osborn. Ohio State Univ., Bull. 22, 543.

**Empoa** Fitch.*Typhlocyba* Sahlberg.

*fabæ* Harris. Ins. Inj. Veg., 230.

*lethierryi* Edwards. Me. Agr. Expt. Sta., Bull., 238, 157.

*querci* Fitch. Proc. U. S. Nat. Mus., xx, 766.

*querci* Fitch, var. *gilletti* Van Duzee. *bifasciata*. Me. Agr. Expt. Sta., Bull., 238, 157.

*rosæ* Linnæus. Rose leaf-hopper, Proc. U. S. Nat. Mus., xx, 771.

*ulmi* Linnæus. Proc. U. S. Nat. Mus., xx, 769.

**Erythroneura** Fitch.

*comes* Say. Grape leaf-hopper. Proc. U. S. Nat. Mus., xx, 759.

*comes* var. *maculata* Gillette. *Ibid.*, xx, 764.

*obliqua* Say. *Ibid.*, xx, 756.

*vulnerata* Fitch. *Ibid.*, xx, 764.

## Family MEMBRACIDÆ.

**Campylenchia** Stål.**latipes** Say. *curvata* Stål. Bull. Buff. Soc. Nat. Sci., ix, 111.**Enchenopa** Amyot and Serville.**binotata** Say. Bull. Buff. Soc. Nat. Sci., ix, 112.**Ceresa** Amyot and Serville.**albescens** Van Duzee. Bull. Buff. Soc. Nat. Sci., ix, 35.  
(W.E.B.)**basalis** Walker. *turbida*. Bull. Buff. Soc. Nat. Sci., ix, 33, 39.**borealis** Fairmaire. *Ibid.*, ix, 34, 38.**brevicornis** Fitch. *Ibid.*, ix, 34, 40.**brevis** Walker. *Ibid.*, ix, 34, 40.**bubalus** Fabricius. Buffalo tree-hopper. Insect Book, Pl.  
xxvii, 18; Bull. Buff. Soc. Nat. Sci., ix, 33, 36.**constans** Walker. Bull. Buff. Soc. Nat. Sci., ix, 37. (L.B.W.)**dicerus** Say. *Ibid.*, ix, 33, 35.**palmeri** Van Duzee. *Ibid.*, ix, 38. (L.B.W.)**taurina** Fitch. *Ibid.*, ix, 34, 37.**Stictocephala** Stål.**inermis** Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 44.**lutea** Walker. *Ibid.*, ix, 43, 49.**Micrutilus** Fowler.**calva** Say. Bull. Buff. Soc. Nat. Sci., ix, 53.**dorsalis** Fitch. *Ibid.*, ix, 53. (L.B.W.)**Carynota** Fitch.**mera** Say. Bull. Buff. Soc. Nat. Sci., ix, 55, 56.**porphyrea** Fairmaire. *Ibid.*, ix, 56, 57.**stupida** Walker. *muskokensis* Goding. *Ibid.*, ix, 56.**Thelia** Amyot and Serville.**bimaculata** Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 57.**Glossonotus** Butler.**acuminatus** Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 58, 59.**cratægi** Fitch. *Ibid.*, ix, 58, 59.**godingi** Van Duzee. *Ibid.*, ix, 58, 59.**univittata** Harris. *Ibid.*, ix, 58.

**Telamona** Fitch.

- ampelopsidis Harris. Bull. Buff. Soc. Nat. Sci., ix, 63, 68.  
 barbata Van Duzee. *Ibid.*, ix, 62, 65. (L.B.W.)  
 coryli Fitch. *Ibid.*, ix, 63, 68.  
 declivata Van Duzee. *Ibid.*, ix, 61, 64.  
 decorata Ball. Proc. Wash. Biol. Soc., xvi, 179. (I.W.D.)  
 dubiosa Van Duzee. *irrorata*. Bull. Ill. St. Lab. Nat. Hist., iii,  
 418. (L.B.W.)  
 extrema Ball. Bull. Buff. Soc. Nat. Sci., ix, 64, 71. (M.P.Z.)  
 maculata Van Duzee. *Ibid.*, ix, 63, 72.  
 querci Fitch. *Ibid.*, ix, 62, 67.  
 reclinata Fitch. *Ibid.*, ix, 62, 67. (D.J.C.)  
 sinuata Fowler. *Ibid.*, ix, 63, 69. (L.B.W.)  
 subfalcata Van Duzee. *Ibid.*, x, 509. (L.B.W.)  
 tristis Fitch. *coryli*. *Ibid.*, ix, 63, 68. (H.L.V.)  
 unicolor. Fitch. *Ibid.*, ix, 64, 71.

**Smilia** Germar.

- camelus Fabricius. Bull. Buff. Soc. Nat. Sci., ix, 74.  
 camelus var. *viridis* Goding. Bull. Ill. State Lab. Nat. Hist.,  
 iii, 426.  
 sp.

**Cyrtolobus** Goding.

- cinctus Van Duzee. Bull. Buff. Soc. Nat. Sci., ix, 80, 86.  
 (L.B.W.)  
 cinereus Emmons. *Ibid.*, ix, 81, 91.  
 discoidalis Emmons. *Ibid.*, ix, 80, 90. (L.B.W.)  
 fenestratus Fitch. *Ibid.*, ix, 79, 81.  
 fuliginosus Emmons. *Ibid.*, ix, 79, 82.  
 fuscipennis Van Duzee. *Ibid.*, ix, 81, 91. (L.B.W.)  
 inermis Emmons. *Ibid.*, ix, 81, 90. (Q.S.L.)  
 intermedius Emmons. *Ibid.*, ix, 80, 90. (L.B.W.)  
 maculipennis Emmons. *Ibid.*, ix, 81, 89. (L.B.W.)  
 muticus Fabricius. *trilincatus* Say. *Xantholobus*. *Ibid.*, ix, 96.  
 ovatus Van Duzee. *Ibid.*, ix, 96.  
 sculptus Fairmaire. *Ibid.*, ix, 79, 85. (L.B.W.)  
 tuberosus Fairmaire. *Ibid.*, ix, 79, 84. (L.B.W.)  
 vau Say. *Ibid.*, ix, 80, 87.

**Aтымna** Stål.**castaneæ** Fitch. Bull. Buff. Soc. Nat. Sci., ix, 92, 93.**inornata** Say. *Ibid.*, ix, 92, 93. (L.B.W.)**querci** Fitch. *Ibid.*, ix, 92, 93.**Xantholobus** Van Duzee.**muticus** Fabricius. *trilineatus* Say. Bull. Buff. Soc. Nat. Sci., ix, 96.**Ophiderma** Fairmaire.**flava** Goding. Bull. Buff. Soc. Nat. Sci., ix, 98, 100.**flavicephala** Goding. Insect Life, v, 92. (M.P.Z.)**flaviguttula** Goding. Bull. Ill. State Lab. Nat. Hist., iii, 438.**flaviguttula** var. **definita** Woodruff. Jour. N. Y. Ent. Soc., xxvii, 259. (L.B.W.)**grisea** Woodruff. *Ibid.*, xxvii, 254. (L.B.W.)**pubescens** Emmons. Bull. Buff. Soc. Nat. Sci., ix, 99.**salamandra** Fairmaire. *Ibid.*, ix, 98, 99.**Vanduzea** Goding.**arcuata** Say. Bull. Buff. Soc. Nat. Sci., ix, 102. (L.B.W.)**Entylia** Germar.**bactriana** Germar. *carinata*. Bull. Buff. Soc. Nat. Sci., ix, 105.**Publilia** Stål.**concava** Say. Bull. Buff. Soc. Nat. Sci., ix, 106.

## Family CERCOPIDÆ.

**Monecphora** Amyot and Serville.*Tomaspis* Stål.**bicincta** Say var. **ignipecta** Fitch. Ins. N. Y., iii, 71, in Rept. Agr. Soc., 389.**Aphrophora** Germar.**parallela** Say. *Cercopis*. Compl. Writ., i, 202.**quadrinotata** Say. Compl. Writ., ii, 381.**saratogensis** Fitch. Cat. Homop. N. Y., 53, 710.**Lepyronia** Amyot and Serville.**quadrangularis** Say. Compl. Writ., ii, 256.**Philænus** Stål.**lineatus** Linnæus. Rept. N. Y. State Ent., iv, 240.

**Philaronia** Ball.

**bilineata** Say. *americanus* Baker. Can. Ent., xxix, 112.

**Clastoptera** Germar.

**obtusa** Say var. **obtusa** Ball. Compl. Writ., ii, 256.

**obtusa** var. **achatina** Germar. Cat. Homop. N. Y., 53.

**proteus** Fitch. Cat. Homop. N. Y., 54, 722.

**proteus** var. **saint-cyri** Provancher. Nat. Can., iv, 351.

**proteus** var. **pini** Fitch. Cat. Homop. N. Y., 53.

## Family CICADIDÆ.

**Tibicen** Latreille.

**auletes** Germar. Large dog day harvest fly, Jour. N. Y. Ent. Soc., xxiii, 2.

**canicularis** Harris. Dog day harvest fly, Ent. News, xviii, 126.

**linnei** Smith and Grossbeck. Ent. News, xviii, 127.

**lyricen** DeGeer. *fukula* Osborn. *Ibid.*, xviii, 125.

**lyricen** var. **englehardti** Davis. *Ibid.*, xxi, 457.

**sayi** Smith and Grossbeck. *Ibid.*, xviii, 124.

**Tibicina** Kollar.

**septendecim** Linnæus. Seventeen year locust or periodical cicada. Bur. Ent., Bull. 71; Rept. Conn. Agr. Expt. Sta., 1911, 296.

## Family PSYLLIDÆ.

**Livia** Latreille.

**maculipennis** Fitch. Psyche xix, 6.

**marginata** Patch. *Ibid.*, xix, 8.

**vernalis** Fitch. *Diraphia*. Rept. Ins. N. Y., iv, 53; Psyche, xix, 7.

**Aphalara** Færster.

**veaziei** Patch. Me. Agr. Expt. Sta., Bull. 187, 16.

**Trioza** Færster.

**tripunctata** Fitch. Rept. N. Y. State Ent., ix, 404.

**Calophya** Fr. Loew.

**flavida** Schwarz. Proc. Wash. Ent. Soc., vi, 243.

**nigripennis** Riley. *Ibid.*, vi, 244.

**Pachypsylla** Riley.

*celtidis-gemma* Riley. Proc. Wash. Biol. Soc., ii, 74.

*celtidis-mamma* Riley. *Ibid.*, ii, 73.

*celtidis-vesiculum* Riley. Am. Mus. Jour., iv, 35.

*venusta* Osten Sacken. Proc. Wash. Biol. Soc., ii, 72.

**Spanioneura** Færster.

*fonscolombii* Færster.<sup>1</sup> Verh. Zool-Bot. Ges. Wien., 1879, pl. ix, 26.

**Psylla** Geoffroy.

*annulata* Fitch. U. S. Nat. Mus., Bull. 85, 152. (W. C. W.)

*buxi* Linnaeus. Verh. Zool-Bot. Ges. Wien., 1881, 169.

*floccosa* Patch. Can. Ent., xli, 301.

*galeaformis* Patch. Me. Agr. Expt. Sta., Bull. 187, 12.

*pyricola* Færster. *pyri*. Pear psylla. Rept. Conn. Agr. Expt. Sta., 1903, 262.

*striata* Patch. Me. Agr. Expt. Sta., Bull. 187, 14.

**Psyllopsis** Fr. Loew.

*fraxinicola* Færster. U. S. Nat. Mus., Bull. 85, 132: Rept. N. Y. State Ent., xxvi, 39.

<sup>1</sup>This species on *Buxus sempervirens* has not been identified with certainty.

## Family APHIDIDÆ.

**Longistigma** Wilson.

*caryæ* Harris. *Lachnus caryæ*, *L. longistigma* Monell, *L. platanicola* Riley. Can. Ent., 41, 385.

**Ancæcia** Koch.

*corni* Fabricius. *Aphis. Schizoneura panicola* Thomas. U. S. Dept. Agr., Div. Ent., Bull. 22, 32.

**Todolachnus** Matsumura.

*pinicola* Kaltenbach. *abietis*. Fitch. 5th Rept. U. S. Ent. Com., 853.

*strobi* Fitch. Me. Agr. Expt. Sta. Bull. 202, 167.

**Calaphis** Walsh.

*betulæcolens* Fitch. *Callipterus*. Aphid. Minn., 43.

*castaneæ* Fitch. *Ibid.*, 44.

**Callipterinella** van der Goot.

*annulata* Koch. *Chaitophorus*. Jour. Econ. Ent., 10, 427.

**Euceraphis** Walker.

- betulæ* Koch. *Callipterus*. Jour. Econ. Ent., 10, 425.  
*mucida* Fitch. *Callipterus*. *Ibid.*, 425.

**Monellia** Oestlund.

- caryæ* Monell. *Callipterus*. U. S. Dept. Agr., Bull. 100, 19.  
*castalis* Fitch. Jour. Econ. Ent., 10, 424.

**Myzocallus** Passerini.

- discolor* Monell. *Callipterus*. Aphid. Minn., 41.  
*punctatellus* Fitch. *Aphis*. Jour. Econ. Ent., 10, 420.  
*ulmifolii* Monell. *Callipterus*. Aphid. Minn., 42.

**Therioaphis** Walker.

- tilliaë* Linnæus. *Aphis*. Ann. Ent. Soc. Am., 2, 33.

**Chaitophorus** Koch.

- nigræ* Oestlund. *cordata* Williams. Jour. Econ. Ent., 429.  
*viminalis* Monell. *stevensis* Sanborn. Aphid. Minn., 40.

**Neothomasia** Baker.

- bruneri* Williams. *Chaitophorus*. Univ. Studies, Lincoln, Neb.,  
 11, No. 3, reprint 6.  
*populicola* Thomas. Me. Agr. Expt. Sta., Bull. 213, 78.

**Periphyllus** Van der Hoven.

- americanus* Baker. Jour. Econ. Ent., 10, 428.  
*lyropicta* Kessler. *Ibid.*, 10, 428.

**Drepanaphis** Del Guercio.

- acerifoliaë* Thomas. *Siphonophora*. *Drepanosiphum*. Kan.  
 Univ. Sci., Bull., 3, 45.

**Drepanosiphum** Koch.

- platanoides* Schrank. *Aphis*. Jour. Econ. Ent., 2, 346.

**Phyllaphis** Koch.

- fagi* Linnæus. Beech aphid. Aphid. Minn., 32.

**Melanoxantherium** Schouteden.

- media* Baker. Jour. Econ. Ent., 10, 431.  
*smithiaë* Monell. *Melanoxanthus*. Jour. Econ. Ent., 2, 387.

**Aphis** Linnæus.

- cardui* Linnæus. *pruni*. *prunifoliaë*. Me. Agr. Expt. Sta., Bull.  
 233, 263.



- cerasifoliæ* Fitch. Choke-cherry aphid. *Ibid.*, 262.  
*davisi* Patch. Jour. Econ. Ent., 10, 418. (N. N. for *Aphis populifoliæ* Fitch of Davis, 1910.)  
*folsomi* Davis. Ent. News, 19, 145.  
*gossypii* Glover. *malvæ* Koch., *cucurbiti* Buckton. Melon aphid. Rept. Conn. Agr. Expt. Sta., 1908, 813.  
*laburni* Kaltenbach. Afid. Ital., 125.  
*maidis-radiciis* Forbes. Corn root aphid. Bur. Ent., Bull. 85, 97.  
*maidis* Fitch. Bur. Ent., Tech. Ser., 12, 144.  
*nerii* Boyer. Oleander aphid. Pom. Jour. Ent., iii, 530.  
*persicæ-niger* Smith. Black peach aphid. Jour. Econ. Ent., i, 308.  
*pomi* DeGeer. Green apple aphid. Rept. Conn. Agr. Expt. Sta., 1903, 259.  
*pseudobrassicæ* Davis. Turnip aphid. *Ibid.*, 1916. Texas Agr. Expt. Sta., Bull. 180; Rept. Conn. Agr. Expt. Sta., 1916, 98.  
*rumexicolens* Patch. Jour. Econ. Ent., 10, 417.  
*rumicis* Linnæus. Bean aphid. Aphid. Minn., 61.  
*saliceti* Kaltenbach. Jour. Econ. Ent., 10, 417.  
*sanborni* Patch. Me. Agr. Expt. Sta., Bull. 225, 52.  
*spiræcola* Patch. *spiræcella* Gillette. Me. Agr. Expt. Sta., 233, 270.  
*viburniphila* Patch. Jour. Econ. Ent., 10, 416.  
*yuccæ* Cowen. *yucciola* Williams. Yucca aphid. Hemip. Col., 122.

#### Anuraphis Del Guercio.

- malifoliæ* Fitch. *sorbi* Kaltenbach. Rosy apple aphid. Rept. Conn. Agr. Expt. Sta., 1909, 343; Thirteenth Rept. Del. Agr. Expt. Station, 1900, 149.  
*tulipæ* Boyer. *Aphis gladioli* Felt. Rept. N. Y. State Ent., 24, 19.

#### Brevicoryne Das.

- brassicæ* Linnæus. Cabbage aphid. Ins. Life, iii, 289; Cornell Univ. Agr. Expt. Sta., Bull. 300.

#### Hyalopterus Koch.

- arundinis* Fabricius. *Aphis pruni*. Jour. Econ. Ent., 2, 354.

**Rhopalosiphum** Koch.

- nymphææ** Linnæus. *Aphis. butoni, aquaticus, prunorum.*  
 Science, 42, 164. Me. Agr. Expt. Sta., Bull. 233, 263.  
**prunifoliæ** Fitch. (*avenæ* in part) *Aphid.* Minn., 65.  
**serotinæ** Oestlund. *Ibid.*, 76.

**Siphocoryne** Passerini.

- xylostei** Schrank. *Aphis.* Afid. Ital., 142.

**Amphorophora** Buckton.

- rhois** Monell. *Aphid.* Minn., 75.

**Myzus** Passerini.

- braggii** Gillette. *Capitophorus.* Jour. Econ. Ent., 8, 375.  
**cerasi** Fabricius. *Aphis.* Cherry aphid. *Aphid.* Minn., 73;  
 Me. Agr. Expt. Sta., Bull. 233, 258.  
**persicæ** Sulzer. Green peach aphid. Ins. N. Y., iii, 359.  
**ribis** Linnæus. Currant aphid. *Aphid.* Minn., 74.  
**rosarum** Kaltenbach. Me. Agr. Expt. Sta., Bull. 233, 269.  
**violæ** Pergande. *Rhopalosiphum.* Violet aphid. Can. Ent.,  
 xxxii, 29.

**Macrosiphum** Passerini.

- albifrons** Essig. Pom. Jour. Ent., 3, 543.  
**cratægi** Monell. *Siphonophora cratægi.* Me. Agr. Expt. Sta.,  
 Bull. 233, 255.  
**granarium** Kirby. Jour. Econ. Biol., viii, 58.  
**illinoiensis** Shimer. Science 41, 834.  
**lilii** Monell. *Siphonophora.* Rept. U. S. Entomologist, 1879,  
 220.  
**liriodendri** Monell. Ins. Ill., 8, 189; Jour. Econ. Ent., 4, 383.  
**luteola** Williams. *Siphonophora.* University Studies, Lincoln,  
 Nebraska, 11, No. 3, reprint 31.  
**pisi** Kaltenbach. U. S. Rept. Agr., Bull. 276.  
**rosæ** Linnæus, *Aphis rosæ.* Me. Agr. Expt. Sta., Bull. 233, 268.  
**rudbeckiæ** Fitch. *Nectarophora rudbeckiæ.* Proc. Ent. Soc.  
 Phila., i, 298; Jour. Econ. Ent., 4, 383.  
**sanborni** Gillette. *Siphonophora chrysanthemicolens* Williams.  
 Can. Ent., xl, 65.  
**solanifolii** Ashmead. *Siphonophora.* Can. Ent., xiv, 92; Me.  
 Agr. Expt. Sta., Bull. 242.

**sonchi** Linnæus. *Aphis sonchi*. Jour. Econ. Biol., viii, 64.  
**tanaceti** Linnæus. *Aphis tanacetii*. Ins. Ill., viii, 68. Jour.  
 Econ. Ent., 4, 382.

**Eriosoma** Leach.

**americana** Riley. *Schizoncurea* Hartig. Mé. Agr. Expt. Sta.,  
 Bull. 241; Bull. 256, 340 (Key). Jour. Agr. Research, 6, 359.  
**lanigera** Hausman. Woolly apple aphid. Bur. Ent., U. S.  
 Dept. Agr., Rept. No. 101; Me. Agr. Expt. Sta., Bull. 256.  
**lanuginosa** Hartig. Me. Agr. Expt. Sta., Bull. 256, 340 (Key).  
**rileyi** Thomas. Me. Agr. Expt. Sta., Bull. 256, 340 (Key).  
**ulmi** Linnæus. Jour. Agr. Research, 6, 359; Me. Agr. Expt.  
 Sta., Bull. 256, 340 (Key).

**Tetraneura** Hartig.

**graminis** Monell. *colophoides* Howard. *ulmicola* Gillette.

**Asiphum** Koch.

**pseudobyrza** Walsh. Ent. News, 25, 269.

**Prociphilus** Koch.

**approximatus** Patch. Jour. Econ. Ent., 10, 418.  
**corrugatus?** Sirrene. Jour. Agr. Research, 5, 1117.  
**imbricator** Fitch. Woolly beech aphid.  
**tessellata** Fitch. *Schizoncurea acerifolii*. "Alder blight." Jour.  
 Econ. Ent., ii, 35.

**Neoprociphilus** Patch.

**aceris** Monell. Jour. Agr. Research, 5, 1117.

**Thecabius** Koch.

**populi-condupliciformis** Cowen. *patchii* Gillette. Hemip. Col.,  
 115.

**Pemphigus** Hartig.

**populicaulis** Fitch. Me. Agr. Expt. Sta., Bull. 213, 77.

**Hormaphis** Osten Sacken.

**hamamelidis** Fitch. Aphid. Minn., 24; Bur. Ent., Tech.  
 Series, No. 9, 9.

**Hamamelistes** Shimer.

**spinus** Shimer. *papyracea*. Aphid. Minn., 19; Bur. Ent.,  
 Tech. Series, No. 9, 25.

**Chermes** Linnæus.

- abietis* Kaltenbach. Spruce gall aphid. Rept. Conn. Agr. Expt. Sta., 1906, 302; Me. Agr. Expt. Sta., Bull. 173.  
*cooleyi* Gillette. Proc. Acad. Nat. Sciences Phila., 1907, reprint, 3-14.  
*pinicorticis* Fitch. Pine bark aphid. Ins. Aff. Park & Wood. Trees, 192.  
*pinifoliæ* Fitch. *abieticolens*. Me. Agr. Expt. Sta., Bull. 173.  
*strobilobius* Kaltenbach. Woolly larch aphid. Ins. Aff. Park & Wood. Trees, 187.

**Phylloxera** Boyer.

- caryæcaulis* Fitch. Hickory gall aphid. Ins. Aff. Park and Wood. Trees, 331; Proc. Davenport Acad. Sci., 9, 243.  
*castaneæ* Haldeman. Proc. Davenport Acad. Sci., 9, 257.  
*foveola* Pergande. *Ibid.*, 9, 188.  
*rimosalis* Pergande. *Ibid.*, 9, 216.  
*vastatrix* Planchon. Grape phylloxera. Insects and Insecticides, 1st ed. 109.

## Family ALEYRODIDÆ.

**Aleurochiton** Tullgren.

- forbesii* Ashmead. *Aleurodes aceris* Forbes. Bur. Ent., Tech. Ser. 27, 88.

**Aleyrodes** Latreille.

- asarumis* Shimer. *actææ* Britton. Ent. News, xvi, 65.  
*fernaldi* Morrill. Psyche, x, 83.

**Trialeurodes** Cockerell.*Asterochiton* Quaintance and Baker.*Aleyrodes*.

- coryli* Britton. Ent. News, xviii, 337.  
*morrilli* Britton. *Ibid.*, xviii, 340.  
*packardi* Morrill. Can. Ent., xxxv, 25.  
*vaporariorum* Westwood. Greenhouse white fly. Rept. Conn. Agr. Expt. Sta., 1902, 148.  
*waldeni* Britton. Ent. News, xviii, 339.

**Tetraleurodes** Cockerell.

- mori* Quaintance, var. *maculata* Morrill. Psyche, x, 81.

## Family COCCIDÆ.

**Orthezia** Bosc d'Antic.

**insignis** Douglas. Greenhouse orthezia. Rept. Conn. Agr. Expt. Sta., 1905, 235.

**Asterolecanium** Targioni-Tozzetti.

**variolosum** Ratzeburg. Pit-making oak scale. Rept. Conn. Agr. Expt. Sta., 1905, 235.

**Kermes** Boitard.

**kingii** Cockerell. Ohio Acad. Sci., iv, part 2, 36.

**pubescens** Bogue. *Ibid.*, iv, part 2, 37.

**sassceri** King. Jour. Ent. Zool., vi, 48.

**waldeni** King. Jour. Econ. Ent., vii, 150.

**Gossyparia** Signoret.

**spuria** Modeer. *ulmi*. Elm scale. Rept. Conn. Agr. Expt. Sta., 1905, 235.

**Eriococcus** Targioni-Tozzetti.

**azaleæ** Comstock. Cornell Agr. Expt. Sta., Bull. 372, 487.

**Phenacoccus** Cockerell.

**acericola** King. Woolly maple leaf scale. Rept. Conn. Agr. Expt. Sta., 1905, 226.

**Pseudococcus** Westwood.

**adonidum** Linnæus. *Dactylopius longispinus*. Long-tailed mealy bug. Jour. Econ. Ent., ii, 431.

**citri** Risso. *Dactylopius destructor*. Common or short-tailed mealy bug. Rept. Conn. Agr. Expt. Sta., 1905, 236.

**Eriococcus** Targioni-Tozzetti.

**vitis** Linnæus. *innumerabilis*. Cottony maple scale. Jour. Econ. Ent., ii, 433.

**Coccus** Linnæus.

**hesperidum** Linnæus. *Lecanium*. Soft brown scale. In greenhouses. Jour. Econ. Ent., ii, 436.

**Toumeyella** Cockerell.

**liriodendri** Gmelin. *Eulcanium tulipifera*. Tulip tree scale. Rept. Conn. Agr. Expt. Sta., 1905, 239; Jour. Econ. Ent., ii, 447.

**Lecanium** Burmeister.

- caryæ* Fitch. Hickory Lecanium. Jour. Econ. Ent., ii, 442.  
*corni* Bouché. *armeniacum*, *canadense*, *cerasifex*. European fruit lecanium. Jour. Econ. Ent., ii, 443; Rept. Conn. Agr. Expt. Sta., 1905, 237.  
*nigrofasciatum* Pergande. Terrapin scale. Rept. Conn. Agr. Expt. Sta., 1905, 238.

**Saissetia** Deplanches.

- hemisphærica* Targioni-Tozzetti. *flicum*. Hemispherical scale. Rept. Conn. Agr. Expt. Sta., 1905, 239.

**Physokermes** Targioni-Tozzetti.

- piceæ* Schrank. Spruce scale. Can. Ent., 49, 317.

**Chionaspis** Signoret.

- americana* Johnson. White elm scale. Rept. Conn. Agr. Expt. Sta., 1905, 239.  
*caryæ* Cooley. Mass. Agr. Expt. Sta., Spec. Bull., 1899, 40.  
*corni* Cooley. *Ibid.*, Spec. Bull., 1899, 15.  
*euonymi* Comstock. Euonymus scale. Rept. Conn. Agr. Expt. Sta., 1905, 240.  
*furfura* Fitch. *harrisii*. Scurfy scale. *Ibid.*, 1903, 227.  
*lintneri* Comstock. Mass. Agr. Expt. Sta., Spec. Bull., 1899, 22.  
*pinifoliæ* Fitch. Pine leaf scale. Rept. Conn. Agr. Expt. Sta., 1905, 240.

**Hemichionaspis** Cockerell.

- aspidistræ* Signoret. In greenhouses. Mass. Agr. Expt. Sta., Spec. Bull., 1899, 45.

**Diaspis** Costa.

- boisduvalii* Signoret. In greenhouses. Ohio Acad. Sci., 1904, 52.  
*carueli* Targioni-Tozzetti. Juniper scale. Rept. U. S. Dept. Agr., 1880, 310.  
*echinocacti* Bouché, var. *cacti* Comstock. In greenhouses. Cornell Agr. Expt. Sta., Bull. 372, 552.  
*piricola* Del Guercio. *Epidiaspis*. European pear scale. Ent. News, xi, 590.

**Aulacaspis** Cockerell.

- pentagona** Targioni-Tozzetti. West Indian peach scale. Rept. Conn. Agr. Expt. Sta., 1913, 240.  
**rosæ** Bouché. *Diaspis*. Rose scale. *Ibid.*, 1905, 241.

**Leucaspis** Targioni-Tozzetti.

- japonica** Cockerell. Psyche, viii, 53.

**Aspidiotus** Bouché.

- abietis** Schrank. Hemlock leaf scale. 5th Rept. U. S. Ent. Com., 878.  
**ancylus** Putnam. Putnam's scale. Ohio Acad. Sci., 1904, 57.  
**cyanophylli** Signoret. In greenhouses. *Ibid.*, 1904, 59.  
**forbesi** Johnson. Cherry scale. Bull. Ill. State Lab. Nat. Hist., iv, 380.  
**hederæ** Vallot. *nerii*. White scale. Oleander scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 242.  
**osborni** Newell and Cockerell. Proc. Iowa Acad. Sci., v, 229.  
**ostreæformis** Curtis. European fruit scale. Bur. Ent., Bull. 20, 76.  
**perniciosus** Comstock. San José scale. Conn. Agr. Expt. Sta., Bull. 165.  
**ulmi** Johnson. Elm aspidiotus. Bull. Ill. State Lab. Nat. Hist., iv, 388.

**Chrysomphalus** Ashmead.

- aonidum** Linnæus. *ficus*. Circular scale. Fig scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 243.  
**aurantii** Maskell. Red orange scale. In greenhouses. Ohio Acad. Sci., 1904, 71.  
**dictyospermi** Morgan. Morgan's scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 244.  
**obscurus** Comstock. Report U. S. Dept. Agr., 1880, 303.

**Lepidosaphes** Shimer.

- beckii** Newman. *Mytilaspis citricola*. Purple scale. In greenhouses. Ohio Acad. Sci., 1904, 73.  
**newsteadi** Sulc. Rept. Conn. Agr. Expt. Sta., 1915, 140.  
**ulmi** Linnæus. *Mytilaspis pomorum*. Oyster-shell scale. *Ibid.*, 1903, 229.

**Ischnaspis** Douglas.

*longirostris* Signoret. *filiformis*. Thread scale. In greenhouses. Rept. Conn. Agr. Expt. Sta., 1905, 245.

**Parlatoria** Targioni-Tozzetti.

*pergandii* Comstock. Chaff scale. In greenhouses. Ohio Acad. Sci., 1904, 75.

Suborder **HETEROPTERA**.Family **CORIXIDÆ**.**Arctocorixa** Wallengren.

*alternata* Say. Compl. Writ., ii, 251.

*compressa* Abbott. Wash. Univ. Studies, ii, 81.

*compressa* var.

*interrupta* Say. Compl. Writ., ii, 250.

*kennicottii* Uhler. Trans. Md. Acad., i, 393.

*lucida* Abbott. Ent. News, xxvii, 341.

*nitida* Fieber. Bull. Brook. Ent. Soc., viii, 88, 89.

*ornata* Abbott. Ent. News, xxvii, 341.

*scabra* Abbott. Bull. Brook. Ent. Soc., viii, 88, 90.

*seriata* Abbott. Ent. News, xxvii, 342.

**Corixa** Geoffroy.

*verticalis* Fieber. Bull. Brook. Ent. Soc., viii, 89, 90.

Family **BELOSTOMATIDÆ**.**Benacus** Stål.

*griseus* Say. Insect Book, Pl. xxvii, 4.

**Lethocerus** Mayr.

*americanus* Leidy. *Belostoma*. Giant water bug. Life Hist. Amer. Insects, 4.

*obscurus* Dufour. *Belostoma*. Ann. Soc. Ent. France, 1863, 383.

**Belostoma** Latreille.

*flumineum* Say. Compl. Writ., i, 364.



## Family NEPIDÆ.

**Nepa** Linnæus.

*apiculata* Uhler. Proc. Bos. Soc. Nat. Hist., xix, 140.

**Ranatra** Fabricius.

*americana* Montandon. *quadridentata* Uhler. Can. Ent., xxxvii, 187; Insect Book, Pl. xxvii, fig. 2 (as *fusca*).

## Family NAUCORIDÆ.

**Pelocoris** Stål.

*femoratus* Beauvois. *Naucoris pocyi*. Stand. Nat. Hist., ii, 259.

## Family NOTONECTIDÆ.

**Notonecta** Linnæus.

*insulata* Kirby. Jour. N. Y. Ent. Soc., xiii, 162. (J.R.T.B.)

*irrorata* Uhler. Insect Book, Pl. xxvii, 12; Jour. N. Y. Ent. Soc., xiii, 159.

*undulata* Say. Jour. N. Y. Ent. Soc., xiii, 152.

*undulata* var. *latona* Kirkaldy.

*variabilis* Fieber. Jour. N. Y. Ent. Soc., xiii, 155.

**Plea** Leach.

*striola* Fieber. Stand. Nat. Hist., ii, 253.

## Family SALDIDÆ.

**Pentacora** Reuter.

*hirta* Say. *Salda*. Compl. Writ., i, 359.

*ligata* Say. *Salda*. *Ibid.*, i, 359.

**Salda** Fabricius.

*coriacea* Uhler. Bull. Geol. Geog. Surv. Terr., iii, (2) 436.

**Saldula** Van Duzee.

*confluenta* Say. Compl. Writ., i, 361.

*interstitialis* Say. *Salda*. Compl. Writ., ii, 248.

*pallipes* Fabricius. *Salda*. Bull. Geol. Geog. Surv. Terr., iii, (2) 446.

*reperta* Uhler. *Salda*. *Ibid.*, 446.

*saltatoria* Linnæus. Act. Soc. Sci. Fenn., xxi. (2) 15.

## Family VELIIDÆ.

**Microvelia** Westwood.

**americana** Uhler. Hemip. Col., 61.

## Family GERRIDÆ.

**Gerris** Fabricius.

**buanoi** Kirkaldy. Ent. News, xxii, 246.

**canaliculatus** Say. Compl. Writ., i, 363.

**conformis** Uhler. Trans. Am. Ent. Soc., xxxvii, 247.

**marginatus** Say. Insect Book, Pl. xxix, 38; Compl. Writ., i, 362.

**remigis** Say. *Ibid.*, Pl. xxvii, 6; Compl. Writ., i, 362.

**rufoscutellatus** Latreille. Gen. Ins., iii, 134.

**Metrobates** Uhler.

**hesperius** Uhler. Proc. Bost. Soc. Nat. Hist., xiv, 108.

## Family MIRIDÆ (CAPSIDÆ).

**Chlamydatus** Curtis.

**associatus** Uhler. Hayden's Geol. Surv. Mont., 1872, 419.

**Campylomma** Reuter.

**verbasci** Meyer. Hemip. Gymn. Eur., I (2), 53.

**Apocremnus** Fieber.

**ancorifer** Fieber. *Psallus*. Hemip. Gymn. Eur., I, 104.

**Plagiognathus** Fieber.

**annulatus** Uhler. Hemip. Col., 51.

**blatchleyi** Reuter. Ofv. Finska. Vet. Soc. Forh., liv., Afd., A, No. 7, 61.

**confusus** Reuter. Act. Soc. Sci. Fenn., xxxvi, (2) 80.

**fraternus** Uhler. Hemip. Col., 51.

**obscurus** Uhler. Hayden's Geol. Surv. Mont., 1872, 418 (C.R.E.)

**politus** Uhler. Hemip. Col., 52 (C.R.E.)

**Rhinocapsus** Uhler.

**vanduzeei** Uhler. Trans. Md. Acad., 1890, 82 (E.L.D.).

**Microphylellus** Reuter.

**modestus** Reuter. Finsk. Vet. Soc. Forh., Bd. liv., 1912, 62.

**Reuteroscopus** Kirkaldy.

**ornatus** Reuter. *Episcopus*. Ofv. Vet. Akad. Forh., 1875, 90.

**Lopus** Hahn.

**decolor** Fallen *chrysanthemi*. Hemip. Gymn. Eur., II, 287.

**Macrotylus** Fieber.

**amœnus** Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi, (2) 75.

**Halticus** Hahn.

**citri** Ashmead. *uhleri* Gerard. Garden flea hopper. Ent. Amer., iii, 155; Rept. Conn. Agr. Expt. Sta., 1904, 217.

**intermedius** Uhler. Proc. U. S. Nat. Mus., xxvii, 360.

**Strongylocoris** Blanchard.

**stygicus** Say. *Capsus*. *Stiphrosoma*. Compl. Writ., i, 344.

**Pseudoxenetes** Reuter.

**scutellatus** Uhler. *Xenctus*. Trans. Md. Acad., 1890, 80.

**Sericophanes** Reuter.

**noctuans** Knight. Ent. News, xxviii, 3; Proc. Iowa Acad. Sci., V, 238.

**Orectoderus** Uhler.

**obliquus** Uhler. Bull. U. S. Geol. Sur. Terr., ii, 320.

**Ceratocapsus** Reuter.

**fasciatus** Uhler. Bull. U. S. Geol. Surv. Terr., viii, 421 (E.L.D.).

**modestus** Uhler. *Melinna*. Ent. Amer., iii, 69. (C.R.E.)

**pumilus** Uhler. *Melinna*. *Ibid.*, iii, 69. (C.R.E.)

**Lopidea** Uhler.

**cæsar** Reuter. Nearktische Capsiden Act. Soc. Sci. Fenn., xxxvi, (2) 72.

**heidemanni** Knight. Ent. News, xxviii, 456. (H.L.J.)

**instabilis** Reuter. *Ibid.*, xxxvi, (2) 72.

**marginata** Uhler. Proc. Cal. Acad. Sci., iv, 249.

**media** Say. Compl. Writ., i, 341.

**reuteri** Knight. Ent. News, xxviii, 459. (B.H.W.)

**robinæ** Uhler. *Capsus*. Proc. Phila. Ent. Soc., i, 24.

**staphyleæ** Knight var. **sanguinea** Knight. Ent. News, xxviii, 461. (W.E.B.)

**Orthotylus** Fieber.

**catulus** Van Duzee. Proc. Cal. Acad. Sci., (4th ser) VI,  
1916, 106.

**chlorionis** Say. *Ibid.*, 1916, 98.

**cruciatus** Van Duzee. *Ibid.*, 1916, 119.

**flavosparsus** Sahlberg. *Ibid.*, 1916, 97; Hemip. Gymn. Eur.,  
1883, 360.

**uniformis** Van Duzee. Proc. Calif. Acad. Sci., Ser. 4, vi, 99.

**Ilnacora** Reuter.

**malina** Uhler. Bull. U. S. Geol. Surv. Terr., iii, 419.

**Hyaliodes** Reuter.

**vitripennis** Say. *Capsus*. Compl. Writ., i, 345.

**Dicyphus** Fieber.

**agilis** Uhler. Bull. U. S. Geol. Surv., 1877, 425.

**californicus** Stål. Freg. Eugenics Resa, Hemip., 1859, 259.

**vestitus** Uhler. Hemip. Col., 46. (E.L.D.)

**Macrolophus** Fieber.

**separatus** Uhler. *Dicyphus*. Proc. Zool. Soc. London, 1893,  
194. (C.R.E.)

**Cylapus** Say.

**tenuicornis** Say. Compl. Writ., i, 347.

**Fulvius** Stål.

**brunneus** Provancher. *Lygus*. *Pamerocoris anthocoroides*.  
U. S. Geol. Surv., Bull. iii, 1877, 425.

**Monalocoris** Dahlbom.

**filicis** Linnæus. *Cimex*. Syst. Nat., (10) 1758, 443.

**Sixeonotus** Reuter.

**insignis** Reuter. Ofv. Vet. Akad. Forh., 1875 (9) 78.

**Cimatlan** Distant.

**catulum** Uhler. Proc. Cal. Acad. Sci., (2) iv, 1894, 257.

**venatorium** Van Duzee. Bull. Buffalo Soc. Nat. Sci., X,  
1912, 479.

**Camptobrochis** Fieber.

**grandis** Uhler. Ent. Amer., ii, 230.

**nebulosus** Uhler. Hayden's Geol. Surv. Mont., 1872, 417.

*nitens* Reuter. *Nearktische Capsiden*, Act. Soc. Sci. Fenn., xxxvi, (2) 1909, 56. (C.R.E.)

*validus* Reuter var. *cunealis* Reuter. *Nearktische Capsiden*, Act. Soc. Sci. Fenn., xxxvi, 59.

**Deræocoris** Kirschbaum.

*ruber* Linnæus. *Syst. Nat.* Ed. X, 1758, 446.

*ruber* var. *danicus* Fabricius. *Syst. Ent.*, iv, 181.

*ruber* var. *segusinus* Muller. *Hemip. Gymn. Eur.*, V, 32.

**Garganus** Stal.

*fusiformis* Say. *Capsus*. *Compl. Writ.*, i, 344, 1859.

**Neurocolpus** Reuter.

*nubilus* Say. *Capsus*. *Compl. Writ.*, i, 341, 1859.

**Phytocoris** Fallen.\*

*eximius* Reuter. *Nearktische Capsiden*, Act. Soc. Sci. Fenn., xxvi, (2) 23, 1909.

*fenestratus* Reuter. *Ibid.*, xxvi, (2) 24, 1909.

*infuscatus* Reuter. *Ibid.*, xxvi, (2) 20. (C.R.E.)

*puella* Reuter. *Ibid.*, xxvi, (2) 20. (C.R.E.)

*puella* var. *confluens* Reuter. *Ibid.*, xxvi, (2) 20. (C.R.E.)

*tibialis* Reuter. *Ibid.*, xxvi, (2) 20.

**Paracalocoris** Distant.

*scrupeus* Say. *Capsus*. *Compl. Writ.*, i, 342, 1859; *Ann. Ent. Soc. Am.*, IX, 368.

**Stenotus** Jakolevsky.

*binotatus* Fabricius. *Oncognathus*. *Ins. Life*, v, 90. (O.H.)

**Adelphocoris** Reuter.

*rapidus* (Say) Reuter. *Calocoris*. *Compl. Writ.*, i, 1859, 339.

**Dichrooscytus** Fieber.

*suspectus* Reuter. *Act. Soc. Sci. Fenn.*, xxxvi, (2) 37, 1909.

**Pæciloscytus** Fieber.

*basalis* Reuter. *sericcus*. *Bull. U. S. Geol. Surv.*, iii, 422, 1875.

*venaticus* Uhler, var.

\* See also appendix.

**Pæcilocapsus** Reuter.

**lineatus** Fabricius. *Capsus 4-vittatus*. Four-lined leaf bug.  
N. Y. (Cornell) Agr. Expt. Sta. Bull., 58; Compt. Writ.,  
i, 339.

**Horcias** Distant.

**dislocatus** Say. Het. New Harmony, 21, 1832; Bull. Buffalo  
Soc. Sci., X, 483.

**dislocatus** var. **affinis** Reuter. Nearktische Capsiden, Act. Soc.  
Sci. Fenn., 41.

**dislocatus** var. **goniphorus** Say. Compl. Writ., i, 341.

**dislocatus** var. **limbatellus** Walker. Nearktische Capsiden,  
Act. Soc. Sci. Fenn., xxxvi (2), 41.

**dislocatus** var. **nigrita** Reuter. *Ibid.*, 41.

**dislocatus** var. **scutellatus** Van Duzee. Bull. Buff. Soc. Nat.  
Sci., x, 484.

**Capsus** Fabricius.

**ater** Linnæus. Hemip. Gymn. Eur., v, 1896, 15.

**ater** var. **semiflavus** Linnæus. Syst. Nat., Ed. 12, i, 725.

**Coccobaphes** Uhler.

**sanguinareus** Uhler. Proc. Bos. Soc. Nat. Hist., xix, 401, 1878.

**Tropidosteptes** Uhler.

**cardinalis** Uhler. Proc. Bos. Soc. Nat. Hist., xix, 404, 1878.

**Neoborus** Distant.

**amœnus** Reuter var. *Neoborus sarcus*. Proc. Cal. Acad. Sci.  
(2) iv.

**geminus** Say. *Capsus*. Compl. Writ., i, 344.

**palmeri** Reuter. Bemerk. u. Nearktische Capsiden, 1909, 49.

**Xenoborus** Reuter.

**pettiti** Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., 50

**Lygidea** Reuter.

**mendax** Reuter. N. Y. (Cornell) Agr. Expt. Sta., Bull. 291.

**Lygus** Hahn.

**belfragei** Reuter. Ofv. Vet. Acad. Forh., 1875, 71.

**caryæ** Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391,  
615. (B.H.W.)

**caryæ** var. **subfuscus** Knight. *Ibid.*, 616.

- campestris** Linnæus. *Orthops scutellatus*. Bull. U. S. Geol. Sur. Terr., iii, 420, 1877; Hemip. Gymn. Eur., v, 79.
- communis** Knight. Can. Ent. xlviii, 346.
- fasciatus** Reuter. Ofv. Vet. Akad. Forh., 1875, 72. (L.B.W.)
- hirticulus** Van Duzee. *tenellus*. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 633.
- inconspicuus** Knight. *Ibid.*, 612. (B.H.W.)
- invitus** Say. *Capsus*. dark var. Compt. Writ., i, 1859, 345.
- johnsoni** Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 629. (C.W.J.)
- olivaceus** Reuter. Ofv. Finska Vet. Soc. Forh., lxxix, 1907, 7.
- omnivagus** Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 627.
- nyssæ** Knight. Bull. Brook. Ent. Soc., xiii, 43.
- pabulinus** Linnæus. Hemip. Gymn. Eur., v, 114.
- pabulinus** var. **signifer** Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi, 1909, 42.
- pratensis** Linnæus. Tarnished plant bug. Rept. Conn. Agr. Expt. Sta., 1904, 218.
- pratensis** var. **oblineatus** Say. N. Y. (Cornell) Agr. Expt. Sta., Bull., 391, 564.
- rubicundus** (Uhler) Reuter. Hemip. Gymn. Eur., v, 72.
- tiliæ** Knight. N. Y. (Cornell) Agr. Expt. Sta., Bull. 391, 613. (H.L.V.)
- vanduzeei** Knight var. **rubroclarus** Knight. *Ibid.*, Bull. 391, 567.
- viburni** Knight. *Ibid.*, 609. (B.H.W.)
- vitticollis** Reuter. *monachus*. Bur. Ent., Bull. 13, old ser., 63.
- Platytyellus** Reuter.
- confraternus** Uhler. *Resthenia*. Hayden's Surv. Terr. Rept. for 1871, 411.
- insignis** Say. *Capsus*. Compl. Writ., i, 1859, 342.
- insitivus** Say. *Capsus*. *Ibid.*, i, 1859, 340.
- Trigonotylus** Fieber.
- brevipes** Jakolevsky. Act. Soc. Sci. Fenn., xxxvi, (2) 1909, 6. (C.R.E.)
- ruficornis** Fourcroy. Ent. Paris, 1785, 209; Fallen, Hem. Suec., 1829, 133.

**tarsalis** Reuter. *Callimiris*. Act. Soc. Sci. Fenn., xxxvi, (2) 1909, 6.

**uhleri** Reuter. *Callimiris*. Ofv. Vet. Akad. Forh., 1875, 60.

**Stenodema** Laporte.

**trispinosum** Reuter. *Brachytropis calcaratus*. Nearktische Capsiden, Act. Soc. Fenn., xxxvi (2) 1909, 4.

**vicinum** Provancher. *Miris instabilis affinis*. Rept. Geol. Geog. Surv., v, 1875, 836.

**Miris** Fabricius.

**dolobratus** Linnæus. Hayden's Geol. Surv. Mont., 1872, 409.

**Mesomiris** Reuter.

**curtulus** Reuter. Nearktische Capsiden, Act. Soc. Sci. Fenn., xxxvi, 5.

**Collaria** Provancher.

**meilleurii** Provancher. *Nabidea coracina*. Nat. Can., iv, 1872, 79.

**oculata** Reuter. *Trachelomiris*. Ofv. Vet. Akad. Forh., 1875 (9) 61.

Family ANTHOCORIDÆ.

**Xylocoris** Dufour.

*Piezostethus* Fieber.

**cursitans** Fallen. Ofv. Vet. Akad. Forh., 1871, 411.

**sordidus** Reuter. *Ibid.*, 560. (J.R.T.B.)

**Triphleps** Fieber.

**insidiosa** Say. Compl. Writ., i, 357.

Family CIMICIDÆ.

**Cimex** Linnæus.

**lectularius** Linnæus. Bed bug. Bur. Ent., Bull. 4, new series, 32.

**Œciacus** Stål.

**vicarius** Horvath. Barn swallow bug. Insect Book, 288; Bur. Ent., Bull. 5, new series, 161.



## Family NABIDÆ.

**Pagasa** Stål.

**fusca** Stein. Berl. Ent. Zeit., i, 90.

**Nabis** Latreille.*Reduviolus* Kirby.

**annulatus** Reuter. Ofv. Vet. Akad. Forh., xxix, 86.

**ferus** Linnæus. *Coriscus*. Syst. Nat., Ed. 10, 449.

**inscriptus?** Kirby. *Coriscus*. Can. Ent., x, 213.

**roseipennis** Reuter. *Coriscus*. Ofv. Vet. Akad. Forh., 1872, 87. (H.W.W.)

**rufusculus** Reuter. *Coriscus*. *Ibid.*, 92.

**subcoleopratus** Kirby. *Coriscus*. Insect Book, Pl. xxix, 30.

## Family MESOVELIIDÆ.

**Mesovelia** Mulsant and Rey.

**mulsanti** White. *bisignata*. Stand. Nat. Hist., ii, 273 (H.L.V.)

## Family HEBRIDÆ.

**Hebrus** Curtis.

**concinus** Uhler. *Nægeus*. Proc. Zool. Soc., Lond., 1894, 221.

## Family REDUVIIDÆ.

**Ploiaricola** Reuter.

**tuberculata** Banks. *Ploiariodes*. Psyche, xvi, 46.

**Emesa** Fabricius.

**brevipennis** Say. (*longipes* DeGeer, preoccupied.) Compl. Writ., i, 106.

**Barce** Stål.

**annulipes** Stål. Enum. Hemip., iii, 127.

**Pygolampis** Germar.

**pectoralis** Say. *Reduvius*. Compl. Writ., I, 306.

**Reduvius** Fabricius.

**personatus** Linnæus. Bur. Ent., Bull. 22, 24. (D.J.C.)

**Melanolestes** Stål.

**abdominalis** Herrich-Schæffer. Insect Book, Pl. xxxi, 38.

**picipes** Herrich-Schæffer. *Ibid.*, Pl. xxxi, 39.

**Apiomerus** Hahn.

**crassipes** Fabricius. Insect Book, Pl. xxix, 20.

**Zelus** Fabricius.

**audax** Banks. Ent. News, xxi, 325.

**exsanguis** Stål. *luridus*. Insect Book, Pl. xxix, 22; Stett. Ent. Zeit., 1862, 452.

**Pselliopus** Bergroth.*Milyas* Stål.

**cinctus** Fabricius. Insect Book, Pl. xxxi, 43.

**Fitchia** Stål.

**aptera** Stål. Ofv. Vt. Akad. Forh., 1859, 371

**Acholla** Stål.

**multispinosa** DeGeer. Mem. Ins., iii, 23.

**Sinea** Amyot and Serville.

**diadema** Fabricius. Insect Book, Pl. xxxi, 44; Jour. N. Y. Ent. Soc. ix, 3.

**spinipes** Herrich-Schæffer. Enum. Hemip., ii, 71. (L.B.W.)

## Family PHYMATIDÆ.

**Phymata** Latreille.

**erosa** Linnæus. Insect Book, 297.

**erosa** var. **fasciata** Gray. Griffith's Animal Kingdom, xv, 242. (E.L.D.)

**erosa** var. **wolfii** Stål. *pennsylvanica* Handlirsch. Insect Book, Pl. xxxi, 36.

**vicina** Handlirsch. Bull. Buff. Soc. Nat. Sci. ix, 174.

## Family PIESMIDÆ.

**Piesma** Lepeletier and Serville.

**cinera** Say. *Tingis*. Compl. Writ., i, 349.

## Family TINGIDÆ.

**Corythucha** Stål.

- arcuata* Say. *Tingis*. Insect Book, 299; Compl. Writ., i, 350.  
*ciliata* Say. *Tingis*. Compl. Writ., i, 349.  
*cratægi* Osborn and Drake. Bull. Ohio St. Univ., xx, 229.  
*juglandis* Fitch. *Tingis*. Insects N. Y., iii, 466.  
*marmorata* Uhler. *Tingis*. Proc. Bos. Soc. Nat. Hist., xix,  
 415.  
*pallipes* Parshley. Trans. Am. Ent. Soc., xlv, 82. (H.M.P.)  
*pergandei* Heidemann. Proc. Wash. Ent. Soc., viii, 10.

**Leptobyrsa** Stål.

- rhododendri* Horvath. *explanata* Heidemann. Proc. Wash.  
 Ent. Soc., x, 105.

**Gargaphia** Stål.

- angulata* Heidemann. Can. Ent., xli, 301.  
*tiliæ* Walsh. Proc. Ent. Soc. Phila., iii, 408. (L.B.W.)

**Leptostyla** Stål.

- clitoriaë* Heidemann. *heidemanni* Osborn and Drake. Proc.  
 Wash. Ent. Soc., xiii, 137.

**Physatocheila** Fieber.

- plexa* Say. Compl. Writ., i, 349. (E. L. D.)  
*variegata* Parshley. Psyche, xxiii, 166.

**Leptoypa** Stål.

- mutica* Say. Compl. Writ., i, 349.

**Melanorhopala** Stål.

- clavata* Stål. *Tingis*. Enum. Hemip., iii, 130.

**Hesperotingis** Parshley.

- antennata* Parshley. Psyche, xxiv, 21.

## Family LYGÆIDÆ.

**Oncopeltus** Stål.

- fasciatus* Dallas. Enum. Hemip., iv, 103. (G.H.H.)

**Lygæus** Fabricius.

- kalmii* Stål. Enum. Hemip., iv, 107.  
*reclivatus* Say. Compl. Writ., i, 329.

**Ortholomus Stål.**

*longiceps* Stål. Enum. Hemip., iv, 120.

**Nysius Dallas.**

*californicus* Stål. Enum. Hemip., iv, 120.

*ericæ* Schilling. *angustatus*. Insect Book, 311; Hayden's Geol. Surv. Mont., 406.

**Ischnorrhynchus Fieber.**

*geminatus* Say. *Lygæus*. Compl. Writ., I, 330.

**Cymus Hahn.**

*angustatus* Stål. Enum. Hemip., iv, 126.

*luridus* Stål. *Ibid.*, iv, 126.

**Ischnodemus Fieber.**

*falicus* Say. Compl. Writ., i, 331.

**Blissus Burmeister.**

*hirtus* Montandon. Ann. Soc. Ent. Belg., xxxvii, 405.

*leucopterus* Say. Chinch bug. Insect Book, 311; Bur. Ent., Bull. 69.

**Geocoris Fallen.**

*bullatus* Say. Compl. Writ., i, 336.

*bullatus* var. *discopterus* Stål. Enum. Hemip., iv, 136.

*uliginosus* Say var. *limbatus* Stål. *Ibid.*, iv, 136.

*uliginosus* var. *speculator* Montandon. Bull. Soc. Sci. Buc., xvi, 227.

**Isthmocoris McAtee.**

*piceus* Say. Compl. Writ., i, 336.

**Phlegyas Stål.**

*abbreviatus* Uhler. *Pcliopelta*. *Phygadicus*. Bull. Geol. Geog. Surv. Terr., ii, 313.

**Cedancala Amyot and Serville.**

*dorsalis* Say. Compl. Writ., i, 335.

**Crophius Stål.**

*disconotus* Say. Compl. Writ., i, 330.

**Myodocha Latreille.**

*serripes* Olivier. Insect Book, Pl. xxix, 23.

**Heræus Stål.**

*plebejus* Stål. Enum. Hemip., iv, 147.

**Ligyrocoris** Stål.

*diffusus* Uhler. Proc. Bos. Soc. Nat. Hist., xiv, 101.

**Perigenes** Distant.

*constrictus* Say. *fallax* Heidemann. Compl. Writ., i, 332.

*costalis* Van Duzee. Can. Ent., xli, 373.

**Orthæa** Dallas.

*basalis* Dallas. List. Hemip., ii, 575.

**Ptochiomera** Say.

*clavigera* Uhler. Hemip. Col., 24.

**Cnemodus** Herrich-Schæffer.

*mavortius* Say. Compl. Writ., i, 337.

**Pseudocnemodus** Barber.

*canadensis* Provancher. *bruneri* Barber. Jour. N. Y. Ent. Soc.,  
xix, 26.

**Ozophora** Uhler.

*picturata* Uhler. Proc. Bost. Soc. Nat. Hist., xiv, 102.

**Rhyparochromus** Curtis.

*plenus* Distant. Biol. Centr. Amer., Heterop., i, 216.

**Sphragisticus** Stål.

*nebulosus* Fallen. *Trapezonotus*. List. Hemip., ii, 564.

**Aphanus** Distant.

*plenus* Distant. Biol. Centr. Amer., Heterop., i, 409.

**Emblethis** Fieber.

*vicarius* Horvath. Ann. Mus. Nat. Hung., vi, 563.

**Eremocoris** Fieber.

*ferus* Say. *Pamra*. Compl. Writ., i, 333.

**Xestocoris** Van Duzee.

*nitens* Van Duzee. Ent. News, xvii, 390.

**Cryphula** Stål.

*parallelogramma* Stål. Enum. Hemip., iv, 165.

**Scolopostethus** Fieber.

*atlanticus* Horvath. Rev. d'Entom., xii, 239.

*thomsoni* Reuter. Ann. Soc. Ent. Fr., Ser. 5, ii, 562.

## Family NEIDIDÆ.

**Neides** Latreille.

*muticus* Say. Compl. Writ., i, 328.

**Jalysus** Stål.

*spinosus* Say. *Berytus*. Compl. Writ., i, 28.

## Family ARADIDÆ.

**Aradus** Fabricius.

*abbas* Bergroth. Bull. Soc. Ent. Belg., 1889. clxxx.

*falleni* Stål. Enum. Hemip., iii, 136. (M.P.Z.)

*quadrilineatus* Say. Compl. Writ., ii, 249.

*robustus* Uhler. Proc. Bos. Soc. Nat. Hist., xiv, 104.

*similis* Say. Compl. Writ., i, 351.

**Aneurus** Curtis.

*fiskei* Heidemann. Proc. Wash. Ent. Soc., vi, 164. (E.L.D.)

*inconstans* Uhler. Proc. Bost. Soc. Nat. Hist., xiv, 105.

## Family COREIDÆ.

**Merocoris** Pertz.*Corynocoris* Mayr.

*typhæus* Fabricius var. *distinctus* Dallas. Ent. S. st., Suppl. 537; List. Hemip., ii, 419. (L.B.W.)

**Acanthocephala** Laporte.

*terminalis* Dallas. *Metapodius*. Insect Book, Pl. xxxi, 19; Bull. Geol. Geog. Surv. Terr., ii, (5) 298.

**Euthochtha** Mayr.

*galeator* Fabricius. *Acanthocerus*. Insect Book, Pl. xxxi, 31; Syst. Rhyng., 191.

**Anasa** Amyot and Serville.

*armigera* Say. Compl. Writ., ii, 244.

*repetita* Heidemann. Proc. Wash. Ent. Soc., vii, 11.

*tristis* DeGeer. Squash bug. Rept. Conn. Agr. Expt. Sta., 1908, 811; 1919, 44.

## Family ALYDIDÆ.

**Protenor** Stål.

**belfragei** Haglund. Stett. Ent. Zeit., 1868, 162.

**Megalotomus** Fieber.

**quinquespinosus** Say. *Lygæus*. Insect Book, Pl. xxxi, 25;  
Compl. Writ., ii, 247.

**Alydus** Fabricius.

**eurinus** Say. *Lygæus*. Insect Book, Pl. xxxi, 24; Compl.  
Writ., ii, 247.

**pilosulus** Herrich-Schæffer. *Ibid.*, Pl. xxix, ii; Proc. U. S.  
Nat. Mus., xvi, 50.

## Family CORIZIDÆ.

**Harmostes** Burmeister.

**reflexulus** Say. Insect Book, Pl. xxix, 14; Compl. Writ., i,  
323.

**Corizus** Fallen.

**lateralis** Say. Ann. Ent. Soc. Am., i, 140.

**bohemani** Signoret. *nigristernum*. *Ibid.*, i, 143.

## Family PENTATOMIDÆ.

**Podops** Laporte.

**cinctipes** Say. Trans. Am. Ent. Soc., xxx, 22.

**Brochymena** Amyot and Serville.

**carolinensis** Westwood, *annulata* Fabricius. Trans. Am. Ent.  
Soc., xxx, 27.

**arborea** Say. *Ibid.*, xxx, 27.

**quadripustulata** Fabricius. *Ibid.*, xxx, 28.

**Peribalus** Mulsant and Rey.

**limbolarius** Stål. *Holcostethus*. Trans. Am. Ent. Soc., xxx,  
32.

**Trichopepla** Stål.

**semivittata** Say. Insect Book, Pl. xxx, 6; Trans. Am. Ent.  
Soc., xxx, 34.

**Rhytidolomia** Stål.

*saucia* Say. *Lioderma*. Trans. Am. Ent. Soc., xxx, 36.

*senilis* Say. *Lioderma*. *Ibid.*, xxx, 37.

**Chlorochroa** Stål.

*uhleri* Stål. *persimilis* Horvath. *Pentatoma juniperina*. *Lioderma*. Trans. Am. Ent. Soc., xxx, 39.

**Mormidea** Amyot and Serville.

*lugens* Fabricius. Insect Book, Pl. xxxi, 3; Stett. Ent. Zeit. xxiii, 103.

**Solubea** Bergroth.

*pugnax* Fabricius. *Æbalus*. Enum. Hemip., ii, 22.

**Euschistus** Dallas.

*euschistoides* Vollenhoven. *fissilis* Uhler. Trans. Am. Ent. Soc., xxx, 44.

*ictericus* Linnæus. *Ibid.*, xxx, 47.

*tristigmus* Say. *Ibid.*, xxx, 47.

*variolarius* Beauvois. Spined tobacco bug. Rept. Conn. Agr. Expt. Sta., 1906, 274.

**Cœnus** Dallas.

*delius* Say. Insect Book, Pl. xxx, 11; Compl. Writ., i, 320.

**Hymenarcys** Amyot and Serville.

*nervosa* Say. *Pentatoma*. Compl. Writ., i, 321.

**Neottiglossa** Kirby.

*undata* Say. Trans. Am. Ent. Soc., xxx, 50.

**Cosmopepla** Stål.

*bimaculata* Thomas. *carنيفer* Fabricius. Insect Book, Pl. xxxi, 6.

**Menecles** Stål.

*insertus* Say. *Pentatoma*. Compl. Writ., i, 317.

**Thyanta** Stål.

*calceata* Say. *Pentatoma*. Compl. Writ., i, 320.

*custator* Fabricius. Insect Book, Pl. xxx, fig. 17.

**Murgantia** Stål.

*histrionica* Hahn. Harlequin cabbage bug. Bur. Ent., Circ. 103. (H.L.J.)



**Acrosternum** Fieber.

**hilare** Say. Insect Book, Pl. xxxi, 10; Trans. Am. Ent. Soc., xxx, 58.

**pennsylvanicum** DeGeer. *Ibid.*, xxx, 57.

**Banasa** Stål.

**calva** Say. Insect Book, Pl. xxx, 30; Trans. Am. Ent. Soc., xxx, 59.

**dimidiata** Say. *Ibid.*, xxx, 59.

**Dendrocoris** Bergroth.

**humeralis** Uhler. *Liotropis*. Bull. Geol. Geog. Surv., xxx, 400.

**Meadorus** Mulsant and Rey.

**lateralis** Say. *Elasmucha*. Trans. Am. Ent. Soc., xxx, 73.

**Elasmostethus** Fieber.

**cruciatus** Say. *borealis* Westwood. Compl. Writ., i, 311.  
(L.B.W.)

**Stiretrus** Laporte.

**anchorago** Fabricius. Spec. Ins., ii, 341.

**Perillus** Stål.

**circumcinctus** Stål. Trans. Am. Ent. Soc., xxx, 67.

**exaptus** Say. *Ibid.*, xxx, 65.

**Mineus** Stål.

**strigipes** Herrich-Schaeffer. Trans. Am. Ent. Soc., xxx, 67.

**Apateticus** Dallas.

**bracteatus** Fitch. *Podisus*. Trans. Am. Ent. Soc., xxx, 70.

**cynicus** Say. *Podisus*. *Ibid.*, xxx, 68.

**Podisus** Herrich-Schaeffer.

**maculiventris** Say. *spinosus*. Spined soldier bug. Rept. Conn. Agr. Expt. Sta., 1908, Pl. iv, d.

**modestus** Dallas. Trans. Am. Ent. Soc., xxx, 71.

**placidus** Uhler. *Ibid.*, xxx, 71.

**serieventris** Uhler. *Ibid.*, xxx, 71.

## Family CYDNIDÆ.

**Thyreocoris** Schrank.

- ater** Amyot and Serville. *Corimelæna unicolor* Beauvois. Trans. Am. Ent., Soc., xxx, 4.  
**lateralis** Fabricius. *gilletti*. *Corimelæna*. *Ibid.*, xxx, 7.  
**nitiduloides** Wolff. *Corimelæna*. *Ibid.*, xxx, 5.  
**pulicarius** Germar. *Corimelæna*. *Ibid.*, xxx, 9.

**Amnestus** Dallas.

- pallidus** Zimmer. Can. Ent., xlii, 166.  
**pusillus** Uhler. *subferrugineus*. Trans. Am. Ent. Soc., xxx, 25. (H.L.V.)  
**spinifrons** Say. *Ibid.*, xxx, 25.

**Sehirus** Amyot and Serville.

- cinctus** Beauvois. *Canthophorus*. Bull. Geol. Geog. Surv., Terr. iii, 397.

## Family SCUTELLERIDÆ.

**Homæmus** Dallas.

- æneifrons** Say. Trans. Am. Ent. Soc., xxx, 13.

**Eurygaster** Laporte.

- alternata** Say. Trans. Am. Ent. Soc., xxx, 18.

## Order LEPIDOPTERA.

Butterflies and Moths.

Suborder HETEROCERA.  
Moths.

Family MICROPTERYGIDÆ.

**Eriocephala** Curtis.**griseocapitella** Walsingham. Ent. Rec., x, 161.

Family HEPIALIDÆ.

**Sthenopsis** Packard.**argenteomaculatus** Harris. Silver-spotted ghost moth. Moth  
Book, 443.**quadriguttatus** Grote. Proc. Phila. Ent. Soc., iii, 73; Moth  
Book, 443.

Family TINEIDÆ.

**Pseudanaphora** Walsingham.**arcanella** Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 262.**Acrolophus** Poey.**plumifrontellus** Clemens. Proc. Acad. Nat. Sci. Phila., 1859,  
261; Moth Book, 443.**Pronuba** Riley.**yuccasella** Riley. Rept. Ins. Mo., v, 150; Ins. Life, iv, 360;  
Moth Book, 441.**Pitys** Chambers.**fasciella** Chambers. Can. Ent., v, iii. (C.R.E.)**miscecrisatella** Chambers. *Ibid.*, v, iii. (C.R.E.)**Hybroma** Clemens.**servulella** Clemens. Proc. Phila. Ent. Soc., i, 137. (C.R.E.)**Cyane** Chambers.**visaliella** Chambers. Can. Ent., v, 113. (C.R.E.)

**Amadrya** Clemens.

- effrenatella* Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 260.  
*confusella* Dietz. Trans. Am. Ent. Soc., xxxi, 8. (C.R.E.)

**Homosetia** Clemens.

- costisignella* Clemens. Trans. Am. Ent. Soc., xxxi, 83.  
 (C.R.E.)

**Tinea** Linnaeus.

- acapnopennella* Clemens. Trans. Am. Ent. Soc., xxxi, 63.  
*arcella* Fabricius. *Ibid.*, xxxi, 62.  
*biflavimaculella* Clemens. *Ibid.*, x, 170. (C.R.E.)  
*carnariella* Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 256.  
 (C.R.E.)  
*dorsistrigella* Clemens. *subjunctella*. *Ibid.*, 1859, 257.  
*fuscipunctella* Haworth. *frigidella*. Trans. Am. Ent. Soc.,  
 x, 171. (C.R.E.)  
*granella* Linnaeus. *variata*. *Ibid.*, x, 171.  
*marginistrigella* Chambers. Can. Ent., v, 88. (C.R.E.)  
*obscurostrigella* Chambers. *Ibid.*, vi, 232. (C.R.E.)  
*pellionella* Linnaeus. Fur moth. Trans. Am. Ent. Soc., xxxi,  
 51: Moth Book, 433. (C.R.E.)  
*rileyi* Dietz. Trans. Am. Ent. Soc., xxxi, 59.

**Monopsis** Hübner.

- ferruginella* Hübner. *crociacapitella*. Trans. Am. Ent. Soc., x,  
 1, 170; xxxi, 33.

**Tineola** Herrich-Schäffer.

- bisselliella* Hummel. Clothes moth. Bur. Ent., Bull. 4, new  
 ser., 66: Moth Book, 432.

**Xylestia** Clemens.

- pruniramiella* Clemens. Proc. Acad. Nat. Sci. Phila., 1859, 257.  
 (C.R.E.)

**Scardia** Treitschke.

- approximatella* Dietz. Trans. Am. Ent. Soc., xxxi, 27.

**Acrolepia** Curtis.

- incertella* Chambers. *dorsimaculella*. Can. Ent., v, 174.  
 (C.R.E.)

**Argyresthia** Hübner.

- andereggiella* Duponchel. *orcasella*. Tin. N. A., 93.  
*annettella* Busek. Proc. U. S. Nat. Mus., xxxii, 12.  
*austerella* Zeller. *undulatella* Chambers. *Ibid.*, xxxii, 22.  
*freyella* Walsingham. *Ibid.*, xxxii, 11. (C.R.E.)  
*gœdartella* Linnæus. *Ibid.*, xxxii, 12. (C.R.E.)

**Swammerdamia** Hübner.

- castanæ* Busek. Proc. Wash. Ent. Soc., xvi, 148. (C.R.E.)

**Tischeria** Zeller.

- citrinipennella* Clemens. Tin. N. A., 39. (C.R.E.)  
*malifoliella* Clemens. Apple leaf-miner. Can. Ent., iii, 208;  
 Storrs Agr. Expt. Sta., Bull. 45.  
*solidaginifoliella* Clemens. Tin. N. A., 81. (C.R.E.)

**Lyonetia** Hübner.

- sp. (several species probably synonymous.)

**Philonome** Chambers.

- clemensella* Chambers. Can. Ent., vi, 97. (C.R.E.)

**Proleucoptera** Busek.

- albella* Chambers. Can. Ent., iii, 23. (C.R.E.)

**Marmara** Clemens.

- elotella* Busek. Jour. Econ. Ent., 10, 488.  
*salictella* Clemens. Proc. Phila. Ent. Soc., ii, 7. (C.R.E.)

**Leucanthiza** Clemens.

- amphicarpeæfoliella* Clemens. Tin. N. A., 85. (C.R.E.)

**Ornix** Treitschke.

- cratægifoliella* Clemens. Can. Ent., v, 48; Trans. Am. Ent.  
 Soc., xxxiii, 292. (C.R.E.)  
*kalmiella* Dietz. Trans. Am. Ent. Soc., xxxiii, 291. (C.R.E.)  
*obliterella* Dietz. *Ibid.*, xxxiii, 297. (C.R.E.)  
*præciosella* Dietz. *Ibid.*, xxxiii, 291. (C.R.E.)  
*prunivorella* Chambers. *Ibid.*, xxxiii, 294. (C.R.E.)  
*quadripunctella* Clemens. Tin. N. A., 177. (C.R.E.)

**Gracillaria** Haworth.

- alchimiella* Scopoli. *superbifrontella*. Trans. Am. Ent. Soc.,  
 x, 191.

- belfrageella Chambers. Can. Ent., vii, 92. (C.R.E.)  
 bimaculatella Ely. Insec. Insc. Menst., iii, 53. (C.R.E.)  
 blandella Clemens. Tin. N. A., 257. (C.R.E.)  
 burgessiella Zeller. Insec. Insc. Menst., iii, 51. (C.R.E.)  
 cornusella Ely. *Ibid.*, iii, 53. (C.R.E.)  
 coroniella Clemens. Tin. N. A., 243, (C.R.E.)  
 elongella Linnæus. Trans. Am. Ent. Soc., x, 193. (C.R.E.)  
 fasciella Chambers. *Ibid.*, x, 201. (C.R.E.)  
 flavella Ely. Insec. Insc. Menst., iii, 56. (C.R.E.)  
 flavimaculella Ely. *Ibid.*, iii, 57. (C.R.E.)  
 fraxinella Ely. *Ibid.*, iii, 58. (C.R.E.)  
 fulgidella Clemens. Tin. N. A., 92. (C.R.E.)  
 glutinella Ely. Insec. Insc. Menst., iii, 55. (C.R.E.)  
 juglandiella Chambers. Can. Ent., vii, 9. (C.R.E.)  
 lespedezæfoliella Clemens. *robiniella*. Tin. N. A., 144, 207.  
 (C.R.E.)  
 minimella Ely. Insec. Insc. Menst., iii, 58. (C.R.E.)  
 ostryæella Chambers. Ent. News, xxiii, 167. (C.R.E.)  
 packardella Chambers. Can. Ent., iv, 27. (C.R.E.)  
 pennsylvaniella Engel. Ent. News, xviii, 276. (C.R.E.)  
 purpuriella Chambers. Can. Ent., ix, 126. (C.R.E.)  
 quercinigrella Ely. Insec. Insc. Menst., iii, 60. (C.R.E.)  
 rhoifoliella Chambers. Can. Ent., viii, 31. (C.R.E.)  
 sassafrasella Chambers. *Ibid.*, viii, 33. (C.R.E.)  
 serotinella Ely. *Coriscium*. Ent. News, xix, 57. (C.R.E.)  
 stigmatella Fabricius. Can. Ent. xi, 74. (C.R.E.)  
 strigifinitella Clemens. Tin. N. A., 92. (C.R.E.)  
 venustella Clemens. *cupatoriella*. *Ibid.*, 92. (C.R.E.)  
 violacella Clemens. *desmodifoliella*. *Ibid.*, 93, 268. (C.R.E.)

#### Lithocolletes Hübner.

- aceriella Clemens. Tin. N. A., 65. (C.R.E.)  
 argentifimbriella Clemens. Trans. Am. Ent. Soc., xxxiv, 281.  
 (C.R.E.)  
 basistrigella Clemens. *Ibid.*, xxxiv, 308. (C.R.E.)  
 bethuniella Chambers. Can. Ent., iii, 109. (C.R.E.)  
 betulivora Walsingham. Ins. Life, ii, 326. (C.R.E.)  
 caryæalbella Chambers. Can. Ent., iii, 58. (C.R.E.)  
 caryæfoliella Clemens. Tin. N. A., 65. (C.R.E.)

- cincinnatiella* Chambers. Trans. Am. Ent. Soc., xxxiv, 329.  
(C.R.E.)
- corylisella* Chambers. *Ibid.*, xxxiv, 344. (C.R.E.)
- cratægella* Clemens. Tin. N. A., 76. (C.R.E.)
- desmodiella* Clemens. *Ibid.*, 68. (C.R.E.)
- fitchiella* Clemens. *Ibid.*, 139. (C.R.E.)
- guttifinitella* Clemens. *Ibid.*, 65. (C.R.E.)
- hamadryella* Clemens. White oak blotch leaf miner. Can.  
Ent., iii, 55.
- lentella* Braun. Trans. Am. Ent. Soc., xxxiv, 326. (C.R.E.)
- lucidicostella* Clemens. *Ibid.*, xxxiv, 281. (C.R.E.)
- nemoris* Walsingham. Ins. Life, ii, 116. (C.R.E.)
- ostryarella* Chambers. Can. Ent., iii, 111. (C.R.E.)
- picturatella* Braun. Ent. News, xxvii, 84. (C.R.E.)
- saccharella* Braun. Trans. Am. Ent. Soc., xxxiv, 327. (C.R.E.)
- salicifoliella* Clemens. Tin. N. A., 169. (C.R.E.)
- ulmella* Chambers. Can. Ent., iii, 148. (C.R.E.)

#### Bucculatrix Zeller.

- canadensisella* Chambers. Birch leaf skeletonizer. Rept.  
Conn. Agr. Expt. Sta., 1909-10, 701.
- magnella* Chambers. Can. Ent., vii, 54. (C.R.E.)
- nivella* Chambers. *Ibid.*, vii, 54. (C.R.E.)
- pomifoliella* Clemens. Apple Bucculatrix. Ribbed cocoon-  
maker. Cornell Agr. Expt. Sta., Bull. 214: Moth Book,  
431.
- sp.

#### Opostega Zeller.

- bosqueella* Chambers. Bull. Geol. Geog. Surv. Terr., iv, 106.  
(C.R.E.)
- magnella* Chambers. Can. Ent., vii, 54. (C.R.E.)
- nivella* Chambers. *Ibid.*, vii, 54. (C.R.E.)
- quadristrigella* Chambers. Cin. Quart. Jour. Sci., ii, 106.  
(C.R.E.)

#### Trifurcula Zeller.

- obrutella* Zeller. Verh. Zool.-Bot. Ges. Wien., xxiii, 316.  
(C.R.E.)

**Nepticula** Von Heyden.*amelanchierella* Clemens. Tin. N. A., 174. (C.R.E.)*virginiella* Clemens. *Ibid.*, 172. (C.R.E.)

sp.

## Family ELACHISTIDÆ.

**Walshia** Clemens.*amorphella* Clemens. Tin. N. A., 241. (C.R.E.)**Mompha** Hübner.*cephalonthiella* Chambers. Can. Ent., iii, 221. (C.R.E.)*eloisella* Clemens. Tin. N. A., 131.**Stagmatophora** Herrich-Schæffer.*ceanothiella* Cosens. Can. Ent., xl, 107.*sexnotella* Chambers. Jour. N. Y. Ent. Soc., x, 97.

sp.

**Psacaphora** Herrich-Schæffer.*passerella* Busck. Proc. Wash. Ent. Soc., xi, 95. (C.R.E.)

sp.

**Theisoa** Chambers.*constrictella* Zeller. *bifasciella*. Can. Ent., vi, 76. (C.R.E.)**Stilbosis** Clemens.*tesquella* Clemens. Tin. N. A., 129. (C.R.E.)**Antispila** Hübner.*cornifoliella* Clemens. Tin. N. A., 103. (C.R.E.)**Scythris** Hübner.*albapennella* Chambers. Can. Ent. vii, 11.*eboracensis* Zeller. Linn. Ent., x, 205.**Lymnæcia** Stainton.*phragmitiella* Stainton. Cat. Brit. Tin., Suppl., 4, 1851.**Elachista** Treitschke.*albapalpella* Chambers. Jour. Cin. Soc. Nat. Hist., viii, 240.  
(C.R.E.)*curvilineella* Chambers. Can. Ent., iv, 172. (C.R.E.)

sp.



**Erineda** Busck.**elyella** Busck. Proc. Wash. Ent. Soc., xi, 94. (C.R.E.)**Cosmopteryx** Hübner.**gemmiferella** Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 10.**Batrachetra** Stainton.**trichella** Busck. Can. Ent., xl, 196. (C.R.E.)**Coleophora** Hübner.**cratipennella** Clemens. Proc. Phila. Ent. Soc., iii, 506.  
(C.R.E.)**fletcherella** Fernald. Can. Ent., iv, 122.**laricella** Hübner. Ins. Aff. Park and Woodl. Trees, i, 170.**limosipennella** Duponchel. *Ibid.*, i, 167.**spissicornis** Haworth. *corruscipennella*. Tin. N. A., 88.  
(C.R.E.)

sp.

## Family BLASTOBASIDÆ.

**Holcocera** Clemens.**chalcfrontella** Clemens. Proc. Phila. Ent. Soc., ii, 122.  
(C.R.E.)**elyella** Dietz. Trans. Am. Ent. Soc., xxxvi, 49. (C.R.E.)**melanostriatella** Dietz. *Ibid.*, xxxvi, 66. (C.R.E.)**Valentina** Walsingham.**modestella** Clemens. *glandulella*. Trans. Am. Ent. Soc.,  
xxxvi, 33. (C.R.E.)**Pseudopigritia** Dietz.**equitella** Dietz. Trans. Am. Ent. Soc., xxvii, 112.**Pigritia** Clemens.**laticapitella** Clemens. Trans. Am. Ent. Soc., xxvii, 106.**ornatella** Dietz. *Ibid.*, xxvii, 107. (C.R.E.)

sp.

## Family CECOPHORIDÆ.

**Borkhausenia** Hübner.**ascriptella** Busck. Can. Ent., xl, 194.**shalleriella** Chambers. *Cecophora*. Cin. Quart. Jour. Sci., ii,

**Decantha** Busck.

*borkhauseni* Zeller. Verh. Zool-Bot. Ges. Wien., xxiii, 290.  
(C.R.E.)

**Œcophora** Latreille.

*newmanella* Clemens. *Dasycera*. Tin. N. A., 252.

**Gerdana** Busck.

*caritella* Busck. Pros. U. S. Nat. Mus., xxxv, 193. (C.R.E.)

**Epicallima** Dyar.

*argenticinctella* Clemens. Proc. Acad. Nat. Sci. Phila., 1860,  
167.

**Euclementia** Grote.

*bassettella* Clemens. Proc. Phila. Ent. Soc., ii, 423: Rept.  
Conn. Agr. Expt. Sta., 1916, 143.

**Semioscopsis** Hübner.

*allenella* Walsingham. Trans. Am. Ent. Soc., x, 174. (C.R.E.)

**Depressaria** Haworth.

*atrodorsella* Clemens. Proc. Acad. Nat. Sci. Phila., ii, 124.

*betulella* Busck. Proc. U. S. Nat. Mus., xxiv, 746. (C.R.E.)

*fernaldella* Walsingham. Ins. Life, i, 256.

*gracilis* Walsingham. *Ibid.*, i, 257. (C.R.E.)

*heracliana* DeGeer. *ontariella*. Can. Ent., ii, 3, 19. (C.R.E.)

*pulvipennella* Clemens. Proc. Phila. Ent. Soc., ii, 421.

*robiniella* Packard. Pack. Guide, 349.

sp. near *pallidella* Busck.

**Cryptolechia** Zeller.

*tentoriferella* Clemens. *Machima*. Tin. N. A., 148. (C.R.E.)

**Psilocorsis** Clemens.

*quercicella* Clemens. Tin. N. A. 149. (C.R.E.)

**Agnopteryx** Hübner.

*flavicomella* Engel. Ent. News, xviii, 276. (C.R.E.)

*lecontella* Clemens. Tin. N. A., 137.

*fernaldella* Walsingham. *walsinghamiella* Busck. Ins. Life, i,  
256.

## Family NYLORICTIDÆ.

**Brachyloma** Clemens.

*querciella* Busck. Proc. Wash. Ent. Soc., x, 112. (C.R.E.)

**Stenoma** Zeller.

*leucillana* Zeller; Ins. Life, ii, 153.

*schlægeri* Zeller. *Ibid.*, ii, 152.

## Family GELECHIIDÆ.

**Gelechia** Hübner.

*argentipunctella* Ely. Proc. Wash. Ent. Soc., xii, 70. (C.R.E.)

*conclusella* Walker. *crescentifasciella*. Can. Ent., vi, 237.  
(C.R.E.)

*disco-ocellella* Chambers. *Ibid.*, iv, 194. (C.R.E.)

*fluvialella* Busck. *Ibid.*, xl, 194. (C.R.E.)

*hibiscella* Busck. Proc. U. S. Nat. Mus., xxv, 869. (C.R.E.)

*maculimarginella* Chambers. Can. Ent., vi, 241. (C.R.E.)

*mediofuscella* Clemens. Proc. Phila. Ent. Soc., ii, 11, 120.

*nigrimaculella* Busck. Proc. U. S. Nat. Mus., xxv, 880.  
(C.R.E.)

*pseudoacaciella* Chambers. Can. Ent., iv, 107.

*pseudofondella* Busck. Proc. Wash. Ent. Soc., ix, 87. (C.R.E.)

*rileyella* Chambers. Can. Ent., iv, 106. (C.R.E.)

*trialbamaculella* Chambers. Cin. Quart. Jour. Sci., ii, 250.  
(C.R.E.)

*vernella* Murtfeldt. *formosella*. Can. Ent., xiii, 243. (C.R.E.)

**Anacamptis** Curtis.

*innocuella* Zeller. Proc. U. S. Nat. Mus., xxv, 845. (C.R.E.)

*rhoifruetella* Clemens. Can. Ent., iii, 68. (C.R.E.)

*tristrigella* Walsingham. Trans. Am. Ent. Soc., x, 181.

**Dichomeris** Hübner.

*herculella* Busck. Proc. Wash. Ent. Soc., xi, 89. (C.R.E.)

*marginellus* Fabricius. Juniper webworm. Rept. N. Y. State  
Ent., 26, 35; Rept. Conn. Agr. Expt. Sta., 1915, 137.

**Aproærema** Durrant.

*nigratomella* Clemens. *apicilinella*. Proc. Phila. Ent. Soc., ii,  
11, 120. (C.R.E.)

**Anarsia** Zeller.

*lineatella* Zeller. Peach twig borer. Rept. Conn. Agr. Expt. Sta., 1918, 306.

**Ypsolophus** Fabricius.

*bipunctellus* Walsingham. Trans. Am. Ent. Soc., x, 186. (C.R.E.)

*ligulellus* Hübner. *reedella*. Can. Ent. iv, 222.

*ventrellus* Fitch. Trans. N. Y. Agr. Soc., xiii, 254. (C.R.E.)

**Anorthosia** Clemens.

*punctipennella* Clemens. Can. Ent., iv, 225. (C.R.E.)

**Glyphidocera** Walsingham.

*speratella* Busck. Proc. Wash. Ent. Soc., ix, 88. (C.R.E.)

**Trichotaphe** Clemens.

*alacella* Clemens. Proc. Phila. Ent. Soc., i, 132. (C.R.E.)

*flavocostella* Clemens. *Ibid.*, i, 131.

*inversella* Zeller. Can. Ent., x, 54. (C.R.E.)

*juncidella* Clemens. *dubitella*. *Ibid.*, iv, 92. (C.R.E.)

*serrativittella* Zeller. *Ibid.*, ix, 24. (C.R.E.)

*setosella* Clemens. *costolutella*. *Ibid.*, iv, 209. (C.R.E.)

*trimaculella* Chambers. *Ibid.*, vi, 238. (C.R.E.)

*trinotella* Busck. *Ibid.*, xxxviii, 122. (C.R.E.)

**Polyhymno** Chambers.

*luteostrigella* Chambers. Can. Ent., vi, 247. (C.R.E.)

**Gnorimoschema** Busck.

*artemisiella* Kearfott. Jour. N. Y. Ent. Soc., xi, 160. (C.R.E.)

*banksiella* Busck. Proc. U. S. Nat. Mus., xxv, 832. (C.R.E.)

*gallæasteriella* Kellicott. Can. Ent., x, 203. (C.R.E.)

*gallæsolidaginis* Riley. Rept. Ins. Mo., i, 173.

*saphirinella* Chambers. Cin. Quart. Jour. Sci., ii, 250. (C.R.E.)

**Trypanisma** Clemens.

*prudens* Clemens. Tin. N. A., 125. (C.R.E.)

**Epitheatia** Meyrick.

*attributella* Walker. *difficilisella*. Can. Ent., iv, 66.

**Recurvaria** Haworth.

**apiciripunctella** Clemens. Trans. Am. Ent. Soc., x, 182.  
(C.R.E.)

**obliquestrigella** Chambers. Can. Ent., iv, 65. (C.R.E.)

**Aristotelia** Hübner.

**absconditella** Walker. Trans. Am. Ent. Soc., x, 181. (C.R.E.)

**fungivorella** Clemens. Proc. Phila. Ent. Soc., iii, 507. (C.R.E.)

**minimella** Chambers. Can. Ent., vi, 243. (C.R.E.)

**pudibundella** Zeller. *intermediella*. Verh. Zool.-Bot. Ges.  
Wien., xxiii, 273. (C.R.E.)

**quinquepunctella** Busck. Proc. U. S. Nat. Mus., xxv, 804.  
(C.R.E.)

**roseosuffusella** Clemens. Proc. Phila. Ent. Soc., ii, 121.

**rubidella** Clemens. *Ibid.*, ii, 121. (C.R.E.)

**Telphusa** Chambers.

**glandiferella** Zeller. *sella*. Can. Ent., vi, 238. (C.R.E.)

**latifasciella** Chambers. Cin. Quart. Jour. Sci., ii, 251.

**palliderosacella** Chambers. Bull. Geol. Geog. Surv. Terr., iv,  
90.

**Sitotroga** Heinemann.

**cerealella** Olivier. Angoumois grain moth. N. J. Agr. Expt.  
Sta., Bull. 147.

**Paltodora** Meyrick.

**anteliella** Busck. Proc. U. S. Nat. Mus., xxv, 778. (C.R.E.)

**cilialineella** Chambers. Can. Ent., vi, 242. (C.R.E.)

**similiella** Chambers. *Ibid.*, iv, 193. (C.R.E.)

**Ptyocerata** Ely.

**busckella** Ely. Proc. Wash. Ent. Soc., xii, 69. (C.R.E.)

**Metzneria** Zeller.

**lappella** Linnæus. Syst. Nat., 1758, 537.

## Family YPONOMEUTIDÆ.

**Yponomeuta** Latreille.

**multipunctella** Clemens. Tin. N. A., 95. (C.R.E.)

**Martyringa** Busck.

**latipennis** Walsingham. Trans. Am. Ent. Soc., x, 190.  
(C.R.E.)

**Harpiteryx** Hübner.

*xylostella* Linnæus. Contr. Nat. Hist. Lepidop. iv, 246, pl. xxviii, fig. 12.

**Plutella** Schrank.

*maculipennis* Curtis. *cruciferarum. dubiosella.* Brit. Ent., 1832, pl. 420: Can. Ent., xxi, 27. (C.R.E.)

**Choreutis** Hübner.

*inflatella* Clemens. Proc. Phila. Ent. Soc., ii, 5.

## Family TORTRICIDÆ.

**Evetria** Hübner.

*comstockiana* Fernald. Can. Ent., xi, 157.

**Polychrosis** Ragonot.

*vernoniana* Kearfott. Trans. Am. Ent. Soc., xxxiii, 7. (C.R.E.)

*viteana* Clemens. Grape berry moth. Cornell Agr. Expt. Sta., Bull. 223.

sp.

**Bactra** Stephens.

*lanceolana* Hübner. Schmett. Eur. Tort., f. 80. 1800. (C.R.E.)

**Exartema** Clemens.

*concinnum* Clemens. Proc. Phila. Ent. Soc., v, 134. (C.R.E.)

*fasciatum* Clemens. *Ibid.*, v, 134.

*inornatum* Clemens. Proc. Phila. Ent. Soc., v, 134.

*olivaceum* Fernald. Trans. Am. Ent. Soc., x, 71.

*permundanum* Clemens. Proc. Phila. Ent. Soc., v, 134.

*punctum* Walsingham. Ill. Lep. Het. Brit. Mus., iv, 87. (C.R.E.)

*sericoranum* Walsingham. *Ibid.*, iv, 36.

*versicolorum* Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 357. (C.R.E.)

*zellerianum* Fernald. *nitidum.* Verh. Zool-Bot. Ges. Wein., xxv, 270. (C.R.E.)

**Olethreutes** Hübner.\*

- abietana* Fernald. Can. Ent., xl, 349.  
*agilana* Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 359.  
 (C.R.E.)  
*bipartitana* Clemens. *Ibid.*, 1860. 346.  
*campestrana* Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 282.  
*corruscana* Clemens. Proc. Phila. Acad. Sci., 1860. 346.  
*cyanena* Murtfeldt. Am. Ent., 111, 14.  
*dimidiata* Sodoffsky. Bull. Mosc., 1830, 73. (C.R.E.)  
*griseoalbana* Walsingham. Ill. Lep. Het., Brit. Mus., iv, 38.  
 (C.R.E.)  
*hartmanniana* Linnaeus. Faun. Suec. 345. (C.R.E.)  
*hartmanniana* var. *albeolana* Zeller. Verh. Zool-Bot. Ges.  
 Wien., xxv, 262.  
*hebesana* Walker. Ill. Lep. Het., Brit. Mus., iv, 31.  
*impudens* Walsingham. Trans. Ent. Soc. Lond., 1884. 135  
 (C.R.E.)  
*instrutana* Clemens. Proc. Phila. Ent. Soc., v, 135. (C.R.E.)  
*interruptolineana* Fernald. *Penthina*. Trans. Am. Ent. Soc., x,  
 70. (C.R.E.)  
*nibatana* Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 346.  
*ochromediana* Kearfott. Trans. Am. Ent. Soc., xxxiii, 11.  
 (C.R.E.)  
*separatana* Kearfott. *Ibid.*, xxxiii, 13. (C.R.E.)  
 sp.

**Pseudogalleria** Ragonot.

- inimicella* Zeller. Verh. Zool-Bot. Ges. Wien., xxii, 559.  
 (C.R.E.)

**Eucosma** Hübner.

- abbreviatana* Walsingham. Ill. Lep. Het., Brit. Mus., iv, 54.  
*agricolana* Walsingham. *Ibid.*, iv, 42. (C.R.E.)  
*albiguttana* Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 313.  
 (C.R.E.)  
*boxcana* Kearfott. Trans. Am. Ent. Soc., xxxiii, 87. (C.R.E.)  
*cataclystiana* Walker. *Padisca ochreana*. Proc. Phila. Ent. Soc.,  
 111, 520.  
*confana* Kearfott. Proc. U. S. Nat. Mus., xxviii, 355. (C.R.E.)  
*culminana* Walsingham. Ill. Lep. Het., iv, 38.

\* See also appendix.

- dorsisignatana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 353:  
Moth Book, 418.
- fulminana Walsingham. Ill. Lep. Het., iv. 50. (C.R.E.)
- gracilana Kearfott. Proc. U. S. Nat. Mus., xxviii. 352.  
(C.R.E.)
- haracana Kearfott. *Proteopteryx*. Trans. Am. Ent. Soc., xxxiii.  
46. (C.R.E.)
- juncticiliana Walsingham. Ill. Lep. Het., iv. 75. (C.R.E.)
- minutana Kearfott. Proc. U. S. Nat. Mus., xxviii. 356.
- otiosana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 354.  
(C.R.E.)
- pergandeanana Fernald. Can. Ent. xxxvii. 399. (C.R.E.)
- perplexana Fernald. *Epiblema*. Jour. N. Y. Ent. Soc., ix. 51.  
(C.R.E.)
- scudderiana Clemens. *Saligneana*. Proc. Phila. Ent. Soc., v.  
141. (C.R.E.)
- solicitana Walker. Cat. Brit. Mus., xxviii. 387. (C.R.E.)
- strenuana Walker. Ill. Lep. Het., iv. 52.
- tomonana Kearfott. Can. Ent., xxxix. 78. (C.R.E.)
- transmissana Walker. Ill. Lep. Het., iv. 52.
- zomonana Kearfott. Can. Ent., xxxix. 80. (C.R.E.)

#### **Cydia** Hübner.

- cinereodorsana Kearfott. Trans. Am. Ent. Soc., xxxiii. 39.  
(C.R.E.)
- raracana Kearfott. *Ibid.*, xxxiii. 44. (C.R.E.)

#### **Thiodia** Hübner.

- essexana Kearfott. Trans. Am. Ent. Soc., xxxiii. 39. (C.R.E.)
- formosana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 360.
- imbridana Fernald. Can. Ent., xxxvii. 400. (C.R.E.)
- ochrotermenana Kearfott. *Ibid.*, xxxix. 57. (C.R.E.)
- olivaceana Riley. Trans. St. Louis Acad. Sci., iv. 320. (C.R.E.)
- signatana Clemens. Ins. Aff. Park and Woodl. trees, i. 168.
- striatana Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 349.

#### **Episimus** Walsingham.

- argutanus Clemens. Proc. Acad. Nat. Sci. Phila., 1860. 358.  
(C.R.E.)

#### **Proteopteryx** Walsingham.

- bulliana Slingerland. Jour. N. Y. Ent. Soc., xvi. 173.
- cressoniana Clemens. Proc. Phila. Ent. Soc., III. 514.



**Epinotia** Hübner.

- crispans* Clemens. Proc. Phila. Ent. Soc., v. 137.  
*fasciolana* Clemens. *Ibid.*, III. 511. (C.R.E.)  
*illicifoliana* Kearfott. Bull. Am. Mus. Nat. Hist., xxiii. 158.  
 (C.R.E.)  
*saliciana* Clemens. Proc. Phila. Ent. Soc., III. 515. (C.R.E.)

**Tmetocera** Lederer.

- ocellana* Schiffermüller. Bud moth. Rept. Conn. Agr. Expt. Sta., 1909-10. 353.

**Eudemis** Hübner.

- vacciniana* Packard. Black-headed cranberry worm. N. J. Agr. Expt. Sta., Spec. Bull. K. (C.R.E.)

**Cenopsis** Zeller.

- diluticostana* Walsingham. *quercana*. Trans. Am. Ent. Soc., x, 69.  
*reticulatana* Clemens. *Ibid.*, ii, 272. (C.R.E.)  
*testulana* Zeller. Verh. Zool-Bot. Ges. Wien., xxv. 241.  
 (C.R.E.)

**Cœlostathma** Clemens.

- discopunctana* Clemens. *Amphisa*. Proc. Acad. Nat. Sci. Phila., 1860, 355.

**Sparganothis** Hübner.

- inconditana* Walsingham. Ill. Lep. Het. Brit. Mus., iv, 16.  
 (C.R.E.)  
*irrorea* Robinson. Trans. Am. Ent. Soc., ii, 274.  
*xanthoides* Walker. *brevioratana*. Proc. Phila. Ent. Soc., v, 140.

**Archips** Hübner.

- argyrospila* Walker. Cat. Brit. Mus., xxviii, 373; Moth Book, 422.  
*cerasivorana* Fitch. Trans. Am. Ent. Soc., ii, 275; Moth Book, 422.  
*clemensiana* Fernald. Can. Ent., xi, 155.  
*fervidana* Clemens. *paludana*. Trans. Am. Ent. Soc., ii, 275.  
 (C.R.E.)  
*infumatana* Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 216.  
 (C.R.E.)  
*parallela* Robinson. Trans. Am. Ent. Soc., ii, 267.  
*purpurana* Clemens. Proc. Phila. Ent. Soc., v, 136; Moth Book, 422.

- rileyana Grote. Trans. Am. Ent. Soc., ii, 121. (F.W.H.)  
 rosaceana Harris. Oblique banded leaf-roller. Jour. Econ.  
 Ent. ii, 391: Moth Book, 422.  
 rosana Linnaeus. Rept. Conn. Agr. Expt. Sta., 1913, 223.  
 semiferana Walker. *Tortrix flaccidana* Robinson. Trans. Am.  
 Ent. Soc., ii, 277.  
 virescana Clemens. Proc. Phila. Ent. Soc., v, 140.

#### Ancylis Hübner.

- angulifasciana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 256.  
 (C.R.E.)  
 burgessiana Zeller. *Ibid.*, xxv, 252.  
 comptana Frölich. Strawberry leaf-roller. N. J. Agr. Expt.  
 Sta., Bull. 149: Moth Book, 419.  
 diminutana Kearfott. Proc. U. S. Nat. Mus., xxviii, 361.  
 (C.R.E.)  
 divisana Walker. Cat. Brit. Mus., xxviii, 385. (C.R.E.)  
 dubiana Clemens. Proc. Phila. Ent. Soc., iii, 512.  
 laciniana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 253.  
 muricana Walsingham. Ill. Lep. Het. iv, 74.  
 platanana Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 349.  
 (C.R.E.)  
 pulchellana Clemens. Proc. Phila. Ent. Soc., iii, 511. (C.R.E.)  
 subæquana Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 254.  
 (C.R.E.)

#### Enarmonia Hübner.

- americana Walsingham. Ill. Lep. Het. Brit. Mus., iv, 67.  
 caryana Fitch. N. Y. Agr. Rept., xvi, 459. (C.R.E.)  
 interstinctana Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 351.  
 prunivora Walsh. *Semasia*. Lesser apple worm. Rept. Ill.  
 State Ent., i, 2d ed., 108.

#### Laspeyresia Hübner.

- gallæsaliciana Riley. *Enarmonia*. Trans. St. Louis Acad.  
 Sci., iv, 320. (C.R.E.)  
 molesta Busck. Oriental peach moth. Rept. Conn. Agr.  
 Expt. Sta., 1918, 298.

#### Gymnandrosoma Dyar.

- punctidiscanum Dyar. Proc. Wash. Ent. Soc., vi, 60.

**Ecdytolopha** Zeller.

*insiticiana* Zeller. Verh. Zool-Bot. Ges. Wien., xxv, 266.

**Carpocapsa** Treitschke.

*pomonella* Linnæus. *Cydia*. Codling-moth. Apple worm.  
Cornell Agr. Expt. Sta., Bull. 142; Moth Book, 419.

**Phthinolophus** Dyar.

*indentanus* Dyar. Proc. Wash. Ent. Soc., v, 307. (C.R.E.)

**Acleris** Hübner.

*boscana* Fabricius. Ent. Syst. Suppl., iii, 2, 269. (C.R.E.)

*hastiana* Linnæus. Trans. Am. Ent. Soc., ii, 280. (C.R.E.)

*logiana* Schiffermüller var. *viburnana* Clemens. *Ibid.*, ii, 281.

*subnivana* Walker. *deflectana*. *Ibid.*, ii, 283. (C.R.E.)

*trisiniana* Robinson. *Ibid.*, ii, 282. (C.R.E.)

**Peronea** Curtis.

*commandrana* Fernald. Can. Ent., xxiv, 124. (C.R.E.)

*ferrugana* Schiffermüller. *gallicolana*. Proc. Phila. Ent. Soc.,  
iii, 516. (C.R.E.)

*heindelana* Fernald. Am. Nat., xxxix, 170, 859, 873. (C.R.E.)

*pulverosana* Walker. Ill. Lep. Het. Brit. Mus., iv, 3. (C.R.E.)

*trisiniana* Robinson. Trans. Am. Ent. Soc., ii, 282. (C.R.E.)

sp.

**Epagoge** Hübner.

*sulfureana* Clemens. Trans. Am. Ent. Soc., ii, 273.

*virescana* Clemens. Proc. Phila. Ent. Soc., v, 140.

**Platynota** Clemens.

*flavedana* Clemens. Trans. Am. Ent. Soc., ii, 278; Moth Book,  
422.

**Pandemis** Hübner.

*lamprosana* Robinson. Trans. Am. Ent. Soc., ii, 264. (C.R.E.)

*limitata* Robinson. *Ibid.*, ii, 264.

**Tortrix** Linnæus.

*albicomana* Clemens. Proc. Phila. Ent. Soc., v, 137; Moth  
Book, 423.

*fumiferana* Clemens. *Ibid.*, v, 139.

*nervosana* Kearfott. Trans. Am. Ent. Soc., xxxiii, 71.  
(C.R.E.)

*pallorana* Robinson. *Ibid.*, ii, 266.

*peritana* Clemens. *Ibid.*, ii, 277. (C.R.E.)

*quercifoliana* Fitch. N. Y. Agr. Rept., 1858, 826.

#### **Eulia** Hübner.

*alisellana* Robinson. Trans. Am. Ent. Soc., ii, 267.

*politana* Haworth. Rept. U. S. Dept. Agr., 1880, 264. (C.R.E.)

*quadrifasciana* Fernald. Trans. Am. Ent. Soc., x, 67.

*velutinana* Walker. *triferana*. *incertana*. *lutosana*. Trans. Am. Ent. Soc., ii, 279.

#### **Amorbia** Clemens.

*humerosana* Clemens. Trans. Am. Ent. Soc., ii, 275: Moth Book, 423.

#### **Phalonia** Hübner.

*angulatana* Robinson. Trans. Am. Ent. Soc., ii, 286. (C.R.E.)

*argentilimitana* Robinson. *Ibid.*, ii, 287. (C.R.E.)

*atmosana* Busck. Jour. N. Y. Ent. Soc., xv, 22. (C.R.E.)

*aurorana* Kearfott. Trans. Am. Ent. Soc., xxxiii, 83. (C.R.E.)

*biscana* Kearfott. *Ibid.*, xxxiii, 75. (C.R.E.)

*bunteana* Robinson. *Ibid.*, ii, 288. (C.R.E.)

*dorsimaculana* Robinson. *Ibid.*, ii, 285.

*hospes* Walsingham. Trans. Ent. Soc. Lond., 1884, 131.

*interruptionfasciana* Robinson. Trans. Am. Ent. Soc., ii, 287.  
(C.R.E.)

*maiana* Kearfott. *Ibid.*, xxxiii, 82. (C.R.E.)

*marloffiana* Busck. Jour. N. Y. Ent. Soc., xv, 26. (C.R.E.)

*nonlavana* Kearfott. Trans. Am. Ent. Soc., xxxiii, 85. (C.R.E.)

*œnotherana* Riley. Trans. St. Louis Acad. Sci., iv, 316.

*rana* Busck. Jour. N. Y. Ent. Soc., xv, 22. (C.R.E.)

*temerana* Busck. *Ibid.*, xv, 28. (C.R.E.)

*winniana* Kearfott. Can. Ent., xxxvii, 10. (C.R.E.)

#### **Commophila** Hübner.

*contrastana* Kearfott. Can. Ent., xxxix, 160.

#### **Pharmacis** Hübner.

*sartana* Hübner. Zutr. Exot. Schmett., ii, 111. (C.R.E.)

**Hysterosia** Stephens.

- baracana* Busck. Jour. N. Y. Ent. Soc., xv, 33. (C.R.E.)  
*terminana* Busck. *Ibid.*, xv, 33. (C.R.E.)

## Family PTEROPHORIDÆ.

**Oxyptilus** Zeller.

- ningoris* Walsingham. Pteroph. N. A., 20. (C.R.E.)  
*periscelidactylus* Fitch. Grape plume moth. *Ibid.*, 17.  
*tenuidactylus* Fitch. *Ibid.*, 20.

**Platyptilia** Hübner.

- cosmodactyla* Hübner. Pteroph. N. A., 25.  
*marginidactyla* Fitch. *Ibid.*, 34.

**Pterophorus** Geoffroy.

- cretidactylus* Fitch. Pteroph. N. A., 52.  
*elliottii* Fernald. Can. Ent., xxv, 95.  
*homodactylus* Walker. Pteroph. N. A., 41.  
*inquinatus* Zeller. *Ibid.*, 56. (C.R.E.)  
*paleaceus* Zeller. *Ibid.*, 45.  
 sp.

## Family PYRALIDÆ.

**Glaphria** Hübner.

- fulminalis* Lederer. Wien. Ent. Mon., vii, 487.  
*glaphyralis* Guenée. *albolineata*. Trans. Am. Ent. Soc., i, 28.  
*invisalis* Guenée. Spec. Gén., viii, 361. (C.R.E.)  
*sequistrialis* Hübner. Zutr. Exot. Schmett., ii, 29. (C.R.E.)

**Lipocosma** Lederer.

- fuliginosalis* Fernald. Ent. Am., iv, 37.

**Desmia** Westwood.

- funeralis* Hübner. Schmett. Eur., f. 103, 1796: Moth Book,  
 392.  
*funeralis* var. *subdivisalis* Grote. Can. Ent., iii, 126.

**Diastictis** Hübner.

- argyralis* Hübner. Zutr. exot. Schmett., i, 21.  
*argyralis* var. *ventralis* Grote and Robinson. Trans. Am. Ent.  
 Soc., i, 21. (C.R.E.)

**Blepharomastix** Lederer.

*ranalis* Guenée. *Botys gracilis*. Trans. Am. Ent. Soc., i, 25.  
(C.R.E.)

**Pantographa** Lederer.

*limata* Grote and Robinson. Can. Ent., xvi, 26: Moth Book,  
393.

**Diaphania** Hübner.

*hyalinata* Linnæus. *Glyphodes*. Melon caterpillar. Rept. N.  
Y. State Ent., xi, 134: Moth Book, 394.

*nitidalis* Stoll. *Glyphodes*. Pickle worm. Rept. N. Y. State.  
Ent., xi, 126: Moth Book, 394. (A.H.Me.)

**Evergestis** Hübner.

*simulatilis* Grote. *brunnecogrisea*. Ent. Am., ii, 171. (C.R.E.)

*straminalis* Hübner. Handb. Brit. Lep., 424.

**Crocidophora** Lederer.

*tubercularis* Lederer. Wien. Ent. Mon., vii, 476. (C.R.E.)

**Nomophila** Hübner.

*noctuella* Denis and Schiffermüller. Can. Ent., xxv, 129.

**Loxostege** Hübner.

*dasconalis* Walker. Cat. Brit. Mus., xviii, 273.

*helvialis* Walker. *Ibid.*, xix, 981. (F.W.H.)

*obliteralis* Walker. Bur. Ent., Bull. 27, new ser., 102.

*similalis* Guenée. Spec. Gén., viii, 405.

**Diasemia** Hübner.

*pisusalis* Walker.

**Tholeria** Hübner.

*reversalis* Guenée. Spec. Gén., viii, 409. (F.W.H.)

**Perispasta** Zeller.

*cæcularis* Zeller. *immixtalis*. Can. Ent., xiii, 232.

**Phlyctænia** Hübner.

*acutella* Walker. Cat. Brit. Mus., xxxv, 1753.

*ferrugalis* Hübner. *rubigalis*. Greenhouse leaf-tyer. Rept.  
Conn. Agr. Expt. Sta., 1909-10, 369.

*terrealis* Treitschke. Schm. Eur., vii, 110.

*tertialis* Guenée. *plectilis*. Trans. Am. Ent. Soc., i, 27: Moth  
Book, 397.

**Cindaphia** Lederer.

**bicoloralis** Guenée. Spec. Gén., viii, 205: Moth Book, 397.

**Pyrausta** Schrank.

**ainsliei** Heinrich. Rept. Conn. Agr. Expt. Sta., 1919, 173.

**acrionalis** Walker. Cat. Brit. Mus., xix, 925.

**æglealis** Walker. *Ibid.*, xviii, 565.

**chalybealis** Fernald. (MS. name.) (C.R.E.)

**fissalis** Grote. Bull. Geol. Geog. Surv. Terr., vi, 273. (C.R.E.)

**fumalis** Guenée. Spec. Gén., viii, 358: Moth Book, 397.

**funebri** Ström. *octomaculata*. Moth Book, 398. (F.W.H.)

**futilalis** Lederer. *erectalis*. Can. Ent., viii, 99.

**illibalis** Hübner. Zutr. Exot. Schmett., i, 10.

**insequalis** Guenée. Spec. Gén., viii, 447: Moth Book, 398.

**niveiciliaris** Grote. Bull. Buff. Soc., Nat. Sci., ii, 232: Moth Book, 398 (F.W.H.)

**orphisalis** Walker. *adipaloides*. Trans. Am. Ent. Soc., i, 26. (C.R.E.)

**oxydalis** Guenée. Spec. Gén., viii, 328.

**penitalis** Grote. Can. Ent., viii, 98. (C.R.E.)

**pertextalis** Lederer. Wien. Ent. Mon., vii, 466: Moth Book, 397.

**phœnicealis** Hübner. Zutr. Exot. Schmett., i, 22.

**rubricalis** Hübner. *similalis*. Schmett. Eur., 22, pl. 16, f. 106. (F.W.H.)

**signatalis** Walker. *vinulenta* Grote and Robinson. Trans. Am. Ent. Soc., i, 16.

**theseusalis** Walker. Cat. Brit. Mus., xviii, 562.

**thestealis** Walker. *Ibid.*, xviii, 733.

sp. (Undescribed.)

**Eustixia** Hübner.

**pupula** Hübner. Moth Book, 398.

**Nymphula** Schrank.

**allionealis** Walker. Cat. Brit. Mus., xvii, 453.

**badiusalis** Walker. *Ibid.*, xix, 955.

**icciusalis** Walker. *Ibid.*, xix, 971.

**maculalis** Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 218.

**obscuralis** Grote. Papilio, i, 18: Moth Book, 399.

**Geshna** Dyar.

*primordialis* Dyar. Jour. N. Y. Ent. Soc., xiv, 97.

**Elophila** Hübner.

*fulicalis* Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 217.

**Diathrausta** Lederer.

*reconditalis* Walker. Cat. Brit. Mus., xix, 943.

**Scoparia** Haworth.

*basalis* Walker. Cat. Brit. Mus., xxxiv, 1497.

*centuriella* Denis and Schiffermüller. *ninguidalis*. Trans. Am. Ent. Soc., xiii, 147. (C.H.Y.)

*rectilinea* Zeller. Verh. Zool-Bot. Ges. Wien., xxiv, 5.

**Aglossa** Latreille.

*cuprealis* Hübner. Verz. bek. Schmett., 1826, 348.

**Hypsopygia** Hübner.

*costalis* Fabricius. Clover hay worm. Rept. Conn. Agr. Expt. Sta., 1900, 315: Moth Book, 399.

**Pyralis** Linnæus.

*cuprina* Zeller. Verh. Zool-Bot. Ges. Wien., xxii, 497. (C.R.E.)

*farinalis* Linnæus. Meal snout moth. Bur. Ent., Bull. 4, new ser., 119: Moth Book, 400.

**Herculiä** Walker.

*cohortalis* Grote. Can. Ent., x, 233.

*intermedialis* Walker. Trans. Ent. Soc. Lond., i, 118.

*olinalis* Guenée. Spec. Gén., viii, 118: Moth Book, 401.

**Omphalocera** Lederer.

*dentosa* Grote. Bull. Geol. Geog. Surv. Terr., vi, 272.

**Tosale** Walker.

*oviplagis* Walker. *anthracioides*. Trans. Am. Ent. Soc., i, 15. (C.R.E.)

**Arta** Grote.

*statalis* Grote. Bull. Buff. Soc., Nat. Sci., ii, 230.

**Condylolomia** Grote.

*participialis* Grote. Bull. Buff. Soc., Nat. Sci., i, 177. (C.R.E.)



**Galasa** Walker.

rubidana Walker. Cat. Brit. Mus., xxxv, 1802.

**Schœnobius** Duponchel.

clemensellus Robinson. Ent. Am., iv, 138. (C.H.Y.)

forficellus Thunberg. *longirostrellus*. *Ibid.*, iv, 139.

tripunctellus Robinson. *Ibid.*, iv, 136.

unipunctellus Robinson. *Ibid.*, iv, 136.

**Crambus** Fabricius.

agitatellus Clemens. N. A. Cramb., 37.

albellus Clemens. *Ibid.*, 38.

alboclavellus Zeller. *Ibid.*, 36: Moth Book, 402.

bidens Zeller. N. A. Cramb., 32. (C.R.E.)

caliginosellus Clemens. *Ibid.*, 61.

decorellus Zincken. *Ibid.*, 52.

elegans Clemens. *Ibid.*, 45.

girardellus Clemens. *Ibid.*, 28.

hortuellus Hübner. *Ibid.*, 40.

laqueatellus Clemens. *Ibid.*, 35: Moth Book, 402.

leachellus Zincken. N. A. Cramb., 29.

luteolellus Clemens. *Ibid.*, 64. (C.R.E.)

mutabilis Clemens. *Ibid.*, 57.

præfectellus Zincken. *Ibid.*, 31.

ruricolellus Zeller. *Ibid.*, 49.

teterrellus Zincken. *Ibid.*, 51. (C.R.E.)

trisectus Walker. *Ibid.*, 59: Moth Book, 403.

turbatellus Walker. N. A. Cramb., 44: Moth Book, 402.

vulgivagellus Clemens. N. A. Cramb., 47.

zeellus Fernald. *Ibid.*, 62. (C.R.E.)

**Haimbachia** Dyar.

placidellus Haimbach. Ent. News, xviii, 44.

**Argyria** Hübner.

auratella Clemens. N. A. Cramb., 72.

multilineatella Hulst. Ent. Am., iii, 134. (C.R.E.)

nivalis Drury. *Ibid.*, iii, 71.

**Platytes** Guenée.

vobisne Dyar. Insec. Insc. Menst., viii, 162.

**Diatræa** Guilding.**alleni** Fernald. Ent. Am., iv, 120. (C.R.E.)**differentialis** Fernald. *Ibid.*, iv, 120. (C.R.E.)**Chilo** Zincken.**densellus** Zeller. N. A. Cramb., 79.**plejadellus** Zincken. *Ibid.*, 78. (C.H.Y.)**Dicymolomia** Zeller.**julianalis** Walker. Cat. Brit. Mus., xvii, 438. (C.R.E.)**Galleria** Fabricius.**mellonella** Linnæus. Wax moth. Bee moth. Bur. Ent., Bull.  
75, 19: Moth Book, 406.**Paralipsa** Butler.**fulminalis** Zeller. Verh. Zool-Bot. Ges. Wien., xxii, 560.  
(C.R.E.)**furessus** Zeller. *Ibid.*, xxxiii, 212. (C.R.E.)**Achroia** Haworth.**grisella** Fabricius. Cat. Lep. Eur., ii, No. 3.**Epipaschia** Clemens.**superatalis** Clemens. Ent. Am., v, 51.**Oneida** Hulst.**lunulalis** Hulst. Ent. Am., iii, 130. (C.R.E.)**Benta** Walker.**asperatella** Clemens. Proc. Acad. Nat. Sci., Phila., 1860, 207.  
(C.R.E.)**Lanthape** Clemens.**platanella** Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 207.  
(C.R.E.)**Wanda** Hulst.**baptisiella** Fernald. Ent. Am., iii, 128.**Tetralopha** Zeller.**asperatella** Clemens, form **nephelotella** Hulst. *clemensalis*  
Dyar. Ent. Am., v, 70.**militella** Zeller. *Ibid.*, v, 71.**robustella** Zeller. *diluculella*. *Ibid.*, v, 71.

**Myelois** Hübner.

**obnupsella** Hulst. Trans. Am. Ent. Soc., xvii, 118.

**Acrobasis** Zeller.\*

**angusella** Grote. *chilclo* Dyar. Proc. Wash. Ent. Soc., x, 43.  
(C.R.E.)

**aurorella** Ely. *Ibid.*, xii, 67.

**betulella** Hulst. Trans. Am. Ent. Soc., xvii, 125. (C.R.E.)

**caryalbella** Ely. Insec. Insc. Menst., i, 52. (C.R.E.)

**caryæ** Grote. Walnut bud moth. Rept. Conn. Agr. Expt.  
Sta., 1912, 253.

**caryvorella** Ragonot. Proc. Wash. Ent. Soc., x, 42.

**comptoniella** Hulst. *Ibid.*, x, 42.

**coryliella** Dyar. *Ibid.*, x, 47.

**dyarella** Ely. *Ibid.*, xii, 67. (C.R.E.)

**feltella** Dyar. *Ibid.*, xi, 214. (C.R.E.)

**hebescella** Hulst. *Ibid.*, x, 44. (C.R.E.)

**irrubriella** Ely. *Ibid.*, x, 161. (C.R.E.)

**latifasciella** Dyar. *Ibid.*, x, 45.

**malipennella** Dyar. *Ibid.*, x, 47. (C.R.E.)

**nebulella** Riley. *Mincola*. Rept. Ins. Mo., iv, 41. (C.R.E.)

**normella** Dyar. Proc. Wash. Ent. Soc., x, 46. (C.R.E.)

**ostryella** Ely. Insec. Insc. Menst., i, 54. (C.R.E.)

**palliolella** Ragonot. Trans. Am. Ent. Soc., xvii, 121. (C.R.E.)

**rubrifasciella** Packard. Ann. Lyc. Nat. Hist., N. Y., x, 267.

**secundella** Ely. Insec. Insc. Menst., i, 55. (C.R.E.)

**stigmella** Dyar. Proc. Wash. Ent. Soc., x, 43. (C.R.E.)

**sylviella** Ely. *Ibid.*, x, 48. (C.R.E.)

sp.?

**Mineola** Hulst.

**indigenella** Zeller. Apple leaf crumpler. Isis, 651: Moth  
Book, 409.

**juglandis** LeBaron. Ins. Ill., ii, 123. (C.R.E.)

**vaccinii** Riley. Cranberry fruit worm. Can. Ent., xvi, 237.  
(C.R.E.)

**Dioryctria** Zeller.

**abietella** Denis and Schiffermüller. Syst. Verz. Wien., x, 138.

**reniculella** Grote. N. A. Ent., i, 67. (C.R.E.)

\* See also appendix.

**Pinipestis** Grote.

*zimmermani* Grote. Pine tip moth. Rept. Conn. Agr. Expt. sta., 1916, 122.

**Tacoma** Hulst.

*nyssæcolella* Dyar. Proc. Wash. Ent. Soc., vi, 112. (C.R.E.)

**Glyptocera** Ragonot.

*consobrinella* Zeller. Verh. Zool-Bot. Ges. Wien., 528. (C.R.E.)

**Ortholepis** Ragonot.

*jugosella* Ragonot. Diag. N. A. Phyc., 6. (C.R.E.)

**Ambesa** Grote.

*busckella* Dyar. Proc. Wash. Ent. Soc., vi, 108. (C.R.E.)

**Nephopteryx** Hübner.

*fasciolalis* Hulst. Trans. Am. Ent. Soc., xiii, 162. (C.R.E.)

*gilvibasella* Hulst. *Ibid.*, xvii, 145. (C.R.E.)

*ovalis* Packard. *latifasciella*. N. A. Ent., i, 11. (C.R.E.)

*scobiella* Grote. *Ibid.*, i, 51.

**Meroptera** Grote.

*unicolorella* Hulst. Ent. Am., iii, 136.

**Salebria** Zeller.

*contatella* Grote. N. A. Ent., i, 50.

**Elasmopalpus** Blanchard

*lignosellus* Zeller. Isis, 1848, 883.

**Zophodia** Hübner.

*grossulariæ* Riley. Gooseberry fruit worm. Trans. Am. Ent. Soc., xvii, 173.

**Immyrta** Dyar.

*nigrovittella* Dyar. Jour. N. Y. Ent. Soc., xiv, 108.

**Euzophera** Zeller.

*ochrifrontella* Zeller. Trans. Am. Ent. Soc., xvii, 177.

*semifuneralis* Walker. *Ibid.*, xvii, 175.

**Vitula** Ragonot.

*edmandsii* Packard. Trans. Am. Ent. Soc., xvii, 178. (C.R.E.)

**Canarsia** Hulst.

*ulmiarrosorella* Clemens. Trans. Am. Ent. Soc., xvii, 180.

**Hulstea** Ragonot.

*undulatella* Clemens. Trans. Am. Ent. Soc., xvii, 187.

**Homœosoma** Curtis.

*mucidellum* Ragonot. Trans. Am. Ent. Soc., xvii, 193.  
(C.R.E.)

*reliquella* Dyar. Proc. Wash. Ent. Soc., vi, 112.

*uncanale* Hulst. *Ibid.*, xvii, 192. (C.R.E.)

**Ephestia** Guenée.

*kuehniella* Zeller. Mediterranean flour moth. Special Rept.  
Minn. State Ent., 1904: Moth Book, 412.

**Ephestiodes** Ragonot.

*infimella* Ragonot. Trans. Am. Ent. Soc., xvii, 194. (C.R.E.)

**Varneria** Dyar.

*postremella* Dyar. Proc. Wash. Ent. Soc., vi, 115. (C.R.E.)

**Eurythmia** Ragonot.

*angulella* Ely. Proc. Wash. Ent. Soc., xii, 202. (C.R.E.)

*diffusella* Ely. *Ibid.*, xii, 202. (C.R.E.)

*furnella* Ely. *Ibid.*, xii, 202. (C.R.E.)

*parvulella* Ely. *Ibid.*, xii, 202. (C.R.E.)

**Moodna** Hulst.

*ostrinella* Clemens. Proc. Acad. Nat. Sci. Phila., 1860, 206.

**Plodia** Guenée.

*interpunctella* Hübner. Indian meal moth. Rept. Conn. Agr.  
Expt. Sta., 1905, 252: Moth Book, 415.

**Atacosa** Hulst.

*glareosella* Zeller. Trans. Am. Ent. Soc., xvii, 211.

**Cayuga** Hulst.

*gemmatella* Hulst. Ent. Am., iii, 134. (C.R.E.)

**Peoria** Ragonot.

*approximella* Walker. Cat. Brit. Mus., xxxv, 1722.

**Bandera** Ragonot.

*binotella* Zeller. Trans. Am. Ent. Soc., xvii, 202.

## Family SESIIDÆ.

**Sesia** Fabricius.

- bolteri** Hy. Edwards. *Synanthedon*. Papilio, iii, 155.  
**scitula** Harris. *Synanthedon*. Mon. N. A. Ses., 298: Moth Book, 387.  
**tipuliformis** Clerck. *Synanthedon*. Mon. N. A. Ses., 285: Moth Book, 385.

**Bembecia** Hübner.

- marginata** Harris. Mon. N. A. Ses. 260: Moth Book, 383.  
**marginata** var. **albicomis** Hulst. Mon. N. A. Ses., 262.

**Synanthedon** Hübner.

- exitiosa** Say. *Saminoidea*. Peach borer. Rept. Conn. Agr. Expt. Sta., 1909-10, 359: Moth Book, 384.  
**pictipes** Grote and Robinson. *Ægeria*. *Sesia*. Mon. N. A. Ses., 291.

**Memythrus** Newman.

- asilipennis** Boisduval. Mon. N. A. Ses., 252.  
**tricinctus** Harris. *Ibid.*, 247.

**Podosesia** Moeschler.

- syringæ** Harris. Lilac borer. Mon. N. A. Ses., 244: Moth Book, 382.

**Alcothoë** Hy.-Edwards.

- caudata** Harris. Mon. N. A. Ses., 240: Moth Book, 382. (F.W.H.)

**Melittia** Hübner.

- satyriniformis** Hübner. Squash borer. Rept. Conn. Agr. Expt. Sta., 1907-08, 806: Moth Book, 380.

## Family COSSIDÆ.

**Prionoxystus** Grote.

- macmurtrei** Guérin-Méneville. *Cossus*. *querciperda*. Ins. N. Y., Fourth Rept., Rept. N. Y. State Agr. Soc., 1857, 790.  
**robiniaë** Peck. Carpenter worm. Ins. Aff. Park and Woodland Trees, 79: Moth Book, 378.

**Zeuzera** Latreille.

- pyrina** Linnaeus. Leopard moth. Rept. Conn. Agr. Expt. Sta., 1911, 317: Moth Book, 376.

## Family THYRIDÆ.

**Thyris** Laspeyres.

- lugubris* Boisduval. Spec. Gén. Pl. 14. f. 11, 1852: i, 490, 1874.  
*maculata* Harris. Am. Jour. Sci., xxxvi, 313: Moth Book, 374.

## Family PYROMORPHIDÆ.

**Harrisina** Packard.

- americana* Guérin-Ménéville. Icon. Reg. An. Ins., 500: Moth Book, 372.

**Pyromorpha** Herrich-Schæffer.

- dimidiata* Herrich-Schæffer. Moth Book, 371.

## Family MEGALOPYGIDÆ.

**Lagoa** Harris.

- crispata* Packard. Crinkled flannel moth. Proc. Phila. Ent. Soc., iii, 335: Moth Book, 369.

## Family COCHLIDIIDÆ.

**Tortricidia** Packard.

- flexuosa* Grote. Jour. N. Y. Ent. Soc., vi, 94: Moth Book, 368.

**Packardia** Grote and Robinson.

- elegans* Packard. *nigripunctata*. Proc. Phila. Ent. Soc., iii, 342: Moth Book, 367. (C.R.E.)  
*elegans* var. *fusca* Packard. Proc. Phila. Ent. Soc., iii, 343. (C.R.E.)  
*testacea* Packard. *Ibid.*, iii, 348: Moth Book, 368. (C.R.E.)

**Lithacodes** Packard.

- fasciola* Herrich-Schæffer. Jour. N. Y. Ent. Soc., v, 1: Moth Book, 367.

- fiskiana* Dyar. Ent. News, xi, 333.

**Cochlidion** Hübner.

- biguttata* Packard. Jour. N. Y. Ent. Soc., v, 167: Moth Book, 367.

- rectilinea* Grote and Robinson var. *latomia* Harvey. Can. Ent. ix, 75: Moth Book, 367. (C.H.Y.)

**Prolimacodes** Schaus.

**scapha** Harris. Jour. N. Y. Ent. Soc., iv, 172: Moth Book, 367.

**Phobetron** Hübner.

**pithecium** Smith and Abbot. Hag-moth. Jour. N. Y. Ent. Soc., iv, 178: Moth Book, 366.

**Sisyrosea** Grote.

**textula** Herrich-Schæffer. *inornata*. Jour. N. Y. Ent. Soc., iv, 185: Moth Book, 366. (C.R.E.)

**Adoneta** Clemens.

**spinuloides** Herrich-Schæffer. Jour. N. Y. Ent. Soc., v, 5: Moth Book, 365.

**Euclea** Hübner.

**chloris** Herrich-Schæffer. *viridis*. Jour. N. Y. Ent. Soc., v, 61: Moth Book, 365.

**delphinii** Boisduval var. **interjecta** Dyar. Ent. News, ii, 61.

**delphinii** var. **querceti** Herrich-Schæffer. Samml. Ausser. Schmett., f. 174.

**delphinii** var. **viridiclava** Walker. Cat. Brit. Mus., v, 1154: Moth Book, 365. (C.H.Y.)

**indeterminata** Boisduval. *vernata*. Jour. N. Y. Ent. Soc., v, 10: Moth Book, 365. (C.H.Y.)

**Sibine** Herrich-Schæffer.

**stimulea** Clemens. *Empretia*. Saddle-back caterpillar. Jour. N. Y. Ent. Soc., iv, 1: Moth Book, 364.

## Family PSYCHIDÆ.

**Solenobia** Zeller.

**walshella** Clemens. Proc. Phila. Ent. Soc., i, 132.

**Eurycyttarus** Hampson.

**confederata** Grote and Robinson. Trans. Am. Ent. Soc., ii, 191: Moth Book, 363.

**Thyridopteryx** Stephens.

**ephemeræformis** Haworth. Bag-worm. Bur. Ent., Circ. 97: Moth Book, 361.



## Family LACOSOMIDÆ.

**Lacosoma** Grote.

*chiridota* Grote. Proc. Phila. Ent. Soc., iii, 78: Moth Book, 359.

**Cicinnus** Blanchard.

*melsheimeri* Harris. Ins. Inj. Veg., Flint Ed., 415: Moth Book, 359. (C.H.Y.)

## Family EPIPLEMIDÆ.

**Calledapteryx** Grote.

*dryopterata* Grote. Trans. Am. Ent. Soc., ii, 120: Moth Book, 356. (C.R.E.)

## Family GEOMETRIDÆ.

**Brephos** Oechsenheimer.

*infans* Mœschler. U. S. Nat. Mus., Bull., No. 44, 396: Moth Book, 355.

**Abbotana** Hulst.

*clemataria* Smith and Abbot. Mon. Geom., 561: Moth Book, 353. (F.W.H.)

**Sabulodes** Guenée.

*arcasaria* Walker. *depontanata*. Mon. Geom., 483: Moth Book, 353.

*lorata* Grote. Mon. Geom., 547: Moth Book, 353.

*sulphurata* Packard. Mon. Geom., 484: Moth Book, 353.

*transversata* Drury. Mon. Geom., 559: Moth Book, 353.

**Tetracis** Guenée.

*crocallata* Guenée. Mon. Geom., 548: Moth Book, 353.

**Caberodes** Guenée.

*confusaria* Hübner. Mon. Geom., 534: Moth Book, 352.

*confusaria* var. *metrocamparia* Guenée. Spec. Gén., ix, 137. (F.W.H.)

*majoraria* Guenée. Mon. Geom., 536: Moth Book, 352.

**Syssaura** Hübner.

*infensata* Guenée. Spec. Gén., ix, 67.

*infensata* var. *biclaris* Walker. *varus*. Mon. Geom., 538:  
Moth Book, 352.

**Azelina** Guenée.

*ancetaria* Hübner. *hubnerata*. Mon. Geom., 520: Moth Book,  
352.

**Priocycla** Guenée.

*armataria* Herrich-Schæffer. Mon. Geom., 510: Moth Book,  
351.

**Metanema** Guenée.

*determinata* Walker. Cat. Brit. Mus., xxxv, 1551: Moth Book,  
351.

*inatomaria* Guenée. Mon. Geom., 543.

**Eutrapela** Hübner.

*alciphearia* Walker. Cat. Brit. Mus., xx, 184. (H.W.F.)

*kentaria* Grote. Trans. Am. Ent. Soc., i, 359. (C.R.E.)

**Euchlæna** Hübner.

*effectaria* Walker. Mon. Geom., 514.

*johnsonaria* Fitch. *bilinearis*. *Ibid.*, 511.

*marginata* Minot. *Ibid.*, 505: Proc. Bost. Soc. Nat. Hist.,  
xi, 169.

*obtusaria* Hübner. Mon. Geom., 516: Moth Book, 350.

*serrata* Drury. *serrataria*. Mon. Geom., 517: Moth Book, 350.

*vinulentaria* Grote and Robinson. Mon. Geom., 506. (C.R.E.)

**Gonodontis** Hübner.

*duaria* Guenée. Mon. Geom., 502: Moth Book, 350.

*hypochraria* Herrich-Schæffer. Mon. Geom., 504: Moth Book,  
350.

*obfirmaria* Hübner. Mon. Geom., 499: Moth Book, 350.  
(F.W.H.)

*warneri* Harvey. *apiciaria*. Mon. Geom., 502.

**Ania** Stephens.

*limbata* Haworth. *filamentaria*. Mon. Geom., 471: Moth  
Book, 349.

**Hyperitis** Guenée.

*amicaria* Herrich-Schæffer. *nyssaria*. Mon. Geom., 461: Moth  
Book, 349.

**Plagodis** Hübner.**keutzingaria** Packard. Mon. Geom., 468: Moth Book, 349.**serinaria** Herrich-Schæffer. Mon. Geom., 469: Moth Book, 349.**Xanthotype** Warren.**crocataria** Fabricius. Mon. Geom., 474: Moth Book, 349.**Ennomos** Treitschke.**magnarius** Guenée. *alniaria*. Mon. Geom., 529: Moth Book, 348.**subsignarius** Hübner. *Eugonia*. Snow-white linden moth. Elm span-worm. Mon. Geom., 528: Moth Book, 348.**Eugonobapta** Warren.**nivosaria** Guenée. *nivosata*. Mon. Geom., 338: Moth Book, 348.**Metrocampa** Latreille.**prægrandaria** Guenée. *perlaria*. Mon. Geom., 491: Moth Book, 348.**Therina** Hübner.**athasaria** Walker. *seminudaria*. Mon. Geom., 495: Moth Book, 348. (F.W.H.)**fervidaria** Hübner. Mon. Geom., 493: Moth Book, 348.**Anagoga** Hübner.**pulveraria** Linnæus. Syst. Nat., 521.**Cingilia** Walker.**catenaria** Drury. Chain-dotted Geometer. Mon. Geom., 217: Moth Book, 347.**Erranis** Hübner.**tiliaria** Harris. *Hybernia*. Lime tree moth. Mon. Geom. 409: Moth Book, 347.**Phigalia** Duponchel.**titea** Cramer. Mon. Geom., 442: Moth Book, 347.**Nacophora** Hulst.**quernaria** Smith and Abbot. Mon. Geom., 411. (H.W.F.)**Lycia** Hübner.**cognataria** Guenée. Mon. Geom., 413: Moth Book, 345.**ursaria** Walker. Mon. Geom., 414.

**Epimecis** Hübner.

*virginaria* Cramer. *hortaria*. Mon. Geom., 443: Moth Book, 344. (F.W.H.)

**Ectropis** Hübner.

*crepuscularia* Denis and Schiffermüller. Mon. Geom., 428: Moth Book, 344.

**Æthaloptera** Hulst.

*intextata* Walker. *anticaria*. Mon. Geom., 423. (C.R.E.)

**Melanophia** Hulst.

*canadaria* Guenée. *Tephrosia*. Mon. Geom., 425: Moth Book, 344.

**Cleora** Curtis.

*larvaria* Guenée. Mon. Geom., 437.

*pampinaria* Guenée. *Ibid.*, 432: Moth Book, 344.

*takenaria* Pearsall. Can. Ent., xli, 119.

**Selidosema** Hübner.

*humarium* Guenée. Mon. Geom., 435.

*umbrosarium* Hübner. *Ibid.*, 439. (H.W.F.)

**Tornos** Morrison.

*scolopacinaris* Guenée. Mon. Geom., 565. (C.R.E.)

**Alcis** Curtis.

*multilineata* Packard. Mon. Geom., 287.

**Paraphia** Guenée.

*subatomaria* Wood. Mon. Geom., 417.

**Nepytia** Hulst.

*semiclusaria* Walker. Cat. Brit. Mus., xxiv, 1506.

**Catopyrrha** Hübner.

*coloraria* Fabricius. Mon. Geom., 206: Moth Book, 342.

*coloraria* var. *dissimularia* Hübner. Mon. Geom., 208: Moth Book, 342.

**Apæcasia** Hulst.

*defluata* Walker. Mon. Geom., 245: Moth Book, 342.

*detersata* Guenée. Mon. Geom., 243.

**Homocloides** Hulst.

*fritillaria* Guenée. Mon. Geom., 489.

**Cymatophora** Hübner.

*ribearia* Fitch. Mon. Geom., 248: Moth Book, 340.

**Macaria** Curtis.*æquiferaria* Walker. Mon. Geom., 295.*bisignata* Walker. *Ibid.*, 290.*minorata* Packard. *Ibid.*, 291. (C.R.E.)**Philobia** Duponchel.*enotata* Guenée. Mon. Geom., 288; Moth Book, 339. (F.W.H.)**Sciagraphia** Hulst.*continuata* Walker. *orillata*. Mon. Geom., 265. (C.R.E.)*granitata* Guenée. *Ibid.*, 285.*heliothidata* Guenée. *ocellinata*. *Ibid.*, 283; Moth Book, 339.**Deilinea** Hübner.*erythremaria* Guenée. Mon. Geom., 306.*liberaria* Walker. *integraria*. *littucaria*. *Ibid.*, 209. (C.R.E.)*variolaria* Guenée. *intentata*. *Ibid.*, 306; Moth Book, 338.**Gueneria** Packard.*basaria* Walker. *basata*. Mon. Geom., 308.**Psysostegania** Warren.*pustularia* Guenée. Mon. Geom., 310; Moth Book, 338.**Heliomata** Grote.*cycladata* Grote. Proc. Phila. Ent. Soc., vi, 30; Moth Book, 338. (F.W.H.)**Anaplodes** Packard.*iridaria* Guenée. Mon. Geom., 394. (H.W.F.)*remotaria* Walker. Cat. Brit. Mus., xxii, 530.**Aplodes** Guenée.*mimosaria* Guenée. Mon. Geom., 386, 388.*rubrifrontaria* Packard. *Ibid.*, 386.**Synchlora** Guenée.*ærata* Fabricius. *glaucaria*. Mon. Geom., 392.*denticulata* Walker. *excurvaria*. *Ibid.*, 381.**Eucrestis** Hübner.*incertata* Walker. *Nemoria gratata*. Mon. Geom., 372. (G.D.)**Nemoria** Hübner.*subcroceata* Walker. Mon. Geom., 372. (F.W.H.)

**Chlorochlamys** Hulst.

*chloroleucaria* Guenée. Mon. Geom., 370: Moth Book, 336.

**Eois** Hübner.

*demissaria* Hübner var. *russata* Hulst. Ent. Am., ii, 187.

*inductata* Guenée. Mon. Geom., 340: Moth Book, 335.

*ossularia* Hübner. *ossulata*. Mon. Geom. 329: Moth Book, 335.

**Leptomeris** Hübner.

*quinquelinearia* Packard. Mon. Geom., 348: Moth Book, 333.  
(C.H.Y.)

**Cinglis** Guenée.

*purata* Guenée. Mon. Geom., 353.

*similaria* Walker. *quadrilincata*. *Ibid.*, 345.

**Synelis** Hulst.

*ennucleata* Guenée. *alabastaria*. Mon. Geom., 347: Moth Book, 333.

*ennucleata* var. *adornata* Prout. Can. Ent., xxxix, 412.

*ennucleata* var. *relevata* Swett. *Ibid.*, xxxix, 141.

**Cosymbia** Hübner.

*lumenaria* Hübner. Mon. Geom., 365: Moth Book, 333.

**Pleuroprucha** Mœschler.

*insulsaria* Guenée. *Deptalia*. Mon. Geom., 335.

**Erastria** Hübner.

*amaturaria* Walker. Mon. Geom., 317: Moth Book, 333.

**Hæmatopsis** Hübner.

*grataria* Fabricius. Mon. Geom., 219: Moth Book, 332.

**Petrophora** Hübner.

*ferrugata* Clerck. *Xanthorhoë ferrugaria*. Mon. Geom., 146.  
(C.R.E.)

**Gypsochroa** Hübner.

*designata* Hufnagel. Mon. Geom., 144: Moth Book, 332.

**Hydriomena** Hübner.

*latirupta* Walker. Mon. Geom., 169: Moth Book, 331.

*multiferata* Walker. Mon. Geom., 81.

**Mesoleuca** Hübner.

- implicata* Guenée. *multilincata*. Mon. Geom., 71. (F.W.H.)  
*intermediata* Guenée. Mon. Geom., 157: Moth Book, 330.  
*lacustrata* Guenée. Mon. Geom., 158: Moth Book, 330.  
*ruficiliata* Guenée. Mon. Geom., 153: Moth Book, 330.

**Orthonama** Hübner.*Percnoptilota* Hulst.

- obstipata* Fabricius. *fluviata* Hübner. Mon. Geom., 78: Moth Book, 330.

**Rheumaptera** Hübner.

- hastata* Linnæus. Mon. Geom., 164: Moth Book, 329.

**Eustroma** Hübner.

- diversilineata* Hübner. Mon. Geom., 126: Moth Book, 329.  
*diversilineata* var. *gracilineata* Guenée. Spec. Gén., x, 476.

**Hydria** Hübner.

- undulata* Linnæus. *Calocalpe*. Mon. Geom., 172: Moth Book, 329.

**Euchoeca** Hübner.

- albovittata* Guenée. Mon. Geom., 189: Moth Book, 328.

**Venusia** Curtis.

- comptaria* Walker. Cat. Brit. Mus., xxi, 406; Moth Book, 328.

**Eucymatoge** Hübner.

- intestinata* Guenée. Mon. Geom., 170: Moth Book, 328.

**Eupithecia** Curtis.

- conformata* Pearsall. *Tephroclystis*. Ent. News, xix, 128.  
*interruptofasciata* Packard. Rept. Peab. Acad. Sci., v, 50.  
*miserulata* Grote. Proc. Phila. Ent. Soc., ii, 32.  
*nebulosa* Hulst. Trans. Am. Ent. Soc., xxiii, 266.  
*packardata* Taylor. *absinthiata*. Mon. Geom., 49. (L.W.S.)

**Heterophleps** Herrich-Schæffer.

- triguttaria* Herrich-Schæffer. Mon. Geom., 193: Moth Book, 327.

**Eudule** Hübner.

- mendica* Walker. Beggar. Cat. Brit. Mus., ii, 576: Moth Book, 327.

**Alsophila** Hübner.

**pometaria** Harris. Fall canker worm. Rept. Conn. Agr. Expt. Sta., 1908, 783; Moth Book, 326.

**Paleacrita** Riley.

**vernata** Peck. Spring canker worm. Rept. Conn. Agr. Expt. Sta., 1908, 782; Moth Book, 324.

**Nyctobia** Hulst.

**limitata** Walker. Mon. Geom., 457; Moth Book, 324.

**Dyspteris** Hübner.

**abortivaria** Herrich-Schäffer. Mon. Geom., 368; Moth Book, 323.

## Family PLATYPTERYGIDÆ.

**Falcaria** Haworth.

**bilineata** Packard. Proc. Phila. Ent. Soc., iii, 376; Moth Book, 321.

**Drepana** Schrank.

**arcuata** Walker. Cat. Brit. Mus., v, 1164; Moth Book, 321.

**Oreta** Walker.

**irrorata** Packard. Moth Book, 321.

**rosea** Walker. *Ibid.*, 321.

**Eudeilinea** Packard.

**herminiata** Guenée. Spec. Gén., x, 58.

## Family LASIOCAMPIDÆ.

**Epicnaptera** Rambur.

**americana** Harris. *Gastropacha*. Moth Book, 314.

**Malacosoma** Hübner.

**americana** Fabricius. *Clisiocampa*. Tent-caterpillar. Conn. Agr. Expt. Sta., Rept. 1902, 142; 1913, 226; Bull. 177; Moth Book, 312.

**disstria** Hübner. *Clisiocampa sylvatica*. Forest tent-caterpillar. N. Y. Agr. Expt. Sta., Bull. 159; Moth Book, 313.

**Tolyte** Hübner.

**velleda** Stoll. Moth Book, 312.



## Family LIPARIDÆ.

**Euproctis** Hübner.

**chrysorrhœa** Linnaeus. Brown-tail moth. Conn. Agr. Expt. Sta., Rept., 1907, 313; Bull. 182; Moth Book, 309.

**Porthetria** Hübner.

**dispar** Linnaeus. *Ocneria*. Gipsy moth. Conn. Agr. Expt. Sta., Rept., 1905, 246; Bull. 186; Moth Book, 308.

**Olene** Hübner.

**achatina** Smith and Abbot. Lep. Ins. Ga., ii, 77; Moth Book, 308.

**cinnamonea** Grote. Proc. Phila. Ent. Soc., vi, 6.

**atomaria** Walker. *obliquata*. Contr. Nat. Hist. Lepidop., ii, 67; Proc. Phila. Ent. Soc., vi, 4.

**atomaria** var. **parallela** Grote and Robinson. Contr. Nat. Hist. Lepidop., ii, 69.

**leucophæa** Smith and Abbot. Lep. Ins. Ga., ii, 78; Moth Book, 308.

**plagiata** Walker. *pinicola* Dyar. Cat. Brit. Mus., iv, 109.

**Hemerocampa** Dyar.

**definita** Packard. *Orgyia*. Proc. Phila. Ent. Soc., iii, 332; Moth Book, 308. (C.R.E.)

**leucostigma** Smith and Abbot. *Orgyia*. White-marked tussock moth. Rept. Conn. Agr. Expt. Sta., 1905, 230; Moth Book, 306.

**Notolophus** Germar.

**antiqua** Linnaeus. Rusty tussock moth. Moth Book, 306.

## Family THYATIRIDÆ.

**Pseudothyatira** Grote.

**cymatophoroides** Guenée. Spec. Gén., v, 13; Moth Book, 304.

**expultrix** Grote. Proc. Phila. Ent. Soc., ii, 58; Moth Book, 304.

**Habrosyne** Hübner.

**scripta** Gosse. *Thyatira*. Cat. Noc., 27; Moth Book, 303.

## Family NOTODONTIDÆ.

**Ellida** Grote.

*caniplaga* Walker. Bomb. Moths, 169: Moth Book, 300.

**Gluphisia** Boisduval.

*septentrionalis* Walker. Bomb. Moths, 90: Moth Book, 300.

**Fentonia** Butler.

*marthesia* Cramer. Bomb. Moths, 257: Moth Book, 300.

**Harpyia** Ochsenheimer.

*borealis* Boisduval. Bomb. Moths, 264: Moth Book, 299.

*cinerea* Walker. Bomb. Moths, 273: Moth Book, 299.

**Cerura** Schrank.

*scitiscrupta* Walker var. *multiscrupta* Riley. Bomb. Moths, 276: Moth Book, 299.

**Hyparpax** Hübner.

*aurora* Smith and Abbot. Bomb. Moths, 284: Moth Book, 299.

**Schizura** Doubleday.

*badia* Packard. Bomb. Moths, 208: Moth Book, 299.

*concinna* Smith and Abbot. Red-humped caterpillar. Bomb. Moths, 212: Moth Book, 298.

*ipomœæ* Doubleday. Bomb. Moths, 194: Moth Book, 298.

*ipomœæ* var. *cinereofrons* Packard. Proc. Phila. Ent. Soc., iii, 366.

*leptinoides* Grote. Bomb. Moths, 199: Moth Book, 299.

*semirufescens* Walker. *eximia*. Bomb. Moths, 210: Cat. Brit. Mus., xxxii, 450.

*unicornis* Smith and Abbot. Bomb. Moths, 203: Moth Book, 298.

**Ianassa** Walker.

*lignicolor* Walker. Bomb. Moths, 189: Moth Book, 298.

**Misogada** Walker.

*unicolor* Packard. *Heterocampa*. Bomb. Moths, 254: Moth Book, 297.

**Heterocampa** Doubleday.

- bilineata** Packard. Bomb. Moths, 218: Moth Book, 297.  
**biundata** Walker. Bomb. Moths, 235: Moth Book, 297.  
**guttivitta** Walker. Saddled prominent. Bomb. Moths, 230:  
 Me. Agr. Expt. Sta., Bull. 161.  
**manteo** Doubleday. Bomb. Moths, 224: Moth Book, 297.  
 (C.R.E.)  
**obliqua** Packard var. **trouvelottii** Packard. Proc. Phila. Ent.  
 Soc., iii, 369.  
**umbrata** Walker. Bomb. Moths, 249. (A.B.C.)

**Symmerista** Hübner.

- albifrons** Smith and Abbot. Bomb. Moths, 179: Moth Book,  
 296.

**Nerice** Walker.

- bidentata** Walker. Bomb. Moths, 171: Moth Book, 296.

**Nadata** Walker.

- gibbosa** Smith and Abbot. Bomb. Moths, 142: Moth Book,  
 296.

**Lophodonta** Packard.

- angulosa** Smith and Abbot. Bomb. Moths, 147: Moth Book,  
 295.  
**ferruginea** Packard. Bomb. Moths, 150: Moth Book, 295.  
 (F.W.H.)

**Hyperæschra** Butler.

- georgica** Herrich-Schæffer. *Drymonia*. Bomb. Moths, 153:  
 Moth Book, pl. xl, 7.  
**stragula** Grote. *Notodonta*. Bomb. Moths, 165: Moth Book,  
 pl. xl, 1.

**Pheosia** Hübner.

- rimosa** Packard. *dimidiata*. Bomb. Moths, 158: Moth Book,  
 295.

**Datana** Walker.

- angusii** Grote and Robinson. Bomb. Moths, 110: Moth Book,  
 293.  
**contracta** Walker. Bomb. Moths, 122.  
**integerrima** Grote and Robinson. Bomb. Moths, 120: Moth  
 Book, 294.

- major* Grote and Robinson. Bomb. Moths, 113.  
*ministra* Drury. Yellow-necked caterpillar. Bomb. Moths,  
 106: Moth Book, 293.  
*perspicua* Grote and Robinson. Bomb. Moths, 117: Moth  
 Book, 294.

**Melalopha** Hübner.

- albosigma* Fitch. Bomb. Moths, 138: Moth Book, 293.  
*albosigma* var. *specifica* Dyar. Can. Ent., xxiv, 180.  
*apicalis* Walker. *vau.* Bomb. Moths, 125: Moth Book, 293.  
*inclusa* Hübner. *Ichthyura americana*. Bomb. Moths, 131:  
 Moth Book, 293.  
*inclusa* var. *inversa* Packard. *palla*. Proc. Phila. Ent. Soc.,  
 iii, 352. (H.W.F.)  
*strigosa* Grote. Bomb. Moths, 130. (H.W.F.)

**Apatelodes** Packard.

- angelica* Grote. Bomb. Moths, 103: Moth Book, 293.  
*torrefacta* Smith and Abbot. Bomb. Moths, 100: Moth Book,  
 292.

Family NOCTUIDÆ.

**Hypena** Schrank.

- humuli* Harris. U. S. Nat. Mus. Bull. No. 48, 114: Moth Book,  
 287.

**Plathypena** Grote.

- scabra* Fabricius. Green clover worm. Rept. Conn. Agr.  
 Expt. Sta., 1908-9, 828: 1919, 165: Moth Book, 287.

**Bomolocha** Hübner.

- abalinealis* Walker. U. S. Nat. Mus. Bull., No. 48, 100: Moth  
 Book, 286.  
*atomaria* Smith. Trans. Am. Ent. Soc., xxix, 216. (L.B.W.)  
*baltimoralis* Guenée. U. S. Nat. Mus. Bull., No. 48, 96: Moth  
 Book, 286.  
*bijugalis* Walker. U. S. Nat. Mus. Bull., No. 48, 97: Moth  
 Book, 286.  
*madefactalis* Guenée. *profecta*. U. S. Nat. Mus. Bull., No.  
 48: 102: Moth Book, 286.  
*manalis* Walker. U. S. Nat. Mus. Bull., No. 48, 95: Moth  
 Book, 286.

**scutellaris** Grote. U. S. Nat. Mus. Bull., No. 48, 98: Moth Book, 286.

**toreuta** Grote. U. S. Nat. Mus. Bull., No. 105; Moth Book, 286.

**Lomanaltes** Grote.

**eductalis** Walker. U. S. Nat. Mus. Bull., No. 48, 109: Moth Book, 285.

**Salia** Hübner.

**interpuncta** Grote. U. S. Nat. Mus. Bull., No. 48, 90: Trans. Am. Ent. Soc., iv, 93.

**Capis** Grote.

**curvata** Grote. Can. Ent., xiv, 20: Moth Book, 285.

**Palthis** Hübner.

**angulalis** Hübner. U. S. Nat. Mus. Bull., No. 48, 86: Moth Book, 285.

**asopialis** Guenée. U. S. Nat. Mus. Bull., No. 48, 87: Moth Book, 285.

**Dircetis** Grote.

**vitrea** Grote. Bull. Geol. Geog. Surv. Terr., iv, 186.

**Gaberasa** Walker.

**ambigualis** Walker. U. S. Nat. Mus., Bull. No. 48, 81: Moth Book, 284.

**Heterogramma** Guenée.

**pyramusalis** Walker. U. S. Nat. Mus. Bull., No. 48, 79: Moth Book, 284.

**Menopsimus** Dyar.

**caducus** Dyar. Jour. N. Y. Ent. Soc., xv, 110.

**Tetanolita** Grote.

**floridana** Smith. U. S. Nat. Mus. Bull., No. 48, 63.

**Bleptina** Guenée.

**caradrinalis** Guenée. U. S. Nat. Mus. Bull., No. 48, 58: Moth Book, 283.

**Renia** Guenée.

**clitosalis** Walker. U. S. Nat. Mus. Bull., No. 48, 72.

**discoloralis** Guenée. *Ibid.*, No. 48, 69: Moth Book, 283.

**factiosalis** Walker. U. S. Nat. Mus. Bull., No. 48, 73.

**flavipunctalis** Geyer. *Ibid.*, No. 48, 74.

**Chytolita** Grote.

**morbidalis** Guenée. U. S. Nat. Mus. Bull., No. 48, 56: Moth Book, 282.

**Philometra** Grote.

**eumelusalis** Walker. U. S. Nat. Mus. Bull., No. 48, 53.

**hanhami** Smith. Can. Ent., xxxi, 207. (C.R.E.)

**Hormisa** Walker.

**absorptalis** Walker. U. S. Nat. Mus. Bull., No. 48, 46: Moth Book, 282.

**litophora** Grote. U. S. Nat. Mus. Bull., No. 48, 48.

**Zanclognatha** Lederer.

**cruralis** Guenée. U. S. Nat. Mus. Bull., No. 48, 40.

**lævigata** Grote. *Ibid.*, No. 48, 36: Moth Book, 281.

**lævigata** var. **reversata** Dyar. U. S. Nat. Mus. Bull. No. 52, 241. (C.R.E.)

**lituralis** Hübner. U. S. Nat. Mus. Bull., No. 48, 32: Moth Book, 281.

**marcidilinea** Grote. U. S. Nat. Mus. Bull., No. 48, 43: Trans. Am. Ent. Soc., iv, 97.

**ochreipennis** Grote. U. S. Nat. Mus. Bull., No. 48, 44: Moth Book, 281.

**pedipilalis** Guenée. U. S. Nat. Mus. Bull., No. 48, 39.

**Epizeuxis** Hübner.

**æmula** Hübner. U. S. Nat. Mus. Bull., No. 48, 26: Moth Book, 281.

**americalis** Guenée. U. S. Nat. Mus. Bull., No. 48, 23: Moth Book, 281.

**denticularis** Harvey. U. S. Nat. Mus. Bull., No. 48, 19: Moth Book, 281.

**diminuendis** Barnes and McDunnough. *Camptylchila*. Contr. Nat. Hist. Lepidop., iv, 126.

**humerala** Smith. Ann. N. Y. Acad. Sci., xviii, 123. (C.R.E.)

**julia** Barnes and McDunnough. *Camptylchila*. Contr. Nat. Hist. Lepidop., iv, 126.

**lubricalis** Geyer. U. S. Nat. Mus. Bull., No. 48, 17: Moth Book, 281.

**majoralis** Smith. U. S. Nat. Mus. Bull., No. 48, 25. (C.R.E.)

**merricki** Smith. Can. Ent., xxxvii, 260.

**rotundalis** Walker. U. S. Nat. Mus. Bull., No. 48, 20.

**scobialis** Grote. *Ibid.*, No. 48, 21: Moth Book, 281.

**Erebus** Latreille.

**odora** Linnæus. Moth Book, 279.

**Phæocyma** Hübner.

**æruginosa** Guenée. *Ypsia*. Proc. U. S. Nat. Mus., xxxv, 233.

**cingulifera** Walker *Homoptera. woodii*. *Ibid.*, xxxv, 261.  
(H.W.F.)

**halata** Smith. Proc. U. S. Nat. Mus., xxxv, 252. (A.B.C.)

**horrida** Hübner. *Zalc*. *Ibid.*, xxxv, 270: Moth Book, 277.

**lunata** Drury. *Homoptera. Edusa*. Proc. U. S. Nat. Mus.,  
xxxv, 225: Moth Book, 278.

**minerea** Guenée. *Homoptera*. Proc. U. S. Nat. Mus., xxxv,  
238. (H.W.F.)

**undularis** Drury. *Ypsia*. *Ibid.*, xxxv, 231: Moth Book, 278.

**unilineata** Grote. *Homoptera*. Proc. U. S. Nat. Mus., xxxv,  
245: Moth Book, 278.

**Strenoloma** Grote.

**lunilinea** Grote. Bull. Buff. Soc. Nat. Sci., i, 127: Moth Book,  
276. (C.R.E.)

**Celiptera** Guenée.

**frustulum** Guenée. Moth Book, 275.

**Remigia** Guenée.

**repanda** Fabricius. Moth Book, 274. (C.H.Y.)

**Agnomonía** Hübner.

**analís** Drury. Moth Book, 275. (C.R.E.)

**Parallelia** Hübner.

**bistriaris** Hübner. Moth Book, 273.

**Panapoda** Guenée.

**rufimargo** Hübner. Moth Book, 273.

**rufimargo** var. **carneicosta** Guenée. Moth Book, 273.

**Phoberia** Hübner.

**atomaris** Hübner. Moth Book, 273.

**Euparthenos** Grote.

**nubilís** Hübner. Moth Book, 272.

**Allotria** Hübner.

**elonympha** Hübner. Moth Book, 272.

**Catocala** Schrank.

- amatrix* Hübner. Moth Book, 263.
- amatrix* var. *nurus* Walker. *Ibid.*, 263. (C.R.E.)
- amica* Hübner. *Ibid.*, 269.
- amica* var. *androphila* Guenée. Trans. Am. Ent. Soc., iv, 18. (C.R.E.)
- amica* var. *lineella* Grote. *Ibid.*, iv, 18: Moth Book, 269.
- amica* var. *nerissa* Hy. Edwards. Bull. Brook. Ent. Soc., iii, 61: Moth Book, 269. (C.H.Y.)
- antinympa* Hübner. Trans. Am. Ent. Soc., iv, 13: Moth Book, 267.
- badia* Grote and Robinson. Proc. Phila. Ent. Soc., vi, 22: Moth Book, 267.
- blandula* Hulst. *polygama*. Trans. Am. Ent. Soc., iv, 15.
- briseis* Edwards. Proc. Phila. Ent. Soc., ii, 508: Moth Book, 264.
- cara* Guenée. Trans. Am. Ent. Soc., iv, 7: Moth Book, 263.
- cara* var. *carissima* Hulst. Bull. Brook. Ent. Soc., ii, 97. (C.R.E.)
- cerogama* Guenée. Trans. Am. Ent. Soc., iv, 9: Moth Book, 266.
- coccinata* Grote. Trans. Am. Ent. Soc., iv, 6: Moth Book, 265.
- concumbens* Walker. Trans. Am. Ent. Soc., iv, 7: Moth Book, 263.
- dejecta* Strecker. Bull. Brook. Ent. Soc., ii, 97: Moth Book, 261.
- epione* Drury. Trans. Am. Ent. Soc., iv, 2: Moth Book, 260.
- gracilis* Edwards. Proc. Phila. Ent. Soc., ii, 511: Moth Book, 269.
- grynea* Cramer. Trans. Am. Ent. Soc., iv, 16: Moth Book, 269.
- habilis* Grote. Trans. Em. Ent. Soc., iv, 11: Moth Book, 268.
- ilia* Cramer. Trans. Am. Ent. Soc., iv, 8: Moth Book, 265.
- ilia*, var. *uxor* Guenée. Moth Book, 265.
- innubens* Guenée. Spec. Gén., vii, 98: Moth Book, 265. (F.W.H.)
- innubens* var. *flavidalis* Grote. Trans. Am. Ent. Soc., v, 95. (F.W.H.)
- marmorata* Edwards. Proc. Phila. Ent. Soc., ii, 508: Moth Book, 263. (C.R.E.)



- micronympha* Guenée var. *fratercula* Grote and Robinson. Proc. Phila. Ent. Soc., vi, 24: Moth Book, 269.
- micronympha* var. *gisela* Meyer. Bull. Brook. Ent. Soc., ii, 96: Moth Book, 269.
- neogama* Smith and Abbot. Trans. Am. Ent. Soc., iv, 9: Moth Book, 266.
- paleogama* Guenée. Trans. Am. Ent. Soc., iv, 10: Moth Book, 266.
- paleogama* var. *annida* Fager. Can. Ent., xiv, 120.
- parta* Guenée. Trans. Am. Ent. Soc., iv, 6: Moth Book, 264.
- piatrix* Grote. Trans. Am. Ent. Soc., iv, 10: Moth Book, 266.
- præclara* Grote and Robinson. Proc. Phila. Ent. Soc., vi, 25: Moth Book, 269.
- relicta* Walker. Trans. Am. Ent. Soc., iv, 4: Moth Book, 262. (C.R.E.)
- relicta* var. *bianca* Hy. Edwards. Bull. Brook. Ent. Soc., iii, 54: Moth Book, 262.
- relicta* var. *clara* Beutenmüller. Bull. Am. Mus. Nat. Hist., xix, 506.
- relicta* var. *phrynica* Hy. Edwards. Bull. Brook. Ent. Soc., iii, 54. (C.R.E.)
- residua* Grote. Proc. Bost. Soc. Nat. Hist., xvi, 242.
- retecta* Grote. Trans. Am. Ent. Soc., iv, 4: Moth Book, 262.
- robinsonii* Grote. Trans. Am. Ent. Soc., iv, 20: Moth Book, 262.
- sancta* Hulst. *connubialis*. *amasia*. Trans. Am. Ent. Soc., iv, 16: Moth Book, 268.
- subnata* Grote. Trans. Am. Ent. Soc., iv, 9: Moth Book, 266. (C.R.E.)
- tristis* Edwards. Proc. Phila. Ent. Soc., ii, 511: Moth Book, 262.
- ultronia* Hübner. Moth Book, 265.
- ultronia* var. *adriana* Hy. Edwards. Bull. Brook. Ent. Soc., iii, 57.
- unijuga* Walker. Trans. Am. Ent. Soc., iv, 5: Moth Book, 264.
- vidua* Smith and Abbot. *viduata*. Trans. Am. Ent. Soc., iv, 3: Moth Book, 261.
- Syneda** Guenée.
- graphica* Hübner. Moth Book, 259.

**Meliopotis** Hübner.

*limbolaris* Geyer. Moth Book, 258.

**Euclidea** Ochsenheimer.

*cuspidata* Hübner. Moth Book, 258.

**Drasteria** Hübner.

*crassiuscula* Haworth. Lep. Brit., 259: Moth Book, 257.  
(C.H.Y.)

*erectea* Cramer. Moth Book, 257.

**Homopyralis** Grote.

*contracta* Walker. *tactus*. Moth Book, 256.

*discalis* Grote. Can. Ent., viii, 206.

**Melanomma** Grote.

*auricinctaria* Grote. Trans. Am. Ent. Soc., v, 117.

**Hyamia** Walker.

*perditalis* Walker. *Spargoloma umbrifascia*. Moth Book, 254.

**Pangrapta** Hübner.

*decoralis* Hübner. Moth Book, 254.

**Phalænostola** Grote.

*larentioides* Grote. Trans. Am. Ent. Soc., iv, 302: Moth Book,  
254.

**Cydosia** Westwood.

*aurivitta* Grote and Robinson. Trans. Am. Ent. Soc., ii, 186:  
Moth Book, 253.

**Euherrichia** Grote.

*mollissima* Guenée. Moth Book, 253.

**Metathorasa** Moore.

*monetifera* Guenée. Spec. Gén., vi, 295: Moth Book, 252.  
(F.W.H.)

**Tarache** Hübner.

*candefacta* Hübner. *Acontia*. Trans. Am. Ent. Soc., xxvii, 82.

*delecta* Walker. *Ibid.*, xxvii, 60: Moth Book, 251.

*erastrioides* Guenée. Trans. Am. Ent. Soc., xxvii, 71: Moth  
Book, 251.

**Characoma** Walker.

*nilotica* Rogenhofer. *Nyctocola protecella* Dyar. Jour. N. Y.  
Ent. Soc., vi, 40.

**Sarothripus** Curtis.**revayana** Scopoli. *Nyctcola revayana*. Ann. Hist. Nat., v, 116.**Chamyris** Guenée.**cerintha** Treitschke. Moth Book, 250.**Thalpochares** Lederer.**fractilinea** Smith. Ann. N. Y. Acad. Sci., xviii, 125.**Prothymia** Hübner.**semipurpurea** Walker. Moth Book, 248.**Lithacodia** Hübner.**bellicula** Hübner. Moth Book, 248.**Galgula** Guenée.**hepara** Guenée. Moth Book, 247.**hepara** var. **partita** Guenée. Moth Book, 247.**Eustrotia** Hübner.**æria** Grote. Papilio, i, 11.**albidula** Guenée. Moth Book, 247.**apicosa** Haworth. *Ibid.*, 247.**carneola** Guenée. *Ibid.*, 247.**includens** Walker. Cat. Brit. Mus., xii, 813.**muscoscula** Guenée. Moth Book, 247.**nigellus** Strecker. *immuna*. Ann. N. Y. Acad. Sci., xviii, 124.**puncticosta** Smith. *Ibid.*, xviii, 122.**synochitis** Grote and Robinson. Trans. Am. Ent. Soc., i, 357:  
Moth Book, 247.**Phiprosopus** Grote.**callitrichoides** Grote. Trans. Am. Ent. Soc., iv, 90: Moth  
Book, 245.**Doryodes** Guenée.**bistriaris** Geyer. Moth Book, 245.**Rivula** Guenée.**propinqualis** Guenée. Moth Book, 245.**Amolita** Grote.**fessa** Grote. Bull. Buff. Soc. Nat. Sci., ii, 158: Moth Book, 244.**Eucalyptera** Morrison.**humeralis** Smith. Trans. Am. Ent. Soc., xxix, 220. (C.R.E.)

**Scolecampa** Guenée.

**liburna** Geyer. Moth Book, 244.

**Alabama** Grote.

**argillacea** Hübner. Cotton-worm moth. Moth Book, 243.

**Marasmalus** Grote.

**inficita** Walker. Moth Book, 242.

**ventilator** Grote. Trans. Am. Ent. Soc., iv, 89. (A.B.C.)

**Pæctes** Hübner.

**abrostoloides** Guenée. Moth Book, 241.

**oculatrix** Guenée. Moth Book, 241.

**Ogdoconta** Butler.

**cinereola** Guenée. Moth Book, 241.

**Autographa** Hübner.

**basigera** Walker. *Plusia*. Cat. Brit. Mus., xxxiii, 836: Moth Book, 240. (C.H.Y.)

**biloba** Stephens. *Plusia*. Moth Book, 238.

**brassicæ** Riley. *Plusia*. Cabbage looper. Cabbage *Plusia*. *Ibid.*, 238.

**falcigera** Kirby var. **simplex** Guenée. *Ibid.*, 240.

**precationis** Guenée. *Ibid.*, 238.

**Eosphropteryx**.

**thyatiroides** Guenée. Moth Book, 237. (A.H.Me.)

**Plusia** Hübner.

**ærea** Hübner. Moth Book, 237.

**balluca** Geyer. *Ibid.*, 237. (H.H.A.)

**Panchrysia** Hübner.

**purpurigera** Walker. Moth Book, 236.

**Calpe** Treitschke.

**canadensis** Bethune. Proc. Phila. Ent. Soc., iv, 213: Moth Book, 236.

**Euthisanotia** Hübner.

**grata** Fabricius. *Eudryas*. Pearl wood-nymph. Jour. N. Y. Ent. Soc., ii, 25: Moth Book, 232.

**unio** Hübner. *Eudryas*. Beautiful wood-nymph. Jour. N. Y. Ent. Soc., ii, 24: Moth Book, 232.

**Psychomorpha** Harris.

**epimenis** Drury. Jour. N. Y. Ent. Soc., ii, 19: Moth Book, 232.

**Schinia** Hübner.

**arcifera** Guenée. Spec. Gén., vi, 184: Moth Book, 228.

**brevis** Grote. Proc. Phila. Ent. Soc., iii, 530: Moth Book, 228.

**marginata** Haworth. Lep. Brit., 374, 1810: Moth Book, 228.

**nundina** Drury. Ill. Exot. Ent., i, 36: Moth Book, 227.

**Eupanychis** Grote.

**spinosa** Guenée. *hirtella*. Spec. Gén., vi, 182: Moth Book, 226.

**Rhodophora** Guenée.

**florida** Guenée. *Alaria*. Spec. Gén., vi, 171: Moth Book, 224.

**Derrima** Walker.

**stellata** Walker. Cat. Brit. Mus., xxii, 770: Moth Book, 224.

**Heliothis** Ochsenheimer.

**obsoleta** Fabricius. *armiger*. Cotton boll-worm. Corn ear-worm. Moth Book, 222.

**Chloridea** Westwood.

**virescens** Fabricius. *rhexia*. Tobacco bud-worm. Rept. Conn. Agr. Expt. Sta., 1909, 367: Moth Book, 222.

**Atethmia** Hübner.

**rectifascia** Grote. Proc. Bost. Soc. Nat. Hist., xvi, 242. (H.W.F.)

**Ipimorpha** Hübner.

**pleonectusa** Grote. Bull. Buff. Soc. Nat. Sci., i, 191: Moth Book, 220.

**Calymnia** Hübner.

**orina** Guenée. Moth Book, 219.

**Epiglæa** Grote.

**decliva** Grote. Moth Book, 219. (J.T.K.)

**Glæa** Hübner.

**inulta** Grote. Rept. Peab. Acad. Sci., vi, 30: Moth Book, 218. (E.F.)

**sericea** Morrison. Proc. Bost. Soc. Nat. Hist., xvii, 151: Moth Book, 218. (E.F.)

**Scopelosoma** Curtis.

- ceromatica* Grote. Bull. Buff. Soc. Nat. Sci., ii, 70: Moth Book, 218.  
*devia* Grote. Proc. Acad. Nat. Sci., Phila., 1874, 209.  
*morrisoni* Grote. Bull. Buff. Soc. Nat. Sci., ii, 70.  
*sidus* Guenée. Spec. Gén., v, 386.  
*tristigmata* Grote. Can. Ent., ix, 156.  
*walker*i Grote. Proc. Phila. Ent. Soc., ii, 439: Moth Book, 218.

**Orthosia** Ochsenheimer.

- bicolorago* Guenée var. *ferruginoides* Guenée. Spec. Gén., v, 389.  
*helva* Grote. Bull. Buff. Soc. Nat. Sci., ii, 310: Moth Book, 217.  
*inops* Grote. Bull. Geol. Geog. Surv. Terr., vi, 270.  
*lutos*a Andrews. Can. Ent., ix, 99.  
*ralla* Grote and Robinson. Trans. Am. Ent. Soc., i, 346.  
*rubrescens* Walker.

**Cosmia** Ochsenheimer.

- paleacea* Esper. Schmett. Eur., pl. 122, f. 504: Moth Book, 217. (C.R.E.)

**Fagitana** Walker.

- littera* Guenée. Moth Book, 217.

**Tapinostola** Lederer.

- variana* Morrison. Moth Book, 216.

**Scoliopteryx** Germar.

- libatrix* Linnæus. Moth Book, 215.

**Eucirroëdia** Grote.

- pampina* Guenée. Moth Book, 215.

**Conservula** Grote.

- anodonta* Guenée. Moth Book, 215.

**Trigonophora** Hübner.

- periculosa* Guenée. Spec. Gén., vi, 65.  
*periculosa* var. *v-brunneum* Grote. Moth Book, 215.

**Brotolomia** Lederer.

- iris* Guenée. Moth Book, 215.

**Jodia** Hübner.

*rufago* Hübner. Moth Book, 215.

**Pyrrhia** Hübner.

*umbra* Hufnagel. Moth Book, 214.

**Papaipema** Smith.

*astuta* Bird. Can. Ent., xxxix, 272. (H.B.)

*baptisiæ* Bird. *Hydracia*. *Ibid.*, xxxiv, 109.

*cataphracta* Grote. *Hydracia*. Trans. Am. Ent. Soc., xxvi,  
41: Moth Book, 214.

*cerussata* Grote. Trans. Am. Ent. Soc., xxvi, 38. (H.B.)

*duovata* Bird. Can. Ent., xxxiv, 115. (H.B.)

*duplicata* Bird. *Ibid.*, xl, 25. (H.B.)

*frigida* Smith. Trans. Am. Ent. Soc., xxvi, 39. (H.B.)

*impecuniosa* Grote. *Ibid.*, xxvi, 42. (H.B.)

*inquæsita* Grote and Robinson. *Ibid.*, i, 344: Moth Book, 213.

*marginidens* Guenée. *birdii*. Spec. Gén., v, 123.

*maritima* Bird. Can. Ent., xli, 59. (H.B.)

*nitela* Guenée. Trans. Am. Ent. Soc., xxvi, 34.

*nitela* var. *nebris* Guenée. *Ibid.*, xxvi, 34: Moth Book, 213.

*pterisii* Bird. Can. Ent., xxxix, 310. (H.B.)

*purpurifascia* Grote and Robinson. Trans. Am. Ent. Soc.,  
xxvi, 33. (H.B.)

*rigida* Grote. Can. Ent., ix, 87. (C.R.E.)

*rutila* Guenée. Trans. Am. Ent. Soc., xxvi, 43.

*sciata* Bird. Can. Ent., xl, 28. (H.B.)

**Gortyna** Ochsenheimer.

*nictitans* Borkhausen. Moth Book, 212.

*nictitans* var. *americana* Speyer. *atlantica*. Trans. Am. Ent.  
Soc., xxvi, 18.

*velata* Walker. *sera*. *Ibid.*, xxvi, 16: Moth Book, 212.

**Achatodes** Guenée.

*zeæ* Harris. Moth Book, 212.

**Nonagria** Ochsenheimer.

*oblonga* Grote. *subcarnea*. Can. Ent., xv, 175.

**Sphida** Grote.

*obliqua* Walker. Moth Book, 211.

**Cucullia** Schrank.

- asteroides* Guenée. Moth Book, 208.  
*convexipennis* Grote and Robinson. Trans. Am. Ent. Soc., ii,  
 201: Moth Book, 208.  
*speyeri* Lintner. Twenty-sixth Rept. N. Y. State Mus., 1872,  
 168.

**Calocampa** Stephens.

- cineritia* Grote. Proc. Acad. Nat. Sci. Phila., 1874, 210.  
*curvimacula* Morrison. Bull. Buff. Soc. Nat. Sci., ii, 191:  
 Moth Book, 208.  
*nupera* Lintner. Bull. Buff. Soc. Nat. Sci., ii, 188: Moth Book,  
 208.

**Xylina** Ochsenheimer.

- antennata* Walker. *cinerca*. Cat. Brit. Mus., xiv, 1733: Moth  
 Book, 206.  
*bethunei* Grote and Robinson. Trans. Am. Ent. Soc., i, 354.  
*disposita* Morrison. Bull. Buff. Soc. Nat. Sci., ii, 116: Moth  
 Book, 206.  
*fagina* Morrison. Bull. Buff. Soc. Nat. Sci., ii, 115.  
*ferrealis* Grote. Rept. Peab. Acad. Sci., vi, 32.  
*grotei* Riley. Papilio, ii, 102.  
*pexata* Grote. Rept. Peab. Acad. Sci., vi, 35: Moth Book, 207.  
*thaxteri* Grote. Bull. Buff. Soc. Nat. Sci., ii, 196: Moth Book,  
 207.  
*unimoda* Lintner. Ent. Cont., ix, 96: Moth Book, 207.

**Tricholita** Grote.

- signata* Walker. Moth Book, 205.

**Graphiphora** Hübner.

- alia* Guenée. Moth Book, 204.  
*furfurata* Grote. Proc. Acad. Nat. Sci., Phila., 1874, 201.  
*oviducta* Guenée. Spec. Gén., v, 357: Moth Book, 204.  
 (C.R.E.)  
*revicta* Morrison. Proc. Bost. Soc. Nat. Hist., xviii, 241.  
*subterminata* Smith. Proc. U. S. Nat. Mus., x, 476.

**Crocigrapha** Grote.

- normani* Grote. Can. Ent., vi, 115: Moth Book, 204.



**Orthodes** Guenée.

- crenulata* Butler. Moth Book, 203.  
*cynica* Guenée. Spec. Gén., v, 375: Moth Book, 203.  
*vecors* Guenée. Spec. Gén., v, 376: Moth Book, 203.

**Heliophila** Hübner.*Leucania* Ochsenheimer.

- albilinea* Hübner. Moth Book, 201.  
*commoides* Guenée. *Ibid.*, 203.  
*luteopallens* Smith. Proc. U. S. Nat. Mus., xxv, 180.  
*multilinea* Walker. Cat. Brit. Mus., ix, 97: Moth Book, 202.  
*phragmitidicola* Guenée. Spec. Gén., v, 89.  
*pseudargyria* Guenée. Moth Book, 201.  
*unipuncta* Haworth. Army worm. Rept. Conn. Agr. Expt. Sta., 1914, 157: Moth Book, 200.

**Nephelodes** Guenée.

- minians* Guenée var. *violans* Guenée. Spec. Gén., v, 130.

**Morrisonia** Grote.

- confusa* Hübner. Proc. U. S. Nat. Mus., xv, 85: Moth Book, 197.  
*sectilis* Guenée. *civicta*. Proc. U. S. Nat. Mus., xv, 83: Moth Book, 196.

**Mamestra** Ochsenheimer.

- adjuncta* Boisduval. Proc. U. S. Nat. Mus., xvi, 237: Moth Book, 194.  
*assimilis* Morrison. Proc. U. S. Nat. Mus., xvi, 234. (C.R.E.)  
*congermana* Morrison. *Ibid.*, xvi, 229: Moth Book, 193.  
*crisifera* Walker. *lubens*. Proc. U. S. Nat. Mus., xvi, 233.  
*cuneata* Grote. *Ibid.*, xvi, 261.  
*detracta* Walker. *Ibid.*, xiv, 211: Moth Book, 192.  
*distincta* Hübner. Proc. U. S. Nat. Mus., xiv, 212.  
*goodellii* Grote. Can. Ent., vii, 223.  
*grandis* Boisduval. Proc. U. S. Nat. Mus., xvi, 224: Moth Book, 193.  
*latex* Guenée. Spec. Gén., vi, 78.  
*legitima* Grote. Proc. Phila. Ent. Soc., iii, 82.  
*lilacina* Harvey. Moth Book, 194. (H.W.F.)

- lorea** Guenée. Proc. U. S. Nat. Mus., xvi, 262: Moth Book, 195.
- meditata** Grote. Proc. U. S. Nat. Mus., xiv, 210: Moth Book, 192.
- picta** Harris. Proc. U. S. Nat. Mus., xvi, 231: Moth Book, 193.
- purpurissata** Grote. Proc. Phila. Ent. Soc., iii, 82: Moth Book, 192. (C.R.E.)
- renigera** Stephens. Proc. U. S. Nat. Mus., xvi, 250: Moth Book, 195.
- rosea** Harvey. Proc. U. S. Nat. Mus., xvi, 229: Moth Book, 193.
- subjuncta** Grote and Robinson. Proc. U. S. Nat. Mus., xvi, 223: Moth Book, 193.
- trifolii** Rottenburg. Proc. U. S. Nat. Mus., xvi, 226: Moth Book, 193.
- vicina** Grote. Moth Book, 195. (H.W.F.)

**Anytus** Grote.

- privatus** Walker. *sculptus*. Moth Book, 191.

**Paragrotis** Pratt.

- bostoniensis** Grote. Proc. Acad. Nat. Sci., Phila., 1874, 203.
- detersa** Walker. *pitychrous*. Cat. Brit. Mus., ix, 212: Moth Book, 188. (E.F.)
- insulsa** Walker. *Euxoa. Carneades*. Moth Book, 189.
- messoria** Harris. *Euxoa. Carneades*. U. S. Nat. Mus. Bull., 38, 169: Moth Book, 188.
- obeliscoides** Guenée. *Euxoa. Carneades*. U. S. Nat. Mus. Bull., 38, 199: Moth Book, 190. (C.R.E.)
- perpolita** Morrison. *Euxoa. Carneades*. U. S. Nat. Mus. Bull., 38, 151: Moth Book, 188.
- redimicula** Morrison. *Euxoa. Carneades*. U. S. Nat. Mus. Bull., 38, 202: Moth Book, 190.
- tessellata** Harris. *Euxoa. Carneades*. U. S. Nat. Mus. Bull., 38, 192: Moth Book, 189.
- velleripennis** Grote. *Euxoa. Carneades*. U. S. Nat. Mus. Bull., 38, 153: Moth Book, 188.

**Porosagrotis** Smith.

**vetusta** Walker. *murcnula*. U. S. Nat. Mus. Bull., 38, 212:  
Moth Book, 187. (E.F.)

**Feltia** Walker.

**annexa** Treitschke. U. S. Nat. Mus. Bull., 38, 122: Moth  
Book, 187.

**gladiaria** Morrison. U. S. Nat. Mus. Bull., 38, 117: Moth  
Book, 186.

**jaculifera** Guenée. U. S. Nat. Mus. Bull., 38, 112.

**jaculifera** var. **herilis** Grote. *Ibid.*, 38, 113: Moth Book, 186.

**subgothica** Haworth. U. S. Nat. Mus. Bull., 38, 111: Moth  
Book, 186.

**venerabilis** Walker. U. S. Nat. Mus. Bull., 38, 117: Moth  
Book, 186.

**volubilis** Harvey. U. S. Nat. Mus. Bull., 38, 121: Moth Book,  
186.

**Noctua** Linnæus.

**bicarnea** Guenée. U. S. Nat. Mus. Bull., 38, 81: Moth Book,  
183.

**clandestina** Harris. U. S. Nat. Mus. Bull., 38, 94: Moth  
Book, 184.

**c-nigrum** Linnæus. U. S. Nat. Mus. Bull., 38, 82: Moth Book,  
183.

**cynica** Smith. Jour. N. Y. Ent. Soc., vi, 101. (C.R.E.)

**haruspica** Grote. Bull. Buff. Soc. Nat. Sci., ii, 212: Moth  
Book, 184. (C.H.Y.)

**lubricans** Guenée. U. S. Nat. Mus. Bull., 38, 96: Moth Book,  
185.

**normaniana** Grote. U. S. Nat. Mus. Bull., 38, 79: Moth Book,  
183.

**phyllophora** Grote. U. S. Nat. Mus. Bull., 38, 85.

**pecta** Linnæus. *Ibid.*, 38, 89: Moth Book, 184.

**smithii** Snellen. *baja*. Jour. N. Y. Ent. Soc., vi, 99.

**Peridroma** Hübner.

**incivis** Guenée. U. S. Nat. Mus. Bull., 38, 72: Moth Book,  
183. (F.W.H.)

**margaritosa** Haworth var. **saucia** Hübner. Variegated cut  
worm. U. S. Nat. Mus. Bull., 38, 70: Moth Book, 182.

**Agrotis** Ochsenheimer.

- badinodis** Grote. Can. Ent., vi, 13; Moth Book, 181. (E.F.)  
**geniculata** Grote and Robinson. U. S. Nat. Mus. Bull., 38, 64:  
 Moth Book, 182.  
**ypsilon** Rottenburg. Black cut worm. Rept. Conn. Agr.  
 Expt. Sta., 1906, 265; Moth Book, 182.

**Epipsilia** Hübner.*Pachnobia* Guenée.

- fishi** Grote. Bull. Geol. Surv. Terr., iv, 175.  
**manifesta** Morrison. U. S. Nat. Mus. Bull., 38, 55.  
**monochromatea** Morrison. Ent. News, xxx, 61.  
**salicarum** Walker. U. S. Nat. Mus. Bull., 38, 56; Moth Book,  
 180.

**Semiophora** Stephens.

- elimata** Guenée. U. S. Nat. Mus. Bull., 38, 51; Moth Book,  
 180. (F.W.H.)  
**opacifrons** Grote. U. S. Nat. Mus. Bull., 38, 97; Moth Book,  
 180. (C.R.E.)

**Eueretagrotis** Smith.

- sigmoides** Guenée. U. S. Nat. Mus. Bull., 38, 48; Moth Book,  
 179.

**Adelphagrotis** Smith.

- prasina** Fabricius. *herbacea*. U. S. Nat. Mus. Bull., 38, 41:  
 Moth Book, 179.

**Rhynchagrotis** Smith.

- alternata** Grote. U. S. Nat. Mus. Bull., 38, 23; Moth Book,  
 179.  
**anchocelioides** Guenée var. **brunneipennis** Grote. Can. Ent.,  
 vii, 187; Moth Book, 178.  
**placida** Grote. U. S. Nat. Mus. Bull., 38, 21; Moth Book, 178.

**Psaphidia** Walker.

- grotei** Morrison. Bull. Buff. Soc. Nat. Sci., i, 274; Moth Book,  
 177.  
**resumens** Walker. Cat. Brit. Mus., xxxii, 448; Moth Book,  
 177.

**Eutolyte** Grote.

**bombyciformis** Smith. Proc. U. S. Nat. Mus., xv, 59: Moth Book, 177.

**rolandi** Grote. *vernalis*. Proc. U. S. Nat. Mus., xv, 60.

**Copipanolis** Grote.

**cubilis** Grote. Proc. U. S. Nat. Mus., xv, 63: Moth Book, 177.

**Adita** Grote.

**chionanthi** Smith and Abbot. Lep. Ins. Ga., ii, 195: Moth Book, 177. (C.R.E.)

**Lepipolys** Guenée.

**perscripta** Guenée. Spec. Gén., vi, 174.

**Magusa** Walker.

**dissidens** Felder. *ditaricata*. Proc. Wash. Ent. Soc., iv, 453: Moth Book, 175. (C.R.E.)

**Laphygma** Guenée.

**frugiperda** Smith and Abbot. Fall army worm. Rept. Conn. Agr. Expt. Sta., 1912, 284: Moth Book, 174.

**Prodenia** Guenée.

**ornithogalli** Guenée. *lineatella*. Spec. Gén., v, 163: Moth Book, 174.

**ornithogalli** var. **eudiopta** Guenée. Spec. Gén., v, 164. (E.F.)

**Heliotropha** Lederer.

**reniformis** Grote. Can. Ent., vi, 14: Moth Book, 173.

**reniformis** var. **atra** Grote. Proc. Acad. Nat. Sci., Phila., 1874, 200: Moth Book, 173.

**Pyrophila** Hübner.

**pyramidoides** Guenée. Spec. Gén., vi, 413: Moth Book, 173.

**Actinotia** Hübner.

**ramosula** Guenée. Spec. Gén., vi, 114: Moth Book, 172.

**Dipterygia** Stephens.

**scabriuscula** Linnæus. Syst. Nat., 516: Moth Book, 172.

**Euplexia** Stephens.

**lucipara** Linnæus. Syst. Nat., 518: Moth Book, 172.

**Feralia** Grote.

**jocosa** Guenée. Spec. Gén., v, 37: Moth Book, 171.

**Hyppa** Duponchel.

**xylinoides** Guenée. Spec. Gén., vi, 106: Moth Book, 171.

**Hadena** Schrank.

**apamiformis** Guenée. Proc. U. S. Nat. Mus., xiii, 416.  
(C.R.E.)

**arctica** Boisduval. *Ibid.*, xiii, 430: Moth Book, 169.

**bridghami** Grote and Robinson. Proc. Phila. Ent. Soc., vi, 17:  
Moth Book, 166.

**burgessi** Morrison. Proc. U. S. Nat. Mus., xiii, 412: Moth  
Book, 168.

**cariosa** Guenée. Proc. U. S. Nat. Mus., xiii, 438.

**cogitata** Smith. *Ibid.*, xiii, 421. (E.F.)

**devastatrix** Brace. *Ibid.*, xiii, 426: Moth Book, 169.

**diversicolor** Morrison. Proc. Bost. Soc. Nat. Hist., xvii, 132.

**dubitans** Walker. *sputatrix*. Proc. U. S. Nat. Mus., xiii, 422:  
Moth Book, 169.

**finitima** Guenée. Proc. U. S. Nat. Mus., xiii, 419. (C.H.Y.)

**fractilinen** Grote var. **vulgivaga** Morrison. Can. Ent., vi, 15.

**impulsa** Guenée. *Ibid.*, xiii, 425. (H.W.F.)

**lignicolor** Guenée. *Ibid.*, xiii, 442: Moth Book, 169.

**mactata** Guenée. Spec. Gén., v, 207: Moth Book, 167.  
(C.R.E.)

**miseloides** Guenée. Moth Book, 167.

**misera** Grote. Bull. Geol. Geog. Surv. Terr., vi, 582.

**modica** Guenée. Spec. Gén., v, 207: Moth Book, 167.

**nigrrior** Smith. Proc. U. S. Nat. Mus., xiii, 437: Moth Book,  
169. (C.R.E.)

**passer** Guenée. Proc. U. S. Nat. Mus., xiii, 411.

**remissa** Hübner. *Ibid.*, xiii, 414. (C.R.E.)

**semicana** Walker. Cat. Brit. Mus., xxxii, 675.

**semicana** var. **fractilinea** Grote. Can. Ent., vi, 15: Moth Book,  
168.

**turbulenta** Hübner. Moth Book, 167.

**verbascoides** Guenée. Proc. U. S. Nat. Mus., xiii, 437: Moth  
Book, 169.

**viridimusca** Smith. Can. Ent., xxxi, 264.

**vultuosa** Grote. Proc. U. S. Nat. Mus., xiii, 416: Moth Book,  
168 (C.H.Y.)

**Hillia** Grote.

*algens* Grote. Can. Ent., x, 236.

*discinigra* Walker. Cat. Brit. Mus., ix, 27: Moth Book, 166.  
(C.R.E.)

**Oligia** Hübner.

*chalcedonica* Hübner. Ent. Am., v, 148.

*festivoides* Guenée. Moth Book, 165: Ent. Am., v, 147.

*nucicolora* Guenée. Spec. Gén., v, 24.

**Perigea** Guenée.

*sutor* Guenée. Spec. Gén., v, 231.

*vecors* Guenée. *lura*. *Ibid.*, v, 230: Moth Book, 165.

*xanthoides* Guenée. Spec. Gén., v, 227: Moth Book, 165.

**Caradrina** Ochseneheimer.

*miranda* Grote (?). Bull. Buff. Soc. Nat. Sci., i, 11.

**Anorthodes** Smith.

*prima* Smith. Trans. Am. Ent. Soc., xviii, 115: Moth Book,  
164. (C.R.E.)

**Balsa** Walker.

*malana* Fitch. *Nolophana obliquifera*. Ins. N. Y., ii, 244.

*tristigella* Walker. *zelleri*. Cat. Brit. Mus., xxxv, 1734.

**Platysenta** Grote.

*videns* Guenée. Spec. Gén., v, 78: Moth Book, 163.

**Catabena** Walker.

*lineolata* Walker. Cat. Brit. Mus., xxxii, 631: Moth Book,  
163.

**Baileya** Grote.

*dormitans* Guenée. Spec. Gén., v, 15.

*doubledayi* Guenée. *Ibid.*, v, 15: Moth Book, 162.

*ophthalmica* Guenée. Spec. Gén., v, 15: Moth Book, 162.

**Chytonix** Grote.

*palliatricula* Guenée. Spec. Gén., v, 26: Moth Book, 161.

**Polygrammata** Hübner.

*hebraicum* Hübner. Zutr. Exot. Schmett., f. 25: Moth Book,  
160.

**Dipthera** Hübner.

*fallax* Herrich-Schäffer. Exot. Schmett., f. 211: Moth Book,  
160.

**Microcœlia** Guenée.

*dipteroïdes* Guenée. Proc. Phila., Ent. Soc., iii, 78: Moth Book, 160.

*dipteroïdes* var. *obliterata* Grote. Proc. Phila. Ent. Soc., iii, 79.

**Arsilonche** Lederer.

*albovenosa* Goeze. Proc. U. S. Nat. Mus., xxi, 175: Moth Book, 159.

**Apatela** Hübner.*Acronycta* Oelshenheimer.

*americana* Harris. Proc. U. S. Nat. Mus., xxi, 44: Moth Book, 153.

*clarescens* Guenée. Proc. U. S. Nat. Mus., xxi, 140.

*dactylina* Grote. *Ibid.*, xxi, 51: Moth Book, 153.

*distans* Grote. Can. Ent., xi, 58. (C.R.E.)

*furcifera* Guenée. Proc. U. S. Nat. Mus., xxi, 85: Moth Book, 155.

*hæsitata* Grote. Proc. U. S. Nat. Mus., xxi, 140.

*hamamelis* Guenée. *Ibid.*, xxi, 141.

*hasta* Guenée. *Ibid.*, xxi, 87.

*hastulifera* Smith and Abbot. *Ibid.*, xxi, 47.

*impleta* Walker. *luteicoma*, Moth Book, 157.

*impressa* Walker. Proc. U. S. Nat. Mus., xxi, 159: Moth Book, 157.

*innotata* Guenée. Proc. U. S. Nat. Mus., xxi, 73: Moth Book, 155. (C.R.E.)

*interrupta* Guenée. *occidentalis*. Proc. U. S. Nat. Mus., xxi, 79: Moth Book, 155.

*lobeliæ* Guenée. Proc. U. S. Nat. Mus., xxi, 82: Moth Book, 155.

*noctivaga* Grote. Proc. U. S. Nat. Mus., xxi, 156: Moth Book, 157.

*oblinita* Smith and Abbot. Proc. U. S. Nat. Mus., xxi, 169: Moth Book, 157.

*ovata* Grote. Proc. U. S. Nat. Mus., xxi, 135. (C.R.E.)

*pruni* Harris. *Ibid.*, xxi, 123.

*retardata* Walker. *Ibid.*, xxi, 145.

*sperata* Grote. *Ibid.*, xxi, 154.

*vinnula* Grote. *Ibid.*, xxi, 93: Moth Book, 156.

*xyliniformis* Guenée. *longa*. Proc. U. S. Nat. Mus., xxi, 166.



**Charadra** Walker.

**deridens** Guenée. Proc. U. S. Nat. Mus., xxi, 25: Moth Book, 152.

**Demas** Stephens.

**flavicornis** Smith. Bull. Brook. Ent. Soc., vii, 3.

**propinquilinea** Grote. *Charadra*. Trans. Am. Ent. Soc., iv, 293.

## Family AGARISTIDÆ.

**Alypia** Hübner.

**octomaculata** Fabricius. Eight-spotted forester. Bull. Am. Mus. Nat. Hist., x, 357: Moth Book, 144.

## Family ARCTIIDÆ.

**Halisidota** Hübner.

**caryæ** Harris. Hickory tussock moth. Rept. Conn. Agr. Expt. Sta., 1907, 332: Moth Book, 138.

**tessellaris** Smith and Abbot. Bull. Am. Mus. Hist., x, 370: Moth Book, 137.

**Euchætias** Lyman.

**egle** Drury. Milk-weed moth. Bull. Am. Mus. Nat. Hist., x, 368: Moth Book, 135.

**Ammalo** Walker.

**tenera** Hübner. *collaris*. Bull. Am. Mus. Nat. Hist., x, 368.

**Apantesis** Walker.

**anna** Grote var. **persephone** Grote. Proc. Ent. Soc., Phila., ii, 433.

**arge** Drury. *Arctia*. Bull. Am. Mus. Nat. Hist., x, 379: Moth Book, 130.

**figurata** Drury. Moth Book, 132. (H.W.F.)

**intermedia** Stretch. Bull. Am. Mus. Nat. Hist., x, 379: Moth Book, 129. (C.H.Y.)

**michabo** Grote. *Arctia*. Bull. Am. Mus. Nat. Hist., x, 380: Moth Book, 130. (A.H.Me.)

**nais** Drury. *Arctia*. Bull. Am. Mus. Nat. Hist., x, 381.

**parthenice** Kirby. *Arctia*. *Ibid.*, x, 379: Moth Book, 129.

**phyllira** Drury. *Arctia*. Bull. Am. Mus. Nat. Hist., x, 380:  
Moth Book, 132.

**virgo** Linnæus. *Arctia*. Bull. Am. Mus. Nat. Hist., x, 377:  
Moth Book, 129.

**virguncula** Kirby. *Arctia*. Bull. Am. Mus. Nat. Hist., x, 378:  
Moth Book, 131.

**vittata** Fabricius. *Arctia*. Hist., x, 381: Bull. Am. Mus. Nat.  
Moth Book, 132. (A.H.Me.)

**Diacrisia** Hübner.

**latipennis** Stretch. *Spilosoma*. Bull. Am. Mus. Nat. Hist., x,  
375: Moth Book, 128.

**virginica** Fabricius. Virgin tiger moth. Bull. Am. Mus. Nat.  
Hist., x, 374: Moth Book, 127.

**Phragmatobia** Stephens.

**fuliginosa** Linnæus. *rubricosa*. Bull. Am. Mus. Nat. Hist.,  
x, 373: Moth Book, 126.

**Isia** Walker.

**isabella** Smith and Abbot. *Pyrharctia*. Isabella tiger moth.  
Bull. Am. Mus. Nat. Hist., x, 373: Moth Book, 125.

**Hyphantria** Harris.

**cunea** Drury. Fall web worm. Bull. Am. Mus. Nat. Hist., x,  
376: Moth Book, 123.

**textor** Harris. Rept. Ins. Mass., 255: Moth Book, 124.

**Estigmene** Hübner.

**acræa** Drury. *Leucarctia*. Salt march caterpillar. Bull. Am.  
Mus. Nat. Hist., x, 372: Moth Book, 123.

**congrua** Walker. *antigone*. Cat. Brit. Mus., iii, 669: Moth  
Book, 123. (C.H.Y.)

**Ecpantheria** Hübner.

**deflorata** Fabricius. *scribona*. *ocularia*. Bull. Am. Mus. Nat.  
Hist., x, 372: Moth Book, 120.

**Haploa** Hübner.

**clymene** Brown. *Callimorpha*. Bull. Am. Mus. Nat. Hist., x,  
366: Moth Book, 118.

**lecontei** Boisduval var. **militaris** Harris. Bull. Am. Mus. Nat.  
Hist., x, 366: Moth Book, 118.

**Utetheisa** Hübner.

**bella** Linnæus. Bull. Am. Mus. Nat. Hist., x, 367: Moth Book, 117.

**Eubaphe** Hübner.

**aurantiaca** Hübner var. **ferruginosa** Walker. *Homomelina*. Bull. Am. Mus. Nat. Hist., x, 365.

**immaculata** Reakirt. Proc. Phila. Ent. Soc., ii, 372.

**immaculata** var. **trimaculosa** Reakirt. Proc. Ent. Soc., Phila., ii, 372.

**Ræselia** Hübner.

**minuscule** Zeller var. **phylla** Dyar. Jour. N. Y. Ent. Soc., vi, 43.

**Nigetia** Walker.

**formosalis** Walker. *mclanopa*. Cat. Brit. Mus., xxxiv, 1506: Moth Book, 358. (C.R.E.)

**Celama** Walker.

**clethræ** Dyar. *Nola*. Can. Ent., xxxi, 62.

**ovilla** Grote. *Nola*. *Ibid.*, vii, 221: Moth Book, 357.

**pustulata** Walker. *nigrofasciata*. Cat. Brit. Mus., xxxiii, 795: Moth Book, 357. (C.R.E.)

**triquetrana** Fitch. Jour. N. Y. Ent. Soc., vi, 42.

## Family LITHOSIIDÆ.

**Illice** Walker.

**subjecta** Walker. *Cisthene*. Bull. Am. Mus. Nat. Hist., x, 363: Moth Book, 109.

**Clemensia** Packard.

**albata** Packard. Bull. Am. Mus. Nat. Hist., x, 361: Moth Book, 108.

**Hypoprepia** Hübner.

**fucosa** Hübner. Bull. Am. Mus. Nat. Hist., x, 362: Moth Book, 106.

**miniata** Kirby. Bull. Am. Mus. Nat. Hist., x, 362: Moth Book, 106.

**Crambidia** Packard.

**pallida** Packard. Proc. Phila. Ent. Soc., iii, 99.

## Family SYNTOMIDÆ.

**Lycomorpha** Harris.

**pholus** Drury. Bull. Am. Mus. Nat. Hist., x, 355: Moth Book, 101.

**Scepsis** Walker.

**fulvicollis** Hübner. Bull. Am. Mus. Nat. Hist., x, 353: Moth Book, 101.

**Ctenucha** Kirby.

**virginica** Charpentier. Moth Book, 102.

## Family CERATOCAMPIDÆ.

**Basilona** Boisduval.

**imperialis** Drury. *Eacles*. Imperial moth. Bull. Am. Mus. Nat. Hist., x, 442: Moth Book, 97.

**Citheronia** Hübner.

**regalis** Fabricius. Regal moth. Bull. Am. Mus. Nat. Hist., x, 441: Moth Book, 97.

**Anisota** Hübner.

**rubicunda** Fabricius. *Dryocampa*. Green-striped maple worm. Bull. Am. Mus. Nat. Hist., x, 440: Moth Book, 95.

**senatoria** Smith and Abbot. Orange-striped oak worm. Senator moth. Bull. Am. Mus. Nat. Hist., x, 439.

**stigma** Fabricius. *Ibid.*, x, 439: Moth Book, 94.

**virginiensis** Drury. Bull. Am. Mus. Nat. Hist., x, 440: Moth Book, 95.

## Family SATURNIIDÆ.

**Hemileuca** Walker.

**maia** Drury. Bull. Am. Mus. Nat. Hist., x, 438: Moth Book, 91. (A.W.P.)

**Automeris** Hübner.

**io** Fabricius. *Hyperchiria*. Io moth. Bull. Am. Mus. Nat. Hist., x, 438: Moth Book, 89.

**Telea** Hübner.

**polyphemus** Cramer. American silk-worm moth. Bull. Am. Mus. Nat. Hist., x, 436: Moth Book, 87.

**Tropæa** Hübner.

**luna** Linnaeus. *Actias*. Luna moth. Bull. Am. Mus. Nat. Hist., x, 437: Moth Book, 87.

**Callosamia** Packard.

**angulifera** Walker. Tulip tree silk moth. Bull. Am. Mus. Nat. Hist., x, 436: Moth Book, 86.

**promethea** Drury. Promethea moth. Bull. Am. Mus. Nat. Hist., x, 435: Moth Book, 84.

**Samia** Hübner.

**cecropia** Linnaeus. *Attacus*. Cecropia moth. Bull. Am. Mus. Nat. Hist., x, 435: Moth Book, 83.

**Philosamia** Grote.

**cynthia** Drury. Cynthia moth. Bull. Am. Mus. Nat. Hist., x, 434: Moth Book, 82.

## Family SPHINGIDÆ.

**Cressonia** Grote and Robinson.

**juglandis** Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 317: Moth Book, 57.

**Paonias** Hübner.

**astylus** Drury. *Calasymbolus*. Bull. Am. Mus. Nat. Hist., vii, 316: Moth Book, 56. (C.R.E.)

**excæcatus** Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 314: Moth Book, 56.

**myops** Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 315: Moth Book, 56.

**Smerinthus** Latreille.

**jamaicensis** Drury. *geminatus*. Bull. Am. Mus. Nat. Hist., vii, 313: Moth Book, 55.

**Marumba** Moore.

**modesta** Harris. *Triptogon*. *Pachysphinx*. Bull. Am. Mus. Nat. Hist., vii, 312: Moth Book, 57. (H.H.A.), (A.B.C.), (F.W.H.)

**Lapara** Walker.

**bombycoides** Walker. *Ellema harrisii*. Bull. Am. Mus. Nat. Hist., vii, 310: Moth Book, 53. (H.H.A.)

**coniferarum** Smith and Abbot. Moth Book, 53.

**Ceratomia** Harris.

- amyntor** Geyer. *quadricornis*. Bull. Am. Mus. Nat. Hist., vii, 307: Moth Book, 47.  
**undulosa** Walker. Bull. Am. Mus. Nat. Hist., vii, 308: Moth Book, 48. (A.H.Me.)

**Chlænogramma** Smith.

- jasminearum** Boisduval. Bull. Am. Mus. Nat. Hist., 306: Moth Book, 46.

**Dolba** Walker.

- hylæus** Drury. Bull. Am. Mus. Nat. Hist., vii, 309: Moth Book, 46.

**Sphinx** Linnæus.

- chersis** Hübner. *Hyloicus*. Bull. Am. Mus. Nat. Hist., vii, 303: Moth Book, 50.  
**convolvuli** Linnæus var. **cingulata** Fabricius. *Herse*. Bull. Am. Mus. Nat. Hist., vii, 298: Moth Book, 43. (H.H.A.)  
**drupiferarum** Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 300: Moth Book, 52.  
**eremitis** Hübner. Bull. Am. Mus. Nat. Hist., vii, 304: Moth Book, 49. (A.H.Me.) (G.D.)  
**gordius** Stoll. Bull. Am. Mus. Nat. Hist., vii, 302: Moth Book, 51.  
**kalmiæ** Smith and Abbot. Bull. Am. Mus. Nat. Hist., vii, 301: Moth Book, 51.  
**luscitiosa** Clemens. Bull. Am. Mus. Nat. Hist., vii, 302: Moth Book, 52.

**Phlegethontius** Hübner.

- quinquemaculatus** Haworth. *Protoparce celeus* Hübner. Northern tobacco or tomato worm. Rept. Conn. Agr. Expt. Sta., 1906, 269: Moth Book, 45.  
**sexta** Johanssen. *Protoparce carolina* Linnæus. Southern tobacco or tomato worm. Rept. Conn. Agr. Expt. Sta., 1906, 269: Moth Book, 45.

**Ampelophaga** Bremer and Grey.

- chœrilus** Cramer. *Darapsa. Pholus*. Bull. Mus. Nat. Hist., vii, 291: Moth Book, 68.  
**myron** Cramer. Bull. Am. Mus. Nat. Hist., vii, 292: Moth Book, 68.

**versicolor** Harris. Bull. Am. Mus. Nat. Hist., vii, 293: Moth Book, 69.

**Pholus** Hübner.

**achemon** Drury. Bull. Am. Mus. Nat. Hist., vii, 289: Moth Book, 66. (H.M.R.)

**pandorus** Hübner. Bull. Am. Mus. Nat. Hist., vii, 288: Moth Book, 65. (A.H.Me.)

**Thereta** Hübner.

**tersa** Linnæus. *Charocampa xylophancs*. Bull. Am. Mus. Nat. Hist., vii, 287: Moth Book, 75. (R.H.) (H.M.R.)

**Deilephila** Ochsenheimer.

**lineata** Fabricius. *Cclerio*. White-lined sphinx. Bull. Am. Mus. Nat. Hist., vii, 285: Moth Book, 76.

**Deidamia** Clemens.

**inscriptum** Harris. Bull. Am. Mus. Nat. Hist., vii, 284: Moth Book, 71.

**Sphecodina** Blanchard.

**abbottii** Swainson. *Thyreus*. Abbot sphinx. Bull. Am. Mus. Nat. Hist., vii, 283: Moth Book, 70.

**Amphion** Hübner.

**nessus** Cramer. Bull. Am. Mus. Nat. Hist., vii, 282: Moth Book, 72.

**Hemaris** Dalman.

**diffinis** Boisduval. *Hæmorrhagia*. Bull. Am. Mus. Nat. Hist., vii, 278: Moth Book, 63.

**gracilis** Grote and Robinson. Bull. Am. Mus. Nat. Hist., vii, 278: Moth Book, 63.

**thysbe** Fabricius. Bull. Am. Mus. Nat. Hist., vii, 277: Moth Book, 62.

**thysbe** var. **ruficaudis** Kirby. Faun. Bor. Am., iv, 303.

Suborder **RHOPALOCERA**.

Butterflies.

Family **HESPERIIDÆ**.

**Thanaos** Boisduval.

**icelus** Lintner. Dreamy dusky-wing. Comst. Butt., 298.

**juvenalis** Fabricius. Juvenal's dusky-wing. *Ibid.*, 300.

**martialis** Scudder. Martial's dusky-wing. *Ibid.*, 299.

**persius** Scudder. Persius' dusky-wing. *Ibid.*, 299.

**Pholisora** Scudder.

*catullus* Fabricius. Sooty-wing. Comst. Butt., 297.

**Thorybes** Scudder.

*bathyllus* Smith and Abbot. *Eudamus*. Southern cloudy-wing. Comst. Butt., 295.

*pylades* Scudder. Northern cloudy-wing. *Ibid.*, 296.

**Achlarus** Scudder.

*lycidas* Smith and Abbot. *Eudamus*. Hoary-edge. Comst. Butt., 295.

**Epargyreus** Hübner.

*tityrus* Fabricius. *Eudamus*. Silver-spotted skipper. Comst. Butt., 293.

**Eudamus** Swainson.

*proteus* Linnæus. Long-tailed skipper. Comst. Butt., 292. (S.I.S.)

**Phycanassa** Scudder.

*vitellius* Fabricius. *delaware*. *logan*. Vitellius skipper. Comst. Butt., 288. (C.H.Y.) (G.D.)

**Limochroes** Scudder.

*bimacula* Grote and Robinson. *Pamphila*. Ann. N. Y. Lyc. Nat. Hist., viii, 433.

*manataaqua* Scudder. Cross-line skipper. Comst. Butt., 286. (F.W.H.)

*pontiac* Edwards. Black-dash. *Ibid.*, 285.

**Euphyes** Scudder.

*verna* Edwards. *Pamphila*. Little glass-wing. Comst. Butt., 283.

*vestris* Boisduval var. *metacomet* Harris. *Ibid.*, 283.

**Polites** Scudder.

*peckius* Kirby. *Pamphila*. Yellow spot. Comst. Butt., 282.

**Thymelicus** Hübner.

*cernes* Boisduval and LeConte. Tawny-edged skipper. Comst. Butt., 281.

*mystic* Scudder. Long dash. *Ibid.*, 281.

*otho* Smith and Abbot. Otho skipper. *Ibid.*, 279.



**Erynnis** Schrank.

- metea** Scudder. Cobweb skipper. Comst. Butt., 277.  
**sassicus** Harris. *Pamphila*. Indian skipper. *Ibid.*, 276.

**Atrytone** Scudder.

- hobomok** Harris. *Pamphila*. Mormon. Comst. Butt., 275.  
**hobomok** var. **pocahontas** Scudder. *Ibid.*, 275.  
**zabulon** Boisduval and Le Conte. Zabulon skipper. *Ibid.*, 274.

**Poanes** Scudder.

- massasoit** Scudder. *Pamphila*. Mulberry wing. Comst. Butt., 273.

**Ancyloxypha** Felder.

- numitor** Fabricius. Least skipper. Comst. Butt., 272.

**Amblyscirtes** Scudder.

- vialis** Edwards. Roadside skipper. Comst. Butt., 270.  
 (F.W.H.)

## Family LYCÆNIDÆ.

**Everes** Hübner.

- comyntas** Godart. Tailed blue. Comst. Butt., 204.

**Cyaniris** Dalman.

- ladon** Cramer. var. **lucia** Kirby. Spring azure. Comst. Butt., 249.  
**ladon** var. **marginata** Edwards. *Ibid.*, 249.  
**ladon** var. **neglecta** Edwards. *Ibid.*, 250.

**Heodes** Dalman.

- hypophlæas** Boisduval. *Chrysophanus*. American copper. Comst. Butt., 241.  
**hypophlæas** var. **fasciata** Strecker.

**Chrysophanus** Hübner.

- thoë** Boisduval. Bronze copper. Comst. Butt., 239.

**Feniseca** Grote.

- tarquinius** Fabricius. Wanderer. Comst. Butt., 237.

**Strymon** Hübner.

- titus** Fabricius. *Thecla*. Coral hair-streak. Comst. Butt., 234.

**Incisalia** Minot.

**irus** Godart. Hoary elfin. Comst. Butt., 233. (J.T.K.)  
**niphon** Hübner. Banded elfin. *Ibid.*, 234. (R.H.)

**Mitoura** Scudder.

**damon** Cramer. *smilacis*. Comst. Butt., 229.

**Thecla** Fabricius.

**acadica** Edwards. Acadian hair-streak. Comst. Butt., 224.  
 (R.H.)  
**calanus** Hübner. Banded hair-streak. *Ibid.*, 226.  
**edwardsii** Saunders. Edwards' hair-streak. Butterfly Book,  
 243. (J.T.K.)  
**liparops** Boisduval and Le Conte. *strigosa*. Striped hair-streak.  
 Comst. Butt., 228. (R.H.)

**Uranotes** Scudder.

**melinus** Hübner. Gray hair-streak. Comst. Butt., 223.

## Family LIBYTHEIDÆ.

**Hypatus** Hübner.

**bachmani** Kirtland. *Libythea*. Snout butterfly. Comst. Butt.,  
 210.

## Family LYMNADIDÆ.

**Anosia** Hübner.

**plexippus** Linnæus. *Danais archippus*. Monarch. Milkweed  
 butterfly. Comst. Butt., 204.

## Family AGAPETIDÆ.

**Cissa** Doubleday.

**eurytus** Fabricius. *Neonympha*. Little wood-satyr. Comst.  
 Butt., 197.

**Satyrodes** Scudder.

**canthus** Linnæus. *Neonympha*. Eyed brown. Comst. Butt.,  
 191.

**Enodia** Hübner.

**portlandia** Fabricius. *Debis*. Pearly eye. Comst. Butt., 189.  
 (H.H.A.)

**Cercyonis** Speyer.

- alope** Fabricius. *satyrus*. Blue-eyed grayling. Comst. Butt., 184.  
**alope** var. **nephele** Kirby. Dull-eyed grayling. *Ibid.*, 185.

## Family NYMPHALIDÆ.

**Basilarchia** Scudder.

- archippus** Cramer. *Limnitis dissippus*. Viceroy. Comst. Butt., 170.  
**arthemis** Drury. Banded purple. *Ibid.*, 167. (H.H.A.)  
**arthemis** var. **proserpina** Edwards. Hybrid purple. *Ibid.*, 170. (J.T.K.)  
**astyanax** Fabricius. *ursula*. Red-spotted purple. *Ibid.*, 166.

**Junonia** Hübner.

- ccenia** Hübner. Buckeye. Comst. Butt., 160.

**Vanessa** Fabricius.

- atalanta** Linnæus. *Pyramcis*. Red admiral. Comst. Butt., 154.  
**cardui** Linnæus. Thistle butterfly. Cosmopolite. *Ibid.*, 158.  
**huntera** Fabricius. Painted beauty. *Ibid.*, 156.

**Aglais** Dalman.

- milberti** Godart. *Vanessa*. American tortoise-shell. Comst. Butt., 151.

**Euvanessa** Scudder.

- antiopa** Linnæus. *Vanessa*. Mourning cloak. Comst. Butt., 148.

**Eugonia** Hübner.

- j-album** Boisduval and Le Conte. *Grapta*. Compton tortoise. Comst. Butt., 146.

**Polygonia** Hübner.

- comma** Harris. *Grapta harrisii*. Hop-merchant. Comst. Butt., 140.  
**faunus** Edwards. *Grapta*. Green comma. *Ibid.*, 138.  
**interrogationis** Fabricius. *Grapta*. Violet-tip. *Ibid.*, 134.  
**interrogationis** var. **umbrosa** Lintner. *Ibid.*, 135.  
**progne** Cramer. *Grapta*. Gray comma. *Ibid.*, 143.

**Phyciodes** Hübner.

**tharos** Drury. Pearl crescent. Comst. Butt., 129.

**tharos** var. **morpheus** Fabricius. *Ibid.*, 129.

**Charidryas** Scudder.

**nycteis** Doubleday and Hewitson. Silver crescent. Comst. Butt., 127. (R.H.)

**Cinclidia** Hübner.

**harrisii** Scudder. Harris' butterfly. Comst. Butt., 126. (H.H.A.)

**Euphydryas** Scudder.

**phaeton** Drury. *Melitæa*. Baltimore. Comst. Butt., 125.

**Brenthis** Hübner.

**bellona** Fabricius. *Argynnis*. Meadow fritillary. Comst. Butt., 119.

**myrina** Cramer. *Argynnis*. Silver-bordered fritillary. *Ibid.*, 122.

**Argynnis** Fabricius.

**aphrodite** Fabricius. Silver-spot fritillary. Comst. Butt., 117.

**atlantis** Edwards. Mountain silver spot. *Ibid.*, 118. (F.W.H.)

**cybele** Fabricius. Great spangled fritillary. *Ibid.*, 114.

**Speyeria** Scudder.

**idalia** Drury. *Argynnis*. Regal fritillary. Comst. Butt., 112.

**Euptoieta** Doubleday.

**claudia** Cramer. Variegated fritillary. Comst. Butt., 109.

## Family PIERIDÆ.

**Eurema** Hübner.

**euterpe** Méné. *Terias lisa*. Little sulphur. Comst. Butt., 98.

**euterpe** var. **alba** Strecker. Cat. Macrolep., 85.

**Eurymus** Swainson.

**philodice** Godart. *Colias*. Clouded sulphur. Comst. Butt., 92.

**Zerene** Hübner.

**cæsonia** Stoll. Dog's head butterfly. Comst. Butt., 90.

**Callidryas** Boisduval and LeConte.

**eubule** Linnæus. *Catopsilia*. Cloudless sulphur. Comst. Butt., 88.

**Synchloë** Hübner.

**genutia** Fabricius. *Anthocoris*. Falcate orange-tip. Comst. Butt., 82.

**Pontia** Fabricius.*Picris* Schrank.

**napi** Linnæus var. **oleracea** Harris. Ins. Inj. Veg., 270.

**napi** var. **virginiensis** Edwards. Comst. Butt., 76. (H.L.J.)

**protodice** Boisduval and Le Conte. *Picris*. Checkered white. Southern cabbage butterfly. *Ibid.*, 73.

**rapæ** Linnæus. Imported cabbage butterfly. *Ibid.*, 78.

**rapæ** var. **immaculata** Skinner and Aaron. Can. Ent. xxi, 128.

## Family PAPHIONIDÆ.

**Laertias** Hübner.

**philenor** Linnæus. *Papilio*. Blue swallow-tail. Comst. Butt., 66.

**Papilio** Linnæus.

**glaucus** Linnæus var. **turnus** Linnæus. Tiger swallow-tail. Comst. Butt., 51.

**polyxenes** Fabricius. *asterias*. Black swallow-tail. Celery butterfly. *Ibid.*, 62.

**thoas** Linnæus. *cresphontes*. Giant swallow-tail. Orange dog. *Ibid.*, 56.

**troilus** Linnæus. Green-clouded swallow-tail. *Ibid.*, 59.

**Iphidicles** Hübner.

**ajax** Linnæus. *Papilio*. Zebra swallow-tail. Comst. Butt., 49. (F.W.H.)

Order **SIPHONAPTERA.**

Fleas.

Family **PULICIDÆ.****Ctenocephalus** Kolenati.

**canis** Curtis. *Pulex serraticeps*. Common cat and dog flea.  
Bur. Ent., Bull. 5, New ser., 150.

Order **DIPTERA.**

Flies, Mosquitoes, etc.

Family **TIPULIDÆ.****Geranomyia** Haliday.

**canadensis** Westwood. Mon. N. A. Dipt., iv, 80.

**distincta** Doane. Jour. N. Y. Ent. Soc., viii, 186.

**rostrata** Say. Compl. Writ., ii, 47. (C.W.J.)

**Rhipidia** Meigen.

**domestica** Osten Sacken. Mon. N. A. Dipt., iv, 84. (C.W.J.)

**fidelis** Osten Sacken. *Ibid.*, iv, 83.

**maculata** Meigen. *Ibid.*, iv, 82.

**Discobola** Osten Sacken.

**argus** Say. Compl. Writ., i, 243.

**Dicranomyia** Stephens.

**badia** Walker. Mon. N. A. Dipt., iv, 72. (Ald. Cat.)

**hæretica** Osten Sacken. *Ibid.*, iv, 70.

**immodesta** Osten Sacken. *Ibid.*, iv, 62.

**liberta** Osten Sacken. *Ibid.*, iv, 69.

**longipennis** Schummel. *Ibid.*, iv, 61.

**simulans** Walker. List., i, 45. (C.W.J.)

**Limnobia** Meigen.

**immatura** Osten Sacken. *Ibid.*, iv, 89. (H.L.J.)

**indigena** Osten Sacken. Mon. N. A. Dipt., iv, 94. (C.W.J.)

**triozellata** Osten Sacken. *Ibid.*, iv, 92. (C.W.J.)

**Toxorhina** Loew.

**muliebris** Osten Sacken. Mon. N. A. Dipt., iv, 115.

**Rhamphidia** Meigen.

**flavipes** Macquart. Dipt. Exot. (Suppl.), v, 17. (C.W.J.)

**Elephantomyia** Osten Sacken.

**westwoodi** Osten Sacken. Mon. N. A. Dipt., iv, 109. (C.W.J.)

**Atarba** Osten Sacken.

**picticornis** Osten Sacken. Mon. N. A. Dipt., iv, 128.

**Teucholabis** Osten Sacken.

**complexa** Osten Sacken. Mon. N. A. Dipt., iv, 132.

**Antocha** Osten Sacken.

**saxicola** Osten Sacken. *opalizans*. Mon. N. A. Dipt., iv, 126.  
(C.W.J.)

**Ormosia** Rondani.

**luteola** Dietz. *Rhypholophus*. Trans. Am. Ent. Soc., xlii, 138.  
(C.R.E.)

**monticola** Osten Sacken. *Rhypholophus*. Mon. N. A. Dipt., iv,  
145.

**pygmæa** Alexander. *pilosa* Dietz. *Rhypholophus*. Trans. Am.  
Ent. Soc., xlii, 138. (C.R.E.)

**Erioptera** Meigen.

**armata** Osten Sacken. Mon. N. A. Dipt., iv, 160. (C.W.J.)

**armillaris** Osten Sacken. *Ibid.*, iv, 158.

**caloptera** Say. Compl. Writ., ii, 44.

**chlorophylla** Osten Sacken. Mon. N. A. Dipt., iv, 157.  
(C.W.J.)

**dulcis** Osten Sacken. West. Dipt. 198. (C.W.J.)

**needhami** Alexander. Can. Ent., 1, 383.

**parva** Osten Sacken. Mon. N. A. Dipt., iv, 162.

**septentrionalis** Osten Sacken. *Ibid.*, iv, 162.

**straminea** Osten Sacken. *Ibid.*, iv, 157.

**venusta** Osten Sacken. *Ibid.*, iv, 158. (C.W.J.)

**vespertina** Osten Sacken. *Ibid.*, iv, 157.

**Molophilus** Curtis.

**hirtipennis** Osten Sacken. Mon. N. A. Dipt., iv, 163.

**Gonomyia** Osten Sacken.

- blanda* Osten Sacken. Mon. N. A. Dipt., iv, 182.  
*cognotella* Osten Sacken. *Ibid.*, iv, 181.  
*subcinerea* Osten Sacken. *Ibid.*, iv, 181. (C.W.J.)  
*sulphurella* Osten Sacken. *Ibid.*, iv, 180. (C.W.J.)

**Symplecta** Meigen.

*Helobia* St. Fargeau.

- hybrida* Meigen. Syst. Besch., vi, 282. (H.L.J.)

**Trichocera** Meigen.

- bimacula* Walker. Mon. N. A. Dipt., iv, 236.  
*brumalis* Fitch. Rept. N. Y. State Ent., ii, 243.

**Epiphragma** Osten Sacken.

- fascipennis* Say. *Limnobia*. Compl. Writ., ii, 45. (H.L.J.)

**Limnophila** Macquart.

- adusta* Osten Sacken. Mon. N. A. Dipt., iv, 215. (C.W.J.)  
*contempta* Osten Sacken. *Ibid.*, iv, 218.  
*fuscovaria* Osten Sacken. *Ibid.*, iv, 225. (C.W.J.)  
*lenta* Osten Sacken. *Ibid.*, iv, 231.  
*macrocera* Say. *Limnobia*. Compl. Writ., ii, 46.  
*marchandi* Alexander. Jour. N. Y. Ent. Soc., xxiv, 118.  
*montana* Osten Sacken. Mon. N. A. Dipt., iv, 227. (H.L.J.)  
*recondita* Osten Sacken. Mon. N. A. Dipt., iv, 212.  
*rufibasis* Osten Sacken. *Ibid.*, iv, 225. (C.W.J.)  
*ultima* Osten Sacken. *Ibid.*, iv, 222. (H.L.J.)

**Pseudolimnophila** Alexander.

- luteipennis* Osten Sacken. *Limnophila*. Mon. N. A. Dipt., iv,  
 217.  
*novaboracensis* Alexander. *Limnophila*. Psyche, xviii, 196.

**Eulimnophila** Alexander.

- tenuipes* Say. Compl. Writ., ii, 46.

**Hexatoma** Latreille.

*Anisomera* Meigen.

- megacera* Osten Sacken. *Anisomera*. Mon. N. A. Dipt., iv,  
 243.

**Eriocera** Macquart.

- longicornis* Walker. Mon. N. A. Dipt., iv, 253. (C.W.J.)



**Pentoptera** Schiner.

*albitarsis* Osten Sacken. Mon. N. A. Dipt., iv, 257. (Ald. Cat.)

**Tricyphona** Zetterstedt.

*inconstans* Osten Sacken. *Amalopsis*. Mon. N. A. Dipt., iv, 266.  
(C.W.J.)

**Pedicia** Latreille.

*albivitta* Walker. Insect Book, pl. xvi, 12.

**Liogma** Osten Sacken.

*nodicornis* Osten Sacken. Mon. N. A. Dipt., iv, 301. (C.W.J.)

**Bittacomorpha** Westwood.

*clavipes* Fabricius. Insect Book, pl. xv, 8.

**Ptychoptera** Meigen.

*rufocincta* Osten Sacken. Mon. N. A. Dipt., iv, 313.

**Oropeza** Needham.

*dorsalis* Johnson. Proc. Bost. Soc. Nat. Hist., xxxiv, 119.

*sayi* Johnson. *annulata*. *Ibid.*, xxxiv, 118. (C.W.J.)

*subalbipes* Johnson. *Ibid.*, xxxiv, 121.

**Tanyptera** Latreille.*Xiphura* Brullé

*frontalis* Osten Sacken. Proc. Phila. Ent. Soc., iii, 48.

*fumipennis* Osten Sacken. *Ibid.*, iii, 47.

*topazina* Osten Sacken. *Ibid.*, iii, 47.

**Ctenophora** Meigen.

*apicata* Osten Sacken. Proc. Phila. Ent. Soc., iii, 46.

*nubecula* Osten Sacken. *Ibid.*, iii, 45. (C.W.J.)

**Nephrotoma** Meigen.*Pachyrhina* Macquart.

*eucera* Loew. Cent., iv, 39.

*ferruginea* Fabricius. Insect Book, pl. xv, 17.

*incurva* Loew. Cent., iv, 32.

*lugens* Loew. *Ibid.*, v, 26.

*macrocera* Say. Compl. Writ., ii, 350.

*sodalis* Loew. Cent., v, 29.

*tenuis* Loew. *Ibid.*, iv, 41.

*virescens* Loew. *Ibid.*, v, 25.

*xanthostigma* Loew. *Ibid.*, v, 31.

**Tipula** Linnæus.

- abdominalis* Say. Insect Book, pl. xvi, 4.  
*angustipennis* Loew. Cent iv, 19. (H.L.J.)  
*annulicornis* Say. Compl. Writ., ii, 350.  
*bella* Loew. *Ibid.*, iv, 29.  
*caloptera* Loew. *Ibid.*, iv, 30. (C.W.J.)  
*cunctans* Say. *Ibid.*, ii, 48.  
*dejecta* Walker. Dipt. Saund., 442. (C.W.J.)  
*eluta* Loew. Cent., iv, 27.  
*fuliginosa* Say. *speciosa* Loew. Compl. Writ., ii, 44.  
*hebes* Loew. Cent., iv, 18. (Ald. Cat.)  
*hermannia* Alexander. *fasciata* Loew. Cent., iv, 6; N. Y.  
 (Cornell) Agr. Expt. Sta., Memoir 25, 946. (C.W.J.)  
*latipennis* Loew. Cent., v, 20. (C.W.J.)  
*longiventris* Loew. *Ibid.*, iv, 5. (C.W.J.)  
*oropezoides* Johnson. Proc. Bost. Soc. Nat. Hist., xxxiv, 131.  
*pallida* Loew. *Ibid.*, iv, 16. (C.W.J.)  
*sayi* Alexander. *costalis* Say. Jour. Acad. Nat. Sci., iii, 23.  
*serta* Loew. Cent., iv, 14.  
*strepens* Loew. *Ibid.*, iv, 28. (C.W.J.)  
*submaculata* Loew. *Ibid.*, iv, 23.  
*tephrocephala* Loew. *Ibid.*, v, 23. (C.W.J.)  
*tricolor* Fabricius. Dipt. Exot., i, 22.  
*trivittata* Say. Compl. Writ., ii, 50.  
*ultima* Alexander. *flavicans* Fabricius. Dipt. Exot. (Suppl.),  
 i, 25; N. Y. (Cornell) Agr. Expt. Sta., Memoir 25, 944.  
*umbrosa* Loew. *inermis*. Cent., iv, 31.  
*valida* Loew. Cent., iv, 21. (C.W.J.)

Family DIXIDÆ

**Dixa** Meigen.

- clavulus* Williston. *modesta*. N. Y. State Mus. Bull., 68, 429.  
 (C.W.J.)  
*fusca* Loew. *Ibid.*, 68, 432. (C.W.J.)  
*notata* Loew. *Ibid.*, 68, 432.

## Family PSYCHODIDÆ.

**Psychoda** Latreille.

- alternata* Say. Can. Ent., xxvi, 330.  
*cinerea* Banks. *Ibid.*, xxvi, 331.  
*marginalis* Banks. *Ibid.*, xxvi, 333.  
*minuta* Banks. *Ibid.*, xxvi, 331.

## Family CHIRONOMIDÆ.

**Ceratopogon** Meigen.

- fuscus* Coquillett. Proc. U. S. Nat. Mus., xxiii, 605.  
*piceus* Winnertz. Linn. Ent., vi, 21.

**Palpomyia** Meigen.

- rufus* Loew. Cent., i, 12. (C.W.J.)  
*tibialis* Meigen. Fauna Aust., ii, 586.  
*trivialis* Loew. Cent., i, 4. (C.W.J.)

**Chironomus** Meigen.

- cristatus* Fabricius. N. Y. State Mus. Bull., 86, 242.  
*dispar* Meigen. *Ibid.*, 86, 213. (C.W.J.)  
*dorsalis* Meigen. Syst. Besch., i, 25.  
*dux* Johanssen. N. Y. State Mus. Bull., 86, 231. (C.W.J.)  
*festivus* Say. Compl. Writ., ii, 41. (C.W.J.)  
*modestus* Say. *Ibid.*, ii, 41; N. Y. State Mus. Bull., 86, 227.  
*nigricans* Johanssen. N. Y. State Mus. Bull., 86, 219.  
*pulchripennis* Coquillett. *Ibid.*, 86, 204. (C.W.J.)  
*tæniapennis* Coquillett. *Ibid.*, 86, 203.

**Orthocladus** Van der Wulp.

sp.

**Camptocladus** Van der Wulp.

- byssinus* Schrank. Fauna Aust., ii, 612.

**Cricotopus** Van der Wulp.

- sylvestris* Fabricius. Fauna Aust., ii, 611.

**Eurycnemus** Van der Wulp.

- scitulus* Coquillett. Proc. U. S. Nat. Mus., xxiii, 608. (C.W.J.)

**Tanypus** Meigen.

- carnea* Fabricius. Syst. Antl., 41, 1805. (H.L.J.)  
*dyari* Coquillett. Ent. News, xiii, 85.  
*johnsoni* Coquillett. Proc. U. S. Nat. Mus., xxiii, 609.  
*monilis* Linnæus. *annulatus*. Compl. Writ., ii, 43.

**Psilotanypus** Kieffer.

- thoracicus* Loew. *Tanypus*. Cent., vii, 3.

**Chasmatonotus** Loew.

- bimaculatus* Osten Sacken. West. Dipt., 191.

## Family CULICIDÆ.

**Wyeomyia** Theobald.

- smithii* Coquillett. *Aedes smithii*. Mosq. N. A., iii, 94.

**Culex** Linnæus.

- dyari* Coquillett. *brittoni*. Mosq. N. A., iii, 457.  
*pipiens* Linnæus. House or rain barrel mosquito. Rept. Conn.  
 Agr. Sta., 1904, 266; Mosq. N. A., iii, 360.  
*salinarius* Coquillett. Mosq. N. A., iii, 373.  
*territans* Walker. *Ibid.*, iii, 293.

**Mansonia** Blanchard.

- perturbans* Walker. *Culex. Taniorhynchus*. Mosq. N. A., iii,  
 505.

**Aedes** Meigen.

- atropalpus* Coquillett. Mosq. N. A., iv, 638.  
*aurifer* Coquillett. *Ibid.*, iv, 766.  
*canadensis* Theobald. *Ibid.*, iv, 647.  
*cantator* Coquillett. Brown salt marsh mosquito. *Ibid.*, iv,  
 700.  
*fitchii* Felt and Young, or *abfitchii* Felt., *Ibid.*, iv, 682, 688.\*  
*fuscus* Osten Sacken. *Ibid.*, iv, 729.  
*hirsuteron* Theobald. *pretans*. *Ibid.*, iv, 743.  
*onondagensis* Felt. *currei*. *Ibid.*, iv, 629.

\*Several females formerly identified as *Culex cantans* have been taken in Connecticut. As it is said to be impossible to separate *fitchii* and *abfitchii* from captured females, the species cannot be definitely placed here

*sollicitans* Walker. Banded salt marsh mosquito. *Ibid.*, 658.

Rept. Conn. Agr. Expt. Sta., 1904, 268.

*sylvestris* Theobald. Mosq. N. A., iv, 694.

*tæniorhynchus* Wiedeman. *Ibid.*, iv, 667.

*triseriatus* Say. *Ibid.*, iv, 762.

*trivittatus* Coquillett. *Ibid.*, iv, 773.

**Psorophora** Robineau-Desvoidy.

*ciliata* Fabricius. Gallinipper. Rept. Conn. Agr. Expt. Sta., 1904, 271; Mosq. N. A., iv, 530.

**Anopheles** Meigen.

*punctipennis* Say. Rept. Conn. Agr. Expt. Sta., 1904, 271; Mosq. N. A., iv, 1009.

*quadrimaculatus* Say. *maculipennis*. Malarial mosquito. Rept. Conn. Agr. Expt. Sta., 1904, 271; Mosq. N. A., 1028.

**Corethra** Meigen.

*cinctipes* Coquillett. Can. Ent., xxxv, 190.

**Sayomyia** Coquillett.

*americana* Johanssen. *Corethra plumicornis* var. *americana*. N. Y. State Mus. Bull., 68, 395.

Family MYCETOPHILIDÆ.

**Mycomya** Rondani.

*Sciophila* Meigen.

*littoralis* Say. Compl. Writ., i, 245.

**Neoempheria** Osten Sacken.

*balioptera* Loew. Cent., ix, 13.

**Leia** Meigen.

*bivittata* Say. *Neoglaphyoptera*. Compl. Writ., ii, 351.

*opima* Loew. Cent., ix, 29.

**Rhymosia** Winnertz.

*filipes* Loew. Cent., ix, 36.

**Exechia** Winnertz.

*absoluta* Johanssen. Me. Agr. Expt. Sta. Bull., 200, 72.

**Mycetophila** Meigen.

- contigua* Walker. List., i, 46.  
*discoidea* Say. Compl. Writ., ii, 351.  
*obscura* Walker. List, i, 101.  
*scalaris* Loew. *Dynatosoma*. Cent., ix, 48.

**Mycetobia** Meigen.

- divergens* Walker. Dipt. Saund., 418.

**Macrocera** Meigen.

- clara* Loew. Cent., ix, 6. (C.W.J.)  
*formosa* Loew. *Ibid.*, ix, 8. (C.W.J.)  
*hirsuta* Loew. *Ibid.*, ix, 5. (C.W.J.)  
*inconcinna* Loew. *Ibid.*, ix, 7. (C.W.J.)

## Family SCIARIDÆ.

**Sciara** Meigen.

- actuosa* Johannsen. Me. Agr. Expt. Sta., Bull. 200, 134.  
*inconstans* Fitch. *Ibid.*, Bull. 200, 139.  
*jucunda* Johannsen. *Ibid.*, Bull. 200, 131.  
*mellea* Johannsen. *Ibid.*, Bull. 200, 129.  
*ochrolabis* Loew. *Ibid.*, Bull. 200, 125.  
*pauciseta* Felt. *Ibid.*, Bull. 200, 130.  
*prolifca* Felt. *Ibid.*, Bull. 200, 128.  
*sciophila* Loew. *Ibid.*, Bull. 200, 126.

## Family CECIDOMYIDÆ (ITONIDIDÆ).\*

**Monardia** Kieffer.

- modesta* Felt. Psyche, xx, 142.

**Miastor** Meinert.

- americanus* Felt. Rept. N. Y. State Ent., No. 26, 82.

**Rhabdophaga** Westwood.

- salicifoliæ* Felt. Rept. N. Y. State Ent., No. 29, 106.  
*strobiloides* Walsh. *Cecidomyia*. Pine cone willow gall. Proc.  
 Phila. Ent. Soc., iii, 580; Rept. N. Y. State Ent., No. 29,  
 112.

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\* For additional species in this family see appendix.

**Dasyneura Rondani.**

**communis** Felt. Jour. Econ. Ent., iv, 478; Rept. N. Y. State Ent., No. 29, 181.

**gleditschiæ** Osten Sacken. Rept. Conn. Agr. Expt. Sta., 1904, 212; Rept. N. Y. State Ent., No. 29, 163.

**serrulatæ** Osten Sacken. Rept. N. Y. State Ent., No. 29, 186.

**Cystiphora Kieffer.**

**viburnifolia** Felt. Jour. Econ. Ent., iv, 480; Rept. N. Y. State Ent. No. 29, 201.

**Phytophaga Rondani.**

**destructor** Say. *Cecidomyia. Mayetiola.* Hessian fly. Bur. Ent., Circ. 70.

**rigidæ** Osten Sacken. *Cecidomyia.* Willow club gall. Rept. N. Y. State Ent., No. 23, 371.

**Rhopalomyia Rubsaamen.**

**anthophili** Osten Sacken. Ins. Galls Springfld., 50; Rept. N. Y. State Ent., No. 25, 364, 365. (G. D.)

**asterifloræ** Felt. Rept. N. Y. State Ent., No. 23, 366.

**capitata** Felt. *Ibid.*, No. 23, 364.

**hirtipes** Osten Sacken. Ins. Galls. Springfld., 52. (G.D.)

**lateriflori** Felt. Rept. N. Y. State Ent. No. 23, 364, 365.

**pedicellata** Felt. *Ibid.*, 30, 262.

**Sackenomyia Felt.**

**viburnifolia** Felt. Rept. N. Y. State Ent., No. 30, 280.

**Cincticornia Felt.**

**connecta** Felt. Rept. N. Y. State Ent., No. 23, 381.

**globosa** Felt. Jour. Econ. Ent., ii, 291.

**majalis** Osten Sacken. Ins. Galls. Springfld., 17. (G.D.)

**pustulata** Felt. Jour. Econ. Ent., ii, 291.

**Asphondylia Loew.**

**conspicua** Osten Sacken. Ins. Galls Springfld., 54.

**monacha** Osten Sacken. Rept. N. Y. State Ent., No. 23, 376.

**Neolasioptera Felt.**

**perfoliata** Felt. Ins. Galls. Springfld., 49. (G.D.)

**ramuscula** Beutenmüller. Rept. N. Y. State Ent., No. 23, 333.

**sambuci** Felt. Ins. Galls. Springfld., 48. (G.D.)

**Lasioptera** Meigen.

- corni* Felt. Rept. N. Y. State Ent., No. 23, 324.  
*impatentifolia* Felt. Ins. Galls Springfld., 43; Rept. N. Y. State Ent., No. 23, 324. (G.D.)  
*querciperda* Felt. Rept. N. Y. State Ent., No. 23, 324.  
*vitis* Osten Sacken. *Ibid.*, No. 4, 183; No. 23, 324.

**Asteromyia** Felt.

- carbonifera* Felt. *Baldratia*. Rept. N. Y. State Ent., No. 23, 328.  
*divaricata* Felt. *Baldratia*. *Ibid.*, No. 23, 330.  
*læviana* Felt. *Baldratia*. *Ibid.*, No. 23, 330.  
*nigrina* Felt. Jour. Econ. Ent., iv, 481.  
*reducta* Felt. *Ibid.*, iv, 481.  
*rosea* Felt. *Baldratia*. Rept. N. Y. State Ent., No. 23, 328.  
*rubra* Felt. *Baldratia*. *Ibid.*, No. 23, 329.  
*sylvestris* Felt. Can. Ent., xlvii, 228.  
*vesiculosa* Felt. Jour. Econ. Ent., ii, 286.

**Camptoneuromyia** Felt.

- rubifolia* Felt. Rept. N. Y. State Ent., No. 23, 334.

**Contarinia** Rondani.

- canadensis* Felt. State Mus. Bull., 200, 178.  
*pyrivora* Riley. Pear midge. Rept. Conn. Agr. Expt. Sta., 1913, 239.  
*tritici* Kirby. Wheat midge. Jour. Econ. Ent., 5, 289.  
*violicola* Coquillett. Violet Midge. Bur. Ent., N. S., Bull. 27, 47.  
*virginiana* Felt. Ins. Galls Springfld., 40. (G.D.)

**Thecodiplosis** Kieffer.

- liriodendri* Osten Sacken. *Cecidomyia*. Mon. N. A. Dipt., i, 202.

**Youngomyia** Felt.

- umbellicola* Osten Sacken. Trans. Ant. Ent. Soc., iii, 52.

**Clinodiplosis** Kieffer.

- florida* Felt. Rept. N. Y. State Ent., No. 23, 411.

**Caryomyia** Felt.

- caryæ* Osten Sacken. *Hormomyia*. Rept. N. Y. State Ent., No. 23, 388.  
*consobrina* Felt. *Hormomyia*. *Ibid.*, No. 23, 387.  
*persicoides* Beutenmüller. *Cecidomyia*. Mon. N. A. Dipt., i, 103.



*sanguinolenta* Osten Sacken. *Cecidomyia*. *Ibid.*, i, 192.  
*thompsoni* Felt. *Hormomyia*. Rept. N. Y. State Ent., No.  
 23, 388.

**Hormomyia** Loew.

*modesta* Felt. *Psyche*, xx, 145.

**Itonida** Meigen.

*foliora* Russell and Hooker. *Cecidomyia erubescens*. Ent.  
 News, xix, 349.

**Retinodiplosis** Kieffer.

*resinicola* Osten Sacken. Trans. Am. Ent. Soc., iii, 345.

**Cecidomyia** Meigen.

*deserta* Patton. Can. Ent., xxix, 247. (Ald. Cat.)

*eupatorifloræ* Beutenmüller. Ins. Galls Springfld., 49 (G.D.)

*impatiensis* Osten Sacken. *Ibid.*, 43. (G.D.)

*ocellaris* Osten Sacken. *Sciara*. Ocellate leaf gall. Rept.  
 U. S. Dept. Agr., 1881-2, 202.

*pubibunda* Osten Sacken. Ins. Galls Springfld., 15. (G.D.)

*squamulicola* Stebbins. *Ibid.*, 16.

*verrucicola* Osten Sacken. Can. Ent., vii, 201.

Family BIBIONIDÆ.

**Bibio** Geoffroy.

*albipennis* Say. Insect Book, pl. xv, 18.

*femoratus* Weidemann. Dipt. Exot. (Suppl.), i, 87.

*longipes* Loew. Cent., v, 12.

*pallipes* Say. Compl. Writ., ii, 68.

*xanthopus* Wiedemann. Dipt. Exot. (Suppl.), i, 88.

**Dilophus** Meigen.

*d'imidiatus* Loew. Cent., viii, 3. (C.W.J.)

Family SCATOPSIDÆ.\*

**Rhegmoclema** Enderlein.

*atrata* Say. *Scatopse*. Wash. Agr. Expt. Sta., Bull. 130, 12.

**Reichertella** Enderlein.

*femoralis* Macquart. *Scatopse pulicaria* Loew. Wash. Agr.  
 Expt. Sta., Bull. 130, 9.

\* See also appendix.

## Family SIMULIIDÆ.

**Simulium** Latreille.

- bracteatum* Coquillett. Bur. Ent. Bull., 10, New ser., 69.  
*pecuarum* Riley. *invenustum*. Bur. Ent., Bull. 10, New ser., 68.

## Family RYPHIDÆ.

**Ryphus** Latreille.

- alternatus* Say. Compl. Writ., ii, 51.  
*fenestralis* Scopoli. Fauna Aust., ii, 495.  
*punctatus* Fabricius. *marginatus*. Compl. Writ., ii, 50.

## Family STRATIOMYIDÆ.

**Allognosta** Osten Sacken.

- fuscitarsis* Say. *Beris*. Compl. Writ., ii, 52.  
*obscuriventris* Loew. Cent., iv, 45.

**Ptecticus** Loew.

- sackenii* Williston. Can. Ent., xvii, 124. (C.W.J.)  
*trivittatus* Say. *Sargus*. Compl. Writ., ii, 355.

**Macrosargus** Bigot.*Sargus* Fabricius.

- cuprarius* Linnæus. Fauna Aust., i, 21; Psyche, xxii, 29.  
*decorus* Say. Insect Book, pl. xvi, 11.  
*elegans* Loew. Cent., vii, 10.  
*viridis* Say. Compl. Writ., ii, 77.

**Stratiomyia** Geoffroy.

- badius* Walker. Trans. Am. Ent. Soc., xxii, 243. (A.B.C.)  
*discalis* Loew. *Ibid.*, xxii, 240.  
*meigenii* Wiedemann. *Ibid.*, xxii, 238.  
*normula* Loew. *Ibid.*, xii, 255. (Ald. Cat.)  
*quaternaria* Loew. *Ibid.*, xxii, 241. (Ald. Cat.)

**Odontomyia** Meigen.

- cincta* Olivier. Trans. Am. Ent. Soc., xxii, 253.  
*flavicornis* Olivier. *Ibid.*, xxii, 269.  
*hydroleonoides* Johnson. *Ibid.*, xxii, 261. (C.W.J.)  
*interrupta* Olivier. *Ibid.*, xxii, 265.

*microstoma* Loew. *Ibid.*, xxii, 264.

*pubescens* Day. *Ibid.*, xxii, 264.

*virgo* Wiedemann. *Ibid.*, xxii, 262.

**Euparyphus** Gerstaecker.

*bellus* Loew. Cent., vii, 18. (C.W.J.)

**Nemotelus** Geoffroy.

*carbonarius* Loew. Psyche, x, 177.

*unicolor* Loew. *Ibid.*, x, 176. (C.W.J.)

**Oxycera** Meigen.

*maculata* Olivier. Encycl. Meth., viii, 600. (C.W.J.)

Family TABANIDÆ.

**Pangonia** Latreille.

*rasa* Loew. Tab. Ohio, 45.

**Chrysops** Meigen.

*callidus* Osten Sacken. Tab. Ohio, 35.

*carbonarius* Walker. Ohio Nat., v, 219.

*celer* Osten Sacken. Tab. Ohio, 36.

*cuclux* Whitney. Can. Ent., xi, 35.

*cursim* Whitney. *Ibid.*, xi, 36.

*delicatulus* Osten Sacken. Prodrôme, i, 380.

*dimmocki* Hine. Ohio Nat., vi, 393.

*fallax* Osten Sacken. Tab. Ohio, 36.

*flavidus* Wiedemann. *Ibid.*, 37.

*frigidus* Osten Sacken. Prodrôme, i, 384.

*hilaris* Osten Sacken. Insect Book, pl. xvi, 17.

*indus* Osten Sacken. Tab. Ohio, 33, 34.

*lugens* Wiedemann var. *morosus* Osten Sacken. Prodrôme, i, 377. (J.S.H.)

*mœchus* Osten Sacken. Tab. Ohio, 39.

*montanus* Osten Sacken. *Ibid.*, 40.

*niger* Macquart. Insect Book, pl. xv, 36.

*obsoletus* Wiedemann. Tab. Ohio, 42.

*plangens* Wiedemann. *fuliginosus*. Dipt. Exot. Suppl., i, 19.

*pubicus* Osten Sacken. Prodrôme, i, 381.

*sackeni* Hine. Tab. Ohio, 42.

*univittatus* Macquart. *Ibid.*, 44.

*vittatus* Wiedemann. Insect Book, pl. xv, 37.

**Tabanus** Linnæus.

- abdominalis* Fabricius. Prodrôme, ii, 434.  
*acteon* Osten Sacken. *Ibid.*, ii, 443. (Ald. Cat.)  
*astutus* Osten Sacken. *Ibid.*, ii, 471. (Ald. Cat.)  
*atratus* Fabricius. Black horse fly. Insect Book, pl. xv, 42.  
*bicolor* Wiedemann. *Ibid.*, pl. xvi, 13.  
*cinctus* Fabricius. Prodrôme, ii, 464.  
*coffeatus* Macquart. *Ibid.*, ii, 441. (A.B.C.)  
*costalis* Wiedemann. Insect Book, pl. xv, 38.  
*epistates* Osten Sacken. Tab. Ohio, 50. (A.B.C.)  
*giganteus* DeGeer. Prodrôme, ii, 464. (C.W.J.)  
*hinei* Johnson. Psyche, xl, 15.  
*lasiophthalmus* Macquart. Insect Book, pl. xv, 41.  
*lineola* Fabricius. *Ibid.*, pl. xv, 35.  
*longus* Osten Sacken. Tab. Ohio, 52.  
*microcephalus* Osten Sacken. Prodrôme, ii, 470.  
*nigrescens* Beauvois. *Ibid.*, ii, 453.  
*nigrovittatus* Macquart. *Ibid.*, ii, 449.  
*nivosus* Osten Sacken. Tab. Ohio, 52.  
*ohioensis* Hine. *Ibid.*, 53.  
*orion* Osten Sacken. Prodrôme, ii, 442.  
*pumilis* Macquart. Tab. Ohio, 53. (A.B.C.)  
*recedens* Walker. *catenatus*. Prodrôme, ii, 433.  
*sparus* Whitney. Can. Ent., xi, 38. (Ald. Cat.)  
*stygius* Say. Tab. Ohio, 54. (Ald. Cat.)  
*superjumentarius* Whitney. Can. Ent., xi, 37.  
*trimaculatus* Beauvois. Tab. Ohio, 55. (A.B.C.)  
*trispilus* Wiedemann. Insect Book, pl. xvi, 5.  
*vivax* Osten Sacken. Tab. Ohio, 56.

**Merycomyia** Hine.

- whitneyi* Johnson. *geminata* Hine. Psyche, xi, 15; Ohio Nat., xii, 515.

## Family LEPTIDÆ.

**Cœnomyia** Latreille.

- ferruginea* Scopoli. *cincreibarbis* Bigot. Can. Ent., xvii, 122.

**Xylophagus** Meigen.

- lugens* Loew. Cent., iii, 8.  
*persequus* Walker. Dipt. Saund., i. (A.B.C.)

**Solva** Walker.*Nylomyia* Rondani.

pallipes Loew. Cent. iii, 122. (W.E.B.)

**Dialysis** Walker.

elongata Say. Compl. Writ., ii, 58. (C.W.J.)

**Rhagio** Fabricius.*Leptis* Fabricius.

mystacea Macquart. Insect Book, pl. xvi, 15.

punctipennis Say. Compl. Writ., ii, 55.

scapularis Loew. Cent., i, 22. (S.W.W.)

vertebrata Say. Compl. Writ., i, 27.

**Chrysophila** Macquart.

basilaris Say. Trans. Am. Ent. Soc., v, 285.

fasciata Say. Compl. Writ., i, 28.

ornata Say. Insect Book, pl. xv, 2.

propinqua Walker. List, i, 215.

proxima Walker. *Ibid.*, i, 214.quadrata Say. *Leptis*. Compl. Writ., ii, 55. (W.E.B.)

thoracica Fabricius. Insect Book, pl. xvi, 18.

**Atherix** Meigen.

variegata Walker. List, i, 218. (H.L.J.)

**Symphoromyia** Frauenfeld.

hirta Johnson. Ent. News, viii, 120.

**Glutops** Burgess.singularis Burgess. Proc. Bost. Soc. Nat. Hist., 1878, 320.  
(H.L.J.)

## Family CYRTIDÆ.

**Oncodes** Latreille.

costatus Loew. Cent., ix, 67. (C.W.J.)

pallidipennis Loew. *Ibid.*, vi, 32.**Acrocera** Meigen.

nigrina Westwood. Trans. Ent. Soc., Lond., v, 98. (C.W.J.)

## Family BOMBYLIIDÆ.

**Spogostylum** Macquart.

*anale* Say. Compl. Writ., ii, 60.

*cædipus* Fabricius. *Anthrax irrorata*. *Ibid.*, ii, 61. (S.W.W.)

*simson* Fabricius. Insect Book, pl. xvii, 11.

**Exoprosopa** Macquart.

*fasciata* Macquart. Insect Book, pl. xviii, 18.

*fascipennis* Say. *Ibid.*, pl. xvii, 5.

**Villa** Lioy.*Anthrax* Scopoli.

*alternata* Say. Trans. Am. Ent. Soc., xiv, 166.

*fulvohirta* Wiedemann. *Ibid.*, xiv, 174.

*lateralis* Say. *Ibid.*, xiv, 166; xix, 169.

*lepidota* Osten Sacken. Trans. Am. Ent. Soc., xix, 176.

(C.W.J.)

*morio* Linnæus. Trans. Am. Ent. Soc., xxi, 98. (C.W.J.)

*sinuosa* Wiedemann. Insect Book, pl. xvii, 7.

*webberi* Johnson. Psyche, xxvi, 11.

**Bombylius** Linnæus.

*fraudulentus* Johnson. Psyche, xiv, 99.

*fulvibasis* Macquart. *atriceps* Loew. Cent. iv, 49.

*major* Linnæus. Insect Book, pl. xvii, 6.

*pulchellus* Loew. Cent., iv, 47. (S.W.W.)

*pygmæus* Fabricius. Insect Book, pl. xviii, 19.

*varius* Fabricius. *Ibid.*, pl. xviii, 22. (A.B.C.)

**Sparnopolius** Loew.

*fulvus* Wiedemann. Insect Book, pl. xviii, 26.

**Systropus** Wiedemann.

*macr* Loew. Cent., iv, 56.

**Geron** Meigen.

*senilis* Fabricius. Cent., ix, 1908.

## Family THEREVIDÆ.

**Tabuda** Walker.

*fulvipes* Walker. Proc. Phila. Ent. Soc., i, 217.

**Psilocephala** Zetterstedt.

- aldrichi** Coquillet. Can. Ent., xxv, 227.  
**hæmorrhoidalis** Macquart. Insect Book, pl. xviii, 27.  
**melanoprocta** Loew. Cent., viii, 15. (H.L.J.)  
**pictipennis** Wiedemann. Dipt. Exot. Suppl., 113. (H.L.J.)

**Thereva** Latreille.

- albiceps** Loew. Cent., ix, 69. (C.W.J.)  
**candidata** Loew. Can. Ent., xxv, 197.  
**frontalis** Say. Compl. Writ., i, 252. (C.W.J.)

## Family SCENOPINIDÆ.

**Scenopinus** Latreille.

- fenestralis** Linnæus. *pallipes*. Compl. Writ., ii, 86. (C.W.J.)  
**glabrifrons** Meigen. Fauna Aust., i, 160.

## Family MYDAIDÆ.

**Mydas** Fabricius.

- clavatus** Drury. *filatus*. Dipt. Exot. Suppl., 116.

## Family ASILIDÆ.

**Leptogaster** Meigen.

- badius** Loew. Trans. Am. Ent. Soc., xxxv, 160.  
**flavillaceus** Loew. Cent., ii, 12.  
**flavipes** Loew. Trans. Am. Ent. Soc., xxxv, 163.  
**loewi** Banks. Psyche, xxi, 133. (C.W.J.)  
**testacea** Loew. Cent., ii, 10. (C.W.J.)

**Ceraturgus** Wiedemann.

- cruciatus** Say. Insect Book, pl. xvi, 29.

**Dioctria** Meigen.

- albius** Walker. Insect Book, pl. xvii, 12.  
**baumhaueri** Meigen. Syst. Besch., ii, 245.  
**brevis** Banks. Psyche, xxiv, 117.

**Cyrtopogon** Loew.

- falto** Walker. *chrysofogon* Loew. Insect Book, pl. xix, 28.  
**marginalis** Loew. Trans. Am. Ent. Soc., xxxv, 267.

**Lasiopogon** Loew.*Daulopogon* Loew.

*opaculus* Loew. Trans. Am. Ent. Soc., xxxv, 299. (C.W.J.)

*terricola* Johnson. Ent. News, xi, 326.

*tetragrammus* Loew. Trans. Am. Ent. Soc., xxxv, 301.  
(C.W.J.)

**Holcocephala** Jænnicke.

*abdominalis* Say. Trans. Am. Ent. Soc., xxxv, 309.

**Holopogon** Loew.

*guttula* Wiedemann. Trans. Am. Ent. Soc., xxxv, 313.

**Stichopogon** Loew.

*trifasciatus* Say. Trans. Am. Ent. Soc., xxxv, 335.

**Deromyia** Philippi.

*discolor* Loew. Trans. Am. Ent. Soc., xxxv, 358.

*umbrina* Loew. *Ibid.*, xxxv, 367.

*winthemi* Wiedemann. *Ibid.*, xxxv, 371.

**Taracticus** Loew.

*octopunctatus* Say. Trans. Am. Ent. Soc., xxxv, 373.

**Atomosia** Macquart.

*puella* Wiedemann. Psyche, x, 114.

**Lampria** Macquart.

*bicolor* Wiedemann. Insect Book, pl. xvi, 27.

**Dasyllis** Loew.

*champlainii* Walton. Ent. News, xxi, 243. (A.B.C.)

*flavicollis* Say. *Laphria*. Compl. Writ., i, 255.

*grossa* Fabricius. *Laphria tergissa*. *Ibid.*, ii, 67.

*posticata* Say. *Laphria*. Compl. Writ., i, 255.

*thoracica* Fabricius. Insect Book, pl. xviii, 11.

**Laphria** Meigen.

*canis* Williston. Trans. Am. Ent. Soc., xi, 31: Insect Book,  
pl. xvii, 10.

*gilva* Linnaeus. *bilineata*. Trans. Am. Ent. Soc., xi, 30.  
(D.J.C.)

**Ommatius** Wiedemann.

*marginellus* Fabricius. *tibialis*. Insect Book, pl. xvi, 25.



**Proctacanthus** Macquart.

- brevipennis* Wiedemann. Trans. Am. Ent. Soc., xii, 73.  
*philadelphicus* Macquart. Insect Book, pl. xvii, 24.

**Erax** Scopoli.

- æstuans* Linnæus. *bastardii* Macquart. Insect Book, pl. xvii, 14.  
*albibarbis* Macquart. *cinerascens*. *furax*. Trans. Am. Ent. Soc., xii, 67.  
*rufibarbis* Macquart. Dipt. Exot. Suppl., 1, 2, 116; Psyche, xvi, 33. (C.W.J.)

**Promachus** Loew.

- bastardii* Macquart. Trans. Am. Ent. Soc., xii, 63.  
*fitchii* Osten Sacken. *Ibid.*, xiii, 61. (H.L.J.)

**Asilus** Linnæus.

- auricomus* Hine. Ann. Ent. Soc. Am., ii, 148.  
*erythocnemius* Hine. *Ibid.*, ii, 163. (J.S.H.)  
*flavofemorata* Hine. *flavipes*. *Ibid.*, ii, 153.  
*notatus* Wiedemann. *Ibid.*, ii, 157.  
*novæ-scotiæ* Macquart. *Ibid.*, ii, 157.  
*orphne* Walker. *distinctus*. *Ibid.*, ii, 154.  
*paropus* Walker. *Ibid.*, ii, 161. (J.S.H.)  
*sadyates* Walker. *Ibid.*, ii, 156.  
*sericeus* Say. Insect Book, pl. xvii, 20.  
*snowii* Hine. *annulatus*. Ann. Ent. Soc. Am., ii, 160.

## Family DOLICHOPODIDÆ.

**Psilopus** Meigen.

- caudatus* Wiedemann. *caudatulus*. Mon. N. A. Dipt., ii, 271.  
*filipes* Loew. *Ibid.*, ii, 286. (S.W.W.)  
*pallens* Wiedemann. *Ibid.*, ii, 275. (C.W.J.)  
*patibulatus* Say. Compl. Writ., ii, 76.  
*scaber* Loew. Mon. N. A. Dipt., ii, 250. (C.W.J.)  
*scobinator* Loew. *Ibid.*, ii, 268. (C.W.J.)  
*sipho* Say. Compl. Writ., ii, 75.  
*tener* Loew. Cent., ii, 71.  
*unifasciatum* Say. Compl. Writ., ii, 75. (C.W.J.)

**Diaphorus** Meigen.

- leucostoma Loew. Mon. N. A. Dipt., ii, 166. (C.W.J.)  
mundus Loew. *Ibid.*, ii, 161. (C.W.J.)  
sodalis Loew. *Ibid.*, ii, 163. (C.W.J.)  
spectabilis Loew. *Ibid.*, ii, 162. (C.W.J.)

**Asyndetus** Loew.

- johnsoni Van Duzee. Psyche, xxiii, 93. (C.W.J.)

**Chrysotus** Meigen.

- affinis Loew. Mon. N. A. Dipt., ii, 178. (C.W.J.)  
auratus Loew. *Ibid.*, ii, 183.  
discolor Loew. *Ibid.*, ii, 182.  
obliquus Loew. *Ibid.*, ii, 176.

**Argyra** Macquart.

- albicans Loew. Mon. N. A. Dipt., ii, 125. (C.W.J.)  
aldrichi Johnson. Psyche, x, 18.  
calcitrans Loew. Mon. N. A. Dipt., ii, 130.

**Leucostola** Macquart.

- cingulata Loew. Mon. N. A. Dipt., ii, 152. (C.W.J.)

**Porphyrops** Meigen.

- longipes Loew. Mon. N. A. Dipt., ii, 140. (C.W.J.)  
melampus Loew. *Ibid.*, ii, 141. (C.W.J.)  
nigricoxa Loew. *Ibid.*, ii, 145. (C.W.J.)

**Syntormon** Loew.

- cinereiventris Loew. Mon. N. A. Dipt., ii, 137. (S.W.W.)

**Sympycnus** Loew.

- lineatus Loew. Mon. N. A. Dipt., ii, 189.

**Neurigona** Rondani.

- carbonifer Loew. Cent., x, 84. (C.W.J.)  
rubella Loew. Mon. N. A. Dipt., ii, 227. (C.W.J.)  
tarsalis Van Duzee. Ann. Ent. Soc. Am., vi, 51.

**Hydrophorus** Fallen.

- intentus Aldrich. Psyche, xviii, 51.  
parvus Loew. Mon. N. A. Dipt., ii, 216. (C.W.J.)  
pirata Loew. *Ibid.*, ii, 214.

**Rhaplium** Meigen.

**lugubre** Loew. *Pelastoneura*. Mon. N. A. Dipt., ii, 105.  
(C.W.J.)

**Dolichopus** Latreille.

**albicoxa** Aldrich. Kans. Univ. Quart., ii, 10. (Ald. Cat.)  
**brevimanus** Loew. Mon. N. A. Dipt., ii, 39. (C.W.J.)  
**calcaratus** Aldrich. Kans. Univ. Quart., ii, 8. (C.W.J.)  
**comatus** Loew. Mon. N. A. Dipt., ii, 69.  
**cuprinus** Wiedemann. *Ibid.*, ii, 55.  
**detersus** Loew. Kans. Univ. Quart., ii, 8. (C.W.J.)  
**eudactylus** Loew. Mon. N. A. Dipt., ii, 48. (C.W.J.)  
**incisuralis** Loew. *Ibid.*, ii, 74. (C.W.J.)  
**laticornis** Loew. *Ibid.*, ii, 29. (Ald. Cat.)  
**latipes** Loew. *Ibid.*, ii, 17. (Ald. Cat.)  
**longipennis** Loew. *Ibid.*, ii, 57. (C.W.J.)  
**marginatus** Aldrich. Kans. Univ. Quart., ii, 17.  
**melanocerus** Loew. Mon. N. A. Dipt., ii, 330.  
**palæstricus** Loew. *Ibid.*, ii, 328. (C.W.J.)  
**præustus** Loew. *Ibid.*, ii, 68. (C.W.J.)  
**quadrilamellatus** Loew. *Ibid.*, ii, 331. (C.W.J.)  
**ramifer** Loew. *Ibid.*, ii, 52. (C.W.J.)  
**setifer** Loew. *Ibid.*, ii, 30. (C.W.J.)  
**variabilis** Loew. *Ibid.*, ii, 50.  
**vittatus** Loew. *Ibid.*, ii, 55.

**Gymnopternus** Loew.

**barbatulus** Loew. Mon. N. A. Dipt., ii, 82. (S.W.W.)  
**crassicauda** Loew. *Ibid.*, ii, 95.  
**flavus** Loew. *Ibid.*, ii, 80.  
**lævigatus** Loew. *Ibid.*, ii, 87.  
**opacus** Loew. *Ibid.*, ii, 93.  
**ventralis** Loew. *Ibid.*, ii, 97.  
 sp.

**Pelastoneurus** Loew.

**lætus** Loew. Mon. N. A. Dipt., ii, 106.  
**lamellatus** Loew. *Ibid.*, ii, 338.  
**vagans** Loew. *Ibid.*, ii, 107. (C.W.J.)

## Family EMPIDIDÆ.

**Drapetis** Meigen.

- gilvipes* Loew. Trans. Am. Ent. Soc., xxviii, 212. (C.W.J.)  
*spectabilis* Melander. *Ibid.*, xxviii, 212.

**Platypalpus** Macquart.

- æqualis* Loew. Trans. Am. Ent. Soc., xxviii, 222.

**Tachydromia** Meigen.

- pusilla* Loew. Trans. Am. Ent. Soc., xxviii, 229.

**Hemerodromia** Meigen.

- defecta* Loew. Trans. Am. Ent. Soc., xxviii, 235. (C. W. J.)  
*empiformis* Say. *Ibid.*, xxviii, 236.

**Litanomyia** Melander.

- elongata* Melander. Trans. Am. Ent. Soc., xxviii, 232.

**Clinocera** Meigen.

- lineata* Loew. Cent., ii, 250. (C.W.J.)  
 sp.

**Syneches** Walker.

- rufus* Loew. Trans. Am. Ent. Soc., xxviii, 253.  
*simplex* Walker. *Ibid.*, xxviii, 254.

**Syndyas** Loew.

- polita* Loew. Trans. Am. Ent. Soc., xxviii, 254.

**Hybos** Meigen.

- electus* Melander. Trans. Am. Ent. Soc., xxviii, 247.  
 (C.W.J.)  
*slossonæ* Coquillett. *Ibid.*, xxviii, 247.  
*triplex* Walker. *Ibid.*, xxviii, 248.

**Leptopeza** Macquart.

- compta* Coquillett. Trans. Am. Ent. Soc., xxviii, 258.  
 (C.W.J.)

**Empis** Linnaeus.

- distans* Loew. Trans. Am. Ent. Soc., xxviii, 295.  
*otiosa* Coquillett. *Ibid.*, xxviii, 302. (A.B.C.)  
*pœcilopectera* Loew. *Ibid.*, xxviii, 298. (C.W.J.)  
*sordida* Loew. Cent., i, 29. (H.L.J.)  
*spectabilis* Loew. Trans. Am. Ent. Soc., xxviii, 311.  
*tridentata* Coquillett. *Ibid.*, xxviii, 301.

**Hilara** Meigen.

- leucoptera* Loew. Trans. Am. Ent. Soc., xxviii, 266.  
*mutabilis* Loew. *Ibid.*, xxviii, 265. (C.W.J.)  
*trivittata* Loew. *Ibid.*, xxviii, 265. (C.W.J.)  
*umbrosa* Loew. *Ibid.*, xxviii, 264.  
*velutina* Loew. *Ibid.*, xxviii, 264. (C.W.J.)

**Rhamphomyia** Meigen.

- angustipennis* Loew. Cent., i, 55.  
*aperta* Loew. *Ibid.*, ii, 27. (H.L.J.)  
*brevis* Loew. Proc. U. S. Nat. Mus., xviii, 414.  
*fumosa* Loew. Cent., i, 39.  
*gylvipes* Loew. *Ibid.*, i, 48. (C.W.J.)  
*irregularis* Loew. *Ibid.*, v, 60.  
*longicauda* Loew. Proc. U. S. Nat. Mus., xviii, 411.  
*manca* Coquillett, *Ibid.*, xviii, 415-427.  
*mutabilis* Loew. *Ibid.*, xviii, 411.  
*nana* Loew. *Ibid.*, xviii, 414.  
*pulla* Loew. *Ibid.*, xviii, 411-412. (Ald. Cat.)  
*pusio* Loew. *Ibid.*, xviii, 414.  
*scolopacea* Say. Compl. Writ., ii, 38. (C.W.J.)  
*umbilicata* Loew. Cent., i, 65. (C.W.J.)

## Family LONCHOPTERIDÆ.

**Lonchoptera** Meigen.

- lutea* Panzer. Faun. Germ., cviii, 20.  
*riparia* Meigen. Syst. Besch., iv, 108.

## Family PHORIDÆ.

**Paraspinophora** Malloch.

- multiseriata* Aldrich. Trans. Am. Ent. Soc., xxix, 345  
 (C.W.J.)

**Dohrniphora** Dahlbom.

- concinna* Meigen. *nitidifrons* Brues. Trans. Am. Ent. Soc.,  
 xxix, 347.

**Chætoneurophora** Malloch.

- spinipes* Coquillett. Can. Ent., xxvii, 105.

**Aphiochæta** Brues.

- approximata** Malloch. Proc. U. S. Nat. Mus., 43, 483.  
**epeiræ** Brues. Trans. Am. Ent. Soc., xxix, 358.  
**nigriceps** Loew. Cent., vii, 99. (G.A.C.)  
**rufipes** Meigen. Trans. Am. Ent. Soc., xxix, 368: Rept. Conn. Agr. Expt. Sta., 1909-10, 693.

**Phora** Latreille.*Trineura* Meigen.

- aterrima** Fabricius. Trans. Am. Ent. Soc., xxix, 378. (C.W.J.)

**Conocera** Meigen.

- atra** Meigen. Trans. Am. Ent. Soc., xxix, 380.

## Family PIPUNCULIDÆ.

**Chalarus** Walker.

- spurius** Fallen. Trans. Am. Ent. Soc., xxxvi, 274.

**Pipunculus** Latreille.

- atlanticus** Hough. Trans. Am. Ent. Soc., xxxvi, 294.  
 (C.W.J.)  
**cingulatus** Loew. *Ibid.*, xxxvi, 299.  
**minor** Cresson. *Ibid.*, xxxvi, 293.  
**nitidiventris** Loew. Proc. Bost. Soc. Nat. Hist., xxix, 82.  
**pallipes** Johnson. Ent. News, xiv, 107. (C.W.J.)  
**similis** Hough. Trans. Am. Ent. Soc., xxxvi, 315. (C.W.J.)  
**subvirescens** Loew. Proc. Bost. Soc. Nat. Hist., xxix, 84.

## Family SYRPHIDÆ.

**Microdon** Meigen.

- cothurnatus** Bigot. Syn. N. A. Syrph., 8. (C.W.J.)  
**fuscipennis** Macquart. *Ibid.*, 4. (C.W.J.)  
**globosus** Fabricius. *Ibid.*, 4.  
**megalogaster** Snow. Kans. Univ. Quart., i, 34. (C.W.J.)  
**ruficrus** Williston. Syn. N. A. Syrph. 7. (Ald. Cat.)  
**tristis** Loew. *Ibid.*, 6. (A.B.C.)

**Chrysotoxum** Meigen.

- derivatum** Walker. Syn. N. A. Syrph., 16. (C.W.J.)  
**laterale** Loew. *Ibid.*, 14.  
**pubescens** Loew. *Ibid.*, 15. (A.B.C.)

**Chrysogaster** Loew.

- nigripes* Loew. Syn. N. A. Syrph., 33.  
*nitida* Wiedemann. *Ibid.*, 35.  
*pictipennis* Loew. *Ibid.*, 37.  
*pulchella* Williston. *Ibid.*, 35.

**Pipiza** Fallen.

- albipilosa* Williston. Syn. N. A. Syrph., 28  
*calcarata* Loew. *Ibid.*, 24. (A.B.C.)  
*femoralis* Loew. *Ibid.*, 26. (C.W.J.)  
*modesta* Loew. *Ibid.*, 24.  
*pulchella* Williston. Syn. N. A. Syrph., 29. (Ald. Cat.)  
*radicum* Walsh and Riley. *pistica*. *Ibid.*, 29. (Ald. Cat.)

**Paragus** Latreille.

- bicolor* Fabricius. Syn. N. A. Syrph., 18.  
*tibialis* Fallen. *Ibid.*, 19.

**Chilosia** Meigen.

- cyanescens* Loew. Syn. N. A. Syrph., 42. (Ald. Cat.)  
*pallipes* Loew. *Ibid.*, 41.  
*tristis* Loew. *Ibid.*, 293.

**Myiolepta** Newman.

- nigra* Loew. Cent. x, 52. (C.W.J.)

**Baccha** Fabricius.

- cognata* Loew. Syn. N. A. Syrph., 122.  
*fascipennis* Wiedemann. *aurinota* Harris. *Ibid.*, 120.

**Ocyptamus** Macquart.

- fuscipennis* Say. *Baccha*. Syn. N. A. Syrph., 119. (Ald. Cat.)

**Pyrophæna** Schiner.

- granditarsus* Fœrster. *ocymi*. Syn. N. A. Syrph. 55. (C.W.J.)

**Platychirus** St. Fargeau and Serville.

- hyperboreus* Stæger. Syn. N. A. Syrph., 57.  
*peltatus* Meigen. *Ibid.*, 58. (C.W.J.)  
*quadratus* Say. *Ibid.*, 57.

**Melanostoma** Schiner.

- mellinum* Linnæus. Syn. N. A. Syrph., 49.  
*obscurum* Say. *Ibid.*, 48.

**Didea** Macquart.

*fasciata* Macquart. Syn. N. A. Syrph., 89. (A.B.C.)

**Syrphus** Fabricius.

*amalopis* Osten Sacken. Syn. N. A. Syrph., 69. (S.W.W.)

*americanus* Wiedmann. *Ibid.*, 82.

*arcuatus* Fallen. *Ibid.*, 68.

*grossulariæ* Meigen. *lesueurii*. Syn. N. A. Syrph., 80.

*latifasciatus* Macquart. *abbreviatus* Zetterstedt. *Ibid.*, 81.

*perplexus* Osburn. Jour. N. Y. Ent. Soc., xviii, 155.

*ribesii* Linnaeus. Syn. N. A. Syrph., 77.

*torvus* Osten Sacken. *Ibid.*, 79.

*xanthostomus* Williston. *Ibid.*, 86

**Allograpta** Osten Sacken.

*obliqua* Say. Syn. N. A. Syrph., 96.

**Xanthogramma** Schiner.

*æqualis* Loew. Syn. N. A. Syrph., 95. (A.B.C.)

*emarginata* Say. *Ibid.*, 93. (A.B.C.)

*felix* Osten Sacken. *Ibid.*, 91. (S.W.W.)

*flavipes* Loew. *Ibid.*, 94.

**Mesogramma** Loew.

*geminata* Say. *Mesograpta*. Syn. N. A. Syrph., 102.

*marginata* Say. *Mesograpta*. *Ibid.*, 100.

*polita* Say. *Mesograpta*. *Ibid.*, 98.

**Sphærophoria** St. Fargeau and Serville.

*cylindrica* Say. Syn. N. A. Syrph., 105.

**Sphegina** Meigen.

*campanulata* Robertson. Can. Ent., xxxiii, 284. (C.W.J.)

*keeniana* Williston. Syn. N. A. Syrph., 113. (C.W.J.)

*lobata* Loew. *Ibid.*, 115. (C.W.J.)

*rufiventris* Loew. *Ibid.*, 114. (H.W.W.)

**Neoascia** Williston.

*distincta* Williston. Syn. N. A. Syrph., 112. (C.W.J.)

*globosa* Walker. *Ibid.*, 111.

**Rhingia** Scopoli.

*nasica* Say. Syn. N. A. Syrph., 130.



**Brachyopa** Meigen.

*media* Williston. Syn. N. A. Syrph., 132.

**Volucella** Geoffroy.

*evecta* Walker. Syn. N. A. Syrph., 136. (A.B.C.)

*vesiculosa* Fabricius. *Ibid.*, 141. (Ald. Cat.)

**Sericomyia** Meigen.

*chrysotoxoides* Macquart. Syn. N. A. Syrph., 157.

*militaris* Walker. *Ibid.*, 155. (A.B.C.)

**Eristalis** Latreille.

*æneus* Scopoli. Syn. N. A. Syrph., 161.

*arbustorum* Linnaeus. Jour. N. Y. Ent. Soc., xxiii, 139.

*bastardii* Macquart. Syn. N. A. Syrph., 168.

*brousi* Williston. *Ibid.*, 165.

*compactus* Walker. *Ibid.*, 169. (S.W.W.)

*dimidiatus* Wiedemann. *Ibid.*, 162.

*flavipes* Walker. *Ibid.*, 168.

*saxorum* Wiedemann. *Ibid.*, 163.

*tenax* Linnaeus. *Ibid.*, 160.

*transversus* Wiedemann. *Ibid.*, 170.

**Tropidia** Meigen.

*quadrata* Say. Syn. N. A. Syrph., 207.

**Helophilus** Meigen.

*chrysostomus* Wiedemann. Syn. N. A. Syrph., 190.

*conostoma* Williston. *Ibid.*, 193.

*distinctus* Williston. *Ibid.*, 192.

*hamatus* Loew. *Ibid.*, 195.

*integer* Loew. *Ibid.*, 195.

*lætus* Loew. *Ibid.*, 189. (Ald. Cat.)

*latifrons* Loew. *Ibid.*, 188. (S.W.W.)

*similis* Macquart. *Ibid.*, 189.

**Mallota** Meigen.

*cimbiciformis* Fallen. Syn. N. A. Syrph., 202.

*posticata* Fabricius. *Ibid.*, 201. (A.B.C.)

**Triodonta** Williston.

*curvipes* Wiedemann. Syn. N. A., Syrph., 206.

**Pterallastes** Loew.

*thoracicus* Loew. Cent., iv, 80. (A.B.C.)

**Teuchocnemis** Osten Sacken.

*lituratus* Loew. Syn. N. A. Syrph., 200. (S.W.W.)

**Syritta** St. Fargeau and Serville.

*pipiens* Linnæus. Syn. N. A. Syrph., 240.

**Xylota** Meigen.\*

*angustipennis* Loew. Syn. N. A. Syrph., 231.

*bicolor* Loew. *Ibid.*, 229. (A.B.C.)

*chalybea* Wiedemann. *Ibid.*, 233.

*ejuncida* Say. *Ibid.*, 229.

*fraudulosa* Loew. *Ibid.*, 230. (A.B.C.)

*obscura* Loew. *Ibid.*, 233. (C.W.J.)

**Ferdinandea** Rondani.

*dives* Osten Sacken. *Chrysochlamys*. West. Dipt., 340; Syn. N. A. Syrph., 241. (C.W.J.)

**Brachypalpus** Macquart.

*frontosus* Loew. Syn. N. A. Syrph., 221. (A.B.C.)

**Criorhina** Meigen.

*analis* Macquart. Syn. N. A. Syrph., 214. (A.B.C.)

*badia* Walker. *intersistens* Walker. *Ibid.*, 212.

*decora* Macquart. *Somula*. *Ibid.*, 216. (A.B.C.)

*umbratilis* Williston. *Cynorhina*. *Ibid.*, 212.

**Milesia** Latreille.

*virginiensis* Drury. *ornata*. Syn. N. A. Syrph., 255.

**Spilomyia** Meigen.

*fusca* Loew. Syn. N. A. Syrph., 246.

*hamifera* Loew. *Ibid.*, 247. (A.B.C.)

*longicornis* Loew. *Ibid.*, 245. (A.B.C.)

*quadrifasciata* Say. *Ibid.*, 248.

**Sphecomyia**.

*vittata* Wiedemann. Syn. N. A. Syrph., 257. (C.W.J.)

**Temnostoma** St. Fargeau and Serville.

*alternans* Loew. Syn. N. A. Syrph., 252.

*bombylans* Fabricius. *Ibid.*, 250. (Ald. Cat.)

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\* See also appendix.

**Ceriodes** Rondani.*Ceria* Fabricius.**abbreviata** Loew. Syn. N. A. Syrph., 261. (S.W.W.)**Eumerus** Meigen.**strigatus** Fallen. Lunate onion fly. Rept. N. Y. State Ent., 27, 119.

## Family CONOPIDÆ.

**Conops** Linnæus.**brachyrhynchus** Macquart. Trans. Conn. Acad. Sci., iv, 341.**sylvosus** Williston. *Ibid.*, iv, 329.**xanthopareus** Williston. Insect Book, pl. xxi, 37.**Physocephala** Schiner.**sagittaria** Say. Trans. Conn. Acad. Sci., vi, 391. (C.W.J.)**tibialis** Say. Insect Book, pl. xv, 1.**Zodion** Latreille.**fulvifrons** Say. Insect Book, pl. xxi, 35.**Stylogaster** Macquart.**biannulata** Say. *Myopa*. Compl. Writ., ii, 72. (S.W.W.)**neglecta** Williston. Trans. Conn. Acad. Sci., vi, 91. (S.W.W.)**Dalmannia** Robineau-Desvoidy.**nigriceps** Loew. Trans. Conn. Acad. Sci., vi, 94. (S.W.W.)**Oncomyia** Robineau-Desvoidy.**abbreviata** Loew. Trans. Conn. Acad. Sci., vi, 97.**baroni** Williston. *Ibid.*, vi, 97. (C.W.J.)**loraria** Loew. *Ibid.*, vi, 98.**modesta** Williston var. **melanopoda** Williston. *Ibid.*, vi, 96, 393.**Myopa** Fabricius.**clausa** Loew. Trans. Conn. Acad. Sci., vi, 385.**vesiculosa** Say. Compl. Writ., ii, 72.**vicaria** Walker. List, iii, 679. (H.L.J.)

## Family CESTRIDÆ.

**Gastrophilus** Leach.

*equi* Clark. Horse bot fly. Bur. Ent., Bull. 5, 76.

**Cestrus** Linnæus.

*ovis* Linnæus. Sheep bot fly. Bur. Ent., Bull. 5, 102.

**Hypoderma** Clark.

*bovis* DeGeer. Ox warble or bot fly. Bur. Ent., Bull. 5, 95.

*lineata* DeVilliers. Ent. News, iv, 299.

**Cuterebra** Clark.

*buccata* Fabricius. Mon. Cestriden, 247. (C.W.J.)

*cuniculi* Clark. Bur. Ent., Bull. 5, 108.

## Family TACHINIDÆ.

**Gymnoclytia** Brauer and Bergenstamm.

*immaculata* Macquart. *Cistogaster*. Revis. Tachinid., 42.

*occidua* Walker. *Cistogaster*. Smith. Misc. Coll., li, 127.

**Gymnosoma** Meigen.

*fulginosa* Desvoidy. Insect Book, pl. xxii, 2.

**Phorantha** Rondani.

*occidentis* Walker. Revis. Tachinid., 44.

**Alophora** Desvoidy.

*ænoventris* Williston. Revis. Tachinid., 45, 47.

*fumosa* Coquillett. *Ibid.*, 46. (C.W.J.)

**Trichopoda** Latreille.

*pennipes* Fabricius. Insect Book, pl. xv, 25.

*plumipes* Fabricius. Revis. Tachinid., 48. (A.B.C.)

**Myiophasia** Brauer and Bergenstamm.

*ænea* Wiedemann. Revis. Tachinid., 50. (A.B.C.)

**Cryptomeigenia** Brauer and Bergenstamm.

*theutis* Walker. Revis. Tachinid., 52.

**Dichætoneura** Johnson.

*leucoptera* Johnson. Psyche, xiv, 9.

**Polychætoneura** Walton.

*elyii* Walton. Proc. Wash. Ent. Soc., vi, 91.

**Actia** Desvoidy.

*pilipennis* Fallen. Revis. Tachinid., 59.

**Chætophleps** Coquillett.

*setosa* Coquillett. Revis. Tachinid., 59. (C.W.J.)

**Celatoria** Coquillett.

*spinosa* Coquillett. Revis. Tachinid., 60. (C.W.J.)

**Hypostena** Meigen.*Tachinophyto* Tower.

*barbata* Coquillett. Revis. Tachinid., 62. (C.W.J.)

*dunningii* Coquillett. *Ibid.*, 60.

*flaveola* Coquillett. *Ibid.*, 61.

*floridensis* Townsend. *Ibid.*, 62.

*variabilis* Coquillett. *Ibid.*, 62.

**Macquartia** Desvoidy.

*pristis* Walker. Revis. Tachinid., 64.

**Polidea** Macquart.

*areos* Walker. Revis. Tachinid., 64.

**Leskia** Desvoidy.

*nalis* Say. Revis. Tachinid., 67. (A.B.C.)

*thecata* Coquillett. *Ibid.*, 67. (A.B.C.)

**Leskiomima** Brauer and Bergenstamm.

*tenera* Wiedemann. Revis. Tachinid., 67.

**Leucostoma** Meigen.

*senilis* Townsend. Revis. Tachinid., 69. (C.W.J.)

**Hyalomyodes** Townsend.

*triangulifera* Loew. Revis. Tachinid., 70.

**Æstrophasia** Brauer and Bergenstamm.

*signifera* Van der Wulp. Biol. Dipt., ii, 167. (H.L.J.)

**Xanthomelanodes** Townsend.

*arcuata* Say. *Xanthomelana*. Revis. Tachinid., 75. (H.L.V.)

**Hemyda** Desvoidy.

*aurata* Desvoidy. Revis. Tachinid., 73.

**Eutrixa** Coquillett.

*exile* Coquillett. Revis. Tachinid., 72. (C.W.J.)

**Epigrymyia** Townsend.*polita* Townsend. Trans. Am. Ent. Soc., xviii, 376. (C.W.J.)**Siphona** Meigen.*brevirostris* Coquillett. Revis. Tachinid., 76. (C.W.J.)*geniculata* DeGeer. *Ibid.*, 75.**Cyrtophlœba** Rondani.*horrida* Coquillett. Revis. Tachinid., 78.**Paraplagia** Brauer and Bergenstamm.*spinosa* Bigot. Revis. Tachinid., 77. (W.E.B.)**Senotainia** Macquart.*trilineata* Van der Wulp. Revis. Tachinid., 81.**Belvosia** Desvoidy.*bifasciata* Fabricius. Smith Misc. Coll., li, 104. (C.W.J.)**Goniomima** Townsend.*unifasciata* Desvoidy. Revis. Tachinid., 84. (A.B.C.)**Melanophrys** Williston.*insolita* Walker. Revis. Tachinid., 85. (C.W.J.)**Ocyptera** Latreille.*carolinæ* Desvoidy. Insect Book., pl. xv, 29.*dosiades* Walker. Revis. Tachinid., 86.**Linnæmyia** Desvoidy.*hæmorrhoidalis* Fallen. *picta* Meigen. Revis. Tachinid., 87.**Bonnetia** Desvoidy.*compta* Fallen. Revis. Tachinid., 87.**Ernestia** Desvoidy.*Panzeria.**radicum* Fabricius. Insect Book, pl. xv, 28.*ruficauda* Brauer. *Hystriæ. aldrichii* Townsend. Smith. Misc. Coll., li, 109. (H.E.S.)**Macromeigenia** Brauer and Bergenstamm.*chrysoprocta* Wiedemann. Revis. Tachinid., 89. (A.B.C.)**Gymnochæta** Desvoidy.*alcedo* Loew. Cent., viii, 61.*fuficornis* Williston. Trans. Am. Ent. Soc., xiii, 302. (C.W.J.)**Exoristoides** Coquillett.*slossonæ* Coquillett. Revis. Tachinid., 90. (H.E.S.)

**Exorista** Meigen.

- boarmia** Coquillett. Revis. Tachinid., 95. (H.E.S.)  
**confinis** Fallen. *Ibid.*, 97.  
**eudryæ** Townsend. *Ibid.*, 100. (C.W.J.)  
**futilis** Osten Sacken. *Ibid.*, 98. (S.W.W.)  
**petiolata** Coquillett. *Ibid.*, 98.  
**chelonias** Rondani. *Ibid.*, 92. (H.E.S.)  
**vulgaris** Fallen. *Ibid.*, 93. (H.E.S.)  
**pyste** Walker. *Ibid.*, 93.

**Compsilura** Bouché.

- concinata** Meigen. U. S. Dept. Agr., Bull. 204, fig. 2.

**Phorocera** Desvoidy.

- claripennis** Macquart. Insect Book, pl. xxii, 6.  
**erecta** Coquillett. Proc. U. S. Nat. Mus., xxv, 112.

**Neopales** Coquillett.

- ainaris** Smith. Proc. Wash. Ent. Soc., xiv, 119.  
**slossonæ** Townsend. Smith. Misc. Coll., li, 108. (H.E.S.)  
**leucaniæ** Coquillett. Revis. Tachinid., 104. (C.W.J.)  
**tortricis** Coquillett. *Ibid.*, 103. (A.B.C.)

**Doryphorophaga** Townsend.

- doryphoræ** Riley. Revis. Tachinid., 104.

**Frontina** Meigen.

- aberrans** Townsend. Ent. News., xxvii, 217.  
**aletias** Riley. Can. Ent., xi, 162.  
**ancilla** Walker. Revis. Tachinid., 106.  
**frenchii** Williston. *Ibid.*, 107.

**Sturmia** Desvoidy.

- albifrons** Walker. Revis. Tachinid., 109.  
**nidicola** Townsend. *Zygobothria*. Bur. Ent., Bull. 91, 289.  
**nigrita** Townsend. Trans. Am. Ent. Soc., xviii, 358.  
**phycidis** Coquillett. Revis. Tachinid., 109. (C.W.J.)

**Masicera** Macquart.

- myoidea** Desvoidy. Revis. Tachinid., 114.  
**rutila** Meigen. *Ibid.*, 114. (H.L.V.)

**Acemyia** Desvoidy.

- dentata** Coquillett. Revis. Tachinid., 116. (D.W.C.)

**Tachina** Meigen.\*

*mella* Walker. Revis. Tachinid., 119.

*robusta* Townsend. *Ibid.*, 119.

*rustica* Fallen. *Ibid.*, 119.

**Neofischeria** Townsend.

*flava* Townsend. Taxonomy, 75. (C.W.J.)

**Blepharipeza** Macquart.

*adusta* Loew. Insect Book, pl. xxii, 18, 22. (A.B.C.)

*leucophrys* Wiedemann. Revis. Tachinid., 124.

**Winthemia** Desvoidy.

*quadripustulata* Fabricius. Insect Book, pl. xxii, 4.

**Paradidyma** Brauer and Bergenstamm.

*singularis* Townsend. Revis. Tachinid., 126.

**Metachæta** Coquillett.

*helymus* Walker. Revis. Tachinid., 126.

**Phorichæta** Rondani.

*sequax* Williston. Revis. Tachinid., 126. (B.H.W.)

**Metopia** Meigen.

*lateralis* Macquart. Revis. Tachinid., 127. (C.W.J.)

*leucocephala* Rossi. Can. Ent., xliii, 314; xliv, 170.

**Araba** Desvoidy.

*tergata* Coquillett. Jour. N. Y. Ent. Soc., iii, 103. (G.D.)

**Opsidia** Coquillett.

*gonoides* Coquillett. Revis. Tachinid., 128. (J.A.H.)

**Hilarella** Rondani.

*fulvicornis* Coquillett. Revis. Tachinid., 128. (H.L.V.)

*polita* Townsend. *Ibid.*, 129.

**Brachycoma** Rondani.

*apicalis* Coquillett. Revis. Tachinid., 131. (D.W.C.)

**Gonia** Meigen.

*capitata* DeGeer. Insect Book, pl. xv, 26, 31.

*distincta* H. E. Smith. Psyche, xxii, 99.

*senilis* Williston. Can. Ent., xix, 10.

**Spallanzania** Desvoidy.

*bucephala* Meigen. *hebes* Rondani. Revis. Tachinid., 135.  
(C.W.J.)

*hesperidarum* Williston. *Ibid.*, 135.

\* See also appendix.



**Gædiopsis** Brauer and Bergenstamm.

*ocellaris* Coquillett. Proc. U. S. Nat. Mus., xxv, 118. (A.B.C.)

**Microphthalma** Macquart.

*disjuncta* Wiedemann. Revis. Tachinid., 138.

**Tricophora** Macquart.

*ruficauda* Van der Wulp. Revis. Tachinid., 139.

**Cuphocera** Macquart.

*fucata* Van der Wulp. Revis. Tachinid., 140.

*prompta* Zetterstedt. *Ibid.*, 141.

**Peleteria** Desvoidy.

*robusta* Wiedemann. Revis. Tachinid., 141.

*prompta* Zetterstedt. *Ibid.*, 141.

**Archytas** Jænnicke.

*analis* Fabricius. Insect Book, pl. xxii, 10.

*aterrima* Desvoidy. *Ibid.*, pl. xv, 33.

*hystrix* Fabricius. Revis. Tachinid., 142.

*lateralis* Macquart. Insect Book, pl. xxii, 14.

**Echinomyia** Dumeril.

*algens* Wiedemann. Insect Book, pl. xv, 27.

*decisa* Walker. Revis. Tachinid., 143. (S.W.W.)

*florum* Walker. *Ibid.*, 144. (H.L.J.)

**Epalpus** Rondani.

*signifera* Walker. Insect Book., pl. xxii, 12.

**Bombyliomyia** Brauer and Bergenstamm.

*abrupta* Wiedemann. Insect Book, pl. xv, 22.

**Jurinia** Desvoidy.

*adusta* Van der Wulp. *metallica*. Insect Book, pl. xv, 27;  
pl. xxii, 16, 27.

## Family DEXIIDÆ.

**Myiocera** Desvoidy.

*simplex* Bigot? Annales, 1888, 266.

**Melanophora** Meigen.

*roralis* Linnæus. Syst. Besch., iv, 284.

**Ptilodexia** Brauer and Bergenstamm.

**harpasa** Walker. *tibialis*. *Myiocera*. Myodaires, 306.

**Thelaira** Desvoidy.

**leucozona** Panzer. Insect Book., pl. xxii, 24.

**Theresia** Desvoidy.

**tandrec** Desvoidy. Myodaires, 326.

## Family SARCOPHAGIDÆ.

**Sarcophaga** Meigen.

**bullata** Parker. Can. Ent., xlvi, 359.

**cimbicis** Townsend. *Ibid.*, xxiv, 126.

**communis** Parker. Proc. Bos. Soc. Nat. Hist., 35, 55.

**fernaldi** Parker. *Ibid.*, 35, 72.

**hæmorrhoidalis** Fallen. Sarcoph. N. A., 189.

**helicis** Townsend. *Ibid.*, 158.

**latisetosa** Parker. Proc. Bos. Soc. Nat. Hist., 35, 63.

**latisterna** Parker. *Ibid.*, 35, 67. (C.W.J.)

**peniculata** Parker. *Ibid.*, 35, 58.

**quadrisetosa** Coquillett. *Helicobia*. Ent. News, xii, 17.

**scoparia** Pandellé. Sarcoph. N. A., 214.

**scoparia** var. **nearctica** Parker. Can. Ent., xlvi, 422.

**sinuata** Meigen. Sarcoph. N. A., 67.

**tuberosa** Pandelé var. **sarracenioides** Aldrich. *Ibid.*, 227.

**Sarcofahrtia** Parker.

**atlantica** Parker. Ent. News, xxxiii, 203.

**ravinia** Parker. Psyche, xxiii, 131.

## Family MUSCIDÆ.

**Pollenia** Desvoidy.

**rudis** Fabricius. Cluster fly. Insect Book, pl. xxii, 28.

**Chrysomyia** Desvoidy.

**macellaria** Fabricius. Screw worm fly. La. Agr. Expt. Sta.,  
Bull. 2, Sec. ser.

**Cynomyia** Desvoidy.

**cadaverina** Desvoidy. Insect Book, pl. xv, 21.

**Calliphora** Desvoidy.

**erythrocephala** Meigen. Common blow fly. Insect Book, pl. xv, 16.

**vomitaria** Linnæus. Blue bottle fly. Minn. Agr. Expt. Sta., Bull. 48, 188.

**Protocalliphora** Hough.

**azurea** Fallen. Zool. Bull., ii, 289. (C.W.J.)

**Lucilia** Desvoidy.

**cæsar** Linnæus. Insect Book, pl. xv, 20.

**sericata** Meigen. *Musca*. Syst. Besch., v, 53.

**sylvarum** Meigen. *Ibid.*, v, 53.

**Phormia** Desvoidy.

**regina** Meigen. *Musca*. Syst. Besch., v, 58.

**terræ-novæ** Desvoidy. Zool. Bull., ii, 289.

**Orthellia** Desvoidy.*Pseudopyrellia* Girschner.

**cornicina** Fabricius. Syst. Besch., v, 57.

**Pyrellia** Desvoidy.

**serena** Meigen. *cyanicolor* Zetterstedt. Dipt. Scand., iv, 1323.

**Morellia** Desvoidy.

**micans** Macquart. Insect Book., pl. xv, 11.

**Musca** Linnæus.

**domestica** Linnæus. House fly. Insect Book, pl. xv, 6.

**Graphomyia** Desvoidy.

**maculata** Scopoli. Syst. Besch., v, 78.

**Stomoxys** Geoffroy.

**calcitrans** Linnæus. Biting house fly. Proc. Bost. Soc. Nat. Hist., xvi, 136.

**Hæmatobia** St. Fargeau and Serville.

**irritans** Linnæus. *serrata*. *cornicola*. Horn fly. Rept. N. Y. State Ent., No. 5, 220.

**Myiospila** Rondani.

**meditabunda** Fabricius. Syst. Besch., v, 79.

**Muscina** Desvoidy.

**assimilis** Fallen. Syst. Besch., v, 76. (H.L.V.)

**stabulans** Fallen. Stable fly. Insect Book, pl. xxii, 33.

## Family ANTHOMYIDÆ.

**Hydrotæa** Desvoidy.

*armipes* Fallen. Fauna Aust., i, 616. (H.L.V.)

**Ophyra** Desvoidy.

*leucostoma* Wiedemann. Syst. Besch., v, 160.

**Fannia** Desvoidy.

*Homalomyia* Bouché.

*canalicularis* Linnæus, Fauna Aust., i, 654. (C.W.J.)

*scalaris* Fabricius. Syst. Besch., v, 141.

**Hyetodesia** Rondani.

*deleta* Stein. Berl. Ent. Zeitsch., xlii, 178. (C.W.J.)

*lucorum* Fallen. Syst. Besch., v, 85. (H.L.V.)

**Spilogaster** Macquart.

*uniseta* Stein. Berl. Ent. Zeitsch., vlïi, 192. (H.L.J.)

*urbana* Meigen. *Ibid.*, xlii, 196.

**Limnophora** Desvoidy.

*diaphana* Wiedemann. Syst. Besch., v, 189.

*narona* Walker. *Cyrtoucurina*. Berl. Ent. Zeitsch., xvii, 203.

**Anthomyia** Meigen.

*albicincta* Fallen. Syst. Besch., v, 161.

*pluvialis* Linnæus. *Ibid.*, v, 163. (H.L.J.)

*pratricula* Panzer. *Ibid.*, v, 163.

*radicum* Linnæus. Rept. N. Y. State Ent., No. 1, 191.

**Hylemyia** Desvoidy.

*alcathoe* Walker. List., iv, 937. (C.W.J.)

*johnsoni* Stein. Berl. Ent. Zeitsch., xvii, 215, 285. (C.W.J.)

**Phorbia** Desvoidy.

*brassicæ* Bouché. Cabbage maggot. Cornell Agr. Expt. Sta., Bull. 78; Rept. Conn. Agr. Expt. Sta., 1914, 142.

*ceparum* Meigen. Onion maggot. Rept. Conn. Agr. Expt. Sta., 1911, 286.

*cepetorum* Meade. Ent. Monthl. Mag., 1882, 218. (C.W.J.)

*cinerella* Fallen. Proc. Wash. Acad. Sci., ii, 583.

*fusciceps* Zetterstedt. *cilicrura*. Seed-corn maggot. Bur. Ent., Bull. 43, 68.

*latipennis* Zetterstedt. Dipt. Scand., iv, 1509. (C.W.J.)  
*rubivora* Coquillett. Raspberry cane maggot. Rept. Conn.  
 Agr. Expt. Sta., 1902, 167.

**Pegomyia** Desvoidy.

*calyptрата* Zetterstedt. Berl. Ent. Zeitschr., xlii, 237.  
*hyoscyami* Panzer. *vicina* Lintner. Beet or spinach leaf-  
 miner. Ins. Life, vii, 379.  
*vittiger* Zetterstedt. Ins. Lapp., 1838, 164, 697.  
*winthemi* Meigen. *latitarsis* Zetterstedt. Fauna Aust., i, 635.  
 (C.W.J.)

**Dialyta** Meigen.

*flavitibia* Johannsen. Trans. Am. Ent. Soc., lxii, 394.

**Caricea** Desvoidy.

*albicornis* Meigen. Fauna Aust., i, 664. (C.W.J.)

**Cœnosia** Meigen.

*ausoba* Walker. Berl. Ent. Zeitschr., xlii, 260.  
*calopyga* Loew. Cent., x, 71. (C.W.J.)  
*flavipes* Stein. Berl. Ent. Zeitschr., xlii, 268.  
*lata* Walker. Dipt. Saund., 368.  
*nivea* Loew. Cent., x, 70.  
*tibialis* Stein. Berl. Ent. Zeitschr., xlii, 275. (C.W.J.)

**Dexiopsis** Pokorny.

*lacteipennis* Zetterstedt. Dipt. Scand., iv, 1722.

**Schœnomyza** Halliday.

*chryscstoma* Loew. Cent., ix, 86.  
*dorsalis* Loew. Cent., x, 73.

**Lispa** Latreille.

*albitarsis* Stein. Berl. Ent. Zeitschr., xlii, 277. (C.W.J.)  
*uliginosa* Fallen. Fauna Aust., i, 661.

**Fucellia** Desvoidy.

*marina* Macquart. *fucorum*. Proc. Wash. Acad. Sci., ii, 453.

Family SCATOPHAGIDÆ.

**Cordylura** Fallen.

*adusta* Loew. Cent., iii, 41.  
*confusa* Loew. *Ibid.*, iii, 43. (C.W.J.)  
*gilvipes* Loew. *Ibid.*, iii, 49. (C.W.J.)  
*munda* Loew. *Ibid.*, iii, 91.

*pleuritica* Loew. *Ibid.*, iii, 42. (A.B.C.)

*setosa* Loew. *Ibid.*, iii, 44.

*slossonæ* Coquillett. Jour. N. Y. Ent. Soc., vi, 164. (H.L.J.)

*variabilis* Loew. Zeitsch. f. Ges Naturwiss, 1876, 326.

**Mosina** Desvoidy.

*variapæ* Walker. List. Dipt., 4, 1046. (H.L.J.)

**Scatophaga** Meigen.

*furcata* Say. Compl. Writ., ii, 85.

*merdaria* Fabricius. Dipt. Scand., v, 1970. (C.W.J.)

*stercoraria* Linnæus. Insect Book, pl. xv, 19.

Family HETERONEURIDÆ.

**Clusia** Halliday.

*lateralis* Walker. *specabilis*. Cent., iv, 92.

Family HELOMYZIDÆ.

**Helomyza** Fallen.

*quinquepunctata* Say. Compl. Writ., ii, 86. (C.W.J.)

**Scoliocentra** Loew.

*helvola* Loew. Cent., ii, 80.

**Æcothea** Haliday.

*fenestralis* Fallen. Syst. Besch., vi, 56.

**Tephrochlamys** Loew.

*rufiventris* Meigen. Syst. Besch., vi, 58.

Family BORBORIDÆ.

**Leptocera** Olivier.

*Limosina* Macquart.

*limosa* Meigen. Syst. Besch., vi, 207.

**Borborus** Meigen.

*equinus* Fallen. Proc. Wash. Acad. Sci., ii, 594.

**Sphærocera** Latreille.

*subsultans* Fabricius. Proc. Wash. Acad. Sci., ii, 596.

## Family DRYOMYZIDÆ.

**Neuroctena** Rondani.

**anilis** Fallen. *Dryomyza pallida* Day. Can. Ent., xiii, 89.  
(S.W.W.)

## Family SCIOMYZIDÆ.\*

**Sciomyza** Fallen.

**nana** Fallen. Mon. N. A. Dipt., i, 104.

**pubera** Loew. *Ibid.*, i, 106. (H.L.V.)

**Pœcilomyia** Melander.

**decora** Loew. *Sapromyza*. Cent., v, 96.

**Hedroneura** Hendel.

**rufa** Panzer. *lincata* Day. Can. Ent., xiii, 88.

**Tetanocera** Dumeril.

**arcuata** Loew. Mon. N. A. Dipt., i, 115. (C.W.J.)

**clara** Loew. Insect Book, pl. xxii, 36. (A.B.C.)

**combinata** Loew. Can. Ent., xiii, 85.

**pallida** Loew. Mon. N. A. Dipt., i, 113.

**plebeia** Loew. *Ibid.*, i, 120.

**plumosa** Loew. Insect Book, pl. xv, 14.

**saratogensis** Fitch. Ins. N. Y., 68.

**setosa** Coquillett. Proc. U. S. Nat. Mus., xxiii, 615. (C.W.J.)

**sparsa** Loew. Mon. N. A. Dipt., i, 117. (S.W.W.)

**umbrarum** Linnæus. Can. Ent., xiii, 85.

**valida** Loew. Mon. N. A. Dipt., i, 110. (A.B.C.)

**Sepedon** Latreille.

**armipes** Loew. Mon. N. A. Dipt., i, 126. (C.W.J.)

**fuscipennis** Loew. Insect Book, pl. xxii, 41.

**pusillus** Loew. Mon. N. A. Dipt., i, 127.

## Family SAPROMYZIDÆ.

**Lonchæa** Fallen.

**polita** Say. Compl. Writ., ii, 371. (A.B.C.)

**rufitarsus** Macquart. Dipt. Exot. (Suppl.), iv, 300.

**Lauxania** Latreille.

**cylindriformis** Fabricius. Proc. Wash. Acad. Sci., ii, 400.

**gracilipes** Loew. Cent., i, 84. (C.W.J.)

**obscura** Loew. *Ibid.*, i, 84.

\* See also appendix.

**Minettia** Desvoidy.

- annulata* Melander. Psyche, xx, 73. (C.W.J.)  
*lupulina* Fabricius. Proc. Wash. Acad. Sci., ii, 460.  
*quadrilineata* Loew. Cent., i, 78.  
*valida* Walker. *macula* Loew. *Ibid.*, x, 82. (C.W.J.)

**Sapromyza** Fallen.

- compedita* Loew. Cent., i, 76.  
*disjuncta* Johnson. Psyche, xxi, 22. (C.W.J.)  
*fraterna* Loew. Cent., i, 77. (C.W.J.)  
*houghii* Coquillett. Can. Ent., xxx, 277.  
*notata* Fallen. Psyche, xx, 68. (C.W.J.)  
*philadelphica* Macquart. Dipt. Exot. (Suppl.), ii, 3, 191.

**Camptoprosopella** Hendel.

- vulgaris* Fitch. Ins. N. Y., i, 300.

## Family ORTALIDÆ.

**Pyrgota** Wiedemann.

- chagnoni* Johnson. Can. Ent., xxxii, 246. (A.B.C.)  
*undata* Wiedemann. Insect Book, pl. xv, 4.  
*valida* Harris. *Ibid.*, pl. xv, 9.

**Amphicnephes** Loew.

- pulla* Wiedemann. *pertusus*. Mon. N. A. Dipt., iii, 84.

**Rivellia** Desvoidy.

- conjuncta* Loew. Mon. N. A. Dipt., iii, 88.  
*flavimanus* Loew. *Ibid.*, iii, 92.  
*pallida* Loew. *Ibid.*, iii, 95.  
*quadrifasciata* Macquart. *Ibid.*, iii, 90.  
*viridulans* Desvoidy. *Ibid.*, iii, 88.

**Myrmecothea** Hendel.*Myrmecomylia* Desvoidy.

- myrmecoides* Loew. Mon. N. A. Dipt., iii, 100. (A.B.C.)

**Tritoxa** Loew.

- flexa* Wiedemann. Mon. N. A. Dipt., iii, 102.  
*incurva* Loew. Insect Book, pl. xxii, 40.

**Camptoneura** Macquart.

- picta* Fabricius. Insect Book, pl. xv, 10.



**Idana** Loew.

*marginata* Say. Compl. Writ., ii, 368. (A.B.C.)

**Tephronota** Loew.

*narytia* Walker. *ruficeps humilis*. Mon. N. A. Dipt., iii, 123.  
(C.W.J.)

**Melieria** Desvoidy.

*similis* Loew. Mon. N. A. Dipt., iii, 127. (C.W.J.)

**Tetanops** Fallen.

*luridipennis* Loew. Mon. N. A. Dipt., iii, 119. (C.W.J.)

**Callopietria** Loew.

*annulipes* Macquart. Mon. N. A. Dipt., iii, 141. (C.W.J.)

**Pseudotephritis** Johnson.

*corticalis* Loew. Mon. N. A. Dipt., iii, 136. (C.W.J.)

**Chrysomyza** Fallen.

*demandata* Fabricius. Fauna Aust., ii, 85.

**Euxesta** Loew.

*notata* Wiedemann. Mon. N. A. Dipt., iii, 156.

**Chætopsis** Loew.

*ænea* Wiedemann. Compl. Writ., ii, 368.

*apicalis* Johnson. Ent. News, xi, 326.

*fulvifrons* Macquart. Dipt. Exot. (Suppl.), v, 125. (C.W.J.)

**Seoptera** Kirby.

*vibrans* Linnæus. Mon. N. A. Dipt., ii, 153.

**Stenomylia** Loew.

*tenuis* Loew. Mon. N. A. Dipt., iii, 173.

**Eumetopia** Macquart.

*rufipes* Macquart. Mon. N. A. Dipt., iii, 175.

## Family TRYPETIDÆ.

**Straussia** Desvoidy.

*longipennis* Wiedemann. Mon. N. A. Dipt., i, 65.

**Stenopa** Loew.

*vulnerata* Loew. Mon. N. A. Dipt., iii, 232. (Psyche.)

**Acidia** Desvoidy.

*fratria* Loew. Mon. N. A. Dipt., i, 67. (C.W.J.)

*suavis* Loew. *Ibid.*, iii, 235. (C.W.J.)

**Spilographa** Loew.

*electa* Say. Compl. Writ., ii, 396. (Ald. Cat.)

**Ædaspis** Loew.

*atra* Loew. Cent., ii, 74.

*polita* Loew. Mon. N. A. Dipt., i, 77. (Ald. Cat.)

**Rhagoletis** Loew.

*cingulata* Loew. *Trypeta*. Cherry maggot. Cornell Agr. Expt. Sta., Bull. 172.

*pomonella* Walsh. Apple maggot. Railroad worm. Rept. Me. Agr. Expt. Sta., 1889, 190; Rept. Conn. Agr. Expt. Sta., 1909-10, 593.

**Eutreta** Loew.

*sparsa* Wiedemann. Compl. Writ., ii, 370.

**Eurosta** Loew.

*comma* Wiedemann. Mon. N. A. Dipt., i, 93.

*conspurcata* Doane. Jour. N. Y. Ent. Soc., vii, 186.

*elsa* Dæcke. Ent. News, xxi, 342.

*latifrons* Loew. Mon. N. A. Dipt., i, 89.

*reticulata* Snow. Kans. Univ. Quart., ii, 170.

*solidaginis* Fitch. Mon. N. A. Dipt., i, 82.

**Aciura** Desvoidy.

*limata* Coquillett. Jour. N. Y. Ent. Soc., vii, 263. (C.W.J.)

**Ictericæ** Loew.

*seriata* Loew. Mon. N. A. Dipt., i, 84.

**Tephritis** Latreille.

*platyptera* Loew. Mon. N. A. Dipt., iii, 306.

**Neaspilota** Osten Sacken.

*albidipennis* Loew. Cent., i, 73. (C.W.J.)

**Euaresta** Loew.

*bella* Loew. Mon. N. A. Dipt., ii, 88.

*festiva* Loew. *Ibid.*, i, 86.

*pura* Loew. *Ibid.*, iii, 320. (H.L.J.)

## Family MICROPEZIDÆ.

**Tæniaptera** Macquart.

*antennipes* Say. Compl. Writ., ii, 83.

*divaricata* Cresson. Ent. News., xxv, 459. (C.W.J.)

**Calobata** Meigen.

*alesia* Walker. List. iv, 1048. (C.W.J.)

*univitta* Walker. *Ibid.*, iv, 1049. (C.W.J.)

## Family SEPSIDÆ.

**Sepsis** Fallen.

*neocynipsea* Melander. Wash. Agr. Expt. Sta., Bull. 143, 28.

*signifera* Melander. *curcubitibia* Melander. *Ibid.*, Bull. 143, 28.

*violacea* Meigen. *Ibid.*, Bull. 143, 20.

**Nemopoda** Desvoidy.

*cylindrica* Fabricius. Syst. Besch., v, 290.

**Meroplus** Rondani.

*stercoraria* Desvoidy. *Nemopoda minuta*. Myodaires, 745.

**Themira** Desvoidy.

*flavicoxa* Melander. Wash. Agr. Expt. Sta., Bull. 143, 46.

**Piophila** Fallen.

*casei* Linnæus. Cheese skipper. Rept. N. Y. State Ent., xii, 229.

## Family PSILIDÆ.

**Loxocera** Meigen.

*cylindrica* Say. Compl. Writ., ii, 84. (H.L.V.)

*pectoralis* Loew. Cent., viii, 64. (A.B.C.)

*pleuritica* Loew. *Ibid.*, viii, 65. (C.W.J.)

*pleuritica* var. *obsoleta* Johnson. Psyche, xxvii, 16.

**Chyliza** Fallen.

*apicalis* Loew. Cent., viii, 72. (C.W.J.)

*notata* Loew. *annulipes* Macquart. *Ibid.*, ix, 99. (A.B.C.)

**Psila** Meigen.

*bivittata* Loew. Cent., viii, 67. (Ald. Cat.)

*collaris* Loew. *Ibid.*, viii, 68. (Ald. Cat.)

## Family DIOPSIDÆ.

**Sphyracephala** Say.

*brevicornis* Say. Compl. Writ., i, 116. (C.W.J.)

## Family EPHYDRIDÆ.

**Dichæta** Meigen.

caudata Fallen. Mon. N. A. Dipt., i, 133.

**Notiphila** Fallen.

bella Loew. Mon. N. A. Dipt., i, 135. (C.W.J.)

bispinosa Cresson. Trans. Am. Ent. Soc., xliii, 58.

scalaris Loew. Mon. N. A. Dipt., i, 134.

olivacea Cresson. Trans. Am. Ent. Soc., xliii, 52.

**Gastrops** Williston.

nebulosa Coquillett. Can. Ent. xxxii, 34.

**Typopsilopa** Cresson.

atra Loew. Mon. N. A. Dipt., i, 142.

**Hydrellia** Desvoidy.

formosa Loew. Cent., i, 94.

**Psilopa** Fallen.

atrimanus Loew. Zeitsch. f. Ges. Naturwiss., 1878, 197.

flavida Coquillett. Can. Ent., xxxii, 33. (C.W.J.)

**Ilythea** Haliday.

spilota Curtis. Brit. Ent., 413. (C.W.J.)

**Ochthera** Latreille.

mantis DeGeer. Ent. News., vii, 123. (W.M.W.)

**Parydra** Stenhammar.

bituberculata Loew. Mon. N. A. Dipt., i, 165.

breviceps Loew. *Ibid.*, i, 167.

imitans Loew. Zeitsch. f. Ges., Naturwiss., 1878, 201.

**Mosillus** Latreille.

tibialis Cresson. Ent. News, xxvii, 149.

**Ephydra** Fallen.

atrovirens Loew. Mon. N. A. Dipt., i, 169.

subopaca Loew. Cent., v, 99.

**Cirrula** Cresson.

gigantea Cresson. Ent. News, xxvi, 71. (C.W.J.)

**Scatella** Desvoidy.

lugens Loew. Mon. N. A. Dipt., i, 171.

stagnalis Fallen. Proc. Wash. Acad. Sci., ii, 462.

**Dimecænia** Cresson.

spinosa Loew. Cent. v, 100.

## Family CHLOROPIDÆ.

**Meromyza** Meigen.

- americana* Fitch. Greater wheat stem maggot. Bur. Ent., Bull.  
42, New ser., 43.  
*flavipalpis* Malloch. Can. Ent., xlvii, 117. (C.W.J.)

**Chlorops** Meigen.

- abdominalis* Coquillett. Proc. Acad. Nat. Sci. Phila., 1895,  
318. (C.W.J.)  
*crocota* Loew. Cent., iii, 89. (C.W.J.)  
*melanocera* Loew. *Ibid.*, iii, 91.  
*rufescens* Coquillett. Can. Ent., xlii, 45. (C.W.J.)

**Chloropisca** Loew.

- glabra* Meigen. *assimilis* Macquart. Jour. N. Y. Ent. Soc.,  
vi, 47.  
*grata* Loew. Cent., iii, 92. (C.W.J.)  
*variceps* Loew. *Ibid.*, iii, 86. (H.L.V.)

**Parectecephala** Becker.

- eucera* Loew. Cent., iii, 85.

**Cetema** Hendel.

- procera* Loew. Cent., x, 92. (C.W.J.)

**Anthracophaga** Loew.

- sanguinolenta* Loew. Cent., iii, 84.

**Diplotaxa** Loew.

- versicolor* Loew. Cent., iii, 97.

**Hippelates** Loew.

- flavipes* Loew. Cent., vii, 95.  
*nobilis* Loew. *Ibid.*, iii, 97.  
*pusio* Loew. *Ibid.*, x, 87.

**Crassiseta** Von Roser.*Elachiptera* Macquart.

- costata* Loew. Cent., iii, 62.

**Melanochæta** Bezzi.

- eunota* Loew. *Ibid.*, x, 89. (C.W.J.)  
*longula* Loew. *Ibid.*, iii, 84.

**Siphonella** Macquart.

- cinerea* Loew. Cent., iii, 81. (C.W.J.)  
*lævigata* Fallen. Fauna Aust., ii, 229. (C.W.J.)

**Botanobia** Livy.*Oscinis* Latreille.**coxendix** Fitch. Ins. N. Y., 301.**soror** Macquart. American frit-fly. Bur. Ent., Bull. 42, New ser., 57.

## Family DROSOPHILIDÆ.

**Phortica** Schiner.**vittata** Coquillett. Proc. U. S. Nat. Mus., xxiii, 618. (C.W.J.)**Drosophila** Fallen.**adusta** Loew. *Scaptomyza*. Native cabbage leaf-miner. Bur. Ent., New ser., Bull. 33, 76.**amœna** Loew. Pretty pomace fly. Rept. U. S. Dept. Agr., 1881-2, 201.**ampelophila** Loew. *melanogaster* Meigen. Vine-loving pomace fly. *Ibid.*, 1881-2, 198.**busckii** Coquillett. Ent. News, xii, 18. (C.W.J.)**flaveola** Meigen. *Scaptomyza*. Imported turnip leaf-miner. Bur. Ent., New ser., Bull. 33, 75.**funebri** Fabricius. Proc. U. S. Nat. Mus., xxii, 264.**graminum** Fallen. *Scaptomyza*. Imported cabbage leaf-miner. Bur. Ent., New ser., Bull. 33, 76.**ordanaria** Coquillett. Proc. Ent. Soc. Wash., vi, 190. (C.W.J.)**quinaria** Loew. Cent., vi, 90.

## Family GEOMYZIDÆ.

**Diastata** Meigen.**nebulosa** Fallen. Syst. Besch., vi, 98.

## Family AGROMYZIDÆ.

**Phytomyza** Fallen.**aquilegiæ** Hardy. Columbine leaf-miner. Rept. Conn. Agr. Expt. Sta., 1894, 145.**diminuta** Walker. Trans. Ent. Soc. Lond., New ser., iv, 232.

**Napomyza** Haliday.

**chrysanthemi** Kowarz. *Phytomyza*. Chrysanthemum leaf-miner.  
Bur. Ent., Bull. 10, New ser., 79.

**Cerodontha** Rondani.

**dorsalis** Loew. *Odontocera*. *Ceratomyza*. Corn leaf-miner.  
Rept. Conn. Agr. Expt. Sta., 1894, 143.

**Agromyza** Fallen.

**æneiventris** Fallen. Bur. Ent., Bull. 10, New ser., 78.  
**angulata** Loew. Ann. Ent. Soc., Am., vi, 304.  
**longispinosa** Malloch. *Ibid.*, vi, 276. (C.W.J.)  
**melampyga** Loew. *Ibid.*, vi, 282. (C.W.J.)  
**parvicornis** Loew. *Ibid.*, vi, 312.  
**platyptera** Thomson. *coronata* Loew. *Ibid.*, vi, 293.  
**posticata** Meigen. *terminalis* Coquillett. *Ibid.*, vi, 308.  
**pusilla** Meigen. *dimidiata* Walker. *trifolii* Burgess. *Ibid.*, vi,  
278.  
**simplex** Loew. N. Y. Agr. Expt. Sta., Bull. 189; Ann. Ent.  
Soc. Am., vi, 315.

**Mallochiella** Melander.

**halteralis** Coquillett. *Desmometopa*. Proc. U. S. Nat. Mus.,  
xxii, 267.

**Desmometopa** Loew.

**latipes** Meigen. Jour. N. Y. Ent. Soc., xxi, 241.  
**m-nigrum** Zetterstedt. *Ibid.*, xxi, 241.

**Rhynchomilichia** Hendel.

**indecora** Loew. *Milichia*. Proc. U. S. Nat. Mus., xxii, 263.

**Odinia** Desvoidy.

**maculata** Meigen. Jour. N. Y. Ent. Soc., xxi, 248. (A.B.C.)  
**picta** Loew. Cent., i, 99; Jour. N. Y. Ent. Soc., xxi, 248.  
(C.W.J.)

**Leucopis** Meigen.

**nigricornis** Egger. Jour. N. Y. Ent. Soc., xxi, 232. (C.W.J.)

**Ochthiphila** Fallen.

**elegans** Panzer. Jour. N. Y. Ent. Soc., xxi, 233. (C.W.J.)  
**polystigma** Meigen. *Ibid.*, xxi, 233.

## Family HIPPOBOSCIDÆ.

**Olfersia** Wiedemann.

*americana* Leach. *Hippobosca bubonis*. Pack. Guide, 417.

**Melophagus** Latreille.

*ovinus* Linnæus. Sheep tick. Bur. Ent., Bull. 5, New ser., 138.



## Order COLEOPTERA.

## Beetles.

## Family CICINDELIDÆ.

**Cicindela** Linnæus.

- duodecimguttata* Dejean. Coleop. Ind., 34. (E.D.H.)  
*formosa* Say var. *generosa* Dejean. *Ibid.*, 33.  
*hirticollis* Say. *Ibid.*, 35. (G.D.)  
*punctulata* Fabricius. *Ibid.*, 35.  
*puritana* Horn. Trans. Am. Ent. Soc., xxvii, 164.  
*purpurea* Olivier. Coleop. Ind., 33.  
*purpurea* var. *limbalis* Klug. *Ibid.*, 33.  
*repanda* Dejean. *Ibid.*, 34.  
*sexguttata* Fabricius. *Ibid.*, 32.  
*sexguttata* var. *harrisii* Leng. Trans. Am. Ent. Soc., xxviii,  
 128. (E.D.H.)  
*tranquebarica* Herbst. *vulgaris*. Coleop. Ind., 33.

## Family CARABIDÆ.

**Cychrus** Fabricius.

- elevatus* Fabricius. Coleop. Ind., 43.  
*lecontei* Dejean. *Ibid.*, 43.  
*viduus* Dejean. *Ibid.*, 42.

**Carabus** Linnæus.

- limbatus* Say. Coleop. Ind., 45.  
*nemoralis* Mulsant. Jour. N. Y. Ent. Soc., ii, 139.  
*serratus* Say. Coleop. Ind., 45.  
*sylvosus* Say. *Ibid.*, 45.  
*vinctus* Weber. *Ibid.*, 45.

**Calosoma** Weber.

- calidum* Fabricius. Coleop. Ind., 47.  
*externum* Say. *Ibid.*, 46.

**frigidum** Fabricius. *Ibid.*, 47.

**scrutator** Fabricius. Caterpillar hunter. *Ibid.*, 47.

**sycophanta** Linnæus. Bur. Ent., Bull. 101.

**willcoxi** LeConte. Coleop. Ind., 47.

**Elaphrus** Fabricius.

**cicatricosus** LeConte. Coleop. Ind., 49. (C.S.)

**fuliginosus** Say. *Ibid.*, 49. (A.B.C.)

**ruscarius** Say. *Ibid.*, 49. (A.B.C.)

**Notiophilus** Dumeril.

**æneus** Herbst. Coleop. Ind., 51.

**novemstriatus** LeConte. *Ibid.*, 52.

**semistriatus** Say. *Ibid.*, 51.

**Nebria** Latreille.

**pallipes** Say. Coleop. Ind., 53.

**Scarites** Fabricius.

**subterraneus** Fabricius. Coleop. Ind., 56.

**Dyschirius** Bonelli.

**globulosus** Say. Coleop. Ind., 57. (A.B.C.) (C.C.)

**hæmorrhoidalis** Dejean. *Ibid.*, 58. (C.C.)

**hispidus** LeConte. *Ibid.*, 58. (A.B.C.)

**sphæricollis** Say. *Ibid.*, 58.

**Clivina** Latreille.

**americana** Dejean. Coleop. Ind., 61.

**bipustulata** Fabricius. *Ibid.*, 61.

**impressifrons** LeConte. *Ibid.*, 60.

**rubicunda** LeConte. *Ibid.*, 60.

**Schizogenius** Putzeys.

**ferrugineus** Putzeys. Coleop. Ind., 62. (C.C.)

**lineolatus** Say. *Ibid.*, 62. (C.C.)

**Panageus** Latreille.

**fasciatus** Say. Coleop. Ind., 66. (G.D.) (C.C.)

**Bembidion** Latreille.

**americanum** Dejean. Coleop. Ind., 72. (C.C.)

**assimile** Gyllenhal. *Ibid.*, 78. (A.B.C.)

**contractum** Say. Trans. Am. Ent. Soc., xxiv, 109.

**coxendix** Say. Coleop. Ind., 70. (C.C.)

**fugax** LeConte. *Ibid.*, 73.

- guexi* Chaudoir. Trans. Am. Ent. Soc., xxiv, 71. (R.Hd.)  
*graciliforme* Hayward. Coleop. Ind., 76.  
*honestum* Say. *Ibid.*, 72.  
*inæquale* Say. *Ibid.*, 69. (C.C.)  
*nigrum* Say. *Ibid.*, 73.  
*oberthuri* Hayward. *Ibid.*, 74.  
*picipes* Kirby. *Ibid.*, 73. (K.F.C.)  
*punctatostriatum* Say. *Ibid.*, 70. (C.C.)  
*quadrifasciatum* Linnaeus. *Ibid.*, 78.  
*scopulinum* Kirby. Trans. Am. Ent. Soc., xxiv, 82. (R.Hd.)  
*semistriatum* Haldeman. Coleop. Ind., 79.  
*ustulatum* Linnaeus. *rupestre*. Trans. Am. Ent. Soc., xxiv, 80.  
 (C.C.) (K.F.C.)  
*variegatum* Say. Coleop. Ind., 77.  
*versicolor* LeConte. *Ibid.*, 76. (C.C.)  
 sp.

**Tachys** Schaum.

- corruscus* LeConte. Coleop. Ind., 86. (A.B.C.)  
*flavicauda* Say. *Ibid.*, 82.  
*incurvus* Say. *Ibid.*, 82.  
*lævus* Say. *Ibid.*, 85. (C.C.)  
*nanus* Gyllenhal. *Ibid.*, 82.  
*proximus* Say. Compl. Writ., 502. (K.F.C.)  
*scitulus* LeConte. Coleop. Ind., 85. (C.C.)  
*xanthopus* Dejean. *Ibid.*, 83.

**Patrobus** Dejean.

- longicornis* Say. Coleop. Ind., 87.  
*rugicollis* Randall. Jour. N. Y. Ent. Soc., iii, 75.

**Trechus** Clairville.

- chalybeus* Dejean. Coleop. Ind., 87. (A.B.C.)

**Myas** Dejean.

- coracinus* Say. Coleop. Ind., 89. (G.D.)  
*cyanescens* Dejean. *Ibid.*, 89.

**Pterostichus** Bonelli.

- adoxus* Say. Coleop. Ind., 91.  
*apalachius* Horn. *Ibid.*, 91.  
*caudicalis* Say. *Ibid.*, 96.  
*convexicollis* Say. Compl. Writ., ii, 475. (C.C.)

- coracinus Newman. Coleop. Ind., 93.  
 corusculus LeConte. Proc. Acad. Nat. Sci. Phila., 1873, 314.  
 corvinus Dejean. Coleop. Ind., 97.  
 erythropus Dejean. *Ibid.*, 99.  
 honestus Say. *Ibid.*, 91.  
 lachrymosus Newman. *Ibid.*, 93.  
 luctuosus Dejean. *Ibid.*, 96.  
 lucublandus Say. *Ibid.*, 95.  
 lustrans LeConte. Am. Lyc. Nat. Hist., N. Y. v, 181. (G.D.)  
 mancus LeConte. Jour. Acad. Nat. Sci., Phila., ii, 234. (C.C.)  
 mutus Say. Coleop. Ind., 98.  
 patruelis Dejean. *Ibid.*, 99.  
 pennsylvanicus LeConte. *Ibid.*, 98. (K.F.C.)  
 rostratus Newman. *Ibid.*, 91. (K.F.C.)  
 sayi Brullé. *Ibid.*, 95.  
 scrutator LeConte. *Ibid.*, 97.  
 stygicus Say. *Ibid.*, 93.  
 vitreus Dejean. Jour. N. Y. Ent. Soc., iii, 188.

#### Amara Bonelli.

- angustata Say. Coleop. Ind., 105.  
 apricaria Paykull. Trans. Am. Ent. Soc., xxxiv, 41.  
 avida Say. Coleop. Ind., 103.  
 basillaris Say. *Ibid.*, 106. (C.C.)  
 chalcea Dejean. *Ibid.*, 109.  
 crassispina LeConte. *Ibid.*, 107.  
 cupreolata Putzeys. *Ibid.*, 106.  
 devincta Casey. Mem. Coleop., viii, 307. (T.L.C.)  
 exarata Dejean. Coleop. Ind., 104.  
 fallax LeConte. *Ibid.*, 106. (C.C.)  
 latior Kirby. *Ibid.*, 106.  
 impuncticollis Say. *Ibid.*, 106.  
 musculus Say. *Ibid.*, 109.  
 obesa Say. *Ibid.*, 108.  
 pennsylvanica Hayward. *Ibid.*, 103.  
 rubrica Haldeman. *Ibid.*, 109.

#### Diplochila Brullé.

- laticollis LeConte. Coleop. Ind., 113.

**Dicælus** Bonelli.

- elongatus* Bonelli. Coleop. Ind., 116.  
*dilatatus* Say. *Ibid.*, 116. (K.F.C).  
*politus* Dejean. *Ibid.*, 116.  
*purpuratus* Bonelli. *Ibid.*, 115.  
*teter* Bonelli. *Ibid.*, 110.

**Badister** Clairville.

- micans* LeConte. Coleop. Ind., 119.  
*pulchellus* LeConte. *Ibid.*, 118.

**Calathus** Bonelli.

- gregarius* Say. Coleop. Ind., 120.  
*impunctatus* Say. *Ibid.*, 121.  
*opaculus* LeConte. *Ibid.*, 120.

**Platynus** Bonelli.

- æruuginosus* Dejean. Coleop. Ind., 133.  
*affinis* Kirby. *Ibid.*, 130.  
*anchomenoides* Randall. Bost. Jour. Nat. Hist., ii, 2. (C.C.)  
*atratus* LeConte. Coleop. Ind., 130. (C.C.)  
*bogemanni* Gyllenhal. *Ibid.*, 133.  
*boopis* Casey. Mem. Coleop., ix, 137.  
*carbo* LeConte. Coleop. Ind., 128.  
*cincticollis* Say. *Ibid.*, 125.  
*crenistriatus* LeConte. *Ibid.*, 134.  
*cupripennis* Say. *Ibid.*, 130.  
*decens* Say. *Ibid.*, 124. (C.C.)  
*deccrus* Say. *Ibid.*, 126.  
*excavatus* Dejean. *Ibid.*, 131. (A.B.C.)  
*extensicollis* Say. *Ibid.*, 126.  
*ferreus* Haldeman. *Ibid.*, 131.  
*frater* LeConte. Proc. Acad. Nat. Sci. Phila., vii, 35-59. (C.C.)  
*lutulentus* LeConte. *Ibid.*, 135.  
*melanarius* Dejean. *Ibid.*, 130.  
*nutans* Say. *Ibid.*, 131.  
*octopunctatus* Fabricius. *Ibid.*, 132.  
*picipennis* Kirby. *Ibid.*, 135.  
*placidus* Say. *Ibid.*, 132.  
*punctiformis* Say. Compl. Writ., ii, 481.  
*reflexus* LeConte. Coleop. Ind., 125.  
*rubripes* Zimmerman. *Ibid.*, 134. (A.B.C.)

*ruficornis* LeConte. *Ibid.*, 135.

*sinuatus* Dejean. *Ibid.*, 124.

*tenuis* LeConte. *Ibid.*, 129.

**Olisthopus** Dejean.

*micans* LeConte. Ann. Lyc. Nat. Hist. N. Y., iv, 230. (A.B.C.)  
(H.B.K.)

*parmatus* Say. Coleop. Ind., 136.

**Casonia** Latreille.

*pennsylvanica* Linnæus. Coleop. Ind., 139.

**Galerita** Fabricius.

*bicolor* Drury. Coleop. Ind. 140.

*janus* Fabricius. *Ibid.*, 140.

**Tetragonoderus** Dejean.

*fasciatus* Haldeman. Coleop. Ind., 142. (C.C.)

**Lebia** Latreille.

*analis* DeGeer. Coleop. Ind., 147.

*atriventris* Say. *Ibid.*, 144.

*furcata* LeConte. *Ibid.*, 148. (G.D.)

*fuscata* Dejean. *Ibid.*, 147.

*grandis* Hentz. *Ibid.*, 144.

*ornata* Say. *Ibid.*, 146.

*pectita* Horn. Trans. Am. Ent. Soc., xii, 133.

*pulchella* Dejean. Coleop. Ind., 145.

*pumila* Dejean. *Ibid.*, 146.

*scapularis* Dejean. *Ibid.*, 148.

*viridipennis* Dejean. *Ibid.*, 146.

*viridis* Say. *Ibid.*, 146.

*vittata* Fabricius. *Ibid.*, 148.

**Dromius** Bonelli.

*piceus* Dejean. Coleop. Ind., 149.

**Apristus** Chaudoir.

*subsulcatus* Dejean. Coleop. Ind., 150.

**Metabletus** Schmidt.

*americanus* Dejean. Coleop. Ind., 151.

**Axinopalpus** LeConte.

*biplagiatus* Dejean. Coleop. Ind., 151 (A.B.C.)

**Pinacodera** Schaum.

*limbata* Dejean. Coleop. Ind. 152.

*platicollis* Say. *Ibid.*, 153.

**Cymindis** Latreille.

- americana* Dejean. Coleop. Ind., 153.  
*neglecta* Haldeman. Trans. Am. Ent. Soc., x, 155.  
*pilosa* Say. Coleop. Ind., 153.

**Apenes** LeConte.

- lucidula* Dejean. Coleop. Ind., 154.  
*sinuata* Say. *Ibid.*, 154.

**Helluomorpha** Laporte.

- bicolor* Harris. Coleop. Ind., 155.

**Brachynus** Weber.

- alternans* Dejean. Coleop. Ind., 159. (C.C.)  
*ballistarius* LeConte. *Ibid.*, 160.  
*conformis* Dejean. Ann. Lyc. Nat. Hist. N. Y., iv, 207.  
*cordicollis* Dejean. Coleop. Ind., 160.  
*cyanipennis* Say. *Ibid.*, 161. (C.C.)  
*fumans* Fabricius. *Ibid.*, 161.  
*perplexus* Dejean. *Ibid.*, 161.  
*tormentarius* LeConte. *Ibid.*, 159.

**Chlænium** Bonelli.

- æstivus* Say., Coleop. Ind., 165.  
*impunctifrons* Say. *Ibid.*, 168.  
*laticollis* Say. *Ibid.*, 166.  
*leucoscelis* Chevrolat. *Ibid.*, 165. (C.C.)  
*nemoralis* Say. *Ibid.*, 169.  
*pennsylvanicus* Say. *Ibid.*, 168.  
*prasinus* Dejean. *Ibid.*, 165.  
*purpuricollis* Randall. *Ibid.*, 168. (C.C.)  
*sericeus* Fœrster. *Ibid.*, 166.  
*solitarius* Say. *Ibid.*, 165.  
*tomentosus* Say. *Ibid.*, 167.  
*tricolor* Dejean. *Ibid.*, 169.

**Anomoglossus** Chaudoir.

- emarginatus* Say. Coleop. Ind., 169.  
*pusillus* Say. *Ibid.*, 170.

**Brachylobus** Chaudoir.

- lithophilus* Say. Coleop. Ind., 170. (C.C.)

**Lachnocrepis** LeConte.

- parallelus* Say. Coleop. Ind., 171. (H.L.J.)

**Oödes Bonelli.**

*americanus* Dejean. Coleop. Ind., 172. (A.B.C.)

**Geopinus LeConte.**

*incrassatus* Dejean. Coleop. Ind., 174.

**Agonoderus Dejean.**

*lineola* Fabricius. Coleop. Ind., 177.

*pallipes* Fabricius. *Ibid.*, 177.

*partiarius* Say. *Ibid.*, 177. (A.B.C.)

*pauperculus* Dejean. *Ibid.*, 177. (C.C.)

*testaceus* Dejean. *Ibid.*, 177.

**Gynandropus Dejean.**

*hylacis* Say. Coleop. Ind. 179.

**Harpalus Latreille.**

*autumnalis* Say. Coleop. Ind., 185.

*caliginosus* Fabricius. *Ibid.*, 181.

*compar* LeConte. *Ibid.*, 182.

*convivus* LeConte. *Ibid.*, 181. (C.C.)

*dichrous* Dejean. *Ibid.*, 184.

*erraticus* Say. *Ibid.*, 181.

*erythropus* Dejean. *Ibid.*, 183.

*faunus* Say. *Ibid.*, 181.

*herbivagus* Say. *Ibid.*, 185.

*laticeps* LeConte. *Ibid.*, 184.

*lewisii* LeConte. Proc. Acad. Nat. Sci., Phila., 1865, 103.

*longior* Kirby. *longicollis*. Coleop. Ind., 183.

*megacephalus* LeConte. Ann. Lyc. Nat. Hist. N. Y., iv, 397.

*nitidulus* Chaudoir. Coleop. Ind., 185. (C.C.)

*pennsylvanicus* Dejean. *Ibid.*, 182.

*pleuriticus* Kirby. *Ibid.*, 184.

*spadiceus* Dejean. Can. Ent., ii, 61.

*vagans* LeConte. Coleop. Ind., 182.

*viduus* LeConte. *Ibid.*, 186. (C.C.)

*viridiæneus* Beauvois. *Ibid.*, 181.

*vulpeculus* Say. *Ibid.*, 184.

**Selenophorus Dejean.**

*gagatinus* Dejean. Coleop. Ind., 187.

*opalinus* LeConte. *Ibid.*, 187.

*pedicularis* Dejean. *Ibid.*, 187.



**Stenolophus** Dejean.

- conjunctus* Say. Coleop. Ind., 189.  
*fuliginosus* Dejean. *Ibid.*, 188.  
*humilis* Hamilton. Can. Ent., xxv, 306. (C.C.)  
*ochropezus* Say. Coleop. Ind., 188.  
*plebius* Dejean. *Ibid.*, 188.

**Acupalpus** Latreille.

- carus* LeConte. Coleop. Ind., 190. (A.B.C.)  
*hydropicus* LeConte. *Ibid.*, 190. (A.B.C.)

**Bradycellus** Erichson.

- rupestris* Say. Coleop. Ind., 192.

**Tachycellus** Morawitz.

- badiipennis* Haldeman. Coleop. Ind., 193. (A.B.C.)  
*kirbyi* Horn. *Ibid.*, 193. (A.B.C.)  
*nigrinus* Dejean. *Ibid.*, 192. (A.B.C.)

**Anisodactylis** Dejean.

- baltimorensis* Say. Coleop. Ind., 197.  
*carbonarius* Say. *Ibid.*, 195.  
*discoideus* Dejean. *Ibid.*, 197.  
*harrisii* LeConte. *Ibid.*, 196.  
*interpunctatus* Kirby. *Ibid.*, 196.  
*interstitialis* Say. *Ibid.*, 200.  
*lugubris* Dejean. *Ibid.*, 199.  
*melanopus* Haldeman. *Ibid.*, 197.  
*nigerrimus* Dejean. *Ibid.*, 196.  
*nigrita* Dejean. *Ibid.*, 197. (C.C.)  
*nitidipennis* LeConte. *Ibid.*, 199.  
*rusticus* Say. *Ibid.*, 194.  
*sericeus* Harris. *Ibid.*, 200.  
*terminatus* Say. *Ibid.*, 199.  
*verticalis* LeConte. *Ibid.*, 198.

## Family OMOPHRONIDÆ.

**Omophron** Latreille.

- americanum* Dejean. Coleop. Ind., 40.  
*labiatum* Fabricius. *Ibid.*, 40. (K.F.C.)  
*tessellatum* Say. *Ibid.*, 41.

## Family HALIPLIDÆ.

**Haliphus** Latreille.

- connexus** Matheson. Jour. N. Y. Ent. Soc., xx, 164. (K.F.C.)  
**cribrarius** LeConte. *Ibid.*, xx, 170. (K.F.C.)  
**fasciatus** Aubé. Coleop. Ind., 202. (C.C.)  
**leopardus** Roberts. Jour. N. Y. Ent. Soc., xxi, 98. (K.F.C.)  
**ruficollis** DeGeer. Coleop. Ind., 203. (C.C.)  
**triopsis** Say. *punctatus*. *Ibid.*, 202.

**Peltodytes** Regimbart.*Cnemidotus* Illiger.

- duodecimpunctatus** Say. *12-punctatus*. Coleop. Ind., 204.  
**edentulus** LeConte. *Ibid.*, 204. (K.F.C.)  
**muticus** LeConte. *Ibid.*, 204. (K.F.C.)  
**shermani** Roberts. Jour. N. Y. Ent. Soc., xxi, 116. (K.F.C.)

## Family DYTISCIDÆ.

**Hydrocanthus** Say.

- iricolor** Say. Coleop. Ind., 208. (C.C.)

**Laccophilus** Leach.

- maculosus** Germar. Coleop. Ind., 209.  
**undatus** Aubé. *Ibid.*, 210. (F.K.)

**Desmopachria** Babington.

- convexa** Aubé. Coleop. Ind., 212.

**Bidessus** Sharp.

- affinis** Say. Coleop. Ind., 213.  
**granarius** Aubé. *Hydroporus*. Trans. Am. Ent. Soc., iv, 390.

**Celina** Aubé.

- angustata** Aubé. Coleop. Ind., 214.

**Cœlambus** Thomson.

- dispar** LeConte. *dissimilis*. Coleop. Ind., 215. (G.D.)  
**inæqualis** Fabricius. *punctatus* Say. *Ibid.*, 215.

**Deronectes** Sharp.\*

- catascopium** Say. Coleop. Ind., 216. (G.D.)

**Hydroporus** Clairville.\*

- americanus** Aubé. Coleop. Ind., 220. (C.C.)  
**dimidiatus** LeConte. *semirufus*. *Ibid.*, 219.

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\* See also appendix.

- niger** Say. *modestus*. *Ibid.*, 220.  
**pulcher** LeConte. *Ibid.*, 218.  
**signatus** Mannerheim. Bull. Moscow, 1853, 161.  
**solitarius** Sharp. On Dytiscidæ, 443.  
**stagnalis** Gemminger and Harold. Coleop. Ind., 218.  
**tenebrosus** LeConte. *Ibid.*, 217.  
**undulatus** Say. *Ibid.*, 219. (C.C.)  
**vitiosus** Sharp. *blanchardi*. On Dytiscidæ, 443.

**Ilybius** Erichson.

- biguttulus** Germar. Coleop. Ind., 222.  
**confusus** Aubé. *Ibid.*, 222. (A.B.C.)  
**subæneus** Erichson. *Ibid.*, 222. (K.F.C.)

**Coptotomus** Say.

- interrogatus** Fabricius. Coleop. Ind., 223.

**Copelatus** Erichson.

- glyphicus** Say. Coleop. Ind., 223.

**Matus** Aubé.

- bicarinatus** Say. Coleop. Ind., 223.

**Agabetes** Crotch.

- acuductus** Harris. Coleop. Ind., 224. (C.C.)

**Agabus** Leach.

- æruginosus** Aubé. Species Gén., vi, 298. (C.C.)  
**disintegratus** Crotch. Coleop. Ind., 227.  
**erythropterus** Say. *Ibid.*, 226. (A.B.C.)  
**gagates** Aubé. *Ibid.*, 226.  
**obtusatus** Say. *Ibid.*, 226. (A.B.C.)  
**punctatus** Melsheimer. *Ibid.*, 226.  
**reticulatus** Aubé. *Ibid.*, 225. (K.F.C.)  
**semipunctatus** Kirby. *Ibid.*, 227.  
**seriatus** Say. *parallelus*. *Ibid.*, 226.  
**stagninus** Say. *Ibid.*, 226.

**Rhantus** Eschscholtz.

- binotatus** Harris. Coleop. Ind., 228.  
**bistriatus** Bergstrasser. *Ibid.*, 228. (C.C.)

**Colymbetes** Clairville.

sculptilis Harris. Coleop. Ind., 229.

**Dytiscus** Linnæus.

fasciventris Say. Coleop. Ind., 231.

harrisii Kirby. *Ibid.*, 231.

hybridus Aubé. *Ibid.*, 231. (C.C.)

verticalis Say. *Ibid.*, 231.

**Hydaticus** Leach.

piceus LeConte. Coleop. Ind., 232.

stagnalis Fabricius. *Ibid.*, 232.

**Acilius** Leach.

fraternus Harris. Coleop. Ind., 234.

mediatus Say. *Ibid.*, 233.

semisulcatus Aubé. *Ibid.*, 233.

**Thermonectes** Eschscholtz.

ornaticollis Aubé. Coleop. Ind., 234. (C.C.)

**Graphoderes** Eschscholtz.

fasciatocollis Harris. *cinereus*. Coleop. Ind., 235.

liberus Say. *Ibid.*, 235. (C.C.)

## Family GYRINIDÆ.

**Gyrinus** Linnæus.

borealis Aubé. Coleop. Ind., 240.

limbatus Say. *Ibid.*, 239.

lugens LeConte. *Ibid.*, 240.

ventralis Kirby. *Ibid.*, 239.

sp.

**Dineutes** MacLeay.

assimilis Aubé. Coleop. Ind., 242.

discolor Aubé. *Ibid.*, 241.

emarginatus Say. *Ibid.*, 241. (H.L.J.)

hornii Roberts. *Ibid.*, 242.

nigrior Roberts. Trans. Am. Ent. Soc., xxii, 284.

vittatus Germar. Coleop. Ind., 241.

## Family HYDROPHILIDÆ.

**Hydræna** Kugelan.*pennsylvanica* Kiesenwetter. Coleop. Ind., 254. (C.C.)**Helophorus** Fabricius.*lineatus* Say. Coleop. Ind., 251.**Hydrochus** Leach.*scabratus* Mulsant. Coleop. Ind., 251.*subcupreus* Randall. *Ibid.*, 252. (C. C.)**Berosus** Leach.*infuscatus* LeConte. Can. Ent., xxvii, 185. (C.C.)*peregrinus* Herbst. Coleop. Ind., 258.*striatus* Say. *Ibid.*, 259.**Hydrous** Dahl.*ovalis* Ziegler. Coleop. Ind., 255.*triangularis* Say. *Ibid.*, 255.**Hydrophilus** DeGeer.*obtusatus* Say. Coleop. Ind., 257.**Tropisternus** Solier.*glaber* Herbst. Coleop. Ind., 256. (K.F.C.)*mixtus* LeConte. *Hydrophilus*. *Ibid.*, 256.*nimbatus* Say. *Ibid.*, 256.**Hydrobius** Leach.\**fuscipes* Linnæus. Coleop. Ind., 262.*globosus* Say. *Ibid.*, 263.**Paracymus** Thomson.*Creniphilus* Motschulsky.*despectus* LeConte. Coleop. Ind., 264.*digestus* LeConte. Trans. Am. Ent. Soc., xvii, 274.*infuscatus* Motschulsky. Coleop. Ind., 264.*subcupreus* Say. *Ibid.*, 264.**Enochrus** Thomson.*Phillydrus* Solier.*cinctus* Say. Coleop. Ind., 261.*hamiltoni* Horn. *Ibid.*, 260.*ochraceus* Melsheimer. *Ibid.*, 260.*perplexus* LeConte. *Ibid.*, 261.*reflexipennis* Zimmerman. *angustulus* Casey. Trans. Am. Ent. Soc., xvii., 250.

\* See also appendix.

**Laccobius** Erichson.

*agilis* Randall. Coleop. Ind., 259.

**Cymbiodyta** Bedel.

*fimbriata* Melsheimer. Trans. Am. Ent. Soc., xvii., 258: Coleop. Ind., 262.

*lacustris* LeConte. Coleop. Ind., 262.

**Chætarthria** Stephens.

*atra* LeConte. Proc. Acad. Nat. Sci. Phila., vi, 24.

**Cercyon** Leach.

*analis* Paykull. Coleop. Ind., 269.

*depressus* Stephens. Trans. Am. Ent., Soc., vii, 293. (C.C.)

*hæmorrhoidalis* Fabricius. Coleop. Ind., 267.

*indistinctus* Horn. *Ibid.*, 267.

*lateralis* Marsham. Trans. Am. Ent. Soc., xvii, 297.

*littoralis* Gyllenhal. *Ibid.*, 291.

*navicularis* Zimmerman. Coleop. Ind., 269. (C.C.)

*ocellatus* Say. *Ibid.*, 269. (C.C.)

*prætextatus* Say. *Ibid.*, 268.

*pygmæus* Illiger. *Ibid.*, 268.

*unpunctatus* Linnæus. *Ibid.*, 268.

**Sphæridium** Fabricius.

*bipustulatus* Fabricius. Jour. N. Y. Ent. Soc., xx, 69.

*scarabæoides* Linnæus. Coleop. Ind., 265.

**Cryptopleurum** Mulsant.

*minutum* Fabricius. Coleop. Ind., 270.

## Family SILPHIDÆ.

**Necrophorus** Fabricius.

*americanus* Olivier. Coleop. Ind., 274.

*marginatus* Fabricius. *Ibid.*, 275.

*orbicollis* Say. *Ibid.*, 275.

*pustulatus* Herschel. *Ibid.*, 275.

*sayi* Laporte. *Ibid.*, 274.

*tomentosus* Weber. *Ibid.*, 274.

*vespilloides* Herbst. Trans. Am. Ent. Soc., viii, 234.

**Silpha** Linnaeus.

- americana* Linnaeus. Coleop. Ind., 277.  
*inæqualis* Fabricius. *Ibid.*, 276.  
*noveboracensis* Fœrster. *Ibid.*, 277.  
*surinamensis* Herbst. *Ibid.*, 276.

**Choleva** Latreille.

- clavicornis* LeConte. Coleop. Ind., 280.  
*terminans* LeConte. *Ibid.*, 280. (C.C.)

**Prionochæta** Horn.

- opaca* Say. Coleop. Ind., 280.

**Ptomophagus** Illiger.

- consobrinus* LeConte. Coleop. Ind., 281. (C.C.)  
*parasitus* LeConte. *Ibid.*, 282.  
*pusio* LeConte. *Ibid.*, 282. (C.C.)

**Colon** Herbst.

- bidentatum* Sahlberg. Trans. Am. Ent. Soc., viii, 269. (C.C.)

**Anisotoma** Illiger.

- alternata* Melsheimer. Trans. Am. Ent. Soc., viii, 285.

**Leiodes** Latreille.

- discolor* Melsheimer. Coleop. Ind., 287. (C.C.)  
*globosa* LeConte. *Ibid.*, 287. (C.C.)

**Agathidium** Illiger.

- exiguum* Melsheimer. Coleop. Ind., 290.  
*oniscoides* Beauvois. *Ibid.*, 290.

## Family SCYDMENIDÆ.

**Euconnus** Thomson.

- bicolor* LeConte. Ann. N. Y. Acad. Sci., ix, 370.  
*salinator* LeConte. Coleop. Ind., 295. (C.C.)

**Connophron** Casey.

- fossiger* LeConte. Coleop. Ind., 298. (C.C.)  
*hirtellus* LeConte. Ann. N. Y. Acad. Sci., ix, 429.  
*lacunosum* Casey. *Ibid.*, ix, 459. (C.C.)  
*oreophilum* Casey. *Ibid.*, ix, 405.  
 sp.

**Scydmaenus** Latreille.

- perforatus* Schaum. Coleop. Ind., 301. (C.C.)

## Family CORYLOPHIDÆ.

**Sericoderus** Stephens.

*flavidus* LeConte. Coleop. Ind., 504.

**Molamba** Casey.

*fasciata* Say. *Sacium*. Coleop. Ind., 505. (C.C.)

*lunata* LeConte. *Sacium*. *Ibid.*, 505. (C.C.)

**Rhyppobius** LeConte.

*marinus* LeConte. Jour. N. Y. Ent. Soc., viii, 65. (C.W.L.)

## Family STAPHYLINIDÆ.

**Thoracophorus** Motschulsky.*Glyptoma* Erichson.

*costale* Erichson. Coleop. Ind., 484.

**Triga** Fauvel.

*picipennis* LeConte. Coleop. Ind., 484.

**Olisthærus** Heer.

*nitidus* LeConte. Trans. Am. Ent. Soc., v, 50.

**Anthobium** Leach.

*convexum* Fauvel. Coleop. Ind., 481.

**Olophrum** Erichson.

*obtectum* Erichson. Coleop. Ind., 479.

**Oxytelus** Gravenhorst.

*insignitus* Gravenhorst. Coleop. Ind., 468.

*sculptus* Gravenhorst. *Ibid.*, 468.

**Homalium** Gravenhorst.

*rivulare* Paykull. Coleop. Neerland., i, 359.

**Platystethus** Mannerheim.

*americanus* Erichson. Coleop. Ind., 467.

**Bledius** Leach.

*pallipennis* Say. *mandibularis*. Coleop. Ind., 464.

**Stenus** Latreille.

*colonus* Erichson. Coleop. Ind., 408.

*ingratus* Casey. *Ibid.*, 406.

*morio* Gravenhorst. *subgriseus* Casey. *Ibid.*, 411.

*stygius* Say. Coleop. Ind., 409.



**Areus** Casey.

- annularis** Erichson. *Stenus*. Coleop. Ind., 413.  
**arculus** Erichson. *Stenus*. *Ibid.*, 414.  
**cribratum** LeConte. Smith Misc. Coll., 1865, 46.  
**flavicornis** Erichson. *Stenus*. Coleop. Ind., 413.

**Hesperobium** Casey.

- pallipes** Gravenhorst. *flavicorne*. Can. Ent., xvii, 180.

**Lathrotaxis** Casey.

- longiusculum** Gravenhorst. *Lathrobium*. Coleop. Ind., 427.

**Gasterolobium** Casey.

- bicolor** Gravenhorst. *Cryptobium*. Coleop. Ind., 418.

**Pæderus** Gravenhorst.

- littorarius** Gravenhorst. Coleop. Ind., 437.

**Lathrobium** Gravenhorst.

- simile** LeConte. Coleop. Ind., 424.  
**simplex** LeConte. *Ibid.*, 423.

**Trachysectus** Casey.

- confluentus** Say. *Lithocharis*. Coleop. Ind., 431.

**Astenus** Stephens.*Sunius* Erichson.

- discopunctatus** Say. *longiusculus*. Coleop. Ind., 439.

**Gyrohypnus** Mannerheim.*Xantholinus* Serville.

- emmesus** Gravenhorst. Coleop. Ind., 396.  
**hamatus** Say. *obscurus*. *Ibid.*, 396.  
**obsidianus** Melsheimer. *Ibid.*, 395.  
**pusillus** Sachse. *Ibid.*, 398.  
**sanguinipennis** LeConte. Trans. Am. Ent. Soc., viii, 174.

**Nudobius** Thomson.

- cephalus** Say. *Xantholinus*. Coleop. Ind., 395.

**Neobisnius** Ganglbauer.

- pæderoides** LeConte. Coleop. Ind., 393.

**Philonthus** Curtis.

- blandus** Gravenhorst. Coleop. Ind., 387.  
**brunneus** Gravenhorst. *Ibid.*, 386.  
**cyanipennis** Fabricius. *Ibid.*, 387.

- debilis Gravenhorst. *Ibid.*, 383.  
 fusiformis Melsheimer. *Ibid.*, 385.  
 lomatus Erichson. *Ibid.*, 386.  
 longicornis Stephens. *Ibid.*, 383.  
 microphthalmus Horn. *Ibid.*, 388.  
 politus Linnæus. *cneus* Rossi. Trans. Am. Ent. Soc., xi, 181.  
 schwarzi Horn. *Ibid.*, 385.  
 sp.

**Ocypus** Kirby.

- ater Gravenhorst. Coleop. Ind., 379.

**Staphylinus** Linnæus.

- badipes LeConte. Coleop. Ind., 376.  
 cinnamopterus Gravenhorst. *Ibid.*, 377.  
 fossator Gravenhorst. *Ibid.*, 377.  
 maculosus Gravenhorst. *Ibid.*, 377.  
 mysticus Erichson. *Ibid.*, 377.  
 prælongus Mannerheim. Trans. Am. Ent. Soc., vii, 197.  
 (A.B.C.)  
 violaceus Gravenhorst. Coleop. Ind., 378.  
 vulpinus Nordmann. *Ibid.*, 376.

**Ortholestes** Ganglbauer.

*Listotrophus* Perty.

- capitatus Bland. Proc. Phila. Ent. Soc., iii, 65. (K.F.C.)  
 cingulatus Gravenhorst. Coleop. Ind., 374.

**Creophilus** Mannerheim.

- villosus Gravenhorst. Coleop. Ind., 374.

**Acylophorus** Nordmann.

- pronus Erichson. Coleop. Ind., 368.

**Quedius** Stephens.

- vernix LeConte. Coleop. Ind., 373.

**Oxyporus** Fabricius.

- lateralis Gravenhorst. Coleop. Ind., 461.  
 major Gravenhorst. *Ibid.*, 459. (A.B.C.) (H.B.K.)  
 vittatus Gravenhorst. *Ibid.*, 460.

**Habrocerus** Erichson.

- schwarzii Horn. Coleop. Ind., 457.

**Tachinus** Gravenhorst.

- fimbriatus* Gravenhorst. Coleop. Ind., 446.  
*fumipennis* Say. Trans. Am. Ent. Soc., vi, 100.  
*limbatus* Melsheimer. Coleop. Ind., 446.

**Tachyporus** Gravenhorst.

- chrysomelinus* Linnæus. Coleop. Ind., 448.  
*jocosus* Say. *Ibid.*, 448.  
*maculipennis* LeConte. *Ibid.*, 447.

**Erchomus** Motschulsky.

- ventriculus* Say. Coleop. Ind., 449.

**Conosoma** Kraatz.

- basale* Erichson. Coleop. Ind., 451.  
*crassum* Gravenhorst. *Ibid.*, 450.  
*pubescens* Paykull. *Ibid.*, 451.

**Boletobius** Stephens.

- cincticollis* Say. Coleop. Ind., 453.  
*cinctus* Gravenhorst. *Ibid.*, 454.  
*intrusus* Horn. *Ibid.*, 454.  
*niger* Gravenhorst. *Ibid.*, 452.  
*trinotatus* Erichson. *Ibid.*, 454.

**Bryoporus** Kraatz.

- rufescens* LeConte. Coleop. Ind., 457.

**Hoplandria** Kraatz.

- brittoni* Casey. Mem. Coleop., ii, 161.

**Meronea** Sharp.

- venustula* Erichson. Coleop. Ind., 349.

**Atheta** Thomson.

- irvingi* Casey. Mem. Coleop., i, 5.  
*vierecki* Casey. *Ibid.*, ii, 103. (H.L.V.)

**Datomicra** Casey.

- mina* Casey. Mem. Coleop., ii, 145. (H.L.V.)

**Sableta** Casey.

- brittoni* Casey. Mem. Coleop., ii, 145. (W.E.B.)

**Strigota** Casey.

- recta* Casey. Mem. Coleop., ii, 165. (H.L.V.)

**Falagria** Mannerheim.

*dissecta* Erichson. Coleop. Ind., 347.

**Gyrophæna** Mannerheim.

*dissimilis* Erichson. Coleop. Ind., 341.

*lobata* Casey. *Ibid.*, 341.

**Xenodusa** Wasmann.

*cava* LeConte. *Lomechusa*. Coleop. Ind., 359.

*cava* var. *major* Wasmann. Deutsche Ent. Zeit., 1899, 410.  
(C.W.L.)

**Aleochara** Gravenhorst.

*bimaculata* Gravenhorst. Coleop. Ind., 365.

*lata* Gravenhorst. *Ibid.*, 364.

*marion* Gravenhorst. Ent. News., xix, 64.

**Homœusa** Kraatz.

*crintula* Casey. Jour. N. Y. Ent. Soc., xviii, 54.

**Haploglossa** Kraatz.

sp.

## Family PSELAPHIDÆ.

**Batrisodes** Reitter.

*fossicauda* Casey. Ann. N. Y. Acad. Sci., ix, 575. (C.C.)

*globosus* LeConte. Coleop. Ind., 326.

*harringtoni* Casey. Ann. N. Y. Acad. Sci., ix, 578. (C.C.)

*nigricans* LeConte. Coleop. Ind., 328. (C.C.)

**Nisaxis** Casey.

*tomentosa* Aubé. Coleop. Ind., 317.

**Brachygluta** Thomson.*Bryaris* Aubé

*abdominalis* Aubé. Coleop. Ind., 318. (A.B.C.)

*terbrata* Casey. *perforata*. *Ibid.*, 318. (C.C.)

**Reichenbachia** Leach.

*puncticollis* LeConte. Coleop. Ind., 322. (C.C.)

*rubicunda* Aubé. *Ibid.*, 321.

**Decarthron** Brendel.

*abnorme* LeConte. Coleop. Ind., 317. (C.C.)

*longulum* LeConte. *Ibid.*, 316. (C.C.)

*stigmatosum* Brendel. Proc. Phila. Ent. Soc., vi, 35.

**Pselaphus** Herbst.**bellax** Casey. Coleop. Ind., 314. (A.B.C.)**Tyrus** Aubé.**humeralis** Aubé. Coleop. Ind., 313.**Pilopius** Casey.*Ctenistes* Reichenbach.**lacustris** Casey. *piceus* LeConte. Coleop. Ind., 311. (C.C.)**Ceophyllus** LeConte.**monilis** LeConte. Coleop. Ind., 309. (C.W.L.)

## Family CLAVIGERIDÆ.

**Adranes** LeConte.**lecontei** Brendel. Coleop. Ind., 307. (C.C.)

## Family PTILIDÆ.

**Trichopteryx** Kirby.**haldemani** LeConte. Coleop. Ind., 489. (C.W.L.)

## Family SCAPHIDIIDÆ.

**Scaphidium** Olivier.**quadriguttatum** Say. Coleop. Ind., 492. (C.C.)**quadriguttatum** var. *piceum* Melsheimer. *Ibid.*, 492.**Bæocera** Erichson.

sp.

**Scaphisoma** Leach.**convexa** Say. Coleop. Ind., 496. (C.C.)**suturalis** LeConte. *Ibid.*, 496. (C.C.)

## Family HISTERIDÆ.

**Hololepta** Paykull.**fossularis** Say. Coleop. Ind., 601.

**Hister** Linnæus.

- abbreviatus* Fabricius. Coleop. Ind., 607.  
*americanus* Paykull. *Ibid.*, 609.  
*arcuatus* Say. Compl. Writ., ii, 262. (C.C.)  
*bimaculatus* Linnæus. Coleop. Ind., 609.  
*biplagiatus* LeConte. *Ibid.*, 603.  
*cognatus* LeConte. *Ibid.*, 604.  
*depurator* Say. *Ibid.*, 607.  
*egregius* Casey. Mem. Coleop., vii, 288.  
*fœdatus* LeConte. Coleop. Ind., 606.  
*furtivus* LeConte. *Ibid.*, 608.  
*immunis* Erichson. *Ibid.*, 605.  
*interruptus* Beauvois. *Ibid.*, 605.  
*lecontei* Latreille. *Ibid.*, 612.  
*merdarius* Hoffman. *Ibid.*, 612.  
*parallelus* Say. *Ibid.*, 612.  
*perplexus* LeConte. *Ibid.*, 609. (C.C.)  
*sedecimstriatus* Say. *Ibid.*, 609.  
*stygius* LeConte. *Ibid.*, 606.

**Phelister** Marseul.

- subrotundus* Say. *Hister*. Coleop. Ind., 611.

**Gnathoncus** Duval.

- communis* Marseul. *rotundatus*. Coleop. Ind., 619.

**Psiloscelis** Marseul.

- harrisii* LeConte. *planipes*. Mem. Coleop., vii, 204. (C.C.)  
*perpunctatus* LeConte. Trans. Am. Ent. Soc., viii, 190.

**Platysoma** Leach.

- carolinus* Paykull. Coleop. Ind., 612.  
*coartatus* LeConte. *Ibid.*, 613. (A.B.C.) (H.B.K.)

**Hetærius** Erichson.

- blanchardi* LeConte. Proc. Am. Phil. Soc., xvii, 609. (C.C.)  
*brunneipennis* Randall. Coleop. Ind., 615.

**Dendrophilus** Leach.

- punctulatus* Say. Coleop. Ind., 615.

**Paromalus** Erichson.

- bistriatus* Erichson. Coleop. Ind., 616.

**Saprinus** Erichson.

- assimilis* Paykull. Coleop. Ind., 620.  
*conformis* LeConte. *Ibid.*, 620.  
*dimidiatipennis* LeConte. *Ibid.*, 608.  
*fraternus* Say. *Ibid.*, 623. (K.F.C.)  
*neglectus* Marseul. Trans. Am. Phil. Soc., xiii, 335. (C.C.)  
*oregonensis* LeConte var. *distinguendis* Marseul. Mon. Hister.,  
 441.  
*patruelis* LeConte. Coleop. Ind., 624.  
*pennsylvanicus* Paykull. Coleop. Ind., 620.  
*posthumus* Marseul. *Ibid.*, 619.

**Plegaderus** Erichson.

- transversus* Say. Coleop. Ind., 625. (C.C.)

**Acritus** LeConte.

- politus* LeConte. Coleop. Ind., 627. (C.C.)

## Family LYCIDÆ.

**Lycostomus** Motschulsky.

- lateralis* Melsheimer. Coleop. Ind., 810.

**Calopteron** Guérin-Ménéville.

- reticulatum* Fabricius. Coleop. Ind., 811.  
*terminale* Say. *Ibid.*, 810.

**Cæniella** Cockerell.*Cænia* Newman.

- dimidiata* Fabricius. Coleop. Ind., 811.

**Celetes** Newman.

- basalis* LeConte. Coleop. Ind., 811.

**Lopheros** LeConte.

- fraternus* Randall. Coleop. Ind., 811.

**Eros** Newman.

- aurora* Herbst. Coleop. Ind., 812.  
*trilineatus* Melsheimer. *Ibid.*, 813.

**Plateros** Bourgeois.

- canaliculatus* Say. Coleop. Ind., 815.  
*modestus* Say. *Ibid.*, 814.

## Family LAMPYRIDÆ.

**Lucidota** Laporte.

- atra* Fabricius. Coleop. Ind., 817.  
*corrusca* Linnæus. *Ellychnia*. *Ibid.*, 818.  
*decipiens* Harris. *Pyropyga*. *Ibid.*, 819.  
*fenestralis* Melsheimer. *Pyropyga*. *Ibid.*, 819.  
*nigricans* Say. *Ibid.*, 819.

**Lecontea** Olivier.

- augulata* Say. *Pyractonema*. Coleop. Ind., 820.  
*lucifera* Melsheimer. *Pyractonema*. Coleop. Ind., 821.

**Photinus** Laporte.\*

- scintillans* Say. Coleop. Ind., 823. (H.L.J.)

**Photuris** LeConte.

- pennsylvanica* DeGeer. Common firefly. Coleop. Ind., 823.

## Family TELEPHORIDÆ.

**Omethes** LeConte.

- marginatus* LeConte. Coleop. Ind., 825. (C.C.)

**Chauliognathus** Hentz.

- pennsylvanicus* DeGeer. Soldier beetle. Coleop. Ind., 827.

**Podabrus** Fischer.

- basillaris* Say. Coleop. Ind., 830.  
*frater* LeConte. *Ibid.*, 830.  
*modestus* Say. *Ibid.*, 830.  
*modestus* var. *flavicollis* LeConte. *Ibid.*, 831.  
*protensus* LeConte. *Ibid.*, 831. (C.C.)  
*rugulosus* LeConte. *Ibid.*, 830.  
*tricostatus* Say. *Ibid.*, 829.

**Telephorus** Schæffer.

- bilineatus* Say. Coleop. Ind., 835.  
*carolinus* Fabricius. *Ibid.*, 833.  
*collaris* LeConte. Proc. Acad. Nat. Sci., Phila., v. 540.  
*dentiger* LeConte. Coleop. Ind., 833.  
*excavatus* LeConte. *Ibid.*, 833.  
*fraxini* Say. Compl. Writ., ii, 118.

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\* See also appendix.



*lineola* Fabricius. Coleop. Ind., 834.  
*nigritulus?* LeConte. Trans. Am. Ent. Soc., ix, 52.  
*rectus* Walsh. Coleop. Ind., 834.  
*rotundicollis* Say. *Ibid.*, 835.  
*scitulus* Say. *Ibid.*, 834.  
*tuberculatus* LeConte. *Ibid.*, 835.

**Polemius** LeConte.

*laticornis* Say. Coleop. Ind., 836.

**Ditemnus** LeConte.

*bidentatus* Say. Coleop. Ind., 837.

**Trypherus** LeConte.

*latipennis* Germar. Coleop. Ind., 838.

**Malthodes** Kiesenwetter.

*concavus* LeConte. Coleop. Ind., 839.

Family PHENGODIDÆ.

**Phengodes** Illiger.

sp.

Family MELYRIDÆ (MALACHIDÆ).

**Collops** Erichson.

*nigriceps* Say. *eximius*. Trans. Am. Ent. Soc., iii, 80.

*quadrimaculatus* Fabricius. Coleop. Ind., 841.

*tricolor* Say. *Ibid.*, 841.

*vittatus* Say. Trans. Am. Ent. Soc., iii, 81.

**Malachius** Fabricius.

*æneus* Linnæus. Trans. Am. Ent. Soc., iv, 113.

**Anthocomus** Erichson.

*erichsoni* LeConte. Coleop. Ind., 842. (C.C.)

**Pseudebæus** Horn.

*oblitus* LeConte. Coleop. Ind., 842.

**Attalus** Erichson.

*morulus* LeConte. Coleop. Ind., 844.

*otiosus* Say. *Ibid.*, 845. (C.C.)

*pallifrons* Motschulsky. *Ibid.*, 844. (C.C.)

*scincetus* Say. *Ibid.*, 846.

*terminalis* Erichson. *Ibid.*, 844.

## Family CLERIDÆ.

**Monophylla** Spinola.

**terminatus** Say. *Elasmocerus*. Coleop. Ind., 849. (E.P.F.)

**Cymatodera** Gray.

**bicolor** Say. Coleop. Ind., 850. (D.J.C.)

**inornata** Say. *Ibid.*, 850.

**Thanasimus** Latreille.

**dubius** Say. Coleop. Ind., 854.

**Enoclerus** Gahan.

**analis** LeConte. Coleop. Ind., 853. (F.K.)

**nigrifrons** Say. *Ibid.*, 853.

**quadriguttatus** Olivier. *nigripes*. *Ibid.*, 853.

**rosmarus** Say. *Ibid.*, 854.

**Phlœopterus** Wolcott.

**thoracicus** Olivier. *Enoclerus*. Coleop. Ind., 854.

**Trichodes** Herbst.

**nuttalli** Kirby. Coleop. Ind., 852.

**Hydnocera** Newman.

**humeralis** Say. Coleop. Ind., 856.

**humeralis** var. **difficilis** LeConte. *Ibid.*, 856.

**pallipennis** Say. *Ibid.*, 856.

**tabida** LeConte. *Ibid.*, 857. (A.B.C.)

**unifasciata** Say. *Ibid.*, 855.

**verticalis** Say. *Ibid.*, 857.

**Zenodosus** Wolcott.

**sanguineus** Say. Coleop. Ind., 855.

**Phyllobænus** Spinola.

**dislocatus** Say. Coleop. Ind., 858. (A.B.C.)

**Neichnea** Wolcott and Chapin.

**laticornis** Say. *Ichnæa*. *Ellipotoma*. Coleop. Ind., 859.

**Chariessa** Perty.

**pilosa** Færster. Coleop. Ind., 859.

**Corinthiscus** Fairmaire.*Pelonium* Spinola.

**leucophæum** Klug. *Cregya vestusta* Spinola. Coleop. Ind., 860.

**Necrobia** Latreille.

**ruficollis** Fabricius. Coleop. Ind., 861.

**rufipes** DeGeer. *Ibid.*, 861.

**violacea** Linnæus. *Ibid.*, 862.

## Family LYMEXYLIDÆ.

**Hylecætus** Latreille.**lugubris** Say. Coleop. Ind., 894. (A.B.C.)**Melittomma** Murray.**sericeum** Harris. *Lymexylon*. Chestnut timber beetle. Coleop. Ind., 895.

## Family CEPHALOIDÆ.

**Cephaloön** Newman.**lepturides** Newman. Ann. N. Y. Acad. Sci., ix, 650.

## Family CEDEMERIDÆ.

**Nacerdes** Schmidt.**melanura** Linnæus. Coleop. Ind., 1306.**Asclera** Schmidt.**ruficollis** Say. Coleop. Ind., 1307.

## Family MORDELLIDÆ.

**Anaspis** Geoffroy.**flavipennis** Haldeman. Coleop. Ind., 1310.**rufa** Say. *Ibid.*, 1310.**Tomoxia** Costa.**bidentata** Say. Coleop. Ind., 1311.**Mordella** Linnæus.**marginata** Melsheimer. Coleop. Ind., 1313.**melæna** Germar. *Ibid.*, 1312.**oculata** Say. *Ibid.*, 1314.**scutellaris** Fabricius. *Ibid.*, 1313.**triloba** Say. *Ibid.*, 1314. (F.K.)**Glipodes** LeConte.**helva** LeConte. Proc. Acad. Nat. Sci., Phila., xiv, 48.**Mordellistena** Costa.**aspersa** Melsheimer. Coleop. Ind., 1319.**comata** LeConte. *Ibid.*, 1319.**comata** var. **cervicalis** LeConte. *Ibid.*, 1319.**grammica** LeConte var. **varians** LeConte. *Ibid.*, 1321. (F.K.)**pubescens** Fabricius. *Ibid.*, 1335.

## Family RHIPIPHORIDÆ.

**Rhipiphorus** Bosc d'Antic.

fasciatus Say. *Myodites. walshii*. Coleop. Ind., 1367.

**Macrosiagon**. Hentz.

flavipennis LeConte. *Rhipiphorus*. Coleop. Ind., 1366.

limbatum Fabricius. *Ibid.*, 1367.

## Family MELOIDÆ (or CANTHARIDÆ.)

**Epicauta** Redtenbacher.

cinerea Fœrster. Coleop. Ind., 1362.

cinerea var. *marginata* Fabricius. *Ibid.*, 1362.

pennsylvanica DeGeer. *Ibid.*, 1362.

vittata Fabricius. *Ibid.*, 1361.

**Macrobasis** LeConte.

unicolor Kirby. Coleop. Ind., 1359.

**Pomphopæa** LeConte.

ænea Say. Coleop. Ind., 1364.

sayi LeConte. *Ibid.*, 1364.

unguicularis LeConte. *Ibid.*, 1364.

**Meloe** Linnaeus.

angusticollis Say. Coleop. Ind., 1353.

**Zonitis** Fabricius.

bilineata Say. Coleop. Ind., 1356.

**Tricrania** LeConte.

sanguinipennis Say. Coleop. Ind., 1354.

## Family PYTHIDÆ.

**Pytho** Latreille.

niger Kirby. Trans. Am. Ent. Soc., xv, 46.

plenus Herbst. *americanus* Kirby. Ins. Aff. Park and Woodl. Trees, 368: Trans. Am. Ent. Soc., xv, 46.

**Rhinosimus** Latreille.

viridiæneus Randall. Coleop. Ind., 1304.

## Family PYROCHROIDÆ.

- Pyrochroa** Geoffroy.  
*femorialis* LeConte. Coleop. Ind., 1348.  
*flabellata* Fabricius. *Ibid.*, 1348.  
**Schizotus** Newman.  
*cervicalis* Newman. Coleop. Ind., 1349.  
**Dendroides** Latreille.  
*bicolor* Newman. *canadensis*. Coleop. Ind., 1349. (G.D.)  
*concolor* Newman. *Ibid.*, 1349.

## Family PEDILIDÆ.

- Pedilus** Fischer.  
*Corphyra* Say.  
*collaris* Say. Coleop. Ind., 1331.  
*elegans* Hentz. *Ibid.*, 1330.  
*lugubris* Say. *Ibid.*, 1331.  
**Macratia** Newman.  
*confusa* LeConte. Coleop. Ind., 1332.

## Family ANTHICIDÆ.

- Notoxus** Geoffroy.  
*anchora* Hentz. Coleop. Ind., 1335.  
*bifasciatus* LeConte. *Ibid.*, 1335.  
*mondon* Fabricius. *Ibid.*, 1336.  
**Malporus** Casey.  
*formicarius* Laferté. Coleop. Ind., 1338. (A.B.C.) (H.B.K.)  
**Thicanus** Casey.  
*rejectus* LeConte. Ann. N. Y. Acad. Sci., viii, 671. (A.B.C.)  
(H.B.K.)  
**Lappus** Casey.  
*sturni* Laferté. *elegans*. Ann. N. Y. Acad. Sci., viii, 657.  
(G.D.)  
**Hemantus** Casey.  
*floralis* Linnæus. Ann. N. Y. Acad. Sci., viii, 683.  
**Anthicus** Paykull.  
*cervinus* Laferté. Coleop. Ind., 1341.  
**Sapintus** Casey.  
*pubescens* LeConte. Ann. N. Y. Acad. Sci., viii, 733.

## Family ELATERIDÆ.

**Tharops** Castner.

*ruficornis* Say. Coleop. Ind., 703.

**Adelocera** Latreille.

*discoidea* Weber. Coleop. Ind., 715.

*marmorata* Fabricius. *Ibid.*, 714.

*obtecta* Say. *Ibid.*, 715.

**Alaus** Eschscholtz.

*oculatus* Linnæus. Eyed elater or click-beetle. Coleop. Ind., 717.

**Monocrepidius** Eschscholtz.

*auritus* Herbst. Coleop. Ind., 728.

*bella* Say. *Ibid.*, 728.

*vespertinus* Fabricius. *Ibid.*, 728.

**Campylus** Fischer.

*denticornis* Kirby. Coleop. Ind., 759.

**Limonius** Eschscholtz.

*basillaris* Say. Coleop. Ind., 758. (C.C.)

*confusus* LeConte. *Ibid.*, 758.

*ectypus* Say. *agonus*. *Ibid.*, 756.

*griseus* Beauvois. *Ibid.*, 757.

*nimbatus* Say. Ann. Lyc. Nat. Hist. N. Y., i, 255. (C.C.)

*plebejus* Say. Coleop. Ind., 758.

*quercinus* Say. *Ibid.*, 758.

*stigma* Herbst. Kafer, x, 286. (A.B.C.)

**Leptoschema** Horn.

*discalceatum* Say. Coleop. Ind., 761.

**Athous** Eschscholtz.

*acanthus* Say. Coleop. Ind., 760. (C.C.)

*brightwelli* Kirby. *Ibid.*, 759.

*cucullatus* Say. *Ibid.*, 870.

**Ludius** Eschscholtz.*Corymbites* Latreille.

*æripennis* Kirby. Trans. Am. Phil. Soc., x, 439.

*æthiops* Herbst. Coleop. Ind., 766.

*cylindrifformis* Herbst. *Ibid.*, 765.

*hieroglyphicus* Say. *Ibid.*, 766.

*inflatus* Say. *Ibid.*, 767.

- nigricornis* Panzer. *metallicus*. Faun. Germ., lxi, 5.  
*pyrrhos* Herbst. Coleop. Ind., 767.  
*splendens* Ziegler. *Ibid.*, 768.  
*sulcicollis* Say. *Ibid.*, 768. (C.C.)  
*tarsalis* Melsheimer. *Ibid.*, 765.  
*tessellatus* Linnaeus. Syst. Nat., (Ed. 10) 406.  
*triundulatus* Randall. Trans. Am. Phil. Soc., x, 477.

**Hemicrepidius** Germar.*Asaphes* Kirby.

- bilobatus* Say. Coleop. Ind., 770.  
*decoloratus* Say. *Ibid.*, 770.  
*memnonius* Herbst. *Ibid.*, 770.

**Cryptohypnus** Eschscholtz

- abbreviatus* Say. Coleop. Ind., 722.

**Melanactes** LeConte.

- morio* Fabricius. Coleop. Ind., 772. (G.D.)  
*piceus* DeGeer. *Ibid.*, 771.

**Æstodes** LeConte.

- tenuicollis* Randall. Trans. Am. Phil. Soc., x, 424.

**Parallelosthethus** Schwarz.

- attenuatus* Say. *Ludius*. Coleop. Ind., 736.

**Trichopherus** Mulsant and Godart.

- abruptus* Say. *Ludius*. Coleop. Ind., 737.

**Agriotes** Eschscholtz.

- oblongicollis* Melsheimer. Coleop. Ind., 741.

**Oxygonus** LeConte.

- obesus* Say. Coleop. Ind., 769.

**Dolopius** Eschscholtz.

- lateralis* Eschscholtz. *Sericosomus*. Coleop. Ind., 742.

**Sericus** Eschscholtz.

- silaceus* Say. *Sericosomus*. Coleop. Ind., 763. (C.C.)  
*viridanus* Say. *Sericosomus*. Compl. writ., ii, 603.

**Glyphonyx** Candeze.

- recticollis* Say. Coleop. Ind., 743.  
*testaceus* Melsheimer. *Ibid.*, 743.

**Æolus** Eschscholtz.

- dorsalis* Say. *Drasterius elegans*. Coleop. Ind., 735.

**Elater** Linnæus.

- areolatus Say. *obliquus*. Coleop. Ind., 734.  
 collaris Say. *Ibid.*, 734.  
 linteus Say. *Ibid.*, 732.  
 manipularis Candeze. *Ibid.*, 732.  
 militaris Harris. Trans. Am. Ent. Soc., xii, 10. (A.B.C.)  
 mixtus Herbst. Trans. Am. Phil. Soc., x, 469.  
 mixtus var. **fuscus** LeConte. *Ibid.*, 468.  
 nigricans Germar. *Ibid.*, 468.  
 nigricollis Herbst. Coleop. Ind., 732.  
 nigrinus Paykull. Trans. Am. Ent. Soc., xii, 10. (F.K.)  
 pullus Germar. *Ibid.*, xii, 10.  
 rubricollis Herbst. Coleop. Ind., 733.  
 rubricus Say. *Ibid.*, 733.  
 sanguinipennis Say. *Ibid.*, 734.  
 semicinctus Randall. Trans. Am. Phil. Soc., x, 465. (A.B.C.)  
 vitiosus LeConte. *Ibid.*, 465.

**Megapenthes** Kiesenwetter.

- limbalis Herbst. Coleop. Ind., 736.

**Melanotus** Eschscholtz.\*

- americanus Herbst. Coleop. Ind., 747.  
 communis Gyllenhal. *Ibid.*, 750.  
 cribulosus LeConte. Trans. Am. Phil. Soc., ser. 2, x, 479.  
 decumanus Erichson. Coleop. Ind., 749.  
 dubius LeConte. Trans. Am. Phil. Soc., Ser. 2, x, 479.  
 exuberans LeConte. *Ibid.*, Ser. 2, x, 479.  
 fissilis Say. Coleop. Ind., 750.  
 insipiens Say. Compl. Writ., ii, 622.  
 parumpunctatus Melsheimer. Coleop. Ind., 754  
 pertinax Say. *Ibid.*, 755.  
 sagittarius LeConte. *Ibid.*, 751.  
 tenax Say. *Ibid.*, 755.  
 trapezoideus LeConte. *Ibid.*, 752.  
 verberans LeConte. *Ibid.*, 753.

**Cardiophorus** Eschscholtz.

- cardisce Say. Coleop. Ind., 720.  
 convexus Say. *Ibid.*, 721.

\* See also appendix.



*gagates* Erichson. *Ibid.*, 721.

*robustus* LeConte. *Ibid.*, 721.

sp.

**Horistonotus** Candeze.

*curiatus* Say. Coleop. Ind., 721.

*simplex* Say. Trans. Am. Ent. Soc., xii, 38.

Family MELASIDÆ.

(EUCNEMIDÆ.)

**Melasis** Olivier.

*pecticornis* Melsheimer. Coleop. Ind., 703.

**Isorhipis** Lacordaire.

*Tharops*.

*ruficornis* Say. Coleop. Ind., 703.

**Deltometopus** Bonvouloir.

*amœnicornis* Say. Coleop. Ind., 704.

**Entomophthalmus** Bonvouloir.

*rufolus* LeConte. Coleop. Ind., 709.

Family THROSCIDÆ or TRIXAGIDÆ.

**Throsus** Latreille.

*carinicollis* Schæffer. Trans. Am. Ent. Soc., xliii, 22.

*chevrolati* Bonvouloir. Coleop. Ind., 776.

Family BUPRESTIDÆ.

**Acmæodera** Eschscholtz.

*tubulus* Fabricius. *culta*. Coleop. Ind., 794.

**Chalcophora** Solier.

*fortis* LeConte. Trans. Am. Phil. Soc., ii, 191.

*liberta* Germar. Coleop. Ind., 780.

*virginiensis* Drury. *Ibid.*, 780.

**Dicerca** Eschscholtz.

*americana* Herbst. Kafer, ix, 107.

*caudata* LeConte. Coleop. Ind., 781.

*divaricata* Say. *Ibid.*, 781.

*lurida* Fabricius. *Ibid.*, 782.

*obscura* Fabricius. *Ibid.*, 782.

*prolongata* LeConte. Trans. Am. Phil. Soc., xii, 194.

*pugionata* Germar. Coleop. Ind., 781.

*punctulata* Schonherr. Syn. Ins., 3, 123.

*tenebrosa* Kirby. Coleop. Can., 348.

**Melanophila** Eschscholtz.

*acuminata* DeGeer. *appendiculata*. *longipes*. Coleop. Ind., 786.

*fulvoguttata* Harris. Entomological Correspondence, 358.

**Anthaxia** Eschscholtz.

*quercata* Fabricius. *cyanella*. Coleop. Ind., 787. (F.K.)

*viridifrons* Laporte. *Ibid.*, 787.

**Chrysobothris** Eschscholtz.

*azurea* LeConte. Coleop. Ind., 791.

*dentipes* Germar. *Ibid.*, 788. (K.F.C.)

*femorata* Fabricius. Flat-headed apple borer. *Ibid.*, 789.

*femorata* var. *quadriimpressa*. Laporte and Gory. *iv-impressa*.  
Mon. Bupr., 2, 48.

*floricola* Gory. Coleop. Ind., 790.

*harrisii* Hentz. Jour. Acad. Nat. Sci. Phila., v, 373.

*lesueuri* Laporte and Gory. *misella*. Mon. Bupr., 2, 49.

*pusilla* Laporte and Gory. Coleop. Ind., 791.

*scabripennis* Laporte and Gory. Mon. Bupr., 2, 53. (K.F.C.)

*sexsignata* Say. Coleop. Ind., 791.

**Actenodes** Lacordaire.

*acornis* Say. Coleop. Ind., 792.

**Eupristocerus** Deyrolle.

*cogitans* Weber. Coleop. Ind., 796.

**Agrilus** Stephens.

*acutipennis* Mannerheim. Coleop. Ind., 800.

*arcuatus* Say. *Ibid.*, 799.

*arcuatus* var. *obliquus* LeConte. Trans. Am. Phil. Soc., ii, 243.

*auricomus* Frost. Can. Ent., xlv., 250. (A.B.C.)

*bilineatus* Weber. Coleop. Ind., 800.

*cephalicus* LeConte. Can., Ent., xlv., 249.

*champlaini* Frost. *Ibid.*, xlv., 245.

*defectus* LeConte. Trans. Am. Phil. Soc., ii, 234.

*egenus* Gory. Coleop. Ind., 804.

*horni* Kerremans. *blanchardi*. *Ibid.*, 801.

*juglandis* Knull. Ent. News, xxxi, 7.

*lateralis* Say. Coleop. Ind., 798.

*masculus* Horn. *Ibid.*, 799.

**obsoletoguttata** Gory. *Ibid.*, 802.

**otiosus** Say. *Ibid.*, 798.

**politus** Say. *Ibid.*, 801.

**ruficollis** Fabricius. *Ibid.*, 798.

**vittaticollis** Randall. *Ibid.*, 800. (A.H.Me.)

**Pachyscelus** Solier.

**ovatus** Say. *lævigatus*. Coleop. Ind., 807.

**purpureus** Say. *Ibid.*, 807.

**Brachys** Solier.

**ærosa** Melsheimer. Coleop. Ind., 806.

**æruginosa** Gory. *Ibid.*, 806.

**ovata** Weber. *Ibid.*, 806.

**Taphrocerus** Solier.

**gracilis** Say. Coleop. Ind., 805.

**Mastogenius** Solier.

**subcyaneus** LeConte. Coleop. Ind., 795.

Family PSEPHENIDÆ.

**Psephenus** Haldeman.

**lecontei** LeConte. Coleop. Ind., 677.

Family DRYOPIDÆ.

**Dryops** Olivier.

**fastigiatus** Say. Coleop. Ind., 679.

**lithophilus** Germar. *Ibid.*, 678.

**productus** LeConte. Trans. Am. Ent. Soc., iii, 32.

Family ELMIDÆ.

**Macronychus** Müller.

**glabratus** Say. Coleop. Ind., 682.

**Stenelmis** Dufour.

**crenatus** Say. Coleop. Ind., 681.

**Elmis** Latreille.

**elegans** LeConte. Trans. Am. Ent. Soc., iii, 36.

**foveatus** LeConte. *Ibid.*, v, 53.

**latiusculus** LeConte. *Ibid.*, iii, 37.

**quadrinotatus** Say. Coleop. Ind., 679.

sp.

sp.

## Family HETEROCERIDÆ.

**Heterocerus** Fabricius.*tristis* Mannerheim. Coleop. Ind., 685.*ventralis* Melsheimer. *Ibid.*, 684. (C.C.)

## Family GEORYSSIDÆ

**Georyssus** Latreille.*pusillus* LeConte. Coleop. Ind., 675.

## Family DASCILLIDÆ.

**Eurypogon** Motschulsky.*niger* Melsheimer. Coleop. Ind., 689.**Ptilodactyla** Latreille.*serricollis* Say. Coleop. Ind., 691.**Eucinetus** Germar.*terminalis* LeConte. Coleop. Ind., 692.**Ectopria** LeConte.*nervosa* Melsheimer. Coleop. Ind., 692. (C.C.)

## Family HELODIDÆ (or CYPHONIDÆ.)

**Helodes** Latreille.*pulchella* Guérin-Ménéville. Coleop. Ind., 694. (C.C.)*thoracia* Guérin-Ménéville. *Ibid.*, 694.**Scirtes** Illiger.*orbiculatus* Fabricius. Coleop. Ind., 694.*tibialis* Guérin-Ménéville. *Ibid.*, 694. (F.K.)**Cyphon** Paykull.*collaris* Guérin-Ménéville. Coleop. Ind., 696. (C.C.)*obscurus* Guérin-Ménéville. *Ibid.*, 695.*ruficollis* Say. *Ibid.*, 695.*variabilis* Thunberg. *Ibid.*, 696.

## Family BYTURIDÆ.

**Byturus** Latreille.*unicolor* Say. Raspberry fruit worm. Raspberry bytutus  
Coleop. Ind., 589.

## Family DERMESTIDÆ.

**Dermestes** Linnæus.

*caninus* Germar. Coleop. Ind., 590.

*lardarius* Linnæus. Larder beetle. Ham beetle. Coleop.

Ind., 591: Bur. Ent., Bull. 4 new ser. 107.

*talpinus* Mannerheim. Coleop. Ind., 591. (G.D.) (K.F.C.)

*vulpinus* Fabricius. *Ibid.*, 591.

**Attagenus** Latreille.

*pellio* Linnæus. Coleop. Can., 305. (C.C.)

*piceus* Olivier. Black carpet beetle. Coleop. Ind., 592: Bur.

Ent., Bull. 4 new ser. 61.

**Trogoderma** Latreille.

*ornatum* Say. Coleop. Ind., 593. (C.C.)

*tarsale* Melsheimer. *Ibid.*, 593.

**Cryptorophalum** Guérin-Ménéville.

*triste* LeConte. Coleop. Ind., 594.

**Anthrenus** Geoffroy.

*scrophulariæ* Linnæus. Carpet Beetle. "Buffalo bug."

Coleop. Ind., 595: Bur. Ent., Bull. 4 new ser. 59.

*scrophulariæ* var. *lepidus* LeConte. Jour. N. Y. Ent. Soc., viii,  
160.

*verbasci* Linnæus. Coleop. Ind., 597.

## Family BYRRHIDÆ.

**Cytilus** Erichson.

*alternatus* Say. *sericeus*. Coleop. Ind., 673.

**Syncalypta** Stephens.

*spinosa* Rossi. Mem. Coleop., iii, 17. (H. E. Smith.)

**Percinolus** Mulsant.

*undatus* Melsheimer. *murinus*. Coleop. Ind., 673.

**Byrrhus** Linnæus.

*americanus* LeConte. Coleop. Ind., 673.

## Family OSTOMIDÆ.

## (TROGOSITIDÆ.)

**Nemosoma** Latreille.

*parallelum* Melsheimer. Proc. Acad. Nat. Sci. Phila., ii, 108.

**Tenebroides** Piller and Metterpacker.

- americana** Kirby. Coleop. Ind., 665. (K.F.C.)  
**bimaculata** Melsheimer. *Ibid.*, 665. (C.S.)  
**corticalis** Melsheimer. *Ibid.*, 664.  
**mauritanica** Linnæus. *Ibid.*, 663.

**Thymalus** Duftschmid.

- fulgidus** Erichson. Coleop. Can., 733.

## Family NOSODENDRONIDÆ.

**Nosodendron** Latreille.

- unicolor** Say. Coleop. Ind., 672.

## Family NITIDULIDÆ.

**Brachypterus** Erichson.

- urticæ** Fabricius. Coleop. Ind., 630.

**Cercus** Latreille.

- abdominalis** Erichson. Coleop. Ind., 630.

**Carpophilus** Stephens.

- brachypterus** Say. Coleop. Ind., 633.  
**dimidiatus** Fabricius. *Ibid.*, 632.  
**hemipterus** Linnæus. *Ibid.*, 632.  
**niger** Say. *Ibid.*, 632.

**Colopterus** Erichson.*Colastus.*

- maculatus** Erichson. Trans. Am. Ent. Soc., vii, 282.  
**semitectus** Say. Coleop. Ind., 634.  
**truncatus** Randall. *Ibid.*, 634.  
**unicolor** Say. *Ibid.*, 634.

**Conotelus** Erichson.

- obscurus** Erichson. Coleop. Ind., 635.

**Epuræa** Erichson.

- avara** Randall. Coleop. Ind., 638.  
**helvola** Erichson. *Ibid.*, 637.  
**labilis** Erichson. *Ibid.*, 640.

**Nitidula** Fabricius.**rufipes** Linnæus. Coleop. Ind., 641.**ziczac** Say. *Ibid.*, 641.**Stelidota** Erichson.**geminata** Say. Coleop. Ind., 641.**octomaculata** Say. *Ibid.*, 641. (M.P.Z.)**Phenolia** Erichson.**grossa** Fabricius. Coleop. Ind., 642.**Osmosita** Erichson.**colon** Linnæus. Coleop. Ind., 643.**Lobiopa** Erichson.**undulata** Say. *Soronia*. Coleop. Ind., 643.**Oxycnemis** Erichson.**histrina** LeConte. *Psilopyga*. Coleop. Ind., 645. (A.B.C.)  
(H.B.K.)**Meligethes** Stephen.**æneus** Fabricius. *brassica* Scopoli. Coleop. Ind., 644.**Pallodes** Erichson.**silaceus** Erichson. *pallidus*. Coleop. Ind., 646.**Cychramus** Kugelan.**adustus** Erichson. Coleop. Ind., 647. (C.C.)**Cryptarcha** Shuckard.**ampla** Erichson. Coleop. Ind., 648.**Glischrochilus** Reitter.*Ips*.**confluentus** Say. Coleop. Ind., 650.**quadriguttatus** Fabricius. *fasciatus*. *Ibid.*, 649.**sanguinolentus** Olivier. *Ibid.*, 649.

## Family RHIZOPHAGIDÆ.

**Rhizophagus** Herbst.**approximatus** LeConte? Trans. Am. Ent. Soc., vii, 330.**bipunctatus** Say. Coleop. Ind., 651. (C.C.)**minutus** Mannerheim. *Ibid.*, 651. (C.C.)

## Family MONOTOMIDÆ.

**Europs** Wollaston.

*pallipennis* LeConte. Coleop. Ind., 669. (C.S.)

**Bactridium** LeConte.

*hudsoni* Casey. Mem. Coleop., vii, 99.

## Family CUCUJIDÆ.

**Silvanus** Latreille.

*bidentatus* Fabricius. Coleop. Ind., 562.

*imbellis* LeConte. *Ibid.*, 563.

*planatus* Germar. Trans. Amt. Ent. Soc., xi 72. (F.K.)

**Oryzæphilus** Ganglbauer.

*surinamensis* Linnæus. Saw-toothed grain weevil. Coleop. Ind., 562; Bur. Ent., Bull. iv. new ser. 121.

**Catogenus** Westwood.

*rufus* Fabricius. Coleop. Ind., 564.

**Cucujus** Fabricius.

*clavipes* Fabricius. Coleop. Ind., 565.

**Læmophilæus** Laporte.

*adustus* LeConte. Coleop. Ind., 567. (C.C.)

*biguttatus* Say. *Ibid.*, 567.

*convexus* LeConte. *Ibid.*, 566.

*fasciatus* Melsheimer. *Ibid.*, 567.

*pusillus* Schonherr. Trans. Am. Ent. Soc., xi, 93.

*testaceus* Fabricius. Coleop. Ind., 567. (C.C.)

**Lathropus** Erichson.

*vernalis* LeConte. Coleop. Ind., 568. (C.C.)

**Dendrophagus** Schonherr.

*glaber* LeConte. Coleop. Ind., 566.

**Brontes** Fabricius.

*debilis* LeConte. Coleop. Ind., 568. (C.C.)

*dubius* Fabricius. *Ibid.*, 568. (G.D.)

**Telephanus** Erichson.

*velox* Haldeman. Coleop. Ind., 567.



## Family EROTYLIDÆ.

**Languria** Latreille.*gracilis* Newman. Coleop. Ind., 543.*lecontei* Crotch. *Ibid.*, 543.*mozardi* Latreille. Clover stem borer. *Ibid.*, 542.*tædata* LeConte. Jour. N. Y. Ent. Soc., xii. 199. (H.B.K.)**Acroteroxys** Gorham.*lecontei* Crotch. Coleop. Ind., 543.**Megalodacne** Crotch.*fasciata* Fabricius. Coleop. Ind., 545.*heros* Say. *Ibid.*, 545.**Mycotretus** Lacordaire.\**sanguinipennis* Say. Coleop. Ind., 546. (K.F.C.)**Tritoma** Fabricius.*angulata* Say. Coleop. Ind., 548.*biguttata* Say. *Ibid.*, 548.*flavicollis* LeConte. *Ibid.*, 549.*humeralis* Fabricius. *Ibid.*, 547.*thoracica* Say. *Ibid.*, 549.*unicolor* Say. *Ibid.*, 548.

## Family DERODONTIDÆ.

**Laricobius** Rosenhauer.*erichsoni* Rosenhauer. *rubidus*. New Spec. N. A. Coleop., 99.

## Family CRYPTOPHAGIDÆ.

**Telmatophilus** Heer.*americanus* LeConte. Coleop. Ind., 573.**Loberus** LeConte.*impressus* LeConte. Coleop. Ind., 573. (C.C.)**Tomarus** LeConte.*pulchellus* LeConte. Coleop. Ind., 574.**Antherophagus** Latreille.*ochraceous* Melsheimer. Coleop. Ind., 574.

\* See also appendix.

**Cryptophagus** Herbst.

- cellaris* Scopoli. Coleop. Can., 295. (C.C.)  
*croceus* Zimmerman. Coleop. Ind., 576.  
*nodangulus* Zimmerman. *Ibid.*, 577.

**Cænoscelis** Thomson.

- ferruginea* Sahlberg. Coleop. Ind., 579.

**Atomaria** Stephens.

- curtula* Casey. Jour. N. Y. Ent. Soc., viii, 122.  
*ephippiata* Zimmerman. Coleop. Ind., 581.  
*ovalis* Casey. *Ibid.*, 581.  
*pusilla* Paykull. *Ibid.*, 580. (C.W.L.)

## Family MYCETOPHAGIDÆ.

**Mycetophagus** Hellwig.

- bipustulatus* Melsheimer. Coleop. Ind., 584. (C.C.)  
*flexuosus* Say. *Ibid.*, 584.  
*melsheimeri* LeConte. *Ibid.*, 584.  
*punctatus* Say. *Ibid.*, 584.

**Litargus** Erichson.

- didesmus* Say. Coleop. Ind., 586.  
*tetraspilotus* LeConte. *Ibid.*, 586. (A.B.C.)

**Typhæa** Stephens.

- fumata* Linnæus. Coleop. Ind., 587.

## Family COLYDIIDÆ.

**Synchita** Hellwig.

- fuliginosa* Melsheimer. Coleop. Ind., 551.

**Bitoma** Herbst.

- quadriguttata* Say. Coleop. Ind., 552.

**Colydium** Fabricius.

- lineola* Say. Coleop. Ind., 555. (C.S.)

**Cerylon** Latreille.

- castaneum* Say. Coleop. Ind., 557.  
*sticticum* Casey. Ann. N. Y. Acad. Sci., 1896, 336.

**Philothermus** Aubé.

- glabriculus* LeConte. Coleop. Ind., 557. (C.C.)

## Family LATHRIDIIDÆ.

**Lathridius** Herbst.**liratus** LeConte. Coleop. Ind., 653.**Enicmus** Thomson.**minutus** Linnæus. *Lathridius*. Coleop. Ind., 655.**Cartodere** Thomson.**fliformis** Gyllenhal. Coleop. Ind., 656.**ruficollis** Marsham. *publicarius*. Trans. Am. Ent. Soc., xxvi,  
137. (G.D.)**Corticaria** Marsham.**ferruginea** Marsham. *deleta*. Coleop. Ind., 658.**serrata** Paykull. *Ibid.*, 658.**Melanophthalma** Motschulsky*Corticaria*.**cavicollis** Mannerheim. Coleop. Ind., 661.**distinguenda** Comolli. *Ibid.*, 660.**picta** LeConte. *Ibid.*, 659. (C.C.)**pumila** LeConte. *Ibid.*, 660. (C.C.)

## Family MYCETÆIDÆ.

**Mycetæa** Stephens.**hirta** Marsham. Trans. Am. Ent. Soc., iv, 362. (G.D.)

## Family ENDOMYCHIDÆ.

**Endomychus** Panzer.**biguttatus** Say. Coleop. Ind., 537.**Lycoperdina** Latreille.**ferruginea** LeConte. Coleop. Ind., 538.**Aphorista** Gorham.**vittata** Fabricius. Coleop. Ind., 538.**Mycetina** Mulsant.**perpulchra** Newman. Coleop. Ind., 539. (C.C.)**Stenotarsus** Perty.**hispidus** Herbst. Coleop. Ind., 539. (C.C.)**testacea** Ziegler. *Mycetina*. Trans. Am. Ent. Soc., iv, 360.  
(G.D.)

## Family PHALACRIDÆ.

**Acylomus** Sharp.

*ergoti* Casey. Coleop. Ind., 500.

**Olibrus** Erichson.

*consimilis* Marsham. *Eustilbus apicalis*. Coleop. Ind., 500.  
(C.C.)

*pallipes* Say. *Ibid.*, 499.

*semistriatus* LeConte. *Ibid.*, 499.

**Phalacrus** Paykull.

*penicillatus* Say. Compl. Writ., ii, 230.

*politus* Melsheimer. Coleop. Ind., 498.

*pumilio* LeConte. *Ibid.*, 499.

## Family COCCINELLIDÆ.

**Hyperaspis** Redtenbacher.

*fimbriolata* Melsheimer. Coleop. Ind., 522.

*signata* Olivier var. *binotata* Say. *Ibid.*, 523: Conn. Agr.  
Expt. Sta., Bull. 181, 8.

*signata* var. *proba* Say. Coleop. Ind., 523.

*undulata* Say. *Ibid.*, 522.

**Brachyacantha** Chevrolat.

*ursina* Fabricius. Coleop. Ind., 520: Conn. Agr. Expt. Sta.,  
Bull. 181, 9.

**Microweisia** Cockerell.

*misella* LeConte. *Pentilia*. *Smilia*. Conn. Agr. Expt. Sta.,  
Rept. 1902, 128, Bull. 181, 8: Coleop. Ind., 524.

**Scymnus** Kugelan.

*americanus* Mulsant. Coleop. Ind., 528.

*brullei* Mulsant. Trans. Am. Ent. Soc., xxii, 101.

*collaris* Melsheimer. Coleop. Ind., 530.

*fraternus* LeConte. *Ibid.*, 529.

*puncticollis* LeConte. *Ibid.*, 530.

*tenebrosus* Mulsant. *Ibid.*, 531.

**Delphastus** Casey.

*pusillus* LeConte. Coleop. Ind., 519: Conn. Agr. Expt. Sta.,  
Bull. 181, 9.

**Coccidula** Kugelan.

**lepada** LeConte. Coleop. Ind., 533: Conn. Agr. Expt. Sta., Bull. 181, 6.

**Psyllobora** Chevrolat.

**viginti-maculata** Say. *20-maculata*. Twenty-spotted lady beetle. Coleop. Ind., 517: Conn. Agr. Expt. Sta., Bull. 181, 12.

**Anisosticta** Duponchel.

**seriata** Melsheimer. *Namia*. Jour. N. Y. Ent. Soc., vii, 75: Conn. Agr. Expt. Sta., Bull. 181, 22.

**strigata** Thunberg. Coleop. Ind., 510: Conn. Agr. Expt. Sta., Bull. 181, 23.

**Ceratomegilla** Crotch.

**fuscilabris** Mulsant, *Megilla*. Spotted lady beetle. Erroneously *maculata* DeGeer, a tropical species. Coleop. Ind., 510: Conn. Agr. Expt. Sta., Bull. 181, 21.

**Hippodamia** Mulsant.

**convergens** Guérin-Ménéville. Coleop. Ind., 512: Conn. Agr. Expt. Sta., Bull. 181, 18.

**glacialis** Fabricius. Coleop. Ind., 512: Conn. Agr. Expt. Sta., Bull. 181, 20.

**parenthesis** Say. Coleop. Ind., 511: Conn. Agr. Expt. Sta., Bull. 181, 20.

**tredecempunctata** Linnæus. *13-punctata*. Thirteen-spotted lady beetle. Coleop. Ind., 511: Conn. Agr. Expt. Sta., Bull. 181, 20.

**Coccinella** Linnæus.

**monticola** Mulsant. Jour. N. Y. Ent. Soc., vii, 89.

**novemnotata** Herbst. *9-notata*. Nine-spotted lady beetle. Coleop. Ind., 514: Conn. Agr. Expt. Sta., Bull. 181, 15.

**perplexa** Melsheimer. *trifasciata*. Jour. N. Y. Ent. Soc., vii, 89: Conn. Agr. Expt. Sta., 181, 16.

**transversoguttata** Fabricius. *5-notata*. Five-spotted lady beetle. Jour. N. Y. Ent. Soc., vii, 89: Conn. Agr. Expt. Sta., Bull. 181, 16.

**Cycloneda** Crotch.

**munda** Say. Red lady beetle. Erroneously *Coccinella sanguinea*, a tropical species. Coleop. Ind., 515: Conn. Agr. Expt. Sta., Bull. 181, 17.

**Adalia** Mulsant.

**bipunctata** Linnaeus. Two-spotted lady beetle. Coleop. Ind., 515; Conn. Agr. Expt. Sta., Bull. 181, 17.

**frigida** Schneider. Coleop. Ind., 516.

**frigida** var. **ophthalmica** Mulsant. *Ibid.*, 516. (K.F.C.)

**humeralis** Say. *bipunctata* (or *frigida*) var. *humeralis*. Jour. N. Y. Ent. Soc., vii, 85; Conn. Agr. Expt. Sta., Bull. 181, 18.

**Anisocalvia** Crotch.

**duodecimmaculata** Gebler. *12-maculata*. Jour. N. Y. Ent. Soc., vii, 97.

**Anatis** Mulsant.

**quindecimpunctata** Olivier. *15-punctata*. Fifteen-spotted lady beetle. Coleop. Ind., 516; Conn. Agr. Expt. Sta., Rept. 1909-10, 705. Bull. 181, 13.

**quindecimpunctata** var. **mali** Say. Coleop. Ind., 516. (K.F.C.)

**Neomysia** Casey.

**pullata** Say. *Mysia*. Jour. N. Y. Ent. Soc., vii, 99.

**Chilocorus** Leach.

**bivulnerus** Mulsant. Twice-stabbed lady beetle. Conn. Agr. Expt. Sta., Rept. 1902, 127; Bull. 165, 15; Bull. 181, 10; Coleop. Ind., 518.

**Harmonia** Authors not Mulsant.

**picta** Randall. *Cleis*. Jour. N. Y. Ent. Soc., xi, 205; Conn. Agr. Expt. Sta., Bull. 181, 14.

**similis** Randall. *Cleis*. *Anisocalvia*. Jour. N. Y. Ent. Soc., xi, 206.

**Epilachna** Chevrolat.

**borealis** Fabricius. Squash lady beetle. Conn. Agr. Expt. Sta., Rept. 1908, 810; Bull. 181, 11; Coleop. Ind., 532.

## Family ALLECULIDÆ.

## (CISTELIDÆ.)

**Lobopoda** Solier (or **Allecula** Fabricius).

**atra** Say. Ann. N. Y. Acad. Sci., vi, 82. (T.L.C.)

**Hymenorus** Mulsant.

**niger** Melsheimer. *nigrinus*. Coleop. Ind., 1274.

**pilosus** Melsheimer. *Ibid.*, 1274; Ann. N. Y. Acad. Sci., vi, 93.

- Pseudocistela** Crotch.  
*brevis* Say. Coleop. Ind., 1276.  
**Isomira** Mulsant.  
*quadriseriata* Couper. Coleop. Ind., 1277.  
*sericea* Say. *Cistela*. *Ibid.*, 1277.  
**Mycetochara** Berthold.  
*binotata* Say. *Mycetochares*. Coleop. Ind., 1281.  
**Chromatica** LeConte.  
*amœna* Say. Coleop. Ind., 1276. (A.B.C.) (H.B.K.)  
**Capnochroa** LeConte.  
*fuliginosa* Melsheimer. Coleop. Ind., 1282.  
**Androchirus** LeConte.  
*erythropus* Kirby. Coleop. Ind., 1283.

## Family TENEBRIONIDÆ.\*

- Hopatrinus** Latreille.  
*minimus* Beauvois. *notus*. Coleop. Ind., 1252.  
**Blapstinus** Latreille.  
*interruptus* Say. Coleop. Ind., 1253.  
*metallicus* Fabricius. *Ibid.*, 1253.  
*mœstus* Melsheimer. *Ibid.*, 1252.  
**Phaleria** Latreille.  
*testacea* Say. Long's Exp., ii, 280.  
**Bolitotherus** Candeze.  
*cornutus* Panzer. *bifurcus*. Coleop. Ind., 1267.  
**Bolitophagus** Illiger.  
*corticola* Say. Coleop. Ind., 1267.  
**Diaperis** Geoffroy.  
*maculata* Olivier. Coleop. Ind., 1261.  
**Hoplocephala** Laporte.  
*bicornis* Olivier. *Arrhenoplita*. Coleop. Ind., 1261.  
**Platydema** Laporte.  
*ellipticum* Fabricius. Coleop. Ind., 1263. (C.C.)  
*erythroceras* Laporte. *Ibid.*, 1263.  
*excavatum* Say. *Ibid.*, 1262.  
*ruficorne* Sturm. *Ibid.*, 1263.  
*subcostatum* Laporte. *Ibid.*, 1264.

\* See also appendix.

**Tribolium** MacLeay.

*confusum* Duval. Confused flour beetle. Coleop. Ind., 1255:  
Bur. Ent., new ser., Bull. iv, 113.

**Diœdus** LeConte.

*punctatus* LeConte. Coleop. Ind., 1256.

**Palorus** Mulsant.

*depressus* Fabricius. *melinus*. Illus. Besttabl. Kaf. Deutsch, 741.

**Uloma** Leporte.

*imprensa* Melsheimer. Coleop. Ind., 1257.

**Alphitobius** Stephens.

*diaperinus* Panzer. Coleop. Ind., 1257. (C.C.)

*piceus* Olivier. Illus. Besttabl. Kaf. Deutsch., 748.

**Hypophlœus** Fabricius.

*parallelus* Melsheimer. Coleop. Ind., 1266. (G.D.)

*tenuis* LeConte. Proc. Am. Phil. Soc., xvii, 422.

**Scotobates** Horn.

*calcaratus* Fabricius. Coleop. Ind., 1248.

**Xylopinus** LeConte.

*œnescens* LeConte. Coleop. Ind., 1249.

*saperdioides* Olivier. *Ibid.*, 1249. (G.D.)

**Hoplandrus** LeConte.

*fulvipes* Herbst. *femoratus*. Coleop. Ind., 1248

**Iphthimus** Truqui.

*opacus* LeConte. Coleop. Ind., 1247. (G.D.)

**Alobates** Motschulsky.

*pennsylvanica* DeGeer. *Nyctobates*. Coleop. Ind., 1247.

**Upis** Fabricius.

*ceramboides* Linnæus. Ent. Syst., ii, 515. (G.D.)

**Tenebrio** Linnæus.

*molitor* Linnæus. Yellow meal worm. Bur. Ent., new ser.  
Bull. iv, 116; Coleop. Ind., 1250.

*obscurus* Fabricius. Dark meal worm. Bur. Ent., new ser. Bull.  
iv, 117; Coleop. Ind., 1250.

*picipes* Herbst. *tenebroides*. Coleop. Ind., 1250.

**Helops** Fabricius.

*æreus* Germar. Coleop. Ind., 1268.

**Tarpela** Bates.

*micans* Fabricius. Coleop. Ind., 1268.



**Meracantha** Kirby.  
*contracta* Beauvois. Coleop. Ind., 1269.

**Strongylium** Kirby.  
*tenuicolle* Say. Coleop. Ind., 1270.

Family LAGRIIDÆ.

**Arthromacra** Kirby.  
*ænea* Say. Coleop. Ind., 1284.

**Statira** Latreille.  
*gagatina* Melsheimer. Coleop. Ind., 1285.

Family MELANDRYIDÆ.\*

**Penthe** Newman.  
*obliquata* Fabricius. Coleop. Ind., 1290.  
*pimelia* Fabricius. *Ibid.*, 1290. (G.D.)

**Synchroa** Newman.  
*punctata* Newman. Coleop. Ind., 1290.

**Eustrophinus** Seidletz.\*  
*bicolor* Say. *Eustrophus*. Trans. Am. Ent. Soc., xv. 34;  
 Coleop. Ind., 1292.

**Holostrophus** Horn.  
*bifasciatus* Say. Coleop. Ind., 1293. (G.D.)

**Orchesia** Latreille.  
*castanea* Melsheimer. Coleop. Ind., 1294.  
*gracilis* Melsheimer. *Ibid.*, 1294. (F.K.)

**Melandrya** Fabricius.  
*striata* Say. Coleop. Ind., 1296.

**Emmesa** Newman.  
*connectens* Newman. Ent. Mag., 5, 376.  
*labiata* Say. Coleop. Ind., 1296.

**Dircæa** Fabricius.  
*quadrifasciata* Say. *liturata*. Coleop. Ind., 1298.

**Hypulus** Paykull.  
*concolor* LeConte. Coleop. Ind., 1298. (C.C.)

\* See also appendix.

**Symphora** LeConte.**rugosa** Haldeman. Coleop. Ind., 1299. (C.C.)**Canifa** LeConte.**pallipes** Melsheimer. Coleop. Ind., 1301.**Mycterus** Clairville.**scaber** Haldeman. Trans. Am. Ent. Soc., vii. 337.

## Family PTINIDÆ.

**Ptinus** Linnæus.**fur** Linnæus. Coleop. Ind., 865. (K.F.C.)**villiger** Reitter. *Ibid.*, 865.

## Family ANOBIIDÆ.

**Xestobium** Motschulsky.**rufovillosum** DeGeer. *tessellatum*. Coleop. Ind., 868.**Ernobius** Thomson.**mollis** Linnæus. Coleop. Ind., 868.**Sitodrepa** Thomson.**panicea** Linnæus. Drug-store beetle. Coleop. Ind., 870.**Trichodesma** LeConte.**gibbosa** Say. Coleop. Ind., 871.**klagesi** Fall. *Ibid.*, 871. (A.B.C.)**Hadrobregmus** Thomson.**carinatus** Say. Coleop. Ind., 872.**Trypopytys** Redtenbacher.**sericeus** Say. Coleop. Ind., 872.**Xyletinus** Latreille.**peltatus** Harris. Coleop. Ind., 874.**Lasioderma** Stephens.**testaceum** Duftschmid. *serricorne*. Cigarette beetle. Coleop. Ind., 875; Rept. Conn. Agr. Expt. Sta., 1906. 278.**Dorcatoma** Herbst.**setulosum** LeConte. Coleop. Ind., 883. (C.C.)**Cænocara** Thomson.**oculata** Say. Coleop. Ind., 884.

## Family BOSTRICHIDÆ.

**Endecatomus** Mellié.**reticulatus** Herbst. Coleop. Ind., 887.**rugosus** Randall. *Ibid.*, 887.**Xylobiops** Casey.**basilare** Say. *Sinoxylon*. Coleop. Ind., 888.**Lichenophanes** Lesne.**armiger** LeConte. *Bostrichus*. Coleop. Ind., 888.**Bostrichus** Geoffroy.**angustus** Casey. Jour. N. Y. Ent. Soc., vi, 72.**bicornis** Weber. Coleop. Ind., 889. (C.C.)**Dinoderus** Stephens.**rugosus** Oliver. *porcatus* LeConte. Coleop. Ind., 890.**punctatus** Say. *Ibid.*, 890.

## Family LYCTIDÆ.

**Lyctus** Fabricius.**opaculus** LeConte. Coleop. Ind., 892.**linearis** Goeze. *striatus*. *unipunctatus*. Powder post beetle.  
Coleop. Ind., 891: Bur. Ent., Circ. 55.

## Family SPHINDIDÆ.

**Sphindus** Chevrolat.**americanus** LeConte. Coleop. Ind., 902. (C.C.)

## Family CISIDÆ.

**Orthocis** Casey.**punctulatus** Mellié. Coleop. Ind., 899.**Octotemnus** Mellié.**denudatus** Casey. Jour. N. Y. Ent. Soc., vi, 91.**Ceracis** Mellié.**sallei** Mellié. Coleop. Ind., 900.**Cis** Latreille.**dubius** Mellié. Ann. Soc. Ent. Fr., 2d. vi, 272.**fuscipes** Mellié. Coleop. Ind., 898.

sp.

**Xestocis** Casey.

*levettei* Casey. Coleop. Ind., 899.

**Ennearthron** Mellié.

*thoracicornis* Ziegler. Coleop. Ind., 900.  
sp.

## Family SCARABÆIDÆ.

**Canthon** Hoffman.

*lævis* Drury. Coleop. Ind., 914.

*nigricornis* Say. *Ibid.*, 914. (G.D.)

**Chœridium** Lepeletier.

*histeroides* Weber. Coleop. Ind., 915.

**Copris** Geoffroy.

*minutus* Drury. Coleop. Ind., 916.

*tullius* Olivier. *anaglypticus*. *Ibid.*, 916.

**Pinotus** Erichson.

*carolina* Linnæus. *Copris*. Coleop. Ind., 916.

**Phanæus** MacLeay.

*carnifex* Linnæus. Coleop. Ind., 917.

**Onthophagus** Latreille.

*hecate* Panzer. Coleop. Ind., 918.

*janus* Panzer. *Ibid.*, 919.

*janus* var. *orpheus* Panzer. *Ibid.*, 919. (A.H.Me.)

*janus* var. *striatulus* Beauvois. *Ibid.*, 919.

*pennsylvanicus* Harold. *Ibid.*, 920.

**Aphodius** Illiger.\*

*congregatus* Mann. Trans. Am. Ent. Soc., xiv. 12. (C.C.)

*distinctus* Müller. *inquinatus* Herbst. Coleop. Ind., 933.

*femoralis* Say. *Ibid.*, 934. (K.F.C.)

*finetarius* Linnæus. *Ibid.*, 930.

*fossor* Linnæus. Trans. Am. Ent. Soc., xiv. 4.

*granarius* Linnæus. Coleop. Ind., 931.

*terminalis* Say? *Ibid.*, 933.

*vittatus* Say. *Ibid.*, 931.

**Atænius** Harold.

*abditus* Haldeman. Coleop. Ind., 926. (C.C.)

*cognatus* LeConte. *Ibid.*, 926.

*gracilis* Melsheimer. *Ibid.*, 925.

\* See also appendix.

**Eucanthus** Westwood.

*lazerus* Olivier. *Bolboceras*. Coleop. Ind., 937.

**Bolbocerasoma** Schæffer.

*farctum* Fabricius. *Bolboceras*. Coleop. Ind., 937.

**Odontæus** Megerle.

*cornigerus* Melsheimer. Coleop. Ind., 938. (C.C.)

*flicornis* Say. *Ibid.*, 938. (C.C.)

**Geotrupes** Fabricius.

*balyi* Jekel. Trans. Am. Ent. Soc., viii. 145.

*blackburnii* Fabricius. Coleop. Ind., 939.

*egeriei* Germar. Trans. Am. Ent. Soc., viii. 145.

*hornii* Blanchard. Psyche v. 107.

*semiopacus* Jekel. Coleop. Ind., 939.

*splendidus* Fabricius. *Ibid.*, 939.

**Amphicoma** Latreille.

*vulpina* Hentz. Trans. Am. Ent. Soc., x. 120.

**Trox** Fabricius.

*æqualis* Say. Coleop. Ind., 946.

*capillaris* Say. *Ibid.*, 945.

*erinaceus* LeConte. *Ibid.*, 944. (C.C.)

*foveicollis* Harris. Trans. Am. Ent. Soc., v. 10.

*insularis* Chevrolat. Coleop. Ind., 945.

*scaber* Linnæus. *Ibid.*, 946.

*sordidus* LeConte. *Ibid.*, 945.

*terrestris* Say. *Ibid.*, 946.

*unistriatus* Beauvois. *Ibid.*, 945.

**Serica** Mac Leay.

*cucullata* Dawson. Jour. N. Y. Ent. Soc., xxvii, 34.

*sericea* Illiger. Coleop. Ind., 958.

*tristis* LeConte. *Ibid.*, 958.

*trociformis* Burmeister. *Ibid.*, 958.

*vespertina* Gyllenhal. *Ibid.*, 956.

**Diplotaxis** Kirby.

*atlantis* Fall. Trans. Am. Ent. Soc., xxxv. 44.

*liberta* Germar. Coleop. Ind., 954.

*sordida* Say. *Ibid.*, 955.

*tristis* Kirby. *Ibid.*, 954. (F.K.)

**Phyllophaga** Harris.*Lachnosterna* Hope.

May or June Beetles.

**anxia** LeConte. *dubia*. *insperata*. Coleop. Ind., 970.  
(J.K.L.)**crenulata** Frohlich. *Ibid.*, 979.**drakei** Kirby. *grandis*. *Ibid.*, 970.**fœrsteri** Burmeister. *nova*. *Ibid.*, 972.**fraterna** Harris. *Ibid.*, 972.**fusca** Frohlich. *Ibid.*, 968.**gracilis** Burmeister. *Ibid.*, 964.**hirsuta** Knoch. *Ibid.*, 974. (A.B.C.)**hirticula** Knoch. *Ibid.*, 976.**ilicis** Knoch. *ciliata*. *Ibid.*, 978.**marginalis** LeConte. *Ibid.*, 970. (A.B.C.)**micans** Knoch. *Ibid.*, 967. (C. W. F. Wagner.)**tristis** Fabricius. *Ibid.*, 979.**Polyphylla** Harris.**variolosa** Hentz. Trans. Am. Ent. Soc., ix. 75. (G.D.) (J.K.L.)**Dichelonyx** Harris.**albicollis** Burmeister. Coleop. Ind., 953.**diluta** Fall. *Ibid.*, 952.**elongata** Fabricius. *Ibid.*, 952.**testacea** Kirby. *Ibid.*, 951. (K.F.C.)**Hoplia** Illiger.**equina** LeConte. Trans. Am. Ent. Soc., viii. 193.**limbata** LeConte. *modesta*. Coleop. Ind., 950.**trifasciata** Say. *Ibid.*, 949.**Macroductylus** Latreille.**subspinosus** Fabricius. Rose chafer. Rose beetle. Bur.  
Ent., Circ. 11: Rept. Conn. Agr. Expt. Sta., 1916, 111.**Anomala** Samouelle.**binotata** Gyllenhal. Coleop. Ind., 982: Rept. Conn. Agr. Expt.  
Sta., 1902, 176.**Hemispilota** Casey.**lucicola** Fabricius. *Anomala*. Coleop. Ind., 985.

- Pelidnota** MacLeay.  
*punctata* Linnæus. Spotted grape-vine beetle. Coleop. Ind., 986.
- Cotalpa** Burmeister.  
*lanigera* Linnæus. Goldsmith beetle. Coleop. Ind., 987.
- Dyscinetus** Harold.  
*trachypygus* Burmeister. Coleop. Ind., 990.
- Ligyryus** Burmeister.  
*gibbosus* DeGeer. Coleop. Ind., 991.
- Ligyrodes** Casey.  
*relictus* Say. Coleop. Ind., 992.
- Aphonus** LeConte.  
*castaneus* Melsheimer. Mem. Coleop., vi, 220.  
*tridentatus* Say. Coleop. Ind., 992. (G.D.)
- Xyloryctes** Hope.  
*satyrus* Fabricius. Coleop. Ind., 992.
- Cotinis** Burmeister.  
*nitida* Linnæus. *Allorhina*. Coleop. Ind., 996.
- Euphoria** Burmeister.  
*fulgida* Fabricius. Coleop. Ind., 998.  
*inda* Linnæus. Bumble flower beetle. *Ibid.*, 998.
- Stephanucha** Burmeister.  
*areata* Fabricius. Coleop. Ind., 997.
- Cremastocheilus** Knoch.  
*canaliculatus* Kirby. Coleop. Ind., 1000.  
*castaneæ* Knoch. *Ibid.*, 1000.  
*harrisii* Kirby. *Ibid.*, 1000. (C.C.)  
*variolosus* Kirby. *Ibid.*, 999.
- Osmoderma** Lepeletier.  
*eremicola* Knoch. Coleop. Ind., 1001.  
*scabra* Beauvois. *Ibid.*, 1002.
- Gnorimella** Casey.  
*maculosus* Knoch. *Gnorimus*. Coleop. Ind., 1002.
- Trichionotus** Casey.  
*affinis* Gory. Coleop. Ind., 1004.  
*piger* Fabricius. *Ibid.*, 1003.
- Valgus** Scriba.  
*squamiger* Beauvois. Coleop. Ind., 1005.

## Family LUCANIDÆ.

**Lucanus** Linnæus.

*capreolus* Linnæus. *dama*. Stag beetle. Coleop. Ind., 905.

**Dorcus** MacLeay.

*parallelus* Say. Coleop. Ind., 906.

**Platycerus** Geoffroy.

*quercus* Weber. Coleop. Ind., 907.

**Ceruchus** MacLeay.

*piceus* Weber. Coleop. Ind., 907. (G.D.)

## Family PASSALIDÆ.

**Passalus** Fabricius.

*cornutus* Fabricius. Coleop. Ind., 908.

## Family CERAMBYCIDÆ.

**Parandra** Latreille.

*brunnea* Fabricius. Coleop. Ind., 1007.

**Derobrachus** Serville.

*brunneum* Fœrster. *Orthosoma*. Lesser Prionus. Coleop. Ind., 1011.

**Prionus** Geoffroy.

*laticollis* Drury. Broad-horned Prionus. Coleop. Ind., 1011.

*pocularis* Dalman. *Ibid.*, 1012. (A.H.Me.)

**Distenia** Serville.

*undata* Olivier. Coleop. Ind., 1043.

**Smodicum** Haldeman.

*cucujiforme* Say. Coleop. Ind., 1016.

**Asemum** Eschscholtz.

*mœstum* Haldeman. Coleop. Ind., 1014.

**Tetropium** Kirby.

*cinnamopterum* Kirby. Coleop. Ind., 1015.

**Criocephalus** Mulsant.

*argestis* Kirby. Coleop. Ind., 1015.

*obsoletus* Randall. *Ibid.*, 1015.

**Æme** Newman.

*rigida* Say. Bull. Brook. Ent. Soc., vii, 116.



**Tylonotus** Haldeman.**bimaculatus** Haldeman. Coleop. Ind., 1026.**Stromatium** Serville.**pubescens** Haldeman. Coleop. Ind., 1022.**Chion** Newman.**cinctus** Drury. Coleop. Ind., 1022. (A.H.Me.)**Romaleum** White.**atomarium** Drury. Coleop. Ind., 1023.**rufulum** Haldeman. *Ibid.*, 1023.**Hypermallus** Lacordaire.**villosum** Fabricius. *parallelum*. Twig pruner. Coleop. Ind., 1025.**Elaphidion** Serville.**mucronatum** Say. Coleop. Ind., 1024.**Pseudibion** Casey.**unicolor** Randall. Coleop. Ind., 1026.**Heterachthes** Newman.**ebenus** Newman. Mem. Coleop., iii, 307.**quadrimaculatus** Haldeman. Coleop. Ind., 1027.**Obrium** Serville.**rufulum** Gahan. *rubrum*. Coleop. Ind., 1028.**Rhagium** Fabricius.**lineatum** Olivier. Coleop. Ind., 1048.**Centrodera** LeConte.**decolorata** Harris. Coleop. Ind., 1048. (K.F.C.)**picta** Haldeman. *Ibid.*, 1048.**Stenocorus** Fabricius.**trivittatus** Say. *Torotus*. Coleop. Ind., 1047.**Hapalosalia** Casey.**vibex** Newman. *Leptura*. Coleop. Ind., 1059. (F.K.)**Acmæops** LeConte.**directa** Newman. Coleop. Ind., 1050.**thoracica** Haldeman. Ent. Am., vi, 104.**Gaurotes** LeConte.**cyanipennis** Say. Coleop. Ind., 1050.**Anthophilax** LeConte.**malachiticus** Haldeman. Ent. Amer., vi, 98. (M.P.Z.)

**Judolia** Mulsant.

*cordifera* Olivier. Ent. Am., vi, 188.

**Brachyleptura** Casey.

*rubrica* Say. Coleop. Ind., 1057.

**Parallelina** Casey.

*exigua* Newman. Coleop. Ind., 1056.

**Strongalepta** Casey.

*lineola* Say. Coleop. Ind., 1055.

*pubera* Say. *Ibid.*, 1059.

*vittata* Germar. *Ibid.*, 1059.

*vittata* var. *Ibid.*, 1059.

**Xestoleptura** Casey.

*octonotata* Say. Coleop. Ind., 1058.

**Strophiona** Casey.

*nitens* Færster. *zebra*. Coleop. Ind., 1056.

**Leptura** Linnæus.

*biforis* Newman. Mem. Coleop., iv, 271. (E.L.D.)

*canadensis* Olivier. Coleop. Ind., 1057. (K.F.C.)

*emarginata* Fabricius. *Ibid.*, 1055. (A.B.C.)

*hæmatites* Newman. Entomologist, 73. (C.W.L.)

*mutabilis* Newman. Coleop. Can., 623.

*vagans* Olivier. Coleop. Ind., 1057. (K.F.C.)

**Typocerus** LeConte.

*acuticauda* Casey. Mem. Coleop., iv, 274. (H.L.J.)

*velutinus* Olivier. Coleop. Ind., 1053.

**Ophistomis** Thomson.*Strangalia*.

*acuminata* Olivier. Coleop. Ind., 1051.

*famelica* Newman. *Ibid.*, 1051.

*luteicornis* Fabricius. *Ibid.*, 1052.

**Encyclops** Fabricius.

*cæruleus* Say. Coleop. Ind., 1045. (G.D.)

**Desmocerus** Serville.

*palliatu*s Færster. Coleop. Ind., 1044.

**Molorchus** Fabricius.

*bimaculatus* Say. Coleop. Ind., 1028.

**Merium** Kirby.

*proteus* Kirby. Coleop. Ind., 1019. (C.C.)

**Anacomis** Casey.

*ligneus* Fabricius. *Hylotrupes*. Coleop. Ind., 1019.

**Callidium** Fabricius.

*antennatum* Newman. Coleop. Ind., 1019.

*frigidum* Casey. Mem. Coleop., viii, 289.

*janthinum* LeConte. Coleop. Ind., 1019.

**Phymatodes** Mulsant.

*æreum* Newman. Coleop. Ind., 1019.

*amœnus* Say. *Ibid.*, 1018.

*dimidiatus* Kirby. *Ibid.*, 1018.

*variabilis* Fabricius. *Ibid.*, 1018.

*varius* Fabricius. *Ibid.*, 1018.

**Cyllene** Newman.

*caryæ* Gahan. *pictus*. Hickory borer. Coleop. Ind., 1033.

*robinæ* Fœrster. Locust borer. *Ibid.*, 1034: Bur. Ent., Cir., 83.

**Arhopalus** Serville.

*fulminans* Fabricius. Coleop. Ind., 1035.

**Glycobius** LeConte.

*speciosus* Say. *Plagionotus*. Maple borer. Rept. Conn. Agr.

Expt. Sta., 1900. 337: 1907. 336: Coleop. Ind., 1034.

**Calloides** LeConte.

*nobilis* Harris. Coleop. Ind., 1035.

**Xylotrechus** Chevrolat.

*aceris* Fisher. Proc. Wash. Ent. Soc., xviii, 215.

*colonus* Fabricius. Coleop. Ind., 1037.

*quadrimaculatus* Haldeman. *Ibid.*, 1036. (A.B.C.)

*sæggitatus* Germar. *Ibid.*, 1037. (A.B.C.)

*undulatus* Say. *Ibid.*, 1037.

*undulatus* var. *fuscus* Kirby. *Ibid.*, 1037.

**Neoclytus** Thomson.

*acuminatus* Fabricius. *erythrocephalus*. Coleop. Ind., 1038.

*capræa* Say. *Ibid.*, 1039.

*muricatulus* Kirby. *Ibid.*, 1038.

**Anthoboscus** Chevrolat.

*ruricola* Olivier. *Clytanthus*. Coleop. Ind., 1039.

**Clytus** Laichartig.

*marginicollis* Laporte. Coleop. Ind., 1040.

- Cyrtophorus** LeConte.  
*verrucosus* Olivier. Coleop. Ind., 1040.
- Tillomorpha** Blanchard.  
*geminata* Haldeman. Coleop. Ind., 1040. (A.B.C.)
- Eudercus** LeConte.  
*picipes* Fabricius. Coleop. Ind., 1041.
- Stenosphenus** Haldeman.  
*notatus* Olivier. Coleop. Ind., 1032.
- Purpuricenus** Serville.  
*axillaris* Haldeman. Coleop. Ind., 1031. (A.B.C.)  
*humeralis* Fabricius. *Ibid.*, 1030.
- Batyleoma** Casey.  
*suturalis* Say. *Batyle.* Coleop. Ind., 1031.
- Cyrtinus** LeConte.  
*pygmæus* Haldeman. Coleop. Ind., 1062. (A.B.C.)
- Psenocerus** LeConte.  
*supernotatus* Say. Coleop. Ind., 1062.
- Monohammus** Serville.  
*notatus* Drury. *confusor.* Trans. Am. Ent. Soc., xxiii, 109.  
*marmorator* Kirby. *Ibid.*, xxiii, 109.  
*scutellatus* Say. Coleop. Ind., 1065.  
*titillator* Fabricius. *Ibid.*, 1064.
- Dorcaschema** LeConte.  
*nigrum* Say. Coleop. Ind., 1066. (D.J.C.)
- Hetœmis** Haldeman.  
*cinerea* Olivier. Coleop. Ind., 1066.
- Cacoplia** LeConte.  
*pullata* Haldeman. Trans. Am. Ent. Soc., xxiii, 111.
- Goes** LeConte.  
*pulchra* Haldeman. Coleop. Ind., 1067.  
*pulverulenta* Haldeman. *Ibid.*, 1067.  
*tigrina* DeGeer. Coleop. Ind., 1067.
- Ægomorphus** Haldeman.  
*decipiens* Haldeman. *Acanthoderes.* Coleop. Ind., 1070.
- Leptostylus** LeConte.\*  
*collaris* Haldeman. Coleop. Ind., 1071.  
*guttata* Say. *sexguttata.* *Ibid.*, 1072.

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\* See also appendix.

**Astylopsis** Casey.

*macula* Say. Coleop. Ind., 1072.

**Leiopus** Serville.

*alpha* Say. Coleop. Ind., 1074.

*punctatus* Haldeman. *Ibid.*, 1074. (C.C.)

*variegatus* Haldeman. *Ibid.*, 1074.

**Lepturges** Bates.

*querci* Fitch. Coleop. Ind., 1077.

*facetus* Say. *Ibid.*, 1077.

*signatus* LeConte. *Ibid.*, 1076.

*symmetricus* Haldeman. *Ibid.*, 1076.

**Hyperplatys** Haldeman.

*aspersus* Say. Coleop. Ind., 1078.

*maculatus* Haldeman. *Ibid.*, 1078.

**Urographis** Horn.

*fasciatus* DeGeer. *Graphisurus*. Coleop. Ind., 1079.

**Dectes** LeConte.

*spinosus* Say. Coleop. Ind., 1075.

**Hoplosia** Mulsant.

*nubila* LeConte. Trans. Am. Ent. Soc., xxiii, 134.

**Pogonocherus** Latreille.

*mixtus* Haldeman. Coleop. Ind., 1081.

**Encyrus** LeConte.

*dasycerus* Say. Coleop. Ind., 1081.

**Eupogonius** LeConte.

*vestitus* Say. Coleop. Ind., 1082. (A.B.C.) (H.B.K.)

**Oncideres** Serville.

*cingulata* Say. Hickory twig-girdler. Fifth Rept., U. S. Ent. Com., 288.

**Saperda** Fabricius.

*candida* Fabricius. Round-headed apple borer. Rept. Conn. Agr. Expt. Sta., 1907. 333: N. Y. State Mus., Bull. 74. 23.

*calcarata* Say. Poplar borer. Coleop. Ind., 1086. N. Y. State Mus. Bull. 74. 39.

*concolor* LeConte. var. *unicolor* Joutel. Willow Borer. N. Y. State Mus. Bull. 74. 74: Coleop. Ind., 1086.

- cretata* Newman. Spotted apple tree borer. Coleop. Ind., 1088. N. Y. State Mus., Bull. 74. 50. (C.C.)
- discoidea* Fabricius. Hickory borer. Coleop. Ind., 1089. N. Y. State Mus., Bull. 74. 52.
- lateralis* Fabricius. Red-edged Saperda. Coleop. Ind., 1088: N. Y. State Mus., Bull. 74, 59.
- mœsta* LeConte. Coleop. Ind., 1085. N. Y. State Mus., Bull. 74. 71. (C.C.)
- obliqua* Say. Alder borer. N. Y. State Mus., Bull. 74, 18.
- puncticollis* Say. Coleop. Ind., 1085. (A.B.C.)
- tridentata* Olivier. Elm borer. Coleop. Ind., 1087. N. Y. State Mus., Bull. 74, 44.
- vestita* Say. Linden borer. Coleop. Ind., 1089: N. Y. State Mus. Bull. 74. 54.

**Oberea** Mulsant.\*

- bimaculata* Olivier var. *basalis*. LeConte. Coleop. Ind., 1092.
- ocellata* Haldeman. *Ibid.*, 1092.
- ruficollis* Fabricius. Trans. Am. Ent. Soc., vii, 47.
- schaumii* LeConte. Coleop. Ind., 1091. (F.K.)
- tripunctata* Swederus. *Ibid.*, 1092.
- tripunctata* var. *mandarina* Fabricius. Trans. Am. Ent. Soc., vii, 47.

**Tetraopes** Serville.

- canteriator* Drapiez. Coleop. Ind., 1094.
- tetraophthalmus* Fœrster. *Ibid.*, 1094.

Family CHRYSOMELIDÆ.

**Donacia** Fabricius.

- cincticornis* Newman. Coleop. Ind., 1102.
- dives* LeConte. Proc. Acad. Nat. Sci. Phila., v, 314.
- emarginata* Kirby. Coleop. Ind., 1106.
- flavipes* Kirby. *Ibid.*, 1106.
- hirticollis* Kirby. Trans. Am. Ent. Soc., xviii, 164.
- metallica* Ahrens. Coleop. Ind., 1106.
- palmata* Olivier. *Ibid.*, 1102.
- piscatrix* Lacordaire. *Ibid.*, 1103. (K.F.C.)
- rufa* Say. *Ibid.*, 1107.
- subtilis* Kunze. *Ibid.*, 1103.
- torosa* LeConte. *Ibid.*, 1102.

\* See also appendix.

*tuberculata* Lacordaire. Trans. Am. Ent. Soc., xviii, 171.  
*harrisi* LeConte. *Ibid.*, 172.  
 sp.

**Orsodacna** Latreille.

*atra* Ahrens. var. *hepatica* Say. Coleop. Ind., 1108.  
*atra* Ahrens var. *vittata* Say. *Ibid.*, 1108.

**Zeugophora** Kunze.

*consanguinea* Crotch. Coleop. Ind., 1109.  
*scutellaris* Suffrian. *Ibid.*, 1109.

**Syneta** Lacordaire.

*ferruginea* Germar. Coleop. Ind., 1110.

**Lema** Fabricius.

*brunnicollis* Lacordaire. Coleop. Ind., 1111. (A.B.C.)  
*conjuncta* Lacordaire. Proc. Phila. Acad. Nat. Sci., 1873, 25.  
*trilineata* Olivier. Old-fashioned potato beetle. Coleop. Ind.,  
 1111.

**Crioceris** Geoffroy.

*asparagi* Linnæus. Common asparagus beetle. Conn. Agr.  
 Expt. Sta., 1902, 172: Bur. Ent., Circ., 102.  
*duodecimpunctata* Linnæus. Twelve-spotted asparagus beetle.  
 Bur. Ent., Circ. 102. 9.

**Antipus** DeGeer.

*laticlavata* Fœrster. *Anomala*. Coleop. Ind., 1113.

**Coscinoptera** Lacordaire.

*dominicana* Fabricius. Coleop. Ind., 1113.

**Babia** Chevrolat.

*quadriguttata* Olivier. Coleop. Ind., 1114.

**Saxinis** Lacordaire.

*omogera* LeConte. Coleop. Ind., 1114. (G.D.)

**Chlamys** Knoch.

*gibbosa* Fabricius. *plicata*. Coleop. Ind., 1115.

**Exema** Lacordaire.

*conspersa* Mannerheim. Proc. U. S. Nat. Mus., xx, 480.

**Bassareus** Haldeman.

*formosus* Melsheimer. Coleop. Ind., 1119.  
*formosus* var. *sulphuripennis* Melsheimer. *Ibid.*, 1119.  
*literatus* Fabricius. *Ibid.*, 1120.

*literatus* var. *lativittus* Germar. *Ibid.*, 1120.  
*mammifer* Newman. *Ibid.*, 1119. (G. D.)  
*sellatus* Suffrian. *Ibid.*, 1119.

**Cryptocephalus** Geoffroy.

*insertus* Haldeman. *Coleop. Ind.*, 1123.  
*mutabilis* Melsheimer. *Ibid.*, 1123.  
*notatus* Fabricius var. *quadrimaculatus* Say. *Ibid.*, 1122.  
*ornatus* Fabricius. *Trans. Am. Ent. Soc.*, xviii, 201. (H.L.J.)  
*quadruplex* Newman. *Coleop. Ind.*, 1122. (A.B.C.)  
*trivittatus* Olivier. *Ibid.*, 1123.  
*venustus* Fabricius. *Ibid.*, 1123.  
*venustus* var. *cinctipennis* Randall. *Ibid.*, 1123.  
*venustus* var. *hamatus* Melsheimer. *Ibid.*, 1123. (A.B.C.)  
*venustus* var. *ornatus* Fabricius. *Ibid.*, 1123. (H.L.J.)

**Pachybrachys** Chevrolat.

*atomarius* Melsheimer. *infaustus*. *Coleop. Ind.*, 1129.  
*carbonarius* Haldeman. *Ibid.*, 1127.  
*confederatus* Fall. *Trans. Am. Ent. Soc.*, xli, 387.  
*femoratus* Olivier. *Coleop. Ind.*, 1131.  
*hepaticus* Melsheimer. *Ibid.*, 1130.  
*luridus* Fabricius. *Ibid.*, 1130.  
*m-nigrum* Melsheimer. *intricatus*. *Trans. Am. Ent. Soc.*, viii,  
 207.  
*othonus* Say. *Coleop. Ind.*, 1128.  
*pubescens* Olivier. *morosus*. *Trans. Am. Ent. Soc.*, viii, 206.  
*subfasciatus* LeConte. *Coleop. Ind.*, 1130.  
*tridens* Melsheimer. *Ibid.*, 1129.  
*trinitatus* Melsheimer. *Ibid.*, 1128.

**Monachus** Chevrolat.

*saponatus* Fabricius. *Coleop. Ind.*, 1133.

**Diachus** LeConte.

*auratus* LeConte. *Coleop. Ind.*, 1133.  
*pallidicornis* Suffrian. *Ibid.*, 1133.

**Triachus** LeConte.

*atomus* Suffrian. *Coleop. Ind.*, 1134.  
*cerinus* LeConte. *Trans. Am. Ent. Soc.*, viii, 197. (G.D.)

**Chrysodina** Baly.

*globosa* Say. *Trans. Am. Ent. Soc.*, xix, 233.



**Nodonota** Lefèvre.

*puncticollis* Say. Coleop. Ind., 1149: Trans. Am. Ent. Soc.,  
xix, 232.

**Colaspis** Fabricius.

*brunnea* Fabricius. Brown Colaspis. Coleop. Ind., 1147.

**Graphops** LeConte.

*pubescens* Melsheimer. Coleop. Ind., 1144.

**Xanthonia** Baly.

*decemnotata* Say. Coleop. Ind., 1142.

*villosula* Melsheimer. *Ibid.*, 1142.

**Fidia** Baly.

*viticida* Walsh. Grape vine root worm. Coleop. Ind., 1143:  
N. Y. State Mus., Bull. 72.

**Metachroma** LeConte.

*pallida* Say. Coleop. Ind., 1146.

**Adoxus** Kirby.

*obscurus* Linnaeus. Coleop. Ind., 1136.

**Tymnes** Chapuis.

*tricolor* Fabricius. Coleop. Ind., 1141.

**Glyptoscelis** LeConte.

*barbata* Say. Coleop. Ind., 1137.

*pubescens* Fabricius. *Ibid.*, 1137.

**Paria** LeConte.*Typhorus*.

*canellus* Fabricius var. *aterrimus* Olivier. Coleop. Ind., 1139.

*canellus* var. *gilvipes* Horn. Trans. Am. Ent. Soc., xix, 208.

*canellus* var. *notatus* Say. Compl. Writ., ii, 213.

*canellus* var. *pumilis* LeConte. Coleop. Ind., 1139.

*canellus* var. *quadriguttatus* Horn. Coleop. Ind., 1140.

*canellus* var. *quadrinotatus* Say. *Ibid.*, 1139.

*canellus* var. *thoracicus* Melsheimer. *Ibid.*, 1139.

**Chrysochus** Chevrolat.

*auratus* Fabricius. Coleop. Ind., 1141.

**Prasocuris** Latreille.

*phellandrii* Linnaeus. Coleop. Ind., 1151.

*vittata* Olivier. Coleop. Ind., 1151. (K.F.C.)

**Labioderma** Chevrolat.

*clivicollis* Kirby. Coleop. Ind., 1152: Jour. N. Y. Ent. Soc., iv, 195.

**Leptinotarsa** Stål.

*decemlineata* Say. *Doryphora*. *10-lineata*. Colorado potato beetle. Potato bug. Coleop. Ind., 1153: Conn. Agr. Expt. Sta., Bull. 208, 106.

**Zygogramma** Chevrolat.

*suturalis* Fabricius. Coleop. Ind., 1154: Jour. N. Y. Ent. Soc., iv, 197.

**Calligrapha** Erichson.

*elegans* Olivier. *Chrysomela*. Coleop. Ind., 1156: Jour. N. Y. Ent. Soc., iv, 198.

*lunata* Fabricius. *hybrida*. Jour. N. Y. Ent. Soc., iv, 198.

*multipunctata* Say. var. *bigsbiana* Kirby. *Chrysomela*. Coleop. Ind., 1158: Jour. N. Y. Ent. Soc., iv, 199.

*philadelphica* Linnæus. Coleop. Ind., 1158.

*philadelphica* var. *spireæ* Say. Jour. N. Y. Ent. Soc., xiv, 199.

*rhoda* Knab. Proc. Wash. Ent. Soc., xi, 83. (G.D.)

*rowena* Knab. *Ibid.*, xi, 85. (G.D.)

*scalaris* LeConte. *Chrysomela*. Coleop. Ind., 1157: Jour. N. Y. Ent. Soc., iv, 199.

*similis* Rogers. Coleop. Ind., 1156.

**Phædon** Latreille.

*armoraciæ* Linnæus *cochleariæ* Gyllenhal. *Plagioderæ*. Can. Ent., xxviii, 202.

**Gastroidea** Hope.

*cyanea* Melsheimer. Coleop. Ind., 1159.

*polygoni* Linnæus. *Ibid.*, 1159.

**Lina** Megerle.

*lapponica* Linnæus. *Melasoma*. *interrupta*. Coleop. Ind., 1160.

*scripta* Fabricius. Cottonwood leaf beetle. *Ibid.*, 1160. N. Y. Agr. Expt. Sta., Bull. 143.

*tremulæ* Fabricius. Coleop. Ind., 1160.

**Phyllodecta** Kirby.

*vulgatissima* Linnæus. Can. Ent., xxviii, 203.

**Cerotoma** Chevrolat.

*trifurcata* Fœrster. Coleop. Ind., 1163: Trans. Am. Ent. Soc., xx, 129: Rept. Conn. Agr. Expt. Sta., 1918, 327.

**Trirhabda** LeConte.*canadensis* Kirby. Coleop. Ind., 1165.*virgata* LeConte. *Ibid.*, 1166.**Agelasa** Motschulsky.*halensis* Linnæus. Coleop. Ind., 1164.**Galerucella** Crotch.*americana* Fabricius. Coleop. Ind., 1167.*cavicornis* LeConte. *Ibid.*, 1169.*decora* Say. *Ibid.*, 1170.*integra* LeConte. *Ibid.*, 1167.*luteola* Müller. Conn. Agr. Expt. Sta., Bull. 55 and Rept., 1908.*notata* Fabricius. Coleop. Ind., 1168.*nymphææ* Linnæus. *Ibid.*, 1169; Bur. Ent. Soc., Bull. 54, 58.**Monoxia** LeConte.*puncticornis* Say. *maritima*. Trans. Am. Ent. Soc., xx, 83.**Diabrotica** Chevrolat.\**atripennis* Say var. *crispata* Harris. Trans. Am. Ent. Soc., xx, 95.*atripennis* var. *fossata* LeConte. *Ibid.*, xx, 95.*duodecimpunctata* Olivier. *12-punctata*. Coleop. Ind., 1172; Rept. Conn. Agr. Expt. Sta., 1908, 809.*vittata* Fabricius. Striped cucumber beetle. Coleop. Ind., 1173; Rept. Conn. Agr. Expt. Sta., 1908, 807; 1917, 262.**Phyllobrotica** Redtenbacher.*discoidea* Fabricius. Coleop. Ind., 1175.*limbata* Fabricius. *Ibid.*, 1175. Trans. Am. Ent. Soc., xx, 100.**Luperodes** Motschulsky.*meraca* Say. Coleop. Ind., 1176.**Blepharida** Rogers.*rhois* Færster. Coleop. Ind., 1208.**Edionychis** Latreille.*imbriata* Færster. Coleop. Ind., 1183.*limbalis* Melsheimer var. *subvittata* Horn. Trans. Am. Ent. Soc., xvi, 193.*miniata* Fabricius. Coleop. Ind., 1183.*quercata* Fabricius. *Ibid.*, 1185. (G.D.)*sexmaculata* Illiger. *Ibid.*, 1184.*thoracica* Fabricius. *Ibid.*, 1182.*vians* Illiger. *Ibid.*, 1182.

\* See also appendix.

**Disonycha** Chevrolat.

- caroliniana* Fabricius. Coleop. Ind., 1188.  
*collata* Fabricius. *Ibid.*, 1191. (G.D.)  
*funerea* Randall. Trans. Am. Ent. Soc., xvi, 208.  
*pennsylvanica* Illiger. Coleop. Ind., 1187.  
*quinquevittata* Say. *Ibid.*, 1188.  
*triangularis* Say. *Ibid.*, 190.  
*xanthomelæna* Dalman. *collaris*. *Ibid.*, 1190. (G.D.)

**Luperaltica** Crotch.

- fuscula* LeConte. Coleop. Ind., 1203.

**Altica** Geoffroy.

- bimarginata* Say. Alder flea beetle. Coleop. Ind., 1201.  
*corni* Woods. Me. Agr. Expt. Sta., Bull., 273, 156.  
*chalybea* Illiger. Coleop. Ind., 1201.  
*fuscoænea* Melsheimer. *Ibid.*, 1202. (G.D.)  
*ignita* Illiger. *Ibid.*, 1201.  
*marevagans* Horn. Trans. Am. Ent. Soc., xvi, 226.  
*rosæ* Woods. Me. Agr. Expt. Sta., Bull. 273, 174.  
*rufa* Illiger. Coleop. Ind., 1200.  
*torquata* LeConte. Me. Agr. Expt. Sta., Bull. 273, 194.  
*ulmi* Woods. *Ibid.*, Bull. 273, 182.

**Crepidodera** Chevrolat.

- atriventris* Melsheimer. Coleop. Ind., 1214. (G.D.)  
*helxines* Linnaeus. *Ibid.*, 1214.  
*modeeri* Linnaeus. *Ibid.*, 1214.

**Epitrix** Foudras.

- cucumeris* Harris. Cucumber flea beetle. Coleop. Ind., 1217.  
*parvula* Fabricius. *Ibid.*, 1218. (G.D.)

**Orthaltica** Crotch.

- copalina* Fabricius. Coleop. Ind., 1215.

**Mantura** Stephens.

- floridana* Crotch. Coleop. Ind., 1219. (G.D.)

**Chætocnema** Stephens.

- confinis* Crotch. Coleop. Ind., 1212.  
*denticulata* Illiger. *Ibid.*, 1210.  
*minuta* Melsheimer. *Ibid.*, 1210.  
*pulicaria* Melsheimer. *Ibid.*, 1212.

**Systema** Clark.

- frontalis* Fabricius. Coleop. Ind., 1220.  
*hudsonias* Fœrster. *Ibid.*, 1220.  
*marginalis* Illiger. *Ibid.*, 1221.  
*tæniata* Say. *Ibid.*, 1221.  
*tæniata* var. *blanda* Melsheimer. *Ibid.*, 1221.

**Longitarsus** Latreille.

- insolens* Horn. Trans. Am. Ent. Soc., xvi, 286.  
*melanurus* Melsheimer. Coleop. Ind., 1193.

**Phyllotreta** Foudras.

- armoriacæ* Koch. Coleop. Ind., 1198.  
*bipustulata* Fabricius. *Ibid.*, 1198.  
*chalybeipennis* Crotch. Trans. Am. Ent. Soc., xvi, 300.  
*sinuata* Stephens. Coleop. Ind., 1197.  
*vittata* Fabricius. *Ibid.*, 1197.

**Dibolia** Chevrolat.

- borealis* Chevrolat. *area*. Coleop. Ind., 1222.

**Psylliodes** Latreille.

- punctulata* Melsheimer. Coleop. Ind., 1222.

**Stenispa** Baly.

- metallica* Fabricius. Coleop. Ind., 1228.

**Anoplitis** Chapuis.

- nervosa* Panzer. *Chalcopus*. *Odontota*. Coleop. Ind., 1228.

**Chalepus** Thunberg.

- bicolor* Olivier. *Odontota*. Coleop. Ind., 1226.  
*dorsalis* Thunberg. *Ibid.*, 1227.  
*hornii* Smith. *Odontota*. *Ibid.*, 1227.  
*notata* Olivier. *Odontota*. Trans. Am. Ent. Soc., x, 296.  
*scapularis* Olivier. *Odontota*. Coleop. Ind., 1226.

**Baliosus** Weise.

- rubra* Weber. *Chalcopus*. *Odontota*. Coleop. Ind., 1227.

**Uroplata** Baly.

- porcata* Melsheimer. Trans. Am. Ent. Soc., x, 294.

**Microrhopala** Chevrolat.

- vittata* Fabricius. Coleop. Ind., 1224.  
*xerene* Newman. *Ibid.*, 1225.

**Chelymorpha** Chevrolat.

*cassidea* Fabricius. *argus*. Coleop. Ind., 1233.

**Chirida** Chapuis.

*guttata* Olivier. *Coptocyclus signifera*. Coleop. Ind., 1232.

**Deloyala** Chevrolat.

*clavata* Fabricius. *Coptocyclus*. Coleop. Ind., 1232: Rept. Conn. Agr. Expt. Sta., 1918, 110.

**Metriona** Weise.

*bicolor* Fabricius. *Coptocyclus aurichalcea*. Coleop. Ind., 1231.

*purpurata* Boheman. *Coptocyclus*. *Ibid.*, 1232. (K.F.C.)

## Family MYLABRIDÆ.

## (BRUCHIDÆ.)

**Spermophagus** Schonherr.

*hoffmannseggi* Gyllenhal. *robinia* Fabricius. Coleop. Ind., 1235.

**Bruchus** Linnæus.

*calvus* Horn. Coleop. Ind., 1239.

*nigrinus* Horn. Trans. Am. Ent. Soc., iv, 327.

*obtectus* Say. Bean weevil. Coleop. Ind., 1240.

*pisorum* Linnæus. Pea weevil. *Ibid.*, 1236.

*quadrimaculatus* Fabricius. Trans. Am. Ent. Soc., iv, 318.

**Zabrotes** Horn.

*subnitens* Horn. Trans. Am. Ent. Soc., xii, 158.

## Family BRENTIDÆ.

**Eupsalis** LeConte.

*minuta* Drury. Oak timber worm. Ins. Aff. Park and Woodl. Trees, 261: Rhyn. N. E. Am., 20.

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## Family BELIDÆ.

**Ithycerus** Schonherr.

*noveboracensis* Fœrster. New York weevil. Rept. Conn. Agr. Expt. Sta., 1908, 845: Rhyn. N. E. Am., 92.

## Family PLATYSTOMIDÆ.

## (ANTHRIBIDÆ.)

**Eurymycter** LeConte.**fasciatus** Olivier. Rhyn. N. E. Am., 30.**Euparius** Schonherr.**marmoreus** Olivier. *Cratoparis lunatus*. Rhyn. N. E. Am., 37;  
Ins. Aff. Park and Woodl. Trees, 499.**Brachytarsus** Schonherr.**sticticus** Boheman. *variegatus*. Rhy. N. E. Am., 39.**tomentosus** Say. *Ibid.*, 40.**Anthribulus** LeConte.**rotundatus** LeConte. Rhyn. N. E. Am., 41.

## Family CURCULIONIDÆ.

**Auletes** Schonherr.**albovestita** Blatchley. Rhyn. N. E. Am., 54.**ater** LeConte. *Ibid.*, 53.**Eugnamptus** Schonherr.**angustatus** Gyllenhal. Rhyn. N. E. Am., 56.**collaris** Fabricius var. **nigripes** Melsheimer. *Ibid.*, 56.**Rhynchites** Herbst.**æratus** Say. Rhyn. N. E. Am., 59.**bicolor** Fabricius. Rose weevil. *Ibid.*, 58.**hirtus** Fabricius. *Ibid.*, 59.**Attelabus** Linnæus.**analisis** Illiger. Rhyn. N. E. Am., 62.**bipustulatus** Fabricius. *Ibid.*, 63. (A.B.C.) (H.B.K.)**nigripes** LeConte. *Ibid.*, 62.**rhois** Boheman. *Ibid.*, 64.**Pterocolus** Schonherr.**ovatus** Fabricius. Rhyn. N. E. Am., 65.

**Apion** Herbst.

- coxale* Fall. Rhyn. N. E. Am., 77.  
*griseum* Smith. *Ibid.*, 80.  
*herculanum* Smith. *Ibid.*, 89. (A.B.C.) (H.B.K.)  
*nigrum* Herbst. *Ibid.*, 82.  
*patruelle* Smith. *Ibid.*, 78.  
*rostrum* Say. *Ibid.*, 81.

**Hormorus** Horn.

- undulatus* Uhler. Rept. Conn. Agr. Expt. Sta., 1905, 259:  
 Rhyn. N. E. Am., 100.

**Panscopus** Schonherr.

- erinaceus* Say. *Barynotus*. Rhyn. N. E. Am., 104.

**Phylexis** Schonherr.

- rigidus* Say. *Barynotus*. Rhyn. N. E. Am., 107.

**Otiorhynchus** Germar.

- ovatus* Linnaeus. Strawberry crown girdler. Rept. Conn. Agr.  
 Expt. Sta., 1909, 370: Rhyn. N. E. Am., 111.  
*sulcatus* Fabricius. Rept. Conn. Agr. Expt. Sta., 1913, 230:  
 Rhyn. N. E. Am., 111.

**Pandeletejus** Schonherr.

- hilaris* Herbst. Rhyn. N. E. Am., 120.

**Aphrastus** Schonherr.

- tæniatus* Gyllenhal. Rhyn. N. E. Am., 127.

**Polydrusus** Germar.

- impressifrons* Gyllenhal. Rhyn. N. E. Am., 130: N. Y.  
 (Geneva) Agr. Expt. Sta., Tech. Bull. 56.

**Scythropus** Schonherr.

- elegans* Couper. Rhyn. N. E. Am., 131.

**Barypeithes** Duval.

- pellucidus* Boheman. Rhyn. N. E. Am., 133.

**Sitona** Schonherr.

- flavescens* Marsham. Rhyn. N. E. Am., 142.  
*hispidula* Germar. *Ibid.*, 141.

**Hypera** Germar.

- punctatus* Fabricius. Clover leaf beetle. Ins. Ill., xxv, 83:  
 Rhyn. N. E. Am., 146.



**Phytonomus** Schonherr.

*meles* Fabricius. Rhyn. N. E. Am., 150.

*nigrirostris* Fabricius. *Ibid.*, 150.

sp.

**Listronotus** Jekel.

*inæqualipennis* Boheman. Rhyn. N. E. Am., 156.

*laticusculus* Boheman. *Ibid.*, 161.

*tuberosus* LeConte. *Ibid.*, 154.

**Hyperodes** Jekel.

*humilis* Gyllenhal. Rhyn. N. E. Am., 176.

*solutus* Boheman. *Ibid.*, 166.

sp.

**Pissodes** Germar.

*affinis* Randall. Rhyn. N. E. Am., 183.

*approximatus* Hopkins. *Ibid.*, 181.

*strobi* Peck. White Pine Weevil. *Ibid.*, 180. Rept. Conn. Agr. Expt. Sta., 1919, 144.

**Hylobius** Germar.

*pales* Herbst. Proc. Am. Phil. Soc., xv, 140; Rhyn. N. E. Am. 186.

*confusus* Kirby. Rhyn. N. E. Am., 187.

**Dorytomus** Stephens.

*laticollis* LeConte. Rhyn. N. E. Am., 195. (A.B.C.) (H.B.K.)

*parvicollis* Casey. *Ibid.*, 195.

**Desmoris** LeConte.

*constrictus* Say. Rhyn. N. E. Am., 206.

**Smicronyx** Schonherr.

*corniculatus* Fabricius. Rhyn. N. E. Am., 211.

**Brachybamus** Germar.

*electus* Germar. Rhyn. N. E. Am., 222.

**Endalus** Laporte.

*ovalis* LeConte. Rhyn. N. E. Am., 224. (A.B.C.) (H.B.K.)

**Onchylis** LeConte.

*nigrirostris* Boheman. Rhyn. N. E. Am., 226.

**Bagous** Germar.

*magister* LeConte. Rhyn. N. E. Am., 231.

*nebulosus* LeConte. *Ibid.*, 237.

*pauxillus* Blatchley. *Ibid.*, 238.

**Tychius** Schönherr.

*picrostris* Fabricius. Rhyn. N. E. Am., 246.

**Otidocephalus** Chevrolat.

*chevrolatii* Horn. *myrmecodes*. Rhyn. N. E. Am., 251.

*lævicollis* Horn. *Ibid.*, 250.

*myrmex* Herbst. *myrmecodes* Say. *Ibid.*, 250.

**Magdalis** Germar.

*alutacea* LeConte. Rhyn. N. E. Am., 257.

*armicollis* Say. *Ibid.*, 258.

*austera* Fall var. *substrigata* Fall. *Ibid.*, 256.

*barbita* Say. *Ibid.*, 258.

*olyra* Herbst. Hickory snout borer. *Ibid.*, 259.

*salicis* Horn. Rhyn. N. E. Am., 260. (A.B.C.) (H.B.K.)

**Balaninus** Germar.

*algonquinus* Casey. Lesser chestnut weevil. Rhyn. N. E. Am.,  
267.

*baculi* Chittenden. *uniformis*. *Ibid.*, 271.

*caryæ* Horn. Hickory nut weevil. *Ibid.*, 265.

*confusor* Hamilton. Confused acorn weevil. *Ibid.*, 270.

*nasicus* Say. Mottled acorn weevil. *Ibid.*, 269.

*obtusus* Blanchard. Hazelnut weevil. *Ibid.*, 272.

*pardalis* Chittenden. *Ibid.*, 270.

*proboscideus* Fabricius. Larger chestnut weevil. *Ibid.*, 264.

*quercus* Horn. Proc. Am. Phil. Soc., 1873, 458.

*rectus* Say. Common acorn weevil. Rhyn. N. E. Am., 266.

**Orchestes** Illiger.

*canus* Horn. Rhyn. N. E. Am., 281.

*niger* Horn. *Ibid.*, 280.

*pallicornis* Say. *Ibid.*, 280.

*rufipes* LeConte. *Ibid.*, 282.

**Tachypterellus** Cockerell.

*quadrigibbus* Say. *Anthonomus*. Apple curculio. Rhyn. N.  
E. Am., 285.

**Anthonomopsis** Dietz.

*mixtus* LeConte. Rhyn. N. E. Am., 286.

**Anthonomus** Germar.

- elongatus** LeConte. Rhyn. N. E. Am., 315.  
**musculus** Say. *Ibid.*, 302. (A.B.C.) (H.B.K.)  
**nubilus** LeConte. *Ibid.*, 314.  
**pusillus** LeConte. *Ibid.*, 289.  
**scutellaris** LeConte. *Ibid.*, 287.  
**scutellatus** Gyllenhal. *Ibid.*, 307.  
**signatus** Say. Strawberry weevil. *Ibid.*, 300.  
**suturalis** LeConte. *Ibid.*, 297.

**Prionomerus** Schonherr.

- calceatus** Say. Rhyn. N. E. Am., 322.

**Piazorhinus** Schonherr.

- scutellaris** Say. Rhyn. N. E. Am., 323.

**Gymnetron** Schonherr.

- teter** Fabricius. Rhyn. N. E. Am., 326.

**Miarus** Stephens.

- hispidulus** LeConte. Rhyn. N. E. Am., 326.  
**puritanus** Casey. *Ibid.*, 327.

**Stephanocleonus** Motschulsky.

- plumbeus** LeConte. Rhyn. N. E. Am., 328.

**Cleonus** Schonherr.

- calandroides** Randall. Rhyn. N. E. Am., 330.

**Lixus** Fabricius.

- concauus** Say. Rhubarb weevil or curculio. Rhyn. N. E. Am., 337.  
**musculus** Say. *Ibid.*, 336. (G.D.)  
**rubellus** Randall. *Ibid.*, 334.

**Læmosaccus** Schonherr.

- plagiatus** Say. Rhyn. N. E. Am., 346. (A.B.C.) (H.B.K.)

**Baris** Germar.

- scolopacea** Germar. Rhyn. N. E. Am., 357.  
**umbilicata** LeConte. *Ibid.*, 350.

**Onychobaris** LeConte.

- pectorosa** LeConte. Rhyn. N. E. Am., 366.

Note:—**Diorymellus laevimargo** Champion, a small black weevil, infests orchids in greenhouses.

**Madarellus** Casey.

*undulatus* Say. Rhyn. N. E. Am., 367.

**Pseudobaris** LeConte.

*nigrina* Say. Rhyn. N. E. Am., 374.

**Centrinus** Schonherr.

*perscitus* Herbst. Rhyn. N. E. Am., 383.

*picumnus* Herbst. *Ibid.*, 380.

**Odontocorynus** Schonherr.

*salebrosus* Casey. Rhyn. N. E. Am., 386.

*scutellum-album* Say. *Ibid.*, 385.

**Nicentrus** Casey.

*linecollis* Boheman. *Centrinus*. Rhyn. N. E. Am., 390.

**Idiostethus** Casey.

*subcalvus* LeConte. Rhyn. N. E. Am., 404.

*tubulatus* Say. *Stethobaris*. *Ibid.*, 404.

**Stethobaris** LeConte.

*ovata* LeConte. Rhyn. N. E. Am., 407.

**Cylindrocopturus** Heller.

*binotatus* LeConte. *Copturodes*. *Copturus*. Rhyn. N. E. Am., 420.

*quercus* Say. *Copturodes*. *Copturus*. *Ibid.*, 421.

**Acoptus** LeConte.

*suturalis* LeConte. Rhyn. N. E. Am., 423. (A.B.C.) (H.B.K.)

**Mononychus** Germar.

*vulpeculus* Fabricius. Rhyn. N. E. Am., 426.

**Acanthoscelis** Dietz.\*

*acephalus* Say. *Falciger*. *Caliodes*. Rhyn. N. E. Am., 431.

**Auleutes** Dietz.

*asper* LeConte. Rhyn. N. E. Am., 432. (C.W.L.)

*nebulosus* LeConte. *Ibid.*, 435.

*tenuipes* LeConte. *Ibid.*, 433.

**Acallodes** LeConte.

*ventricosus* LeConte. Rhyn. N. E. Am., 437.

**Cœliodes** Schonherr.

*acephalus* Say. Proc. Am. Phil. Soc., xv, 269.

*flavicaudis* Boheman. Rhyn. N. E. Am., 438.

\* See also appendix.

**Ceutorhynchus** Germar.\*

*rapæ* Gyllenhal. *affluentus*. Rhyn. N. E. Am., 442.  
*septentrionalis* Gyllenhal. *Ibid.*, 452.

**Cœlogaster** Schonherr.

*zimmermanni* Gyllenhal. Rhyn. N. E. Am., 455.

**Pelenomus** Thomson.

*sulcicollis* Fabricius. Rhyn. N. E. Am., 457.

**Rhinonchus** Schonherr.

*pyrrhopus* Boheman. Rhyn. N. E. Am., 461.

**Conotrachelus** Schonherr.

*albicinctus* LeConte. Rhyn. N. E. Am., 469. (A.B.C.) (H.B.K.)

*anaglypticus* Say. *Ibid.*, 480.

*aratus* Germar. *Ibid.*, 473.

*cratægi* Walsh. Quince curculio. *Ibid.*, 474: Cornell Agr.  
 Expt. Sta., Bull. 148.

*elegans* Say. Rhyn. N. E. Am., 472.

*geminatus* LeConte. *Ibid.*, 478.

*juglandis* LeConte. Walnut curculio. *Ibid.*, 468: Rept. Conn.  
 Agr. Expt. Sta., 1912, 240.

*nenuphar* Herbst. Plum curculio. Rhyn. N. E. Am., 469:  
 Rept. Conn. Agr. Expt. Sta., 1904, 219.

*posticatus* Boheman. Rhyn. N. E. Am., 477.

*seniculus* LeConte. *Ibid.*, 472. (A.B.C.) (H.B.K.)

**Ryssematus** Chevrolat.

*æqualis* Horn. Rhyn. N. E. Am., 484.

*lineaticollis* Say. *Ibid.*, 484.

**Tyloderma** Say.

*ærea* Say. Rhyn. N. E. Am., 493.

*foveolata* Say. *Ibid.*, 491.

*nigra* Casey. *Ibid.*, 493.

*punctata* Casey. *Ibid.*, 494.

**Apteromechus** Faust.

*ferratus* Say. Rhyn. N. E. Am., 506.

**Cryptorhynchus** Illiger.

*bisignatus* Say. *Eubulus*. Rhyn. N. E. Am., 509.

*fuscatus* LeConte. *Ibid.*, 509.

*lapathi* Linnæus. Poplar or willow curculio. *Ibid.*, 510.

*parochus* Herbst. *Ibid.*, 508.

*tristis* LeConte. *Ibid.*, 514. (A.B.C.)

\* See also appendix.

**Dryophthorus** Schonherr.

**americanus** Bedel. *corticalis*. Rhyn. N. E. Am., 524.

**Himatium** Cockerell.

**conicum** LeConte. *Himatium*. Rhyn. N. E. Am., 527. (C.C.)

**Cossonus** Clairville.

**concinus** Boheman. Rhyn. N. E. Am., 531. (G.D.)

**corticola** Say. *Ibid.*, 532.

**impressifrons** Boheman. *Ibid.*, 531. (H.L.J.)

**platalea** Say. *Ibid.*, 530.

**Stenoscelis** Wollaston.

**brevis** Boheman. Rhyn. N. E. Am., 545.

**Rhodobænus** LeConte.

**tredecimpunctatus** Illiger. Rhyn. N. E. Am., 550.

**Sphenophorus** Schonherr.

**æqualis** Gyllenhal. Rhyn. N. E. Am., 553.

**callosus** Olivier. *sculptilis*. *Ibid.*, 567.

**parvulus** Gyllenhal. *Ibid.*, 563.

**pertinax** Olivier. *Ibid.*, 556.

**setiger** Chittenden. *Ibid.*, 557.

**venatus** Say. *placidus*. *Ibid.*, 571.

**zeæ** Walsh. *Ibid.*, 566.

**Calendra** Clairville.

**granaria** Linnæus. Grain weevil. Rhyn. N. E. Am., 574.

**oryzæ** Linnæus. Rice weevil. *Ibid.*, 575.

## Family SCOLYTIDÆ.

**Scolytus** Geoffroy.*Eccoctogaster*.

**quadrispinosus** Say. Hickory bark beetle. Can. Bark Beetles, ii, 52.

**rugulosus** Ratzeburg. Fruit bark beetle. Shot-hole borer. *Ibid.*, 52.

**Chramesus** LeConte.

**icoriæ** LeConte. Hickory twig borer. Can. Bark Beetles, ii, 58.

**Phthorophlœus** Rey.

**frontalis** Zimmerman. Can. Bark Beetles, ii, 59.

**Dendroctonus** Erichson.

**terebrans** Olivier. Turpentine bark beetle. Can. Bark Beetles, ii, 64.

**valens** LeConte. *Ibid.*, 63.

**Phlæosinus** Chapuis.

**dentatus** Say. Red cedar bark beetle. Can. Bark Beetles, ii, 68.

**Leperisinus** Reitter.

**aculeatus** Say. *Hylesinus*. Ash timber beetle. Can. Bark Beetles, ii, 72.

**Hylastinus** Bedel.

**obscurus** Marsham. Can. Bark Beetles, ii, 73.

**Hylurgopinus** Swaine.

**rufipes** Eichhoff. *Hylastes*. Can. Bark Beetles, ii, 74.

**Hylurgops** LeConte.

**pinifex** Fitch. *Hylastes*. Can. Bark Beetles, ii, 81.

**Micracis** LeConte.

**suturalis** LeConte. Rhyn. N. E. Am., 647.

**Ptercyclon** Eichhoff.*Monarthrum*.

**fasciatum** Say. Can. Bark Beetles, ii, 86.

**mali** Fitch. *Ibid.*, 87.

**Hypothenemus** Westwood.

**hispidulus** LeConte. Rhyn. N. E. Am., 596.

**Stephanoderes** Eichhoff.

**dissimilis** Zimmerman. Rhyn. N. E. Am., 603.

sp.

**Pityophthorus** Eichhoff.

**canadensis** Swaine. Can. Bark Beetles, ii, 97.

**puberulus** LeConte. *Ibid.*, 95.

**pulicarius** Zimmerman. *Ibid.*, 95.

sp.

sp.

**Pityogenes** Bedel.

**hopkinsi** Swaine. Can. Bark Beetles, ii, 106.

**Ips** DeGeer.**grandicollis** Eichhoff. Can. Bark Beetles, ii, 113.**pini** Say. *Ibid.*, 115.

sp.

**Orthotomicus** Ferrari.**cælatus** Eichhoff. *Tomicus*. *Xyleborus*. Can. Bark Beetles,  
ii, 121.**Pityokteines** Fuchs.**sparsus** LeConte. *Xyleborus*. *Tomicus*. *Pityogenes*. Can.  
Bark Beetles, ii, 123.**Anisandrus** Ferrari.**pyri** Peck. *Xyleborus dispar*. Can. Bark Beetles, ii, 124.

sp.

**Xyleborus** Eichhoff.**celsus** Eichhoff. Hickory timber beetle. Can. Bark Beetles,  
ii, 126.Order **STREPSIPTERA**.\*Family **STYLOPIDÆ**.**Stylops** Kirby.**vicinæ** Pierce. U. S. Nat. Mus., Bull. No. 66, 110.Family **XENIDÆ**.**Acroschismus** Pierce.**wheeleri** Pierce. *Xenos peckii* Brues. U. S. Nat. Mus., Bull.  
No. 66, 129.**Schistosiphon** Pierce.**peckii** Kirby. *Xenos*. U. S. Nat. Mus., Bull. No. 66, 133.

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\* This order has usually been included in the Coleoptera, and is therefore not given in the table for the separation of the orders, Bulletin 16, page 34.



Order **HYMENOPTERA.**

Ants, bees, wasps, etc.

Suborder **PHYTOPHAGA.**

Family XYELIDÆ.

**Macroxyela** Kirby.*infusata* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 32.

Family PAMPHILIIDÆ.

**Itycorsia** Konow.*albomarginata* Cresson. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 35.*angulata* MacGillivray. *Ibid.*, Bull. 22, 34. (A.B.C.)*luteomaculata* Cresson. *Ibid.*, Bull. 22, 35. (R.H.)*ochrocera* Norton. *Ibid.*, Bull. 22, 34.*zappei* Rohwer. Proc. U. S. Nat. Mus., 57, 209.**Cænolyda** Konow.*semidea* Cresson. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 36.**Neurotoma** Konow.*fasciata* Norton. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 35. (E.N.)**Pamphilius** Latreille.*dentatus* MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 38.*ocreatus* Say. *Lyda.* *Ibid.*, Bull. 22, 37.*persicus* MacGillivray. Peach sawfly. *Ibid.*, Bull. 22, 38; Rept. Conn. Agr. Expt. Sta., 1907, 285.*rileyi* Cresson. Trans. Am. Ent. Soc., viii, 32.**Anoplolyda** Costa.*luteicornis* Norton. *Lyda.* Conn. Geol. Nat. Hist. Surv., Bull. 22, 40. (E.N.)*pallimacula* Norton. *Lyda.* *Ibid.*, Bull. 22, 40. (E.N.)*rufofasciatus* Norton. *Lyda.* *Ibid.*, Bull. 22, 41. (E.N.)*scripta* Say. *Lyda.* *Ibid.*, Bull. 22, 40.

## Family TENTHREDINIDÆ.\*

**Diprion** Schrank.

**simile** Hartig. *Lophyrus*. Jour. Econ. Ent., viii, 379: Conn. Geol. Nat. Hist. Surv., Bull. 22, 761.

**Neodiprion** Rohwer.

**abietis** Harris. *Lophyrus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 44.

**lecontei** Fitch. *Lophyrus*. *Ibid.*, Bull. 22, 44.

**pinetum** Norton. *abbotti*. *Lophyrus*. *Ibid.*, Bull., 22, 44.

**pinus-rigida** Norton. *Lophyrus*. *Ibid.*, Bull. 22, 44.

sp.

sp.

**Hemitaxonus** Ashmead.

**dubitatus** Norton. *Taxonus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 46.

**Epitaxonus** MacGillivray.

**albidopictus** Norton. *Taxonus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 46.

**Taxonus** Hartig.

**nigrisomus** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 47.

**Monostegia** Costa.

**martini** MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 47.

**Empria** LePeletier.*Pacilostoma* Dahlbom.

**calda** MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 51.

**candidula** MacGillivray. *Ibid.*, Bull. 22, 54.

**cariosa** MacGillivray. *Ibid.*, Bull. 22, 54.

**casca** MacGillivray. *Ibid.*, Bull. 22, 53.

**casta** MacGillivray. *Ibid.*, Bull. 22, 52.

**costata** MacGillivray. *Ibid.*, Bull. 22, 51.

**evecta** MacGillivray. *Ibid.*, Bull. 22, 54.

**ignota** Norton. *Monostegia*. *Ibid.*, Bull. 22, 53.

**maculata** Norton. *Harpiphorus*. *Ibid.*, Bull. 22, 53.

sp.

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\* See also appendix.

**Emphytus** Klug.

- apertus* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 56.  
*cinctipes* Norton. *Ibid.*, Bull. 22, 56.  
*gillettii* Mac Gillivray. *Ibid.*, Bull. 22, 57.  
*inornatus* Say. *Ibid.*, Bull. 22, 56.  
*mellipes* Norton. *Ibid.*, Bull. 22, 56.

**Emphytina** Rohwer.

- vanduzeei* Rohwer. Proc. U. S. Nat. Mus., 49, 205.

**Parataxonus** MacGillivray.

- erythrogastra* Rohwer. Proc. U. S. Nat. Mus., 41, 408.  
*multicolor* Norton. *Taxonus*. Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 57.

**Eriocampa** Hartig.

- rotunda* Norton. *Sciapteryx*. Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 58.

**Monosoma** MacGillivray.

- inferentia* Norton. *Pacilostoma*. Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 59.

**Macremphytus** MacGillivray.

- semicornis* Say. *Emphytus*. *Harpiphorus*. Conn. Geol. Nat.  
Hist. Surv., Bull. 22, 59.  
*tarsatus* Say. *Emphytus*. *Harpiphorus*. *Ibid.*, Bull. 22, 61.  
*varianus* Norton. *Emphytus*. *Harpiphorus*. *Ibid.*, Bull. 22, 60.

**Strongylogastroidea** Ashmead.

- apicalis* Norton. *Allantus*. *Strongylogaster*. Conn. Geol. Nat.  
Hist. Surv., Bull. 22, 63.  
*epicera* Say. *Allantus*. *Strongylogaster*. *Ibid.*, Bull. 22, 63.  
*mellosa* Norton. *Allantus*. *Strongylogaster*. *Ibid.*, Bull. 22, 62.  
*rufocincta* Norton. *Allantus*. *Strongylogaster*. *Ibid.*, Bull. 22,  
63.  
*terminalis* Say. *Allantus*. *Strongylogaster*. *Ibid.*, Bull. 22, 62.  
*unicincta* Norton. *Taxonus*. *Ibid.*, Bull. 22, 64 (E.N.)

**Dimorphopteryx** Ashmead.

- pinguis* Norton. *Strongylogaster*. Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 64.

**Selandria** Leach.

- flavipes* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 66.

**Thrinax** Konow.

- impressatus* Provancher. *Strongylogaster*. Conn. Geol. Nat.  
Hist. Surv., Bull. 22, 67.

**Strongylogaster** Dalilbom.

- annulosus** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 68.  
**longulus** Norton. *Ibid.*, Bull. 22, 67.  
**luctuosus** Provancher. Trans. Am. Ent. Soc., xxii, 310.  
**tacitus** Say. *Allantus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 68.  
 sp.

**Dolerus** Jurine.

- abdominalis** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 74.  
**apricus** Norton. *Ibid.*, Bull. 22, 72.  
**aprilis** Norton. *Ibid.*, Bull. 22, 74.  
**bicolor** Beauvois. *Ibid.*, Bull. 22, 72.  
**collaris** Say. *Ibid.*, Bull. 22, 73. (A.B.C.)  
**colosericeus** MacGillivray. *Ibid.*, Bull. 22, 70.  
**conjugatus** MacGillivray. *Ibid.*, Bull. 22, 73.  
**dysporus** MacGillivray. *Ibid.*, Bull. 22, 73.  
**inspiratus** MacGillivray. *Ibid.*, Bull. 22, 72.  
**luctatus** MacGillivray. Can. Ent., xl, 127.  
**monosericeus** MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 70.  
**refugus** MacGillivray. *Ibid.*, Bull. 22, 71.  
**sericeus** Say. *Ibid.*, Bull. 22, 69.  
**similis** Norton. *Ibid.*, Bull. 22, 74. (E.N.)  
**tectus** MacGillivray. *Ibid.*, Bull. 22, 70.  
**unicolor** Beauvois. *Ibid.*, Bull. 22, 73.  
**versus** Norton. *Ibid.*, Bull. 22, 75. (A.E.V.)  
 sp.

**Loderus** Konow.

- albifrons** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 76.

**Endelomyia** Ashmead.

- æthiops** Fabricius. *Caliroa*. *Monostegia rosæ*. Rose sawfly.  
 Conn. Geol. Nat. Hist. Surv., Bull. 22, 77.

**Caliroa** Costa.

- cerasi** Linnæus. *Eriocampoides limacina*. Pear and cherry slug.  
 Conn. Geol. Nat. Hist. Surv., Bull. 22, 77.  
**fasciata** Norton. *Ibid.*, Bull. 22, 79.  
**obsoleta** Norton. *Ibid.*, Bull. 22, 78.  
**quercus-alba** Norton. *Ibid.*, Bull. 22, 78. (E.N.)

**Pachyprotasis** Hartig.

*rapæ* Linnæus. *omega*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 81. (E.N.)

**Lagium** Konow.

*atroviolaceum* Norton. *Tenthredopsis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 81.

*atroviolaceum* var. *tardum* Norton. *Ibid.*, Bull. 22, 81.

*cinctulum* Norton. *Ibid.*, Bull. 22, 81.

**Tenthredopsis** Costa.

*semilutea* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 82. (E. N.)

**Rhogogastera** Konow.

*evansii* Harrington. Conn. Geol. Nat. Hist. Surv., Bull. 22, 83.

**Tenthredo** Linnæus.

*angulifera* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 88. (E.N.)

*flavomarginis* Norton. *Ibid.*, Bull. 22, 90. (E.N.)

*grandis* Norton. *Ibid.*, Bull. 22, 84. (E.N.)

*formosa* Norton. *Ibid.*, Bull. 22, 87.

*lobata* Norton. *Ibid.*, Bull. 22, 88.

*lobata* var. *maculosa* Smulyan. Can. Ent., xlvii, 324. (W.E.B.)

*rufipes* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 91. (A.B.C.)

*rufopecta* Norton. *Ibid.*, Bull. 22, 86.

*verticalis* Say. *Ibid.*, Bull. 22, 86.

sp.

**Macrophya** Dahlbom.

*alba* MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22, 94. (A.B.C.)

*albomaculata* Norton. *Ibid.*, Bull. 22, 97. (E.N.)

*bilineata* MacGillivray. *Ibid.*, Bull. 22, 96.

*cassandra* Kirby. List. Hym. Brit. Mus., i, 273, pl. 10, fig. 13.

*epinota* Say. *Ibid.*, Bull. 22, 93.

*externa* Say. *Ibid.*, Bull. 22, 96.

*externiformis* Rohwer. Proc. U. S. Nat. Mus., 43, 220.

*fascialis* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 99.

*flavicoxa* Norton. *Ibid.*, Bull. 22, 95.

*formosa* Klug. *Ibid.*, Bull., 22, 98.

- fuliginea* Norton. *Ibid.*, Bull. 22, 96.  
*goniphora* Say. *Ibid.*, Bull. 22, 98.  
*incerta* Norton. *Ibid.*, Bull. 22, 96 (E. N.)  
*intermedia* Norton. *Ibid.*, Bull. 22, 98. (E.N.)  
*lineata* Norton. *Ibid.*, Bull. 22, 95.  
*minuta* MacGillivray. *Ibid.*, Bull. 22, 97.  
*nigra* Norton. *Ibid.*, Bull. 22, 97.  
*pannosa* Say. *Ibid.*, Bull. 22, 95.  
*proximata* Norton. *Ibid.*, Bull. 22, 95. (E.N.)  
*pulchella* Klug. *Ibid.*, Bull. 22, 94. (E.N.)  
*succincta* Cresson. *Ibid.*, Bull. 22, 98.  
*tibiator* Norton. *Ibid.*, Bull. 22, 96.  
*trisyllaba* Say. *Ibid.*, Bull. 22, 98.  
*trosula* Norton. *Ibid.*, Bull. 22, 93.  
*varia* Norton. *Ibid.*, Bull. 22, 99. (E.N.)  
*zabriskei* Rohwer. Proc. U. S. Nat. Mus., 43, 218.

#### Allantus Jurine.

- basilaris* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 101.  
*dubius* Norton. *Ibid.*, Bull. 22, 102.

#### Abia Leach.

- inflata* Norton. *Zarca*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 102.

#### Trichiosoma Leach.

- crassum* Kirby. Conn. Geol. Nat. Hist. Surv., Bull. 22, 103.  
 (A.B.C.)  
*triangulum* Kirby. *Ibid.*, Bull. 22, 103.

#### Cimbex Olivier.

- americana* Leach. Conn. Geol. Nat. Hist. Surv., Bull. 22, 104.  
*americana* var. *decimaculata* Norton. *Ibid.*, Bull. 22, 104.  
*americana* var. *laportei* LePeletier. *Ibid.*, Bull. 22, 104.  
*americana* var. *nortoni* MacGillivray. *Ibid.*, Bull. 22, 104.

#### Hoplocampa Hartig.

- halcyon* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 105.  
 (A.B.C.)

#### Craterocercus Rohwer.

- quercivorus* Rohwer. Proc. Wash. Ent. Soc., 20, 164.

#### Mesoneura Hartig.

- parva* Norton. *Dineura*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 107. (E.N.)

**Priophorus** Dahlbom.

- acericaulis* MacGillivray. Maple leaf stem borer. Ent. News, xvii, 313; Conn. Geol. Nat. Hist. Surv., Bull. 22, 109.  
*æqualis* Norton. *Cladius*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 109. (E.N.)  
*simplicicornis* Norton. *Ibid.*, Bull. 22, 109.

**Cladius** Illiger.

- pectinicornis* Fourcroy. *isomerus*. Bristly rose slug. Conn. Geol. Nat. Hist. Surv., Bull. 22, 110.

**Trichiocampus** Hartig.

- viminalis* Fallen. Conn. Geol. Nat. Hist. Surv., Bull. 22, 110.

**Diphadnus** Hartig.

- appendiculatus* Hartig. *Pristiphora grossularia*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 112.  
*californicus* Marlatt. *Ibid.*, Bull. 22, 113.  
*proximatus* Norton. *Nematus*. *Ibid.*, Bull. 22, 113.

**Pristiphora** Latreille.

- betulavora* Rohwer. Proc. U. S. Nat. Hist. Mus., 57, 219.  
*bivittata* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 114.  
*luteola* Norton. *Ibid.*, Bull. 22, 114.  
*sycophanta* Walsh. *tibialis*. *Ibid.*, Bull. 22, 113.

**Lygæonematus** Konow.

- erichsoni* Hartig. Larch sawfly. Conn. Geol. Nat. Hist. Surv., Bull. 22, 115.

**Pachynematus** Konow.

- affinis* Marlatt. Conn. Geol. Nat. Hist. Surv., Bull. 22, 117.  
*corniger* Norton. *Ibid.*, Bull. 22, 118.  
*extensicornis* Norton. *Ibid.*, Bull. 22, 116.  
*nigritus* Norton. *Ibid.*, Bull. 22, 111. (E.N.)  
*rufocinctus* MacGillivray. *Ibid.*, Bull. 22, 117. (A.B.C.)  
*subalbatus* Norton. *Ibid.*, Bull. 22, 118.  
 sp.  
 sp.

**Nematus** Jurine.

- chloreus* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 121. (E.N.)  
*longicornis* Say. *longulicornis* Norton. (*Pteronus*?) *Ibid.*, Bull. 22, 111. (E.N.)

**Cræsus** Leach.

**latitarsus** Norton. *Conn. Geol. Nat. Hist. Surv., Bull. 22, 121.*

**Amauronematus** Konow.

**concolor** Norton. *Nematus. Conn. Geol. Nat. Hist. Surv., Bull. 22, 122. (E.N.)*

**semirufus** Kirby. *fulvipes* Norton. *Nematus. Ibid., Bull. 22, 123. (E.N.)*

**luteotergum** Norton. *Nematus. Ibid., Bull. 22, 123. (E.N.)*  
sp.

**Pteronidea** Rohwer.\*

**amelanchieridis** Rohwer. *Proc. U. S. Nat. Mus., 57, 215.*

**carpini** Marlatt. *Conn. Geol. Nat. Hist. Surv., Bull. 22, 129. (C.R.E.)*

**corylus** Cresson. *Ibid., Bull. 22, 127. (C.R.E.)*

**integra** Say. *Nematus integer. Ibid., Bull. 22, 131.*

**limbata** Cresson. *Ibid., Bull. 22, 125.*

**longicornis** Marlatt. *Ibid., Bull. 22, 132.*

**mendica** Walsh. *Ibid., Bull. 22, 131.*

**populi** Marlatt. *Ibid., Bull. 22, 128. (A.B.C.)*

**ribesi** Scopoli. *Nematus ventricosus. Currant worm. Ibid., Bull. 22, 128.*

**thoracica** Harrington. *Ibid., Bull. 22, 129.*

**trilineata** Norton. *Ibid., Bull. 22, 130.*

**ventralis** Say. *Ibid., Bull. 22, 133.*

**vertebrata** Say. *Ibid., Bull. 22, 131.*

sp.

**Pontania** Costa.

**desmodioides** Walsh. *Conn. Geol. Nat. Hist. Surv., Bull. 22, 140.*

**hyalina** Norton. *Ibid., Bull. 22, 137.*

**pisum** Walsh. *Ibid., Bull. 22, 139. (A.B.C.)*

**Euura** Newman.

**orbitalis** Norton. *Conn. Geol. Nat. Hist. Surv., Bull. 22, 141.*

**salicicola** Smith. *Ibid., Bull. 22, 141.*

**Hypargyricus** MacGillivray.

**fumipennis** Norton. *Monophadnus. Conn. Geol. Nat. Hist. Surv., Bull. 22, 145.*

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\* See also appendix.



**Isodyctium** Ashmead.

**atratum** MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
146.

**caryicola** Dyar. *Ibid.*, Bull. 22, 145.

**Periclista** Konow.

**plesia** Rohwer. Proc. U. S. Nat. Mus. 57, 211.

**Tomostethus** Konow.

**bardus** Say. *Sclandria*. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
148.

**inhabilis** Norton. *Sclandria*. *Ibid.*, Bull. 22, 148.

**Monophadnus** Hartig.

**bipunctatus** MacGillivray. Conn. Geol. Nat. Hist., Surv., Bull.  
22, 149.

**tiliæ** Norton. *Sclandria*. *Ibid.*, Bull. 22, 149. (E.N.)

**Paracharactus** MacGillivray.

**rudis** Norton. *Sclandria*. Conn. Geol. Nat. Hist. Surv., Bull.  
22, 150. (E.N.)

**Phymatocera** Dahlbom.

**rufula** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 150.

**Monophadnoides** Ashmead.

**collaris** MacGillivray. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
152.

**consobrinus** MacGillivray. *Ibid.*, Bull. 22, 152.

**coracinus** MacGillivray. *Ibid.*, Bull. 22, 152.

**rubi** Harris. *Sclandria*. *Ibid.*, Bull. 22, 151.

**Aphanisus** MacGillivray.

**odoratus** MacGillivray. Conn. Geol. Nat. Hist., Surv., Bull.  
22, 154.

**Blennocampa** Hartig.

sp.

**Erythraspides** Ashmead.

**caryæ** Norton. *Sclandria*. Conn. Geol. Nat. Hist. Surv., Bull.  
22, 156.

**pygmæus** Say. *Sclandria vitis*. *Ibid.*, Bull. 22, 156.

**Metallus** Forbes.

**rubi** Forbes. Conn. Geol. Nat. Hist. Surv., Bull. 22, 160.  
(H.L.V.)

**Atomacera** Say.**debilis** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 160.**decepta** Rohwer. Proc. U. S. Nat. Mus., 41, 382.**ruficollis** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 160.**Arge** Schrank.*Hylotoma* Latreille.**abdominalis** Leach. Conn. Geol. Nat. Hist. Surv., Bull. 22, 161.**clavicornis** Fabricius. *Ibid.*, Bull. 22, 161.**dulcitaria** Say. *Ibid.*, Bull. 22, 161.**erythrosona** Leach. Trans. Am. Ent. Soc., 1, 72.**humeralis** Beauvois. Conn. Geol. Nat. Hist. Surv., Bull. 22, 162.**macleayi** Leach. *Ibid.*, Bull. 22, 161.**rubiginosa** Beauvois. *Ibid.*, Bull. 22, 162.**rubra** Klug. *Ibid.*, Bull. 22, 163. (J.A.H.)**salicis** Rohwer. *Hylotoma pectoralis*. Proc. U. S. Nat. Mus., 43, 206.**scapularis** Klug. Conn. Geol. Nat. Hist. Surv., Bull. 22, 162.**sphinx** Kirby. *Ibid.*, Bull. 22, 162.**virescens** Klug. *Ibid.*, Bull. 22, 161.**xanthothorax** Leach. List. Hym. Brit. Mus., 1, 69, pl. 6, fig. 1.  
sp.**Sterictiphora** Billberg.**johnsoni** MacGillivray. Can. Ent., xl, 403.**Schizocerus** LePeletier.**privatus** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 164.  
(J.A.H.)**zabriskei** Ashmead. *Ibid.*, Bull. 22, 164.**Acordulecera** Say.**dorsalis** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 166.  
(E.N.)**maura** MacGillivray. *Ibid.*, Bull. 22, 166. (H.L.V.)**media** MacGillivray. *Ibid.*, Bull. 22, 165.**mixta** MacGillivray. *Ibid.*, Bull. 22, 166.**saginata** Provancher. *Ibid.*, Bull. 22, 167.

sp.

sp.

## Family XIPHYDRIIDÆ.

**Xiphydria** Latreille.

*attenuata* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 168.  
(W.H.P.)

*maculata* Say. *Ibid.*, Bull. 22, 168.

## Family SIRICIDÆ.

**Sirex** Linnæus.

*cyaneus* Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 170.  
(E.N.)

**Urocerus** Geoffroy.

*albicornis* Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
171.

*cressoni* Norton. *Ibid.*, Bull. 22, 171.

*flavicornis* Fabricius. *Ibid.*, Bull. 22, 171.

**Tremex** Jurine.

*columba* Linnæus. Pigeon horn-tail. Conn. Geol. Nat. Hist.  
Surv., Bull. 22, 172.

## Family CEPHIDÆ.

**Janus** Stephens.

*abbreviatus* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 173.

*bimaculatus* Norton. *Cephus. Phyllæcus. Ibid.*, Bull. 22, 173.

*integer* Norton. *flaviventris*. Currant stem girdler. *Ibid.*, Bull.  
22, 173.

**Adirus** Konow.

*trimaculatus* Say. *Phyllæcus*. Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 173. (E.N.)

## Family ORYSSIDÆ.

**Oryssus** Latreille.

*sayi* Westwood. Conn. Geol. Nat. Hist. Surv., Bull. 22, 175.

*sayi* var. *terminalis* Newman. *Ibid.*, Bull. 22, 175.

Suborder **HETEROPHAGA.**Family **VIPIONIDÆ.****Opius** Wesmael.

*exareolatus* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 183.

*novæangliæ* Viereck. *Ibid.*, Bull. 22, 183.

*pequodorum* Viereck. *Ibid.*, Bull. 22, 183.

**Cardiochiles** Nees.

*viator* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 183.  
(A.B.C.)

**Apanteles** Fœrster.

*agricola* Viereck. (**Protapanteles**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 186.

*algonquorum* Viereck. (**Protapanteles**). *Ibid.*, Bull. 22, 188.

*augustus* Viereck. (**Protapanteles**). *Ibid.*, Bull. 22, 187.

*cacæciæ* Riley. Trans. St. Louis Acad. Sci., iv, pt. 2, 306.

*carpatus* Say. (**Apanteles**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 191.

*clisiocampæ* Ashmead. N. H. Agr. Expt. Sta., Tech. Bull. 6, 229.

*conanchetorum* Viereck. (**Apanteles**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 191.

*congregatus* Say. (**Protapanteles**). *Ibid.*, Bull. 22, 188.

*flaviconche* Riley. (**Protapanteles**). *Ibid.*, Bull. 22, 186.

*forbesi* Viereck. (**Apanteles**). *Ibid.*, Bull. 22, 191.

*gelechæ* Viereck. (**Apanteles**). *Ibid.*, Bull. 22, 190.

*hesperidivorus* Viereck. (**Protapanteles**). *Ibid.*, Bull. 22, 187.

*housatannuckorum* Viereck. (**Apanteles**). *Ibid.*, Bull. 22, 189.

*hyphantriæ* Riley. *Ibid.*, Bull. 22, 193.

*lacteicolor* Viereck. (**Apanteles**). *Ibid.*, Bull. 22, 191.

*læviceps* Ashmead. (**Protapanteles**). *Ibid.*, Bull. 22, 188.

*lanificus* Viereck. (**Protapanteles**). *Ibid.*, Bull. 22, 188.

*limenitidis* Riley. (**Protapanteles**). *Ibid.*, Bull. 22, 186.

*limenitidis* var. (**Protapanteles**). *Ibid.*, Bull. 22, 187.

*lunatus* (Packard) Weed. (**Protapanteles**). *Ibid.*, Bull. 22, 186.

*maquinnai* Viereck. (**Apanteles**). *Ibid.*, Bull. 22, 190.

*melanopus* Viereck. (**Apanteles**). *Ibid.*, Bull. 22, 190.

*miantonomoi* Viereck. (**Apanteles**). *Ibid.*, Bull. 22, 190.

*militaris* Walsh. (**Protapanteles**). *Ibid.*, Bull. 22, 189.

*memoriæ* Ashmead. (**Protapanteles**). *Ibid.*, Bull. 22, 186.

- ninigretorum Viereck. (*Apanteles*). *Ibid.*, Bull. 22, 191.  
 nipmuckorum Viereck. (*Apanteles*). *Ibid.*, Bull. 22, 191.  
 obscuricornis Viereck. (*Protapanteles*). *Ibid.*, Bull. 22, 186.  
 oxyacanthoidis Viereck. (*Protapanteles*). *Ibid.*, Bull. 22, 187.  
 pequodorum Viereck. (*Apanteles*). *Ibid.*, Bull. 22, 190.  
 podunkorum Viereck. (*Stenopleura*). *Ibid.*, Bull. 22, 188.

(D.J.C.)

- pyraustæ Viereck. (*Protapanteles*). *Ibid.*, Bull. 22, 188.  
 radiatus Ashmead. (*Protapanteles*). *Ibid.*, Bull. 22, 189.  
 recurvariæ Ashmead. (*Apanteles*). *Ibid.*, Bull. 22, 191.  
 tischeriæ Viereck. *Ibid.*, Bull. 22, 191.  
 trachynotus Viereck. (*Apanteles*). *Ibid.*, Bull. 22, 191.  
 winkleyi Viereck. (*Protapanteles*). *Ibid.*, Bull. 22, 186.

*Microgaster* Latreille.

- brittoni Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 201.  
 congregatiformis Viereck. *Ibid.*, Bull. 22, 201.  
 gelechiæ Riley. *Ibid.*, Bull. 22, 201.  
 solidaginis Viereck. *Ibid.*, Bull. 22, 201.  
 sp.

*Microplitis* Fœrster.

- melianæ Viereck var. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 203.  
 quintilis Viereck. *Ibid.*, Bull. 22, 203.  
 varicolor Viereck. *Ibid.*, Bull. 22, 203.  
 waldeni Viereck. *Ibid.*, Bull. 22, 203.

*Microbracon* Ashmead.

- connecticutorum Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 205.  
 dorsator Say var. *æqualis* Provancher. *Ibid.*, Bull. 22, 206.  
 dorsator var. *mellitor* Say. *Ibid.*, Bull. 22, 205.  
 hobomok Viereck. *Ibid.*, Bull. 22, 206.  
 konkapoti Viereck. *Ibid.*, Bull. 22, 205.  
 massasoit Viereck. *Ibid.*, Bull. 22, 205.  
 matacomet Viereck. *Ibid.*, Bull. 22, 206.  
 montowesei Viereck. *Ibid.*, Bull. 22, 206.  
 nanus Provancher. Faun. Ent. Can. Hym., 504.  
 nawaasorum Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 205.  
 podunkorum Viereck. *Ibid.*, Bull. 22, 205.

- quinnipiacorum** Viereck. *Ibid.*, Bull. 22, 205.  
**sanninoideæ** Gahan. Proc. U. S. Nat. Mus., liii, 196.  
**scanticorum** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 205.  
**sebequanash** Viereck. *Ibid.*, Bull. 22, 204.  
**uncas** Viereck. *Ibid.*, Bull. 22, 206.  
**wawequa** Viereck. *Ibid.*, Bull. 22, 204.
- Habrobracon** (Ashmead) W. J. Johnson.
- gelechiæ** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 209.
- Habrobraconidea** Viereck.
- bicoloripes** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 764.
- Iphiaulax** Færster.
- augustus** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 210.  
**eurygaster** Brullé. *Ibid.*, Bull. 22, 210.
- Cœloides** Wesmæl.
- pissodis** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 210.
- Atanycolus** Færster.
- simplex** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 210.
- Family **ALYSIIDÆ**.
- Cœlinidea** Viereck.
- occom** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 212.  
**Ericœlinius** Viereck.
- mahackemoui** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 212.
- Dacnusa** Haliday.
- sachemella** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 213.
- Pentapleura** Færster.
- foveolata** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 213.  
**Aspilota** Færster.
- ephemera** Viereck. Conn. Geol. Nat. Hist. Surv., Bull., 22,  
 213.
- Asobara** Færster.
- lineata** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 213.

**Aphæreta** Fœrster.

**muscæ** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 214.

**Synaldis** Fœrster.

**incisa** Gahan. Conn. Geol. Nat. Hist. Surv., Bull. 22, 214.

**pygmæa** Viereck. *Ibid.*, Bull. 22, 215.

**quinnipiacorum** Viereck. *Ibid.*, Bull. 22, 215.

## Family BANCHIDÆ.

**Banchus** Fabricius.

**ferrugineus** Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 216.

**pallescens** Provancher. *Ibid.*, Bull. 22, 216.

## Family BRACONIDÆ.

**Macrocentrus** Curtis.

**cerasivorana** Viereck. Proc. U. S. Nat. Mus., 42, 623.

**delicatus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 220.

**pyraustæ** Viereck. *Ibid.*, Bull. 22, 220.

**Ichneutidea** Ashmead.

**secunda** Rohwer. Conn. Geol. Nat. Hist. Surv., Bull. 22, 221.

**Eubadizon** Nees.

**lithocolletidis** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 221.

**Meteorus** Haliday.

**communis** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 222.

**dimidiatus** Cresson. *Ibid.*, Bull. 22, 223.

**exareolatus** Viereck. *Ibid.*, Bull. 22, 223.

**hyphantriæ** Riley. *Ibid.*, Bull. 22, 223.

**indagator** Riley. *Ibid.*, Bull. 22, 222.

**petiolariferus** Viereck. *Ibid.*, Bull. 22, 223.

**pretiosus** Viereck. *Ibid.*, Bull. 22, 223.

**triangularis** Muesbeck. Can. Ent., li, 115.

**versicolor** Wesmael. *Ibid.*, Bull. 22, 223.

**Euphorus** Nees.

**mellipes** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 224.

**Dinocampus** Förster.

*pyri* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 225.

**Perilitus** Nees.

*americanus* Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 218.

**Orgilus** Haliday.

*detectiformis* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 226.

**Bassus** Fabricius.*Microdus* Authors.

*agilis* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 227.

*annulipes* Cresson. *Ibid.*, Bull. 22, 227.

*brittoni* Viereck. *Ibid.*, Bull. 22, 227.

*buttricki* Viereck. *Ibid.*, Bull. 22, 228.

*discolor* Cresson. *Ibid.*, Bull. 22, 227.

*erythrogaster* Viereck. *Ibid.*, Bull. 22, 227.

*pyrifolii* Viereck. *Ibid.*, Bull. 22, 226.

*rugareolatus* Viereck. *Ibid.*, Bull. 22, 228.

*sacculus* Say. *Ibid.*, Bull. 22, 228.

*waldeni* Viereck. *Ibid.*, Bull. 22, 228.

*winkleyi* Viereck. *Ibid.*, Bull. 22, 227.

**Bracon** Panzer.*Agathis* Latreille.

*branfordensis* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 230.

*sassacus* Viereck. *Ibid.*, Bull. 22, 230.

*semirubra* Viereck. *montrealensis* Morrison. *Ibid.*, Bull. 22, 230.

*solidaginis* Viereck. *Ibid.*, Bull. 22, 230.

**Spathius** Nees.

sp.

**Ascogaster** Wesm. & M.

*provancheri* Dalla Torre var. *pallidicornis* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 231.

**Chelonus** Jurine.

*fissus* Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 232.

*konkaputus* Viereck. *Ibid.*, Bull. 22, 232.

*mysticorum* Viereck. *Ibid.*, Bull. 22, 232.

*sassacus* Viereck. *Ibid.*, Bull. 22, 232.



**Sigalphus** Latreille.*Spharophyr* Illiger.**bicolor** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 233.**Urosigalphus** Ashmead.**mohawkorum** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
234.**wampanoagorum** Viereck. *Ibid.*, Bull. 22, 234.**Epirhyssalus** Ashmead.**atriceps** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 235.**Bucculatriplex** Viereck.**secundus** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 765.  
sp. *Ibid.*, Bull. 22, 766.**Aleiodes** Wesmael.**burrus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 236.**ceruræ** Ashmead. Proc. U. S. Nat. Mus., 1888, 634.**parasiticus** Norton. *Ibid.*, Bull. 22, 235.**terminalis** Cresson. *Ibid.*, Bull. 22, 235.**waldeni** Viereck. *Ibid.*, Bull. 22, 235.**Hormius** Nees.**completus** Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
236.**Heterospilus** Halliday.**eurostæ** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 238.**Polystenidea** Viereck.**metacomet** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
238.

## Family MYERSIIDÆ.

**Thaumatotypidea** Viereck.**spinulata** Strickland. Conn. Geol. Nat. Hist., Surv., Bull. 22,  
238. (A.B.C.)

## Family EVANIIDÆ.

**Gasteruption** Latreille.*Fannus* Fabricius.**micrurus** Kieffer. Conn. Geol. Nat. Hist. Surv., Bull. 22, 240.**montanus** Cresson var. **incertus** Cresson. *Ibid.*, Bull. 22, 240.**tarsatorius** Say. *Ibid.*, Bull. 22, 240.

**Hyptia** Illiger.

**harpyoidea** Bradley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 240.

## Family TRIGONALIDÆ.

**Lycogaster** Schuckard.

**pullatus** Schuckard var. **hollensis** Melander and Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 243.

## Family CAPITONIIDÆ.

**Capitoni**us Brullé.

**saperdæ** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 766.

## Family ICHNEUMONIDÆ.

**Praon** Haliday.

**alaskensis** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 259.

**pequodorum** Viereck. *Ibid.*, Bull. 22, 259.

**Aphidius** Nees.

**avenaphis** Fitch. *granariaphis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 260.

**exareolatus** Viereck. *Ibid.*, Bull. 22, 260.

**nigripes** Ashmead. *Ibid.*, Bull. 22, 260.

**polygonaphis** Fitch. *Ibid.*, Bull. 22, 260.

**rapæ** Curtis. *Ibid.*, Bull. 22, 260.

**rosæ** Haliday. *Ibid.*, Bull. 22, 260.

**testaceipes** Cresson. *Ibid.*, Bull. 22, 259.

**Cymodusa** Holmgren.

**distincta** Cresson. Conn. Geol. Nat. Hist., Surv., Bull. 22, 262.

**Sagaritis** Holmgren.

**aprilis** Viereck. Conn. Geol. Nat. Hist., Surv., Bull. 22, 262.

**conjunctiformis** Viereck. *Ibid.*, Bull. 22, 262.

**dubitatus** Cresson. *provancheri*. *Ibid.*, Bull. 22, 262.

**patsuiketorum** Viereck. *Ibid.*, Bull. 22, 262.

**Campoplex** Gravenhorst.\*

- amasecontorum Viereck. (**Nepiera**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 266.
- clisiocampæ Weed. (**Ameloctonus**). *Ibid.*, Bull. 22, 266.
- diversicolor Viereck. (**Hyposoter**). *Ibid.*, Bull. 22, 267.
- elyi Viereck. (**Hypothereutes**). *Ibid.*, Bull. 22, 264.
- etemankiakorum Viereck. (**Bathyplectes**). *Ibid.*, Bull. 22, 263.
- fugitivus Say. (**Ameloctonus**). *Ibid.*, Bull. 22, 266.
- grossularifloræ Viereck. (**Campoplex**). *Ibid.*, Bull. 22, 263.
- kiehtani Viereck. (**Angitia**). *Ibid.*, Bull. 22, 265.
- macer Cresson. (**Angitia**). *Ibid.*, Bull. 22, 265.
- maquinnai Viereck. (**Campoplex**). *Ibid.*, Bull. 22, 263.
- metacomet Viereck. (**Holocremnus**). *Ibid.*, Bull. 22, 264.
- nolæ Ashmead. (**Campoplex**). *Ibid.*, Bull. 22, 263.
- œdemisiæ Ashmead. (**Ameloctonus**). *Ibid.*, Bull. 22, 266.
- œdemisiformis Viereck. (**Angitia**). *Ibid.*, Bull. 22, 265.
- openangorum Viereck. (**Angitia**). *Ibid.*, Bull. 22, 265.
- parviformis Viereck. (**Angitia**). *Ibid.*, Bull. 22, 265.
- pentagætorum Viereck. (**Campoplex**). *Ibid.*, Bull. 22, 263.
- pilosulus Provancher. (**Ameloctonus**). *Ibid.*, Bull. 22, 266.
- ruficoxa Provancher. (**Angitia**). *Ibid.*, Bull. 22, 265.
- vernalis Viereck. (**Hypothereutes**). *Ibid.*, Bull. 22, 264.
- woonandi Viereck. (**Angitia**). *Ibid.*, Bull. 22, 265.

**Casinaria** Holmgren.

- argentea Norton. (Subgenus?). Conn. Geol. Nat. Hist. Surv., Bull. 22, 273.
- assita Norton. (Subgenus?) *Ibid.*, Bull. 22, 272.
- ceanothi Viereck. (**Pseudocasinaria**). *Ibid.*, Bull. 22, 270.
- diversa Norton. (Subgenus?). *Ibid.*, Bull. 22, 272.
- eupitheciæ Viereck. (**Casinaria**). *Ibid.*, Bull. 22, 270.
- genuina Norton. (**Neonortonia**). *Ibid.*, Bull. 22, 271.
- glauca Norton. (Subgenus?). *Ibid.*, Bull. 22, 272.
- porrecta Cresson. (**Eripteroides**). *Ibid.*, Bull. 22, 269.
- radiolata Provancher. (**Eripterius**). *Ibid.*, Bull. 22, 269.
- scabriformis Viereck. (**Casinaria**). *Ibid.*, Bull. 22, 270.
- sokanakiakorum Viereck. (**Idechtis**). *Ibid.*, Bull. 22, 270.
- villosa Norton. (**Anisitsia**). *Ibid.*, Bull. 22, 272.
- vitticollis Norton. (**Anisitsia**). *Ibid.*, Bull. 22, 271.

\* See also appendix.

**Paracania** Viereck.

*elyi* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 273.

**Ceratogastra** Ashmead.

*fasciata* Cresson. *ornata* Say. *Ceratosoma*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 273.

**Pristomerus** Curtis.

*olamonus* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 274.

**Porizon** Fallen.

*conotracheli* Riley. *Thersilochus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 275.

**Porizonidea** Viereck.

sp.

**Orthopelma** Taschenberg.

*diastrophii* Ashmead. *Pradrus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 275.

*luteolator* Gravenhorst. Proc. U. S. Nat. Mus., 49, 226.

**Plectiscidea** Viereck.

*contentionis* Viereck. *Mesoleptus rufipes*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 276.

**Cremaster** Gravenhorst.

*forbesii* Weed. Proc. U. S. Nat. Mus., 53, 513.

**Mesochorus** Gravenhorst.

*calais* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 280.

*scitulus* Cresson. *Ibid.*, Bull. 22, 279.

**Paniscus** Gravenhorst.

*geminatus* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 280.

**Erigorgus** (Førster) Brischke.*Anomalon* Authors.

*anale* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 284.

*ferrugineum* Norton. *Ibid.*, Bull. 22, 285.

*hyaline* Norton. *Ibid.*, Bull. 22, 284.

*luteopectum* Norton. *Ibid.*, Bull. 22, 284.

*prismaticum* Norton. *Ibid.*, Bull. 22, 284.

*rufulum* Provancher. *Ibid.*, Bull. 22, 284.

**Heteropelma** Wesmael.

*flavicorne* Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 285.

**Therion** Curtis.*Exochilum* Wesmael.

morio Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 286.

sassacus Viereck. *Ibid.*, Bull. 22, 286.tenuipes Norton. *Ibid.*, Bull. 22, 286.waccagum Viereck. *Ibid.*, Bull. 22, 287.**Brachixiphosoma** Viereck.pyralidis Ashmead. *Eiphosoma*. Trans. Am. Ent. Soc., xxiii,  
191.**Thyreodon** Brullé.brullei Viereck. *morio*. Conn. Geol. Nat. Hist. Surv., Bull.  
22, 287.**Anomalon** Panzer.*Nototrachys* Marshall.

sp. Conn. Geol. Nat. Hist. Surv., Bull. 22, 766.

**Ophion** Fabricius.

arcuatus Felt. Conn. Geol. Nat. Hist. Surv., Bull. 22, 288.

bilineatus Say. *Ibid.*, Bull. 22, 287.macrurus Linnæus. *Ibid.*, Bull. 22, 287.purgatus Say. *Ibid.*, Bull. 22, 288.slossoni Davis. *Ibid.*, Bull. 22, 287.**Rogas** Nees.

honestus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 289.

**Mesoleptidea** Viereck.*Mesoleptus* Authors.

albifrons Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 290.

decens Cresson. *Ibid.*, Bull. 22, 290.**Catoglyptus** Förster.

fucatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 291.

**Spanotecnus** Förster.

concolor Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 292.

obscurus Davis. *Ibid.*, Bull. 22, 292.**Mesoleius** Holmgren.scapularis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
292.**Trematopygus** Holmgren.

sp.

**Holmgrenia** Færster.

tarsalis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 293.

**Rhimphalea** Færster.

erythrogastra Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
296.

**Polyblastus** Hartig.

pedalis Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 297.

**Errorrenus** Holmgren.

dimidiatus Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
298.

**Euceros** Gravenhorst.

flavescens Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
299.

thoracicus Cresson. *Ibid.*, Bull. 22, 299.

**Sympherta** Færster.

burra Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 299.

**Rhorus** Færster.

bicolor Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 300.

**Anecphysis** Færster.

ruficus Walsh. Conn. Geol. Nat. Hist. Surv., Bull. 22, 301.

**Exenterus** Hartig.

consors Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 301.

**Syrphoctonus** Færster.

agilis Cresson. *Bassus*. Conn. Geol. Nat. Hist. Surv., Bull.  
22, 302.

**Diplazon** (Nees) Gravenhorst.*Bassus* Authors.

antennatus Davis. (*Zootrephes*). Conn. Geol. Nat. Hist.  
Surv., Bull. 22, 304.

bicapillaris Walsh. (*Homotropus*). *Ibid.*, Bull. 22, 304.

concinus Cresson. *Ibid.*, Bull. 22, 303.

frontalis Cresson. *Ibid.*, Bull. 22, 302.

lætatorius Fabricius. *Ibid.*, Bull. 22, 303.

sycophanta Walsh. *Ibid.*, Bull. 22, 303.

**Brephoctonus** (Færster) Ashmead.

hygrotrecha Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
305.

**Hyperacmus** Holmgren.

*ovatus* Davis. Conn. Geol. Nat. Hist. Surv., Bull. 22, 305.

**Exochus** Gravenhorst.

*pallipes* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 306.

*propinquus* Cresson. *Ibid.*, Bull. 22, 306.

*semirufus* Cresson. *Ibid.*, Bull. 22, 306.

**Chorineus** Holmgren.

*carinatus* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 308.

*costatus* Davis. *Ibid.*, Bull. 22, 308.

**Metopius** Panzer.

*pollinatorius* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 309.

**Grotea** Cresson.

*anguina* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 309.

**Euxorides** Cresson.

*americanus* Cresson. (*Calliclisis*). Conn. Geol. Nat. Hist. Surv., Bull. 22, 309.

**Odontomerus** Gravenhorst.

*mellipes* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 311.

**Phytodietus** Gravenhorst.

*annulatus* Provancher. Proc. U. S. Nat. Mus., 57, 466.

*pulcherrimus* Cresson. *Ibid.*, 57, 462.

*vulgaris* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 312.

**Meniscus** Schiödte.

*elegans* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 312.

*pulcherrimus* Cresson. *Ibid.*, Bull. 22, 312.

*superbus* Provancher. *Ibid.*, Bull. 22, 312.

**Lissonota** Gravenhorst.*Lampronota* Curtis.

*americana* Cresson. (*Alloplasta*). Conn. Geol. Nat. Hist. Surv., Bull. 22, 314.

*appalachia* Viereck. (*Nadia*). *Ibid.*, Bull. 22, 314.

*exilis* Cresson. *Ibid.*, Bull. 22, 314.

*frigida* Cresson. *Ibid.*, Bull. 22, 314.

*occidentalis* Cresson. (*Alloplasta*). *Ibid.*, Bull. 22, 313.

*philipi* Viereck. *Ibid.*, Bull. 22, 314.

*punctulata* Cresson. *Ibid.*, Bull. 22, 314.

*rubrica* Cresson. *Ibid.*, Bull. 22, 314.

*varia* Cresson. (*Alloplasta*). *Ibid.*, Bull. 22, 314.

**Cryptoideus** Ashmead.*Xylophruridea* Viereck.*agrili* Viereck. Proc. U. S. Nat. Mus., 55, 536.*luctuosus* Provancher. *Ibid.*, 55, 536.**Glypta** Gravenhorst.*rufiscutellaris* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 317.**Clistopyga** Gravenhorst.*annulipes* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 317.**Polysphincta** Gravenhorst.*pontiaca* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 318.*rubricapensis* Provancher. *Ibid.*, Bull. 22, 317.*texana* Cresson. *Ibid.*, Bull. 22, 318.**Scambus** Hartig.*Pimpla* Authors.*cœlebs* Walsh. (Iseropus.) Trans. St. Louis. Acad. Sci., iii, 141.*conquisitor* Say. (Itopectis). Conn. Geol. Nat. Hist. Surv., Bull. 22, 319.*grapholithæ* Cresson. (Calliephialtes). *Ibid.*, Bull. 22, 320.*inquisitoriellus* Dalla Torre. (Iseropus). *inquisitor*. *Ibid.*, Bull. 22, 320.*inquisitoriellus* var. *investigator* Walsh. *Ibid.*, Bull. 22, 319.*marginatus* Viereck. *Pimplidea æqualis*. Provancher. *Ibid.*, Bull. 22, 319.*notandus* Cresson. (Epiurus). *Ibid.*, Bull. 22, 320.*pedalis* Cresson. (Pimplidea). *Ibid.*, Bull. 22, 319.*ptereelas* Say. (Epiurus). *Ibid.*, Bull. 22, 320.*rufopectus* Cresson. (Tromatobia). *Ibid.*, Bull. 22, 320.*tecumsehi* Viereck. (Epiurus). *Ibid.*, Bull. 22, 320.*tenuicornis* Cresson. (Delomerista). *Ibid.*, Bull. 22, 319.*viduiformis* Viereck. (Iseropus). *Ibid.*, Bull. 22, 766.**Theronia** Holmgren.*melanocephala* Brullé. Conn. Geol. Nat. Hist. Surv., Bull. 22, 323.**Ichneumon** Linnæus.*Ephialtes* Gravenhorst.*irritator* Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 324.



**Megarhyssa** Ashmead.

**atrata** Fabricius. *Thalessa*. Black long-sting. Conn. Geol. Nat. Hist. Surv., Bull. 22, 325.

**greeni** Viereck. *Ibid.*, Bull. 22, 325. (A.I.B.)

**lunator** Fabricius. *Thalessa*. Lunate long-sting. *Ibid.*, Bull. 22, 325.

**Rhyssa** Gravenhorst.

**lineolata** Kirby. *nitida* merrill. *albomaculata* Cresson. Conn. Nat. Hist. Surv., Bull. 22, 325-6.

**Rhyssella** Rohwer.

**humida** Say. Proc. U. S. Nat. Mus., 57, 423.

**Arotes** Gravenhorst.\*

**amœnus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 326.

**Coleocentrus** Gravenhorst.

**rufus** Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 327.

**Gelis** Thunberg.*Pezomachus* Gravenhorst.

**lymensis** Strickland. (**Micromeson**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 327.

**minimus** Walsh. *Ibid.*, Bull. 22, 328.

**ottawænsis** Harrington. *Ibid.*, Bull. 22, 328.

**Mesostenidea** Viereck.

**spinaria** Brullé. (*Polyenus*.) Conn. Geol. Nat. Hist. Surv., Bull. 22, 329.

**Acroricnus** Ratzeburg.

**junceus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 330.

**Joppidium** Walsh.

**peregrinus** Cresson. *Mesoleptus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 330.

**Agrothereutes** Förster.*Cryptus* Fabricius.

**alacris** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 332.

**americanus** Cresson. *Ibid.*, Bull. 22, 332.

**canadensis** Provancher. *Ibid.*, Bull. 22, 332.

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\* See also appendix.

- cressoni* Viereck. *Ibid.*, Bull. 22, 331.  
*hirtifrons* Ashmead. *Ibid.*, Bull. 22, 336.  
*hyslopi* Viereck. *Ibid.*, Bull. 22, 332.  
*limatus* Cresson. *Ibid.*, Bull. 22, 332.  
*lophyri* Norton. *Ibid.*, Bull. 22, 331.  
*mundus* Provancher. *Ibid.*, Bull. 22, 331.  
*nuncius* Say. Compl. Writ., ii, 693.  
*rufus* Provancher. *Ibid.*, Bull. 22, 330.

#### Phygadeuon Gravenhorst.

- auriculiferus* Viereck. (*Bachia*). Conn. Geol. Nat. Hist. Surv., Bull. 22, 336.  
*brittoni* Viereck. (*Bachia*). *Ibid.*, Bull. 22, 335.  
*melanocerus* Viereck. (*Plesignathus*). *Ibid.*, Bull. 22, 335.  
*nortoni* Viereck. (*Plesignathus*). *Ibid.*, Bull. 22, 335.  
*orbitaliformis* Viereck. (*Scinacopus*). *Ibid.*, Bull. 22, 335.  
*quintilis* Viereck. (*Plesignathus*). *Ibid.*, Bull. 22, 334.  
*ruficornis* Provancher. *Ibid.*, Bull. 22, 334.  
*tæniatus* Viereck. (*Plesignathus*). *Ibid.*, Bull. 22, 335.  
*tumidiformis* Viereck. (*Bachia*). *Ibid.*, Bull. 22, 335.  
*vulgaris* Cresson. *Ibid.*, Bull. 22, 334.

#### Ænoplex Förster.

- smithi* Packard. *Phygadeuon*. Proc. Bost. Nat. Hist., ix, 346.

#### Hemiteles Gravenhorst.

- algonquinus* Viereck. (*Rhadinocera*). Conn. Geol. Nat. Hist. Surv., Bull. 22, 339.  
*areator tenellus* Say. (*Orthizema*). *utilis*. *Ibid.*, Bull. 22, 337.  
*crassiformis* Viereck. (*Idemum*). *Ibid.*, Bull. 22, 339.  
*eximius* Cresson. *Mesoleptus*. *Ibid.*, Bull. 22, 337.  
*fulvipes* Gravenhorst. (*Astomaspis*). *Ibid.*, Bull. 22, 338.  
*laticinctus* Ashmead. *Ibid.*, Bull. 22, 339.  
*loniceræ* Viereck. (*Ethelurgus*). *Ibid.*, Bull. 22, 338.  
*metacomet* Viereck. (*Eriplanus*). Bull. 22, 338.  
*nigricaniformis* Viereck. (*Zoophthorus*). *Ibid.*, Bull. 22, 338.  
*orbiformis* Viereck. (*Zamicrotoridea*). *Ibid.*, Bull. 22, 339.  
*rileyi* Ashmead. *cressoniformis* Viereck. (*Otacustes*). *Ibid.*, Bull. 22, 339.

**Stilpnus** Gravenhorst.

**americanus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 341.

**Phæogenes** Wesmael.

**fungor** Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 341.

**hebe** Cresson. *Ibid.*, Bull. 22, 341.

**hebrus** Cresson. *Ibid.*, Bull. 22, 341.

**helvolus** Cresson. *Ibid.*, Bull. 22, 342.

**quadriceps** Cresson. *Ibid.*, Bull. 22, 341.

**vincibilis** Cresson. *Ibid.*, Bull. 22, 341.

**Colpognathus** Wesmael.

**helvus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 342.

**Trogus** Gravenhorst.

**brullei** Cresson. (**Automalus**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 343.

**vulpinus** Gravenhorst. (**Psilomastix**). **excorsius**. *Ibid.*, Bull. 22, 343.

**Amblyteles** Wesmael.*Ichneumon* Authors.

**anceps** Cresson. (**Ectopimorpha**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 349.

**apertus** Cresson. (**Pterocormus?**). *Ibid.*, Bull. 22, 345.

**brevicinctor** Say. (**Pterocormus?**). *Ibid.*, Bull. 22, 351.

**brittoni** Viereck. (**Pterocormus**). *Ibid.*, Bull. 22, 348.

**centrator** Say. (**Stenichneumon?**). *Ibid.*, Bull. 22, 346.

**cincticornis** Cresson. (**Stenichneumon?**). *Ibid.*, Bull. 22, 344.

**cinctitarsis** Provancher. (**Stenichneumon?**). *Ibid.*, Bull. 22, 345.

**citrifrons** Cresson. (**Pterocormus?**). *Ibid.*, Bull. 22, 353.

**comes** Cresson. (**Cratichneumon?**). *Ibid.*, Bull. 22, 352.

**comes** var. **aleatorius** Harris. (**Cratichneumon?**). *Ibid.*, Bull. 22, 352.

**comptus** Say. (**Pterocormus?**). *Ibid.*, Bull. 22, 353.

**disparilis** Cresson. (**Pterocormus?**). *Ibid.*, Bull. 22, 348.

**duplicatiformis** Viereck. (**Barichneumon**). *Ibid.*, Bull. 22, 354.

**electus** Cresson. (**Amblyteles**). *Ibid.*, Bull. 22, 353.

- extrematatis Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 344.  
 flavicornis Cresson. (*Stenichneumon?*). *Ibid.*, Bull. 22, 351.  
 flavizonatus Cresson. (*Craticheumon?*). *Ibid.*, Bull. 22, 352.  
 footei Viereck. (*Pterocormus*). *Ibid.*, Bull. 22, 353.  
 galenus Cresson. (*Craticheumon?*). *Ibid.*, Bull. 22, 351.  
 hospitus Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 353.  
 infidelis Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 351.  
 instabilis Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 353.  
 jucundus Brullé. (*Pterocormus?*). *Ibid.*, Bull. 22, 346.  
 lætus Brullé. *canadensis*. *funestus*. (*Craticheumon?*) *Ibid.*,  
 Bull. 22, 352.  
 leviculus Cresson. (*Craticheumon?*). *Ibid.*, Bull. 22, 353.  
 lewisii Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 347.  
 malacus Say. (*Stenichneumon?*). *Ibid.*, Bull. 22, 345.  
 merus Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 351.  
 mimicus Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 353.  
 nigratoricolor Viereck. (*Chasmias?*). *Ibid.*, Bull. 22, 344.  
 nortoni Cresson. (*Amblyteles*). *Ibid.*, Bull. 22, 349.  
 ormenus Cresson. (*Stenichneumon?*). *Ibid.*, Bull. 22, 349.  
 otiosus Say. (*Stenichneumon?*). *Ibid.*, Bull. 22, 346.  
 parvus Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 352.  
 pepticus Say. (*Craticheumon?*). *Ibid.*, Bull. 22, 351.  
 pequoitorum Viereck. (*Chasmias?*). *Ibid.*, Bull. 22, 345.  
 pulcher Brullé. (*Cœlichneumon*). *Ibid.*, Bull. 22, 350.  
 putus Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 347.  
 quadrizonatus Viereck. (*Pterocormus*). *Ibid.*, Bull. 22, 352.  
 quintilis Viereck. (*Pterocormus*). *Ibid.*, Bull. 22, 354.  
 sassacus Viereck. (*Cœlichneumon*). *Ibid.*, Bull. 22, 349.  
 seminiger Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 348.  
 signatipes Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 348.  
 soror Cresson. (*Barichneumon*). *Ibid.*, Bull. 22, 348.  
 stadaconensis Provancher. (*Amblyteles*). *Ibid.*, Bull. 22, 351,  
 355.  
 subcyaneus Cresson. (*Craticheumon?*). *Ibid.*, Bull. 22, 351.  
 succinctus Brullé. (*Craticheumon?*). *Ibid.*, Bull. 22, 354.  
 suturalis Say. (*Amblyteles*). *Ibid.*, Bull. 22, 349.  
 ultus Cresson. (*Amblyteles*). *Ibid.*, Bull. 22, 351.  
 ultus var. *rogalis* Cresson. (*Amblyteles*). *Ibid.*, Bull. 22,  
 351.

- unifasciatorius** Say. (*Pterocormus?*). *Ibid.*, Bull. 22, 351.  
**versabilis** Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 352.  
**vinnulus** Cresson. (*Pterocormus?*). *Ibid.*, Bull. 22, 353.  
**w-album** Cresson. (*Craticheumon?*). *Ibid.*, Bull. 22, 348,  
 354.  
**winkleyi** Viereck. (*Pterocormus*). *Ibid.*, Bull. 22, 348.

## Family FIGITIDÆ.

**Anacharis** Dalman.

- sp. Conn. Geol. Nat. Hist. Surv., Bull. 22, 365.

**Aspicera** Dahlbom.

- sp. Conn. Geol. Nat. Hist. Surv., Bull. 22, 365.

## Family CYNIPIDÆ.

**Periclistus** Fœrster.

- pirata** Osten Sacken. *Aulax. Rhodites globulus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 373.

**Aylax** Hartig.

- podagræ** Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 374.  
**tumida** Bassett. Lettuce tumor gall. *Ibid.*, Bull. 22, 375.  
 (W.B.)

**Ceroptres** Hartig.

- ficus** Fitch. Conn. Geol. Nat. Hist. Surv., Bull. 22, 377.  
 (H.F.B.)

**Synergus** Hartig.

- lana** Fitch. Oak wool gall. Conn. Geol. Nat. Hist. Surv., Bull. 380. (B.H.W.)

**Philonyx** Fitch.

- erinacei** Walsh. Oak hedghog gall. N. Y. St. Mus., Bull. 200, 94.

**Biorhiza** Westwood.

- forticornis** Walsh. (*Xanthoteras*). Oak fig gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 384.

- hirta** Bassett. (*Xystoteras*) *Philonix*. *Ibid.*, Bull. 22, 383.

**Neuroterus** Hartig.

- batatus** Fitch. Oak potato gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 384.

- consimilis* Bassett. *Ibid.*, Bull. 22, 387.  
*distortus* Bassett. *Ibid.*, Bull. 22, 388.  
*dubius* Bassett. *Ibid.*, Bull. 22, 388.  
*exiguissimus* Bassett. *Ibid.*, Bull. 22, 389.  
*exiguus* Bassett. *Ibid.*, Bull. 22, 389.  
*floccosus* Bassett. *Ibid.*, Bull. 22, 390.  
*majalis* Bassett. *Ibid.*, Bull. 22, 385.  
*noxiosus* Bassett. Noxious Oak Gall. *Ibid.*, Bull. 22, 391.  
*pallidus* Bassett. *Ibid.*, Bull. 22, 386.  
*tectus* Bassett. *Ibid.*, Bull. 22, 389.  
*umbilicatus* Bassett. Oak button gall. *Ibid.*, Bull. 22, 390.

#### Dryophanta Fœrster.

- corrugis* Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 397.  
*ignota* Bassett. *Ibid.*, Bull. 22, 398.  
*longicornis* Bassett. *Ibid.*, Bull. 22, 397, 398.  
*pallipes* Bassett. *Ibid.*, Bull. 22, 398.  
*papula* Bassett. *Ibid.*, Bull. 22, 400.  
*parvula* Bassett. *Ibid.*, Bull. 22, 396.  
*pedunculata* Bassett. *Ibid.*, Bull. 22, 400.

#### Holcaspis Mayr.

- duricoria* Bassett. Pointed bullet gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 402.  
*fasciata* Bassett. *Ibid.*, Bull. 22, 402.  
*globulus* Fitch. Oak bullet gall. *Ibid.*, Bull. 22, 401.  
*rugosa* Bassett. *Ibid.*, Bull. 22, 401.

#### Cynips Linnæus.

- confluens* Harris. Oak or May apple. Conn. Geol. Nat. Hist. Surv., Bull. 22, 404.  
*cristata* Stebbins. *Ibid.*, Bull. 22, 768. (G.D.)  
*decidua* Bassett. Ins. Galls Springfield, 20.  
*strobilana* Osten Sacken. Pine cone oak gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 403.

#### Amphibolips Reinhard.

- badia* Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 405.  
*cœlebs* Osten Sacken. Oak spindle gall. *Ibid.*, Bull. 22, 407.  
*cooki* Gillette. *Ibid.*, Bull. 22, 768. (W.B.)  
*illicifoliæ* Bassett. Scrub oak gall. *Ibid.*, Bull. 22, 405. (G.D.)  
*inanis* Osten Sacken. Empty oak apple. *Ibid.*, Bull. 22, 407.

- nubilipennis** Harris. *Ibid.*, Bull. 22, 408.  
**prunus** Walsh. Acorn plum gall. *Ibid.*, Bull. 22, 406. (G.D.)  
**sculpta** Bassett. *Ibid.*, Bull. 22, 408.  
**tinctoriæ** Ashmead. *Ibid.*, Bull. 22, 768. (G.D.)  
**verna** Bassett. *Ibid.*, Bull. 22, 404. (H.F.B.)

**Andricus** Hartig.

- ashmeadii** Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 418.  
 (H.F.B.)  
**ceropteroides** Bassett. (**Callirhytis**). *Ibid.*, Bull. 22, 434.  
**cicatricula** Bassett. *Ibid.*, Bull. 22, 413. (H.F.B.)  
**corniger** Osten Sacken. Horned knot oak gall. *Ibid.*, Bull.  
 22, 414.  
**exiguus** Bassett. *Ibid.*, Bull. 22, 417. (H.F.B.)  
**formosus** Bassett. *Ibid.*, Bull. 22, 409. (H.F.B.)  
**fruticola** Ashmead. *Ibid.*, Bull. 22, 769.  
**futilis** Osten Sacken. (**Callirhytis**). *papillatus*. Oak wart gall.  
*Ibid.*, Bull. 22, 433.  
**glandulus** Beutenmüller. *Ibid.*, Bull. 22, 770.  
**incertus** Bassett. *Ibid.*, Bull. 22, 414. (H.F.B.)  
**obtusilobæ** Bassett. *Ibid.*, Bull. 22, 415. (H.F.B.)  
**operatola** Riley and Bassett. *Ibid.*, Bull. 22, 418. (H.F.B.)  
**operator** Osten Sacken. *Ibid.*, Bull. 22, 429.  
**ostensackenii** Bassett. *Ibid.*, Bull. 22, 412. (H.F.B.)  
**palustris** Osten Sacken. Succulent oak gall. *Ibid.*, Bull. 22,  
 419.  
**patiens** Bassett. *Ibid.*, Bull. 22, 416. (H.F.B.)  
**pattoni** Bassett. *Ibid.*, Bull. 22, 423. (H.F.B.)  
**petiolicola** Bassett. Oak petiole gall. *Ibid.*, Bull. 22, 412.  
**piger** Bassett. *Ibid.*, Bull. 22, 422. (H.F.B.)  
**piperoides** Bassett. *Ibid.*, Bull. 22, 415. (H.F.B.)  
**pruinosis** Bassett. *Ibid.*, Bull. 22, 411. (H.F.B.)  
**pulchellus** Bassett. *Ibid.*, Bull. 22, 416. (H.F.B.)  
**punctatus** Bassett. (**Callirhytis**). Oak knot gall. *Ibid.*, Bull.  
 22, 431.  
**pusulatoides** Bassett. (**Callirhytis**). *Ibid.*, Bull. 22, 433.  
 (H.F.B.)  
**saccularis** Bassett. (**Callirhytis**). *Ibid.*, Bull. 22, 432. (H.F.B.)  
**scitulus** Bassett. (**Callirhytis**). *Ibid.*, Bull. 22, 429.

- seminator** Harris. (**Callirhytis**). Oak seed gall. *Ibid.*, Bull. 22, 430.  
**similis** Bassett. (**Callirhytis**). Scrub oak club gall. *Ibid.*, Bull. 22, 428.  
**singularis** Bassett. (**Callirhytis**). Small oak apple. *Ibid.*, Bull. 22, 431. (H.F.B.)  
**tuberosus** Bassett. (**Callirhytis**). *Ibid.*, Bull. 22, 430. (H.F.B.)  
**utriculus** Bassett. *Ibid.*, Bull. 22, 423.  
**ventricosa** Bassett. *Ibid.*, Bull. 22, 409. (H.F.B.)

#### Solenozopheria Ashmead.

- vaccinii** Ashmead. Huckleberry gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 434.

#### Diastrophus Hartig.

- bassettii** Beutenmüller. Bassett's Blackberry gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 438.  
**cuscutæformis** Osten Sacken. Blackberry seed gall. *Ibid.*, Bull. 22, 435.  
**fragariæ** Beutenmüller. Can. Ent., xlvii, 353.  
**minimus** Bassett. Conn. Geol. Nat. Hist. Surv., Bull. 22, 438.  
**nebulosus** Osten Sacken. Blackberry knot gall. *Ibid.*, Bull. 22, 435.  
**potentillæ** Bassett. *Gonaspis*. Cinquefoil axil gall. *Ibid.*, Bull. 22, 436.  
**radicum** Bassett. Raspberry root gall. *Ibid.*, Bull. 22, 437.  
**similis** Bassett. *Ibid.*, Bull. 22, 437.

#### Dipolepis Geoffroy.

##### *Rhodites* Hartig.

- bicolor** Harris. Spiny rose gall. Conn. Geol. Nat. Hist. Surv., Bull. 22, 440.  
**dichlocerus** Harris. Long rose gall. *Ibid.*, Bull. 22, 441.  
**globuloides** Beutenmüller. Globular rose gall. *Ibid.*, Bull. 22, 771.  
**gracilis** Ashmead. *Ibid.*, Bull. 22, 441, 771.  
**ignotus** Osten Sacken. Mealy rose gall. *Ibid.*, Bull. 22, 441.  
**radicum** Osten Sacken. Rose root gall. *Ibid.*, Bull. 22, 441.  
**rosæ** Linnæus. Mossy rose gall. *Ibid.*, Bull. 22, 441.



## Family IBALIID.Æ.

**Ibalia** Latreille.

**maculipennis** Haldeman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 442.

## Family MYRMARID.Æ.

**Anaphes** Haliday.

**conotracheli** Girault. *Anaphoidea*. Jour. N. Y. Ent. Soc. xviii, 246. Conn. Geol. Nat. Hist. Surv., Bull. 22, 447.

**pratensis** Fœrster. Can. Ent., 44, 88.

## Family TETRASTICHID.Æ.

**Tetrastichus** Haliday.

**malacosomæ** Girault. Insec. Insc. Menstr. iv, 110.

sp. reared from coccids.

sp. reared from *Diastrophus cuscutaformis*.

## Family ENTEDONTID.Æ.

**Pleurotropis** Fœrster.

**lithocolletidis** Ashmead. Proc. U. S. Nat. Mus., 43, 178.

**tarsalis** Ashmead. *Ibid.*, 43, 178.

**Closterocerus** Westwood.

**tricinctus** Ashmead. *Entedon* Dalman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 458. (C.D.J.)

## Family EULOPHID.Æ.\*

**Sympiesis** Fœrster.

**massasoit** Crawford. Proc. U. S. Nat. Mus., 45, 258.

**nigrifemora** Ashmead. *Systemspiesis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 461.

**Eulophus** Geoffroy.

sp.

## Family ELASMID.Æ.

**Elasmus** Westwood.

**atratus** Howard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 464.

\* See also appendix.

## Family ELACHERTIDÆ.

**Cirrospilus** Westwood.

- flavinctus* Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 465.  
*marylandi* Girault. Descr. Hymenop. Chalcid., 4.

## Family PTEROMALIDÆ.

**Pteromalus** Swederus.

- boucheanus* Ratzeburg. (**Dibrachys**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 475.  
*nidulans* (Fœrster) Thompson. *egregius* Fœrster. *Ibid.*, Bull. 22, 773.  
*tabacum* Fitch. (**Hypopteromalus**). *Ibid.*, Bull. 22, 474.  
*verditer* Norton. *Ibid.*, Bull. 22, 472.

**Merisus** Walker.

- isosomatis* Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 478.

**Pachyneuron** Walker.

- nigrocyanum* Norton. *Chirobachys nigrocyanus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 481.

**Sphegigaster** Spinola.

sp.

## Family APHELINIDÆ.

**Encarsia** Fœrster.

- luteola* Howard. Bur. Ent., Tech. ser., i, 29; Conn. Geol. Nat. Hist. Surv., Bull. 22, 489.

**Aphelinus** Dalman.

- mali* Haldeman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 490.

**Prospaltella** Ashmead.

- perniciosi* Tower. Parasite of the San José scale. Ann. Ent. Soc. Am., vi, 125.

## Family ENCYRTIDÆ.

**Blastothrix** Mayr.

- sericea* Dalman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 502.

## Family EUPELMIDÆ.

**Anastatus** Motschulsky.**bifasciatus** Fonscolombe. Bur. Ent., Bull. 91, 170.

## Family CALLIMOMIDÆ.

**Ormyrus** Westwood.

sp.

**Monodontomerus** Westwood.**æreus** Walker. Conn. Geol. Nat. Hist. Surv., Bull. 22, 514.**dentipes** Boheman. Vet. Akad. Handl., 41, 23.**Syntomaspis** Fœrster.**lazulella** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 514.**Callimome** Spinola.**brevicauda** Osten Sacken. *Torymus*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 515.**flavicoxa** Osten Sacken. *Torymus*. *Ibid.*, Bull. 22, 515.sp. *Torymus*.

## Family MISCOGASTERIDÆ.

**Megorismus** Walker.**fletcheri** Crawford. Conn. Geol. Nat. Hist. Surv., Bull. 22, 773.

## Family EURYTOMIDÆ.

**Brucophagus** Ashmead.**funebri** Howard. Clover-seed Chalcis. Conn. Geol. Nat. Hist. Surv., Bull. 22, 520.**Eurytoma** Illiger.**diastrophi** Walsh. Conn. Geol. Nat. Hist. Surv., Bull. 22, 521.**pissodis** Girault. Bull. Brook. Ent. Soc., xii, 88.**Isosoma** Walker.

sp.

**Evoxysoma** Ashmead.**vitis** Saunders. Conn. Geol. Nat. Hist. Surv., Bull. 22, 523.

## Family PERILAMPIDÆ.

**Perilampus** Latreille.

*hyalinus* Say. *Cyaneus*. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
524.

*platygaster* Say. *Ibid.*, Bull. 22, 524.

## Family CHALCIDIDÆ.

**Smicra** Spinola.

*rufofemorata* Cresson. Conn. Geol. Nat. Hist. Surv., Bull.  
22, 526.

**Spilochalcis** Thomson.

*mariaë* Riley. Conn. Geol. Nat. Hist. Surv., Bull. 22, 527.

*torvina* Cresson. *Ibid.*, Bull. 22, 527.

**Eusayia** Ashmead.

*debilis* Say. *Sayiella*. *Chalcis*. Compl. Writ., ii, 720.

**Chalcis** Fabricius.

*ovata* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 528. (A.E.V.)

## Family LEUCOSPIDÆ.

**Leucospis** Fabricius.

*affinis* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 528.

## Family PLATYGASTRIDÆ.

**Anopedius** Fœrster.

*error* Fitch. Conn. Geol. Nat. Hist. Surv., Bull. 22, 533.

**Polygnotus** Fœrster.

*striaticeps* Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
537.

**Isocybus** Fœrster.

*pallipes* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 541.

## Family SCELIONIDÆ.

**Telenomus** Haliday.

*coloradensis* Crawford. Proc. Wash. Ent. Soc., xi, 206.

**Prosacantha** Nees.

**marylandica** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 552.

**Teleas** Latreille.

**coxalis** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 553.

**Caloteleia** Westwood.

**marlatti** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 554.

**Idris** Fœrster.

**nigricornis** Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 555. (W.M.W.)

**Scelio** Latreille.

**hyalinipennis** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 556.

**ovivorus** Riley. *Ibid.*, Bull. 22, 556. (W.H.P.)

## Family CERAPHRONIDÆ.

**Conostigmus** Dahlbom.*Megaspilus* Westwood.

**schwarzi** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 559.

**Eumegaspilus** Ashmead.

**erythrothorax** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 559. (W.M.W.)

## Family DIAPRIIDÆ.

**Entomacis** Fœrster.

**ambigua** Brues. *Hemilexodes*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 563.

**Galesus** Curtis.

**vierecki** Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 564.

**Diapria** Latreille.

**conica** Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 565. (W.H.P.)

## Family BELYTIDÆ.

**Leptorhaptus** Förster.

**conicus** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22, 570.

## Family SERPHIDÆ.

**Disogmus** Förster.

**obsoletus** Brues. Conn. Geol. Nat. Hist. Surv., Bull. 22, 573.

**Serphus** Schrank.

**californicus** Holmgren. *Proctotrypes*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 575.

**carolinensis** Ashmead. *Ibid.*, Bull. 22, 575.

**caudatus** Say. *Ibid.*, Bull. 22, 574.

**melliventris** Ashmead. *Ibid.*, Bull. 22, 575.

**quadriceps** Ashmead. *Ibid.*, Bull. 22, 576.

**Exallonyx** Kieffer.

**pallidicornis** Brues. Jour. N. Y. Ent. Soc., xxvii, 14.

## Family HELORIDÆ.

**Helorus** Latreille.

**paradoxus** Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 576.

## Family PELECINIDÆ.

**Pelecinus** Latreille.

**polyturator** Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22, 576.

## Family FORMICIDÆ.

**Stigmatomma** Roger.

**pallipes** Haldeman. Conn. Geol. Nat. Hist. Surv., Bull. 22, 581.

**Ponera** Latreille.

**coarctata pennsylvanica** (Buckley) Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 581. (W.M.W.)

**Myrmecina** Curtis.

**graminicola americana** Emery var. **brevispinosa** Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584. (W.M.W.)

**Monomorium** Mayr.

**minutum** Mayr var. **minimum** (Buckley) Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584.

**pharaonis** Linnaeus. Little red house ant. *Ibid.*, Bull. 22, 584.

**Solenopsis** Westwood.

**molesta** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584.

**Pheidole** Westwood.

**pilifera** Roger. Conn. Geol. Nat. Hist. Surv., Bull. 22, 584.

**Crematogaster** Lund.

**lineolatus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 585.

**lineolatus** var. **cerasi** Fitch. *Ibid.*, Bull. 22, 585. (W.M.W.)

**Stenammas** Mayr.

**brevicorne** Mayr. Conn. Geol. Nat. Hist. Surv., Bull. 22, 585. (W.M.W.)

**Aphænogaster** Mayr.

**fulva** Roger. Conn. Geol. Nat. Hist. Surv., Bull. 22, 585. (W.M.W.)

**fulva aquia** (Buckley) Emery. *Ibid.*, Bull. 22, 586.

**fulva aquia** var. **picea** Emery. *Ibid.*, Bull. 22, 586. (W.M.W.)

**mariaë** Forel. *Ibid.*, Bull. 22, 585. (W.M.W.)

**tennesseensis** Mayr. *Ibid.*, Bull. 22, 585. (W.M.W.)

**treatæ** Forel. *Ibid.*, Bull. 22, 585.

**Myrmica** Latreille.

**punctiventris** Roger. Conn. Geol. Nat. Hist. Surv., Bull. 22, 587. (W.M.W.)

**rubra brevinodis** Emery var. **canadensis** Wheeler. *Ibid.*, Bull. 22, 587. (W.M.W.)

**rubra scabrinodis** Nylander var. **fracticornis** Emery. *Ibid.*, Bull. 22, 587.

**rubra scabrinodis** var. **sabuleti** Meinert. *Ibid.*, Bull. 22, 587.

**rubra scabrinodis** var. **schrencki** Emery. *Ibid.*, Bull. 22, 587.

**Leptothorax** Mayr.

- acervorum canadensis** Provancher. Conn. Geol. Nat. Hist. Surv., Bull. 22, 588. (W.M.W.)  
**curvispinosus** Mayr. *Ibid.*, Bull. 22, 588.  
**curvispinosus** var. **ambiguus** Emery. *Ibid.*, Bull. 22, 589.  
**emersoni** Wheeler. *Ibid.*, Bull. 22, 588. (W.M.W.)  
**longispinosus** Roger. *Ibid.*, Bull. 22, 558. (W.M.W.)

**Dolichoderus** Lund.

- mariae** Forel. Conn. Geol. Nat. Hist. Surv., Bull. 22, 589.  
**plagiatus** Mayr. *Ibid.*, Bull. 22, 590.

**Tapinoma** Förster.

- sessile** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 590.

**Brachymyrmex** Mayr.

- heeri depilis** Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 591. (W.M.W.)

**Prenolepis** Mayr.

- imparis** Say. *Nylanderia*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 591.  
**imparis** var. **minuta** Emery. *Nylanderia*. *Ibid.*, Bull. 22, 591.

**Formicina** Schuckard.*Lasius* Fabricius.

- brevicornis** Emery. Conn. Geol. Nat. Hist. Surv., Bull. 22, 593.  
**claviger** Roger. (**Acanthomyops**). *Ibid.*, Bull. 22, 594. (W.M.W.)  
**flavus nearcticus** Wheeler. *Ibid.*, Bull. 22, 593. (W.M.W.)  
**interjectus** Mayr. (**Acanthomyops**). *Ibid.*, Bull. 22, 594. (W.M.W.)  
**latipes** Walsh. (**Acanthomyops**). *Ibid.*, Bull. 22, 594.  
**niger** Linnæus var. **americanus** Emery. Garden ant. *Ibid.*, Bull. 22, 592.  
**niger** var. **neoniger** Emery. *Ibid.*, Bull. 22, 593.  
**umbratus mixtus** Nylander var. **aphidicola** Walsh. *Ibid.*, Bull. 22, 593.  
**umbratus mixtus** var. **speculiventris** Emery. *Ibid.*, Bull. 22, 593. (W.M.W.)



**Formica** Latreille.

- difficilis** Emery var. **consocians** Wheeler. Conn. Geol. Nat. Hist. Surv., Bull. 22, 595. (W.M.W.)  
**exsectoides** Forel. *Ibid.*, Bull. 22, 595.  
**fusca** Linnaeus var. **subænescens** Emery. *Ibid.*, Bull. 22, 596. (W.M.W.)  
**fusca** var. **subsericea** Say. Silky ant. *Ibid.*, Bull. 22, 596.  
**nepticula** Wheeler. *Ibid.*, Bull. 22, 595. (W.M.W.)  
**pallide-fulva nitidiventris** Emery. *Ibid.*, Bull. 22, 595.  
**pallide-fulva schaufussi** Mayr. *Ibid.*, Bull. 22, 595.  
**pallide-fulva schaufussi** var. **incerta** Emery. *Ibid.*, Bull. 22, 595.  
**rufa integra** Nylander. *Ibid.*, Bull. 22, 595. (W.M.W.)  
**rufa obscuriventris** Mayr. *Ibid.*, Bull. 22, 595. (W.M.W.)  
**sanguinea aserva** Forel. *Ibid.*, Bull. 22, 595. (W.M.W.)  
**sanguinea rubicunda** Emery. *Ibid.*, Bull. 22, 595. (W.M.W.)  
**sanguinea rubicunda** var. **subintegra** Emery. *Ibid.*, Bull. 22, 595.  
**subpolita** Mayr. *Ibid.*, Bull. 22, 596. (G.M.)  
**subpolita** var. **neogagates** Emery. *Ibid.*, Bull. 22, 596.  
**truncicola** Nylander, subspecies **obscuriventris** Mayr. *Ibid.*, Bull. 22, 595.

**Polyergus** Latreille.

- lucidus** Mayr. Conn. Geol. Nat. Hist. Surv., Bull. 22, 599. (G.M.)

**Camponotus** Mayr.

- castaneus** Latreille. Conn. Geol. Nat. Hist. Surv., Bull. 22, 600.  
**castaneus**, subspecies **americanus** Mayr. *Ibid.*, Bull. 22, 600.  
**fallax** Nylander var. **nearcticus** Emery. *Ibid.*, Bull. 22, 600.  
**herculeanus ligniperdus** Latreille var. **novæboracensis** Fitch. *Ibid.*, Bull. 22, 600.  
**herculeanus pennsylvanicus** DeGeer. Carpenter Ant. *Ibid.*, Bull. 22, 600.  
**herculeanus pennsylvanicus** var. **ferrugineus** Fabricius. *Ibid.*, Bull. 22, 600.

## Family CHRYSIDIDÆ.

**Omalus** Jurine.

*irridescens* Norton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 602.  
*sinuosus* Say. *Ibid.*, Bull. 22, 602.

**Notozus** Fœrster.

*marginatus* Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 603.

**Hedychridium** Latreille.

*dimidiatum* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 603.

**Hedychrum** Latreille.

*obsoletum* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 603.  
*violaceum* Brullé. *Ibid.*, Bull. 22, 603.

**Chrysis** Linnæus.

*cærulans* Fabricius. (**Tetrachrysis**). Conn. Geol. Nat. Hist.  
 Surv., Bull. 22, 604.

*nitidula* Fabricius. (**Tetrachrysis**). *Ibid.*, Bull. 22, 604.

*parvula* Fabricius. (**Trichrysis**). *Ibid.*, Bull. 22, 604.

*verticalis* Patton. (**Chrysozona**). *Ibid.*, Bull. 22, 604.

## Family BETHYLIDÆ.

**Pristocera** Klug.

*armifera* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 609.

**Lælius** Ashmead.

*tricarinatus* Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 610.

**Paralælius** Kieffer.

*pedatus* Say. *Bethylus*. Conn. Geol. Nat. Hist. Surv., Bull.  
 22, 610.

**Epyrus** Westwood.

*rufipes* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 611.

**Rhabdepyris** Kieffer.

*occidentalis* Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 612.

**Parasierola** Cameron.

*cellularis* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 612.

## Family DRYINIDÆ.

**Gonatopus** Ljungh.

**contortulus** Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 614.  
(W.H.P.)

**Aphelopus** Dalman.

**americanus** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
615.

## Family SCOLIIDÆ.

**Scolia** Fabricius.

**bicincta** Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22, 616.

**Campsomeris** LePeletier.

**plumipes** Drury. *Elis*. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
617.

**Elis** Fabricius.

**interrupta** Say. *Plesia*. *Myzine hamata*. Conn. Geol. Nat.  
Hist Surv., Bull. 22, 617.

**quinquecincta** Fabricius. *Plesia*. *Myzine sexcincta*. *Ibid.*,  
Bull. 22, 617.

**Sierolomorpha** Ashmead.

**ambigua** Ashmead. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
618.

**Tiphia** Fabricius.

**brunneicornis** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
619.

**egregia** Viereck. *Ibid.*, Bull. 22, 619.

**inornata** Say. *Ibid.*, Bull. 22, 619.

**punctata** Robertson. *Ibid.*, Bull. 22, 619.

**relativa** Viereck. *Ibid.*, Bull. 22, 619.

**waldeni** Viereck. *Ibid.*, Bull. 22, 619.

## Family SAPYGIDÆ.

**Sapyga** Latreille.

**constrata** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 620.

## Family METHOCIDÆ.

**Methoca** Latreille.

**stygia** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 620.

## Family MYRMOSIDÆ.

**Myrmosa** Latreille.

**unicolor** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 621.

## Family MUTILLIDÆ.

**Pseudomethoca** Ashmead.

**canadensis** Blake. Conn. Geol. Nat. Hist. Surv., Bull. 22, 622.

**Nomiæphagus** Ashmead.

**simillimus** Smith. *sanbornii*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 623.

**Dasymutilla** Ashmead.

**cariniceps** Fox. *scrobinata* Rohwer. *Ibid.*, Bull. 22, 623.

**castor** Blake. Conn. Geol. Nat. Hist. Surv., Bull. 22, 624.

**cypris** Blake. *Ibid.*, Bull. 22, 623.

**ferrugata** Fabricius. *Ibid.*, Bull. 22, 623.

**gibbosa** Say. *Ibid.*, Bull. 22, 624.

**lepeletierii** Fox *harmoniiiformis* Rohwer. *Ibid.*, Bull. 22, 624  
(A.B.C.).

**macra** Cresson. *Ibid.*, Bull. 22, 624.

**occidentalis** Linnæus. *Ibid.*, Bull. 22, 624.

**vesta** Cresson var. **zella** Rohwer. *champlaini* Rohwer. *Ibid.*,  
Bull. 22, 623.

**Ephuta** Say.

**scrupea** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 625.

**Timulla** Ashmead.

**hexagona** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 625.

**ornativentris** Cresson. *Ibid.*, Bull. 22, 625.

## Family PSAMMOCHARIDÆ.

**Ceropales** Latreille.

- bipunctata** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 626.  
**fraterna** Smith. *Ibid.*, Bull. 22, 626.  
**longipes** Smith. *Ibid.*, Bull. 22, 626.  
**robinsoni** Cresson. *Ibid.*, Bull. 22, 626.

**Pseudagenia** Kohl.

- architecta** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 627.

**Ageniella** Banks.

- calcarata** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 628.  
**iridipennis** Cresson. *Ibid.*, Bull. 22, 628.

**Priocnemis** Schiödte.

- alienata** Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 628.  
**conica** Say. *Ibid.*, Bull. 22, 628.  
**germana** Cresson. *Ibid.*, Bull. 22, 628.  
**notha** Cresson. *Ibid.*, Bull. 22, 628.

**Planiceps**.

- niger** Cresson. Trans. Am. Ent. Soc., i, 136.

**Episyron** Schiödte.

- biguttatus** Fabricius. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 631.  
**quinque-notatus** Say. *5-notatus*. *Ibid.*, Bull. 22, 631.

**Aporinellus** Banks.

- fasciatus** Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 631.

**Pompiloides** Radoszkowski.

- argenteus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 631.  
**cylindricus** Cresson. *Ibid.*, Bull. 22, 631.  
**marginatus** Say. *Ibid.*, Bull. 22, 631.  
**subviolaceus** Cresson. *Ibid.*, Bull. 22, 631.  
**tropicus** Linnæus. *Ibid.*, Bull. 22, 631.

**Sericopompilus** Ashmead.

- humilis** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 632.

**Arachnoproctonus** Ashmead.

**interruptus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 632.

**Psammochares** Latreille.

**æthiops** Cresson. (**Lophopompilus**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 633.

**atrox** Dahlbom. (**Lophopompilus**). *Ibid.*, Bull. 22, 633.

**luctuosus** Cresson. (**Psammochares**). *Ibid.*, Bull. 22, 633.

**philadelphicus** LePeletier. *Ibid.*, Bull. 22, 633.

**relativus** Fox. (**Psammochares**). *Ibid.*, Bull. 22, 633.  
(H.W.W.)

**scelestus** Cresson. (**Psammochares**). *Ibid.*, Bull. 22, 633.

**tenebrosus** Cresson. (**Psammochares**). *Ibid.*, Bull. 22, 633.

**virginiensis** Cresson. (**Ancistrus**). *Ibid.*, Bull. 22, 633.

## Family EUMENIDÆ.

**Zethus** Fabricius.

**spinipes** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 634.

**Eumenes** Fabricius.

**fraternus** Say. Potter wasp. Conn. Geol. Nat. Hist. Surv., Bull. 22, 634.

**Monobia** Saussure.

**quadridens** Linnaeus. Conn. Geol. Nat. Hist. Surv., Bull. 22, 635.

**Nortonia** Saussure.

**symmorpha** Saussure. Conn. Geol. Nat. Hist. Surv., Bull. 22, 635.

**Odynerus** Latreille.

**albomarginatus** Saussure. (**Symmorphus**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 636.

**anormis** Say. *Ibid.*, Bull. 22, 637. (H.W.W.)

**birenimaculatus** Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.

**boscii** LePeletier. *Ibid.*, Bull. 22, 637.

**campestris** Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.  
(H.W.W.)

**capra** Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.

**catskilli** Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.

- collega* Saussure. *Ibid.*, Bull. 22, 637.  
*cristatus* Saussure. (**Symmorphus**). *Ibid.*, Bull. 22, 636.  
*debilis* Saussure. (**Symmorphus**). *Ibid.*, Bull. 22, 636.  
*dorsalis* Fabricius. *Ibid.*, Bull. 22, 637.  
*foraminatus* Saussure. *Ibid.*, Bull. 22, 637.  
*leucomelas* Saussure. *Ibid.*, Bull. 22, 637.  
*nortonianus* Saussure. *Ibid.*, Bull. 22, 637.  
*pedestris* Saussure. *Ibid.*, Bull. 22, 637.  
*pennsylvanicus* Saussure. *Ibid.*, Bull. 22, 637.  
*spinolæ* Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.  
*tigris* Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.  
*unifasciatus* Saussure. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.  
*vagus* Saussure. *Ibid.*, Bull. 22, 637.  
*waldeni* Viereck. (**Ancistrocerus**). *Ibid.*, Bull. 22, 636.

## Family VESPIDÆ.

**Vespa** Linnæus.

- crabro** Linnæus. Giant hornet. Conn. Geol. Nat. Hist. Surv.,  
 Bull. 22, 641.

**Vespula** Thompson.

- consobrina** Saussure. (**Vespa**). Conn. Geol. Nat. Hist. Surv.,  
 Bull. 22, 643.  
**diabolica** Saussure. (**Dolichovespula**). *Vespa*. Common yellow  
 jacket. *Ibid.*, Bull. 22, 642.  
**germanica** Fabricius var. **pennsylvanica** Saussure. (**Vespa**).  
 Common yellow jacket. *Ibid.*, Bull. 22, 643.  
**maculata** Linnæus. (**Dolichovespula**). *Vespa*. White-faced  
 hornet. *Ibid.*, Bull. 22, 642.  
**vulgaris** Linnæus var. **communis** Saussure. *Vespa*. *Ibid.*, Bull.  
 22, 643.

**Polistes** Latreille.

- annularis** Linnæus. Conn. Geol. Nat. Hist. Surv., Bull. 22, 644.  
**pallipes** LePeletier. Common wasp. *Ibid.*, Bull. 22, 644.  
**variatus** Cresson. *Ibid.*, Bull. 22, 644.

## Family AMPULICIDÆ.

**Rhinopsis** Westwood.

- melanognathus** Rohwer. Conn. Geol. Nat. Hist. Surv., Bull.  
 22, 652.

## Family SPHECIDÆ.

**Alyson** Jurine.

**oppositus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 654.

**Nysson** Latreille.

**æqualis** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 655.

**lateralis** Packard. *Ibid.*, Bull. 22, 655.

**tramosericus** Viereck. *Ibid.*, Bull. 22, 655.

**Paramellinus** Rohwer.

**bipunctatus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 656.

**Hoplisus** LePeletier.

**costalis** Cresson. *Gorytes*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 657.

**fuscus** Taschenberg. *Gorytes*. *Ibid.*, Bull. 22, 656.

**gracilis** Patton. *Gorytes*. *Ibid.*, Bull. 22, 656.

**nebulosus** Packard. *Gorytes*. *Ibid.*, Bull. 22, 656.

**phaleratus** Say. *Gorytes*. *Ibid.*, Bull. 22, 656.

**Psen** Latreille.

**cressoni** Packard. (**Mimesa**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 659.

**pauper** Packard. (**Mimesa**). *Ibid.*, Bull. 22, 659.

**Oxybelus** Latreille.

**quadrinotatus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 659.

**Notoglossa** Dahlbom.

**emarginata** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 660.

**Anacrabro** Packard.

**ocellatus** Packard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 661.  
(S.N.D.)

**Lindenius** LePeletier.

**errans** Fox. Conn. Geol. Nat. Hist. Surv., Bull. 22, 664.

**Rhopalum** Kirby.

**pedicellatum** Packard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 664.

**Solenius** LePeletier.

**bigeminus** Packard. (**Protothyreopus**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 668.



- chrysargynus* LePeletier. (**Hypocrabro**). *Ibid.*, Bull. 22, 669.  
*decemmaculatus* Say. (**Hypocrabro**). *Ibid.*, Bull. 22, 669.  
*interruptus* LePeletier. (**Solenius**). *Ibid.*, Bull. 22, 665.  
*obscurus* Smith. (**Clytochrysus**). *Ibid.*, Bull. 22, 665.  
*producticollis* Packard. (**Solenius**). *Ibid.*, Bull. 22, 666.  
*ruffemur* Packard. (**Protothyreopus**). *Ibid.*, Bull. 22, 668.  
*sayi* Cockerell. (**Xestocrabro**). *sermaculatus*. *Ibid.*, Bull. 22,  
 667.  
*singularis* Smith. (**Lophocrabro**). *Ibid.*, Bull. 22, 667. (W.F.)  
*stirpicola* Packard. (**Hypocrabro**). *Ibid.*, Bull. 22, 668.

#### Crabro Fabricius.

- advenus* Smith. (**Synothyreopus**). Conn. Geol. Nat. Hist.  
 Surv., Bull. 22, 670.  
*æqualis* Fox. (**Crabro**). *Ibid.*, Bull. 22, 670.  
*argus* Packard. (**Crabro**). *Ibid.*, Bull. 22, 670.  
*oblongus* Packard. *Ibid.*, Bull. 22, 662.  
*tumidus* Packard. (**Synothreopus**). *Ibid.*, Bull. 22, 670.  
*unicus* Patton. *Ibid.*, Bull. 22, 663.

#### Aphilanthops Patton.

- frigidus* Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 672.

#### Philanthus Fabricius.

- bilunatus* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 673.  
*dubius* Cresson. *Ibid.*, Bull. 22, 673.  
*politus* Say. *Ibid.*, Bull. 22, 673.  
*punctatus* Say. *Ibid.*, Bull. 22, 673.  
*sanbornii* Cresson. *Ibid.*, Bull. 22, 673.  
*solivagus* Say. *Ibid.*, Bull. 22, 673.

#### Trypoxylon Latreille.

- clavatum* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 676.  
*excavatum* Say. *Ibid.*, Bull. 22, 676.  
*frigidum* Smith. *Ibid.*, Bull. 22, 676.  
*politum* Say. *albitarse*. *Ibid.*, Bull. 22, 676.  
*tridentatum* Packard. *Ibid.*, Bull. 22, 676.

#### Chlorion Latreille.

- auripes* Fernald. (**Isodontia**). Conn. Geol. Nat. Hist. Surv.,  
 Bull. 22, 679.

*bifoveolatum* Taschenberg. (**Priononyx**). *Ibid.*, Bull. 22, 679.  
*cyaneum* Dahlbom. var. *ærarium* Patton. (**Chlorion**). *Ibid.*,  
 Bull. 22, 679.

*harrisi* Fernald. (**Isodontia**). *Ibid.*, Bull. 22, 679.

*ichneumoneum* Linnæus. (**Ammobia**). *Ibid.*, Bull. 22, 680.

*pennsylvanicum* Linnæus. (**Ammobia**). *Ibid.*, Bull. 22, 680.

**Sphex** Linnæus.

*argentatus* Hart. Bull. Ill. State Lab. Nat. Hist., vii, 266.

*arvensis* Dahlbom. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 682.

*aureonotata* Cameron. Biol. Centr. Amer., Hymenop., ii, 7.

*nigricans* Dahlbom. Psyche, x, 157.

*procerus* Dahlbom. Conn. Geol. Nat. Hist. Surv., Bull. 22, 682.

**Sceliphron** Klug.

*cyaneum* Klug. *Chalybion carulcum*. Conn. Geol. Nat. Hist.  
 Surv., Bull. 22, 682.

**Pelopæus** Latreille.

*cæmentarius* Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 682.

**Lyroda** Say.

*subita* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 683.

*triloba* Say. *Ibid.*, Bull. 22, 683. (H.W.W.)

**Notogonidea** Rohwer.

*argentata* Beauvois. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 684.

**Larropsis** Patton.

*distincta* Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 684.

**Tachytes** Panzer.

*breviventris* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
 686.

*calcaratus* Fox. *Ibid.*, Bull. 22, 686.

*harpax* Patton. *Ibid.*, Bull. 22, 686.

**Tachysphex** Kohl.

*apicalis* Fox. Conn. Geol. Nat. Hist. Surv., Bull. 22, 687.

**Astata** Latreille.

*bicolor* Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 688.

*unicolor* Say. *Ibid.*, Bull. 22, 688.

**Stigmus** Panzer.

**americanus** Packard. Conn. Geol. Nat. Hist. Surv., Bull. 22, 689.

**Spilomena** Shuckard.

**pusilla** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 689.

**Passalæcus** Shuckard.

**annulatus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 689.

**Pemphredon** Latreille.

**inornatus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 690.

**tenax** Fox. *Ibid.*, Bull. 22, 690.

**Plenoculus** Fox.

**atlanticus** Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 691.

## Family BEMBECIDÆ.

**Sphecius** Dahlbom.

**speciosus** Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22, 692.

**Microbembex** Patton.

**monodonta** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 693.

**Bicyrtes** Le Peletier.*Bembidula* Burmeister.

**quadrifasciata** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 693.

**ventralis** Say. *Ibid.*, Bull. 22, 693.

**Bembix** Fabricius.

**spinolæ** LePeletier. Conn. Geol. Nat. Hist. Surv., Bull. 22, 694.

## Family CERCERIDÆ.

**Eucerceris** Cresson.

**zonatus** Say. Proc. Ent. Soc. Phila. v, 105.

**Cerceris** Latreille.

**clypeata** Dahlbom. Conn. Geol. Nat. Hist. Surv., Bull. 22, 695.

**compar** Cresson. *Ibid.*, Bull. 22, 695.

**dentifrons** Cresson. *Ibid.*, Bull. 22, 696. (J.A.H.)

**deserta** Say. *Ibid.*, Bull. 22, 695.

- fasciola* Cresson. *Ibid.*, Bull. 22, 695.  
*fulvipediculata* Schletterer. *Ibid.*, Bull. 22, 695.  
*fumipennis* Say. *Ibid.*, Bull. 22, 695.  
*imitatoria* Schletterer. *Ibid.*, Bull. 22, 695.  
*robertsoni* Fox. *Ibid.*, Bull. 22, 695. (S.N.D.)

## Family HALICTIDÆ.

*Halictus* Latreille.

- albipennis* Robertson. (*Chloralictus*). Conn. Geol. Nat. Hist. Surv., Bull. 22, 702.  
*arcuatus* Robertson. (*Evyllæus*). *Ibid.*, Bull. 22, 701.  
*cæruleus* Robertson. (*Chloralictus*). *Ibid.*, Bull. 22, 702.  
*cephalicus* Robertson. (*Paralictus*). *Ibid.*, Bull. 22, 701.  
*confusus* Robertson. (*Oxystoglossa*). *Augochlora*. *Ibid.*, Bull. 22, 701.  
*coriaceus* Smith. (*Lasioglossum*). *Ibid.*, Bull. 22, 700.  
*cressoni* Robertson. (*Chloralictus*). *Ibid.*, Bull. 22, 702.  
*foxi* Robertson. (*Evyllæus*). *Ibid.*, Bull. 22, 701.  
*lerouxi* LePeletier. (*Halictus*). *Ibid.*, Bull. 22, 701.  
*ligatus* Say. (*Halictus*). *Ibid.*, Bull. 22, 701.  
*marinus* Crawford. (*Chloralictus*). Ent. News. 15, 99.  
*nymphæarum* Robertson. (*Chloralictus*). *palustris*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 702.  
*obscurus* Robertson. (*Chloralictus*). *Ibid.*, Bull. 22, 702.  
*pectoralis* Smith. (*Evyllæus*). *Ibid.*, Bull. 22, 701.  
*persimilis* Viereck. (*Oxystoglossa*). *Augochlora*. *similis*. *Ibid.*, Bull. 22, 703.  
*pilosus* Smith. (*Chloralictus*). *Ibid.*, Bull. 22, 701.  
*provancheri* Dalla Torre. (*Halictus*). *fasciatus*. *Ibid.*, Bull. 22, 701.  
*purus* Say. (*Augochlora*). *Oxystoglossa*. *Ibid.*, Bull. 22, 701. (H.W.W.)  
*quadrinaculatus* Robertson. (*Evyllæus*). *Ibid.*, Bull. 22, 701.  
*radiatus* Say. (*Agapostemon*). *pulchra*. *Ibid.*, Bull. 22, 701.  
*sparsus* Robertson. (*Chloralictus*). *Ibid.*, Bull. 22, 702.  
*splendens* LePeletier. (*Agapostemon*). *Ibid.*, Bull. 22, 701.  
*tegaris* Robertson. (*Chloralictus*). *Ibid.*, Bull. 22, 702.  
*truncatus* Robertson. (*Evyllæus*). *Ibid.*, Bull. 22, 701.

- versatus Robertson. (*Chloralictus*). *Ibid.*, Bull. 22, 702.  
vierecki Crawford. (*Chloralictus*). *nymphalis*. *Ibid.*, Bull. 22, 702.  
virescens Fabricius. (*Agapostemon*). *nigricornis*. *viridulus*  
Authors. *Ibid.*, Bull. 22, 701.  
viridissimus Viereck. (*Augochlora*). *viridula*. *Ibid.*, Bull. 22, 700.  
zephyrus Smith. (*Chloralictus*). *Ibid.*, Bull. 22, 702.  
*Sphecodes* Latreille.  
arvensis Patton. (*Drepanium*). Conn. Geol. Nat. Hist. Surv., Bull. 22, 708.  
confertus Say. (*Drepanium*). *falcifer*. *Ibid.*, Bull. 22, 708.  
mandibularis Cresson. (*Sphecodium*). *Ibid.*, Bull. 22, 708.  
minor Robertson. (*Sphecodes*). *Ibid.*, Bull. 22, 708.

## Family ANDRENIDÆ.

*Andrena* Fabricius.

- arabis Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 712.  
asteris Robertson. *Ibid.*, Bull. 22, 713.  
barbarica Viereck. Trans. Am. Ent. Soc., xliii, 369.  
bisalicis Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22, 712.  
braccata Viereck. *Ibid.*, Bull. 22, 713.  
bradleyi Viereck. *Ibid.*, Bull. 22, 709.  
canadensis Dalla Torre. *Ibid.*, Bull. 22, 712.  
carlini Cockerell. *bicolor*. *Ibid.*, Bull. 22, 713.  
claytoniæ Robertson. *Ibid.*, Bull. 22, 776.  
cratægi Robertson. *Ibid.*, Bull. 22, 710.  
cressoni Robertson. *Ibid.*, Bull. 22, 713.  
erythrogastra Ashmead var. *rhodura* Cockerell. *Ibid.*, Bull. 22, 711.  
flavolypeata Smith. *bipunctata*. *Ibid.*, Bull. 22, 712.  
forbesi Robertson. *Ibid.*, Bull. 22, 713.  
fragilis Smith. *platyparis*. *Ibid.*, Bull. 22, 712.  
geranii maculati Robertson. *Ibid.*, Bull. 22, 710.  
hilaris Smith. *Ibid.*, Bull. 22, 713.  
hippotes Robertson. *Ibid.*, Bull. 22, 713.  
hirticincta Provaucher. *americana*. *fimbriata*. *Ibid.*, Bull. 22, 710.

- integra* Smith. *lineata*. *Ibid.*, Bull. 22, 712.  
*krigiana* Robertson. *Ibid.*, Bull. 22, 777. (E.J.S.M.)  
*mariae* Robertson var. *concolor* Robertson. *Ibid.*, Bull. 22, 713.  
*multiplicatiformis* Viereck. *Ibid.*, Bull. 22, 714.  
*nasoni* Robertson. *vestita hartfordensis*. *Ibid.*, Bull. 22, 711.  
*nivalis* Smith. *Ibid.*, Bull. 22, 711.  
*novæ-angliæ* Viereck. *Ibid.*, Bull. 22, 711.  
*nubecula* Smith. *Ibid.*, Bull. 22, 712.  
*obscura* Robertson. *Ibid.*, Bull. 22, 714.  
*perplexa* Smith var. *viburnella* Grænicher. *Ibid.*, Bull. 22, 712.  
*placida* Smith. *macgillivrayi*. *Ibid.*, Bull. 22, 711.  
*pruni* Robertson. *dunningi*. *Ibid.*, Bull. 22, 712.  
*robertsoni* Dalla Torre. *scrotina*. *Ibid.*, Bull. 22, 712.  
*rugosa* Robertson. *Ibid.*, Bull. 22, 714.  
*salictaria* Robertson. *Ibid.*, Bull. 22, 711.  
*solidaginis* Robertson. *Ibid.*, Bull. 22, 712.  
*spireana* Robertson. *Ibid.*, Bull. 22, 714.  
*thaspæi* Grænicher. *mandibularis*. *Ibid.*, Bull. 22, 713.  
*vicina* Smith. *Ibid.*, Bull. 22, 713.  
*victima* Smith. *Ibid.*, Bull. 22, 715.  
*weedi* Viereck. *Ibid.*, Bull. 22, 714.  
*wilkella* Kirby. *winkleyi* Viereck. *Ibid.*, Bull. 22, 712.  
*ziziæ* Robertson. *Ibid.*, Bull. 22, 712.  
*ziziæformis* Cockerell. *Can. Ent.*, 49, 234.

#### Family DUFOUREIDÆ.

##### *Halictoides* Nylander.

- novæangliæ* Robertson. (*Conohalictoides*). *Conn. Geol. Nat. Hist. Surv.*, Bull. 22, 720.

#### Family MACROPIDÆ.

##### *Macropis* Panzer.

- ciliata* Patton. *Conn. Geol. Nat. Hist. Surv.*, Bull. 22, 720.  
*patellata* Patton. *Ibid.*, Bull. 22, 720.

## Family PANURGIDÆ.

**Perdita** Smith.

*novæangliæ* Viereck. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
721.

*octomaculata* Say. *Cockerellia*. *Ibid.*, Bull. 22, 721.

**Panurginus** Nylander.

*asteris* Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 721.

*parvus* Robertson. *Ibid.*, Bull. 22, 721.

**Calliopsis** Smith.

*andreniformis* Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
722.

## Family NOMADIDÆ.

**Nomada** Fabricius.

*americana* Kirby. (**Centrias**). Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 723.

*cuneata* Robertson. (**Gnathias**). *Ibid.*, Bull. 22, 726.

*denticulata* Robertson. *Ibid.*, Bull. 22, 725.

*illinoiensis* Robertson. *Ibid.*, Bull. 22, 724. (H.W.W.)

*imbricata* Smith. (**Holonomada**). *Ibid.*, Bull. 22, 724.

*incerta* Cresson. (**Centrias**). *Ibid.*, Bull. 22, 724.

*obliterata* Cresson. (**Heminomada**). *Ibid.*, Bull. 22, 725.

*pygmæa* Cresson. *Ibid.*, Bull. 22, 726.

*sayi* Robertson. *Ibid.*, Bull. 22, 725.

*vicina* Cresson. *Ibid.*, Bull. 22, 724.

**Epeoloides** Giraud.*Viereckella* Swenk.

*pilosula* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 727.  
(E.L.D.)

**Epeolus** Latreille.

*pusillus* Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 728.

**Triepeolus** Robertson.

*donatus* Smith. Conn. Geol. Nat. Hist. Surv., Bull. 22, 729.

*lunatus* Say. *Ibid.*, Bull. 22, 730.

**Holcopasites** Ashmead.*Neopasites* Ashmead.

*illinoiensis* Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
730.

Family EUCERIDÆ.

**Mellissodes** Latreille.

*bimaculata* LePeletier. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
731.

*dentiventris* Smith. *Ibid.*, Bull. 22, 732.

*desponsa* Smith. *Ibid.*, Bull. 22, 732.

*perplexa* Cresson. *Ibid.*, Bull. 22, 732.

*rustica* Say. *Ibid.*, Bull. 22, 731.

**Tetralonia** Spinola.

*atriventris* Smith. *Synhalonia*. Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 733.

**Xenoglossa** Smith.

*pruinosa* Say. (**Peponapis**). Conn. Geol. Nat. Hist. Surv.,  
Bull. 22, 733.

Family ANTHOPHORIDÆ.

**Anthophora** Latreille.

*floridana* Smith. (**Emphoropsis**). Conn. Geol. Nat. Hist.  
Surv., Bull. 22, 735.

*terminalis* Cresson. (**Clisodon**). *Ibid.*, Bull. 22, 736.

Family HYLÆIDÆ.

**Hylæus** Fabricius.*Prosopis* Fabricius.

*ellipticus* Cockerell. Conn. Geol. Nat. Hist. Surv., Bull. 22, 737.

*modestus* Say. *affinis*. *Ibid.*, Bull. 22, 738.

*pygmæus* Cockerell. *Ibid.*, Bull. 22, 737.

*saniculæ* Robertson. Can. Ent., xxxvi, 273.

*ziziæ* Robertson. *Ibid.*, Bull. 22, 737.

Family COLLETIDÆ.

**Colletes** Latreille.

*æstivalis* Patton. Conn. Geol. Nat. Hist. Surv., Bull. 22, 740.

*compactus* Cresson. *Ibid.*, Bull. 22, 739.



- inæqualis* Say. *Ibid.*, Bull. 22, 739.  
*validus* Cresson. *Ibid.*, Bull. 22, 740.  
 sp. *Ibid.*, Bull. 22, 741.

## Family STELIDIDÆ.

**Stelis** Panzer.

- foederalis* Smith. (**Microstelis**). *nitida*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 741.  
*lateralis* Cresson. (**Microstelis**). *Ibid.*, Bull. 22, 741.

## Family MEGACHILIDÆ.

**Megachile** Latreille.

- brevis* Say. (**Megachile**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 743.  
*exclamans* Viereck. (**Xanthosarus**). *Ibid.*, Bull. 22, 743.  
*infragilis* Cresson. (**Anthemois**). *Ibid.*, Bull. 22, 743.  
*latimana* Say. (**Xanthosarus**). *femoratus*. *Ibid.*, Bull. 22, 744.  
*mendica* Cresson. (**Megachile**). *Ibid.*, Bull. 22, 745.  
*vidua* Smith. (**Delomegachile**). *frigida*. *Ibid.*, Bull. 22, 743.  
 (H.W.W.)

**Cœlioxys** Latreille.

- dubitata* Smith. *rufitarsis*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 746.  
*dubitata* var. *melanopoda* Viereck. *Ibid.*, Bull. 22, 747.  
*mæsta* Cresson. *Ibid.*, Bull. 22, 746.  
*octodentata* Say. *Ibid.*, Bull. 22, 747.  
*sayi* Robertson. *Ibid.*, Bull. 22, 747.

**Osmia** Panzer.

- albiventris* Cresson. (**Leucosmia**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 749.  
*atriventris* Cresson. (**Osmia**). *Ibid.*, Bull. 22, 749.  
*conjuncta* Cresson. (**Diceratosmia**). *Ibid.*, Bull. 22, 748.  
*distincta* Cresson. (**Nothosmia**). *Ibid.*, Bull. 22, 748.  
*lignaria* Say. (**Ceratosmia**). *Ibid.*, Bull. 22, 748.  
*major* Robertson. (**Osmia**). *Ibid.*, Bull. 22, 749.  
*pumila* Cresson. (**Osmia**). *Ibid.*, Bull. 22, 749.  
*purpurea* Cresson. (**Osmia**). *Ibid.*, Bull. 22, 748.  
*rustica* Cresson. (**Osmia**). *Ibid.*, Bull. 22, 749. (H.W.W.)

**Andronicus** Cresson.

**cylindricus** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 751.

**pilosifrons** Cresson. (**Alcidamea**). *Ibid.*, Bull. 22, 751.

**productus** Cresson. (**Alcidamea**). *Ibid.*, Bull. 22, 751.

**truncatus** Cresson. (**Alcidamia**). *Ibid.*, Bull. 22, 751.

**Heriades** Spinola.

**carinatus** Cresson. (**Trypetes**). Conn. Geol. Nat. Hist. Surv., Bull. 22, 751.

**Dianthidium** Cockerell.

**notatum** Latreille. Conn. Geol. Nat. Hist. Surv., Bull. 22, 752.

**simile** Cresson. *Ibid.*, Bull. 22, 752.

## Family CERATINIDÆ.

**Ceratina** Latreille.

**dupla** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 753.

**metallica** H. S. Smith. *Ibid.*, Bull. 22, 753.

## Family XYLOCOPIDÆ.

**Xylocopa** Latreille.

**virginica** Drury. Conn. Geol. Nat. Hist. Surv., Bull. 22, 753.

## Family APIDÆ.

**Bremus** Panzer.*Bombus* Latreille.

**affinis** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 755.

**bimaculatus** Cresson. *Ibid.*, Bull. 22, 757.

**fervidus** Fabricius. *Ibid.*, Bull. 22, 755.

**impatiens** Harris. *virginicus*. *Ibid.*, Bull. 22, 756.

**pennsylvanicus** DeGeer. *americanorum* DeGeer. *Ibid.*, Bull. 22, 755.

**perplexus** Cresson. *Ibid.*, Bull. 22, 756.

**ternarius** Say. *Ibid.*, Bull. 22, 756.

**terricola** Kirby. *Ibid.*, Bull. 22, 755.

**vagans** Smith. *Ibid.*, Bull. 22, 755.

**vagans** var. **consimilis** Cresson. *Ibid.*, Bull. 22, 756.

**Bombias** Robertson.

**auricomus** Robertson. Conn. Geol. Nat. Hist. Surv., Bull. 22,  
758. (H.W.W.)

**separatus** Cresson. *Ibid.*, Bull. 22, 758.

**Psithyrus** LePeletier.

**ashtoni** Cresson. Conn. Geol. Nat. Hist. Surv., Bull. 22, 759.

**laboriosus** Fabricius. *citrinus*. *Ibid.*, Bull. 22, 759.

**laboriosus** var. **contiguus** Cresson. *Ibid.*, Bull. 22, 760.

**variabilis** Cresson. *Ibid.*, Bull. 22, 759.

**Apis** Linnæus.

**mellifera** Linnæus. *mellifica*. Honey bee. Conn. Geol. Nat.  
Hist. Surv., Bull. 22, 760.



## APPENDIX

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After the list was set up in type and arranged in the preceding pages, a number of additional genera and species were recognized or were reported from Connecticut material. Some of these additions have been included in the pages where they belong, but others cannot be inserted without entirely rearranging the matter on many pages. It has also seemed necessary to use certain references which are not explained in the Key on page 13; these references and the additional genera and species are given in the following pages:—

### KEY TO ADDITIONAL REFERENCES

(See Page 13.)

- Afid. Ital.**—Prospecto dell' Afido fauna Italica, by Giacomo Del Guercio. Nuove Relazioni intorno ai lavori della R. Stazione di Entomologia Agraria di Firenze. Serie Prima — No. 2. Firenze, 1900.
- Ann. Hist. Nat.**—Annus Historico Naturalis, by J. A. Scopoli, 5 volumes, Lipsiæ, Hillscher, 1768-1772.
- Biol. Centr. Am. Heterop.**—Biologia Centrali-Americana, Heteroptera, volume i, by W. L. Distant, London, 1880-1893.  
·Hymenop. vol. ii, by P. Cameron, 1888.
- Bull. Soc. Sci. Buc.**—Bulletin de la Société des Sciences de Bucarest-Roumanie, Bucarest.
- Cat. Macrolep.**—Butterflies and Moths of North America. A complete synonymical catalogue of Macrolepidoptera, with full bibliography, by Herman Strecker, 1878.
- Coleop. Neerland.**—Coleoptera Neerlandica, De Schildvleugelige insecten van Nederland enhet aangrenzend gebied, by Ed. Everts, Gravenhage, 1898.
- Contr. Nat. Hist. Lepidop.**—Contributions to the Natural History of the Lepidoptera of North America, by William Barnes and J. H. McDunnough, Decatur, Ill. Begun in 1911.

- Descr. Hymenop. Chalcid.**—*Descriptions Hymenopterorum Chalcidoidicorum cum Observationibus*, by A. A. Girault, *The Entomologist*, pages 36-38, London, 1917.
- Faun. Ent. Can. Hym.**—*Petite Faune Entomologique du Canada*, ii, Hymenopteres. By Abbé Leon Provancher, Quebec, 1883.
- Faun. Suec.**—*Fauna Suecica Sistens animalia Suecice regni*, by C. V. Linnæus, Stockholm, Sweden, 1746.
- Freg. Eugenies Resa. Hemip.**—*Kongliga Svenska Fregattens Eugenies resa omkring Jorden, Hemiptera*, Stockholm, 1859.
- Ichneumon. d. Forstins.**—*Die Ichneumonien der Forstinsecten in forstlicher and entomologischer Beziehung*, by J. T. C. Ratzeburg, 3 volumes, Berlin, 1844-1852.
- Illus. Besttabl. Kaf. Deutsch.**—*Illustrierte Bestimmungstabellen der Käfer Deutschlands*, by Paul Kubnt, Stuttgart, 1912.
- Ins. Lapp.**—*Insecta Lapponica descripta*, by J. W. Zetterstedt, 6 volumes, Lipsiae, Voss, 1840.
- Kafer.**—*Natursystem aller bekannten in- und ausländischen insecten; nach dem System des Ritters Carl von Linné bearbeitet (von C. G. Jablonsky), fortgesetzt von J. F. W. Herbst*, 21 volumes, Bd. 1-10, Kafer, Berlin, Pauli, Germany, 1785-1786.
- Long's Exp.**—*Narrative of an Expedition to the Source of St. Peter's River, &c*, 1824, Appendix. (Usually cited as Long's Expedition.)
- Mon. Bupr.**—*Monograph of the Buprestidæ*, from *Histoire Naturelle et Iconographie des Coleopteres*, by F. L. de Laporte and H. Gory, Paris, 1835-1841.
- Mon. Hister.**—*Essai monographique sur la famille des Histerides*, by S. A. de Marseul. *Annals de la Société Entomologique de France*, Series 3, 1853—Series 4, 1862, Paris.
- Penn. Bur. Pl. Ind.**—*Pennsylvania Bureau of Plant Industry, Technical Series, Bulletin No. 1*, by J. G. Sanders and D. M. DeLong. Harrisburg, Pa., 1920.

- Spec. Ins.**—Species Insectorum, by J. C. Fabricius, 2 volumes, 1781.
- Syn. Ins.**—Synonymia Insectorum, by C. J. Schoenherr, 4 parts and Supplement, Stockholm and Skara, 1806-1817.
- Tenn. State Bd. Ent.**—Tennessee State Board of Entomology, Bulletin 17, The Leafhoppers or Jassoidea of Tennessee, by Dwight M. DeLong, Knoxville, Ten., 1916.
- Zweiflüg. Ins.**—Zweiflügeligen Insekten Systematische Beschreibung der bekannten Europäischen, by Johann Wilhelm Meigen, 7 volumes, Achen and Hamm, 1818-1838.

## ADDITIONS TO CHECK LIST

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The following species have been recorded from Connecticut and should be added to the list given on the foregoing pages:—

### Order **ODONATA**.

#### Family **AGRIONIDÆ**.

(See page 33.)

#### **Argia** Rambur.

**translata** Hagen. Biol. Centr. Am., Neuroptera, 76, 1901.

#### Family **LIBELLULIDÆ**.

(See page 35)

#### **Somatochlora** Selys.

(See page 36)

**linearis** Hagen. Trans. Am. Ent. Soc., xx, 253.

### Order **HEMIPTERA**.

#### Family **CICADELLIDÆ**.

(See page 47)

#### **Idiocerus** Lewis.

**cognatus** Fieber. Ent. Am., vi, 226.

**duzeii** Provancher. *perplexus* Gillette and Baker. Hemip. Col., 78.

#### **Macropsis** Lewis.

**gleditschiæ** Osborn and Ball. *Pediopsis*. Tenn. State Bd. Ent., Bull. 17, 16.

#### **Oncopsis** Burmeister.

**pruni** Provancher. Me. Agr. Expt. Sta., Bull. 238, 87.

#### **Aucecephalus** Germar.

**nervosus** Schrank. *striatus* Linnæus. Me. Agr. Expt. Sta., Bull. 238, 107.



**Xestocephalus** Van Duzee.

- pulicarius** Van Duzee. Tenn. State Bd. Ent., Bull. 17, 35.  
**superbus** Provancher. *fulvocapitatus* Van Duzee. *Ibid.*, Bull.  
 17, 35.

**Parabolocratus** Fieber.

- major** Osborn. Me. Agr. Expt. Sta., Bull. 238, 110.

**Platymetopiis** Burmeister.

- fulvus** Osborn. Rept. N. Y. State Ent., 20, 519.

**Deltocephalus** Burmeister.

- areolatus** Ball. Can. Ent., xxxi, 188.

**Euscelis** Brullé.*Athysanus.*

- cuneatus** Sanders and DeLong. Penn. Bur. Pl. Ind., Tech. Bull.  
 1, 17.  
**parallelus** Van Duzee. Can. Ent., xxiii, 169.

**Gypona** Germar.

- pectoralis** Spangberg. *albimarginata* Woodworth. *hullensis* Pro-  
 vancher. Proc. U. S. Nat. Mus., 56, 94.

**Thamnotettix** Zetterstedt.

- inornatus** Van Duzee. Tenn. State Bd. Ent., Bull. 17, 81.  
**morsei** Osborn. Me. Agr. Expt. Sta., Bull. 238, 134.

**Cicadula** Zetterstedt.

- lepida** Van Duzee. Tenn. State Bd. Ent., Bull. 17, 94.  
**slossoni** Van Duzee. Can. Ent., xxv, 281.

**Empoasca** Walsh.

- aureo-viridis** Uhler. Tenn. State Bd. Ent., Bull. 17, 100.  
**obtusa** Walsh. *Ibid.*, Bull. 17, 100.

**Erythroneura** Fitch.

- obliqua** Say var. **dorsalis** Gillette. Tenn. State Bd. Ent., Bull.  
 17, 105.  
**trifasciata** Say. *Ibid.*, Bull. 17, 106.  
**vitis** Harris var. **stricta** McAtee. Trans. Am. Ent. Soc., xlv, 305.

## Family MEMBRACIDÆ.

(See page 53)

**Acutalis** Fairmaire.**tartarea** Say. Bull. Buff. Soc. Nat. Sci., ix, 51.**Achasia** Stål.**belfragei** Stål. Bull. Buff. Soc. Nat. Sci., ix, 73.

## Family MIRIDÆ.

**Phytocoris** Fallen.

(See page 71)

**buenoi** Knight. Bull. Brook. Ent. Soc., xv, 57.**conspurcatus** Knight. *Ibid.*, xv, 61.**corticevivens** Knight. *Ibid.*, xv, 63.**penipectus** Knight. *Ibid.*, xv, 58.**salicis** Knight. *Ibid.*, xv, 56.**sulcatus** Knight. *Ibid.*, xv, 64.

## Order LEPIDOPTERA.

## Family GLYPHIPTERYGIDÆ.

(Belongs near Tortricidæ, see page 96)

**Hemerophila** Hubner.**pariana** Clerck. *Simethis*. Apple and thorn skeletonizer. Rept. N. Y. State Ent., 33, 33.

## Family TORTRICIDÆ.

(See page 96.)

**Olethreutes** Hübner.

(See page 97)

**hemidesma** Zeller. Rept. Conn. Agr. Expt. Sta., 1917, 364, Pl. xxxi, b.

## Family PYRALIDÆ

(See page 103)

**Acrobasis** Zeller.

(See page 109)

**demotella** Grote. Wash. Ent. Soc., x, 41.

Order **DIPTERA.**Family **CECIDOMYIDÆ (ITONIDIDÆ).**

(See page 168)

**Diarthronomyia** Felt.**hypogæa** Loew. Chrysanthemum gall midge. Rept. Conn. Agr. Expt. Sta., 1919, 161, pl. xxxi.**Cincticornia** Felt.

(See page 169)

**pillulæ** Walsh and Riley. N. Y. State Mus. Bull., 200, 90.**Caryomyia** Felt.

(See page 169)

**holotricha** Osten Sacken. N. Y. State Mus. Bull., 200, 47.Family **SCATOPSIDÆ.**

(See page 171)

**Ectætia** Enderlein.**clavipes** Loew. *Scatopse.* Linn. Ent., i, 333. (H.L.J.)Family **SYRPHIDÆ.**

(See page 184)

**Xylota** Meigen.

(See page 188)

**tuberans** Williston. Syn. N. A. Syrph., 225.Family **TACHINIDÆ.**

(See page 190)

**Tachina** Meigen.

(See page 194)

**simulans** Meigen. Zweiflüg. Ins., iv, 306.Family **SCIOMYZIDÆ.**

(See page 201)

**Limnia** Desvoidy.**boscii** Desvoidy. Ann. Ent. Soc. Am., xiii, 323.**Tetanocera** Dumeril**elata** Fabricius. Ann. Ent. Soc. Am., xiii, 328.**rotundicornis** Loew. *Ibid.*, xiii, 328.**vicina** Macquart. *Ibid.*, xiii, 327.

Order **COLEOPTERA.**

## Family DYTISCIDÆ.

**Deronectes** Sharp.

(See page 220)

**griseostriatus** DeGeer. Coleop. Ind., 216. (K.F.C.)**Hydroporus** Clairville.

(See page 220)

**spurius** LeConte. Proc. Acad. Nat. Sci., 1855, 296. (K.F.C.)

## Family HYDROPHILIDÆ.

**Hydrobius** Leach.

(See page 223)

**tessellatus** Ziegler. Coleop. Ind., 263. (K.F.C.)

## Family LAMPYRIDÆ.

(See page 234)

**Photinus** Laporte.**marginellus** LeConte. Trans. Am. Ent. Soc., ix, 35.

## Family ELATERIDÆ.

**Melanotus** Eschscholtz.

(See page 242)

**castanipes** Paykull. Coleop. Ind., 746.**depressus** Melsheimer. *Ibid.*, 755.sp. near **sagittarius** LeConte.

## Family EROTYLIDÆ.

(See page 251)

**Mycotretus** Lacordaire.**pulchra** Say. Trans. Am. Ent. Soc., iv, 354.

## Family TENEBRIONIDÆ.

(See page 257)

**Scaphidema** Redtenbacher.**aneolum** LeConte. Coleop. Ind., 1265.

## Family MELANDRYIDÆ.

(See page 259)

**Serropalpus** Hellwig.**barbatus** Scholl. Illus. Besttabl. Kaf. Deutsch., 727.**Eustrophinus** Seidletz (See page 259)**tomentosus** Say. Coleop. Ind., 1293. (K. F. C.)

## Family SCARABÆIDÆ.

**Aphodius** Illiger.

(See page 262)

**hæmorrhoidalis** Linnæus. Syst. Nat., 1, 348.

## Family CERAMBYCIDÆ.

(See page 266)

**Leptostylus** LeConte.

(See page 270)

**aculiferus** Say. Trans. Am. Ent. Soc., viii, 121.**Oberea** Mulsant.

(See page 272)

**tripunctata** Swederus var. **myops** Haldeman. Trans. Am. Ent. Soc., vii, 47.

## Family CHRYSOMELIDÆ.

**Diabrotica** Chevrolat.

(See page 277)

**longicornis** Say. Coleop. Ind., 1172. (K.F.C.)

## Family CURCULIONIDÆ.

**Acanthoscelis** Dietz.

(See page 286)

**curtus** Say. Rhyn. N. E. Am., 431. (K.F.C.)**Ceutorhynchus** Germar (See page 287)**semirufus** LeConte. Rhyn. N. E. Am., 451. (K.F.C.)

Order **HYMENOPTERA.**Family **TENTHREDINIDÆ.**

(See page 292)

**Hemichroa** Stephens.**dyari** Rohwer. Proc. Wash. Ent. Soc., xx, 171**Trichiocampus** Hartig (See page 297.)**gregarius** Dyar. *Cladius gregarius*. Conn. Geol. Nat. Hist. Surv., Bull. 22, 110.**irregularis** Dyar. *Priophorus irregularis*. Journ. N. Y. Ent. Soc., viii, 28.**Pteronidea** Rohwer.

(See page 298)

**alnivora** Rohwer. Proc. U. S. Nat. Mus., lvii, 213.**Kaliofenusa** MacGillivray.(Belongs near **Erythraspidæ**, page 299)**ulmi** Sundewall. Elm leaf-miner. Conn. Geol. Nat. Hist. Surv., Bull. 22, 157.Family **BRACONIDÆ.**

(See page 305)

**Cyanopterus** Wesmael.

sp.

Family **ICHNEUMONIDÆ.****Campoplex** Gravenhorst.

(See page 309)

**validus** Cresson. *Linnerium validum*. *Mesoleptus*. Proc. Ent. Soc. Phila., iii, 258.**Arotes** Gravenhorst.

(See page 315)

**decorus** Say. Conn. Geol. Nat. Hist. Surv., Bull. 22, 326.Family **EULOPHIDÆ.**

(See page 323)

**Dimmockia** Ashmead.**incongrua** Ashmead. *Eulophus*. Proc. Wash. Ent. Soc., iv, 158.

## Family CHALCIDIDÆ.

(See page 326)

**Rhopalicus** Förster.

suspensus Ratzeburg. *Pteromalus*. Ichneumon. d. Forstins.,  
i, 189.





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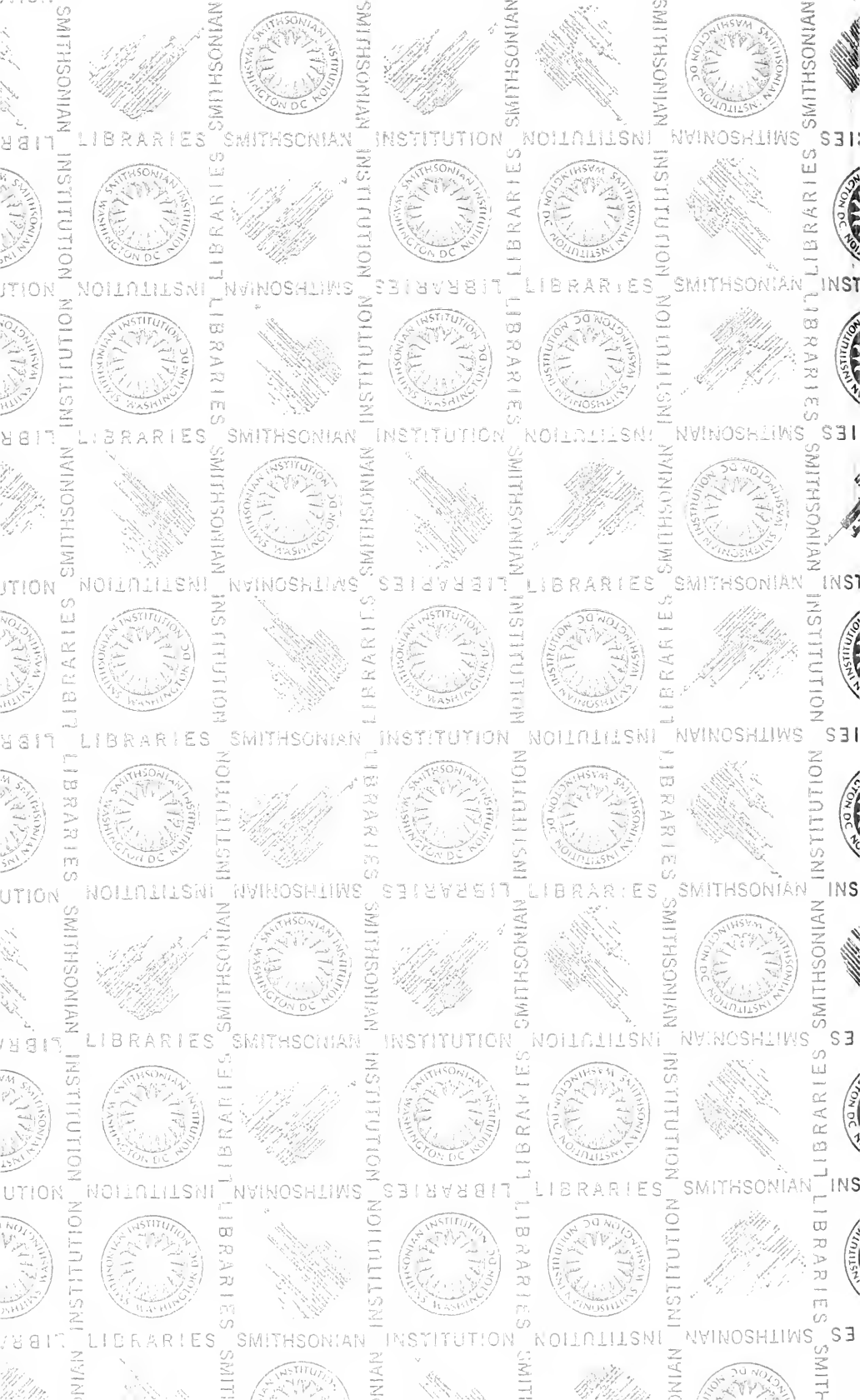
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