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# BULLETIN

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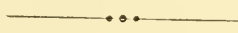
UNITED STATES NATIONAL MUSEUM.

No. 35.

BIBLIOGRAPHICAL CATALOGUE OF THE DESCRIBED TRANSFORMATIONS  
OF NORTH AMERICAN LEPIDOPTERA.

BY

HENRY EDWARDS.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1889.

## ADVERTISEMENT.

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The present publication (Bulletin No. 35) is the forty-sixth of a series of papers intended to illustrate the collections belonging to the United States, and constituting the National Museum, of which the Smithsonian Institution was placed in charge by the act of Congress of August 10, 1846.

The publications of the National Museum consist of two series—the Bulletins, of which this is No. 35, in continuous series, and the Proceedings, of which the eleventh volume is now in press.

The volumes of Proceedings are printed, signature by signature, each issue having its own date, and a small edition of each signature is distributed to libraries promptly after its publication.

Full lists of the publications of the Museum may be found in the current catalogues of the publications of the Smithsonian Institution.

Papers intended for publication in the Proceedings and Bulletins of the National Museum are referred to the Committee on Publications, consisting of the following members: T. H. Bean, A. Howard Clark (editor), Otis T. Mason, John Murdoch, Leonhard Stejneger, Frederick W. True, and Lester F. Ward.

S. P. LANGLEY,

*Secretary of the Smithsonian Institution.*

*Washington, January 23, 1889.*



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(3)



## PREFACE.

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I believe that the present Catalogue will supply a want that has long been felt by many entomologists, and though it may be far from perfect, it will, I trust, be acceptable to the students of the earlier stages of North American Lepidoptera. In its compilation I have occupied a good portion of the spare time at my command for three years past, and have carefully examined every publication that has been accessible to me. I know that many references may possibly have been omitted, the works in which they occur not being within my reach, but I trust that few if any *species* have been overlooked altogether. Should such be the case, however, I shall be greatly indebted to my entomological friends if they will point them out to me, as it is my intention to issue a supplement to this list once a year, and thus keep up with the knowledge of what descriptions have been recorded. In the nomenclature I have followed the catalogue of W. H. Edwards in the *Diurnæ*; Grote's Check List (1882) in the *Macro-Lepidoptera*; Professor Fernald in the *Tortricidæ*; Stainton, Clemens, and Chambers in the *Tineidæ*; and Lord Walsingham in the *Pterophoridaæ*. Of the two latter families no catalogue of our species exists, and I therefore ask for indulgence should any errors in the sequence of the genera or otherwise be detected. It has been my aim to make the references as clear but at the same time as brief as possible, and I have, as will be seen, arranged all descriptions according to the date of their publication. When the words (quotes Harris, *e. g.*) occur after the name of the describer, it will be understood that the *text* of the description has been used; but when the words (*after* Riley or Abb. Sm., etc.) are found, it will mean that the *drawing* or *engraving* has been borrowed from these authors. In all the species, where known to me, the food-plant has been given, except in the case of the *Arctias* and in *Agrotis*, the former being almost general feeders, and the latter living chiefly on grasses and low herbaceous plants. If a reference is followed by the word (brief), it signifies that the same is but a mere mention, often perhaps only a food-plant, but it has been deemed advisable to include such notices. In the appendix are a few species not referable to any known insects, and I have added a short list of some papers which may be of value to the students of transformations. I should like also to call attention to the admirable "life histories" by Messrs. Riley, French, Edwards, Saunders, Packard, H. H. Clark, and others, which are scattered through Entomological Reports, both State and National, the Canadian Entomologist, "Papilio," "Entomologica Americana," and kindred publications, papers which may advantageously be studied by future

describers as models of style and accuracy. I desire to tender my warmest thanks to Professor Riley, Mr. S. H. Scudder, Mr. J. B. Smith, Mr. W. H. Edwards, and Mr. W. Beutenmüller for much valuable aid, both in the loan of publications and the copying of references, thus greatly assisting me in my task.

I earnestly hope that the publication of this catalogue will be the means of inducing observers to take a wider and more extended interest in the preparatory stages, and to place as early as possible upon record the results of their studies. It will be readily seen that though, up to the end of the *Bombycidae*, a good deal has already been done, the knowledge of the transformations of the *Noctuidae* and succeeding families is slight indeed, and it is to these groups that attention is especially directed. Should this list be instrumental in adding to our information regarding the many species of Lepidoptera, of whose earlier stages we now know so little, my labor will be rewarded, and the many hours passed in its preparation will not have been occupied in vain.

HENRY EDWARDS

NUMBER OF SPECIES OF WHICH EARLIER STAGES ARE RECORDED IN THIS CATALOGUE.

NAME.	No. of species.
Rhopalocera.....	180
Sphingide.....	55
Egeriade.....	16
Zygaenide.....	13
Bombyces.....	178
Noctuide.....	188
Geometride.....	101
Pyralide.....	39
Tortricide.....	61
Tineide.....	232
Pterophoridae.....	16
Total.....	1,069

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- AMERICAN NATURALIST.
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Insects Abroad.



## ERRATA.

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- Page 17, line 10 from top—read *Astragalus*, *Crotalaria* for *Astragalus crotalaria*.  
Page 20, line 19 from top—read *Argyranis* for *Argynis*.  
Page 21, line 13 from top and line 27 from bottom—read *Castilleia* for *Castileja* and *Casteleja*.  
Page 45, line 7 from top—read *Ulmus americana* for *Ulmus americanus*.  
Page 58, line 21 from top—read *Euothena* for *Enothena*.  
Page 61, line 6 from top—read *Asclepias tuberosa* for *Asclepias tuberosum*.  
Page 64, line 3 from top—read *Quercus* for *Quercus*.  
Page 67, top line—read *Thyridopteryx* for *Thyridoptery*.  
Page 94, line 22 from top—read *Crucifera* for *Crucifera*.  
Page 94, line 27 from top—read *Anarta* for *Ararta*.  
Page 109, line 1 from bottom—read *Fuchsia* for *Fuschia*.  
Page 112, line 1 from bottom—read *Oxycoccus* for *Occycoccus*.



# DESCRIBED TRANSFORMATIONS OF NORTH AMERICAN LEPIDOPTERA.

## RHOPALOCERA.

### **Papilio ajax.** L. (and vars.)

1797. Larva, chrys., (col'd figs.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 4.  
1833. Larva, chrys., (col'd figs.) *Boisduval—Leconte*. Hist. Lep. N. Amer., pp. 4-8, pl. 1-2.  
1836. Larva. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, pp. 257-259.  
1859. Larva, chrys., (figs.) *P. H. Gosse*. Letters from Alabama, p. 51.  
1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 209.  
1871. Life hist., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 1st series, pl. Papilio, 1, 2, 3.  
1880. Larva. *Miss N. Middleton*. Trans. Dep't Agr. Ill., vol. 18, Appendix, p. 74.  
1884. Larva, (figs.) *Dr. A. Gruber*. Jena. Zeitschr. Nat. Copied in Papilio, vol. 4, p. 88.  
1886. Life hist., (condensed.) *G. H. French*. Butt. East. U. States, p. 85.  
FOOD PLANT. *Asimina triloba*. (Pawpaw.)

### **Papilio philenor.** Fab.

1797. Larva. *Abbot—Smith*. Lep. Ins. Georgia, pl. 3.  
1833. Larva, (col'd figs.) *Boisduval—Leconte*. Hist. Lep. N. Amer., p. 29, pl. 11.  
1836. Larva, chrys. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 325.  
1837. Larva, chrys. *Westwood*, (quotes Abb.-Sm.) Drury's Ill. Exot. Entom., vol. 1, p. 21.  
1861. Larva. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 6.  
1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 209.  
1869. Larva, chrysalis, (figs.) *Harris*. Entom. Cones., p. 273.  
1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 116.  
1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc.  
1874. Chrysalis, (fig.) *Scudder*. Geology N. Hampshire, pl. A.  
1875. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 162.  
1877. Larva. *G. H. French*. Trans. Dept. Agr. Ill. vol. 15, p. 136.  
1880. Larva, (figs.) *D. W. Coquillett*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 164.  
1880. Larva, (figs.) *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 73.  
1880. Larva, chrysalis, (figs.) *W. Saunders*. Rept. Entom. Soc. Ontario, p. 37.  
1881. Life hist. *W. H. Edwards*. Canad. Entom., vol. 13, p. 9.  
1881. Larva, chrysalis, (figs.) *S. H. Scudder*. Butterflies, their structure, etc., p. 22.  
1884. Larva, (figs.) *Dr. A. Gruber*. Jena Zeitschr. Nat. Copied in Papilio, vol. 4, p. 88.  
1886. Life history, (figs.) *G. H. French*. Butt. East. U. States, p. 88.  
FOOD PLANTS. Species of *Aristolochiæ*.

### **Papilio zolicaon.** Bdv.

1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 163.  
1875. Larva, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Papilio, 6.  
1884. Life hist. *W. H. Edwards*. Papilio, vol. 4, p. 162.  
FOOD PLANTS. Species of *Umbellifera*.

**Papilio brevicauda.** Saund.

1873. Egg, young larva. (figs.) *H. Strecker*. (quotes Couper in lit.) Rhopal. et Heteroc. pp. 49-60, pl. 8.  
 1875. Egg, larva (col'd fig.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Papilio, 8.  
 1880. Life hist., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, part 9, pl. Papilio, 8.  
 1883. Larva. *P. H. Gosse*, in Journal from 1832 to 1835. Canad. Entom., vol. 15, p. 45.  
 1884. Larva, (brief.) *Gruber*. Jena Zeitschr. Nat. Copied in Papilio, vol. 4, p. 86.  
 1885. Egg, larva. *W. H. Edwards*, (quotes Couper in lit.) Butt. N. Amer., 2d series, pl. 13.

FOOD PLANTS. Various species of *Umbellifera*.

**Papilio machaon.** L. var. **aliaska.** Seud.

1881. Larva, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. 14.  
 FOOD PLANT. Species of *Umbellifera*.

**Papilio oregonia.** Edw.

1882. Larva, chrysalis. *R. H. Stretch*. Papilio, vol. 2, p. 120.  
 FOOD PLANT. "Wild parsnip."

**Papilio asterias.** Tab.

1833. Larva, chrys., (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer., p. 14, pl. 4.  
 1836. Larva, chrys. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, p. 333.  
 1841. Life history, (brief.) *Harris*. Ins. Inj. Vegetat., 1st edit., p. 212.  
 1852. Life history, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 231.  
 1857. Larva, chrysalis, (figs.) *Anonymous*. Canad. Nat. and Geolog., vol. 2, p. 222.  
 1861. Larva. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 6.  
 1862. Life history, (col'd figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 263, pl. 4.  
 1864. Egg, larva, chrysalis. *Lintner*. Proc. Entom. Soc. Phila., vol. 3, p. 51.  
 1864. Larva, (fig.) *Jaeger*. Life N. Amer. Ins., p. 208.  
 1867. Larva, chrys., (figs.) *Saunborn Tenney*. Manual of Zoology, figs. 281, 282.  
 1869. Larva. *Harris*. Entom. Corres., p. 270.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 164.  
 1876. Larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 38.  
 1877. Larva. *Packard*. Inj. Ins. West. Hayden's Rept., p. 765.  
 1877. Larva. *G. H. French*. Trans. Dept. Agr. Ill., vol. 15, p. 137.  
 1878. Larva, chrys. *Dewitz*. Zeitsch. gesament. natur.  
 1878. Larva, chrys., (figs.) *H. Dewitz*. Weigemann Archiv. Naturgesch, p. 4, pl. 1.  
 1879. Larva, chrysalis, (figs.) *Mrs. J. P. Ballard*. Insect Lives, p. 32.  
 1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., App., vol. 18, p. 74.  
 1880. Larva. *D. W. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, App., p. 173.  
 1881. Larva, (figs.) *S. H. Scudder*. Butterflies, their structure, etc., p. 21.  
 1884. Egg, larva, chrys. *C. H. Fernald*. Butterflies of Maine, p. 22.  
 1884. Larva. *Dr. A. Gruber*. Jena Zeitschr. Nat. Copied in Papilio, vol. 4, p. 81.  
 1886. Life hist., (figs.) *H. French*. Butt. East. U. States, p. 92.

FOOD PLANTS. Various species of *Umbellifera*.

**Papilio troilus.** L.

1797. Larva, ehrys, (col'd figs.) *Abbot—Smith*, (as *P. ilioneus*.) Lep. Ins. Georgia, pl. 2.  
 1833. Larva. *Boisdural—Leconte*. Hist. Lep. N. Amer., p. 26, pl. 10.  
 1836. Larva. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, p. 335.

1857. Larva, chrysalis, (figs.) *Anonymous*. *Canad. Nat. and Geolog.*, vol. 2, p. 312.
1861. Larva. *Morris*, (quotes Bois.-Lec.) *Synop. Lep. N. Amer.*, p. 5.
1862. Larva, chrysalis. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 266.
1864. Larva. *Jaeger*. *Life N. Amer. Ins.*, p. 209.
1869. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 73.
1869. Larva, stages of. *Harris*. *Entom. Corres.*, p. 271, pl. 2 and 4.
1877. Larva, chrysalis. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 138.
1880. Larva. *Miss N. Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, App., p. 74.
1881. Larva, chrys. *Gundlach*. *Entom. Cubana*, p. 136.
1881. Chrysalis, (figs.) *Scudder*. *Butterflies, their structure, etc.*, p. 44, pl. 60.
1884. Larva. *Dr. A. Gruber*. *Jena Zeitschr. Nat.* Copied in *Papilio*, vol. 4, p. 87.
1886. Larva, chrysalis. *French*. *Butt. East. U. States*, p. 93.

FOOD PLANTS. *Laurus*, *Sassafras*.

**Papilio palamedes.** *Drury*.

1833. Larva. *Boisdural—Leconte*. *Hist. Lep. N. Amer.*, p. 17, pl. 5.
1836. Larva, chrys. *Boisdural*. *Spec. Gener. Diurnæ*, vol. 1, p. 338.
1837. Larva. *Westwood*, (quotes Bois.) *Drury's Ill. Exot. Entom.*, vol. 1, p. 36.
1861. Larva. *Morris*, (quotes Bois.-Lec.) *Synop. Lep. N. Amer.*, p. 7.
1864. Larva. *Jaeger*. *Life N. Amer. Ins.*, p. 210.
1881. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 13, p. 119.
1886. Life hist., (condensed.) *French*. *Butt. East. U. States*, p. 95.

FOOD PLANTS. *Laurus*, *Citrus*.

**Papilio turnus.** L.

1833. Larva, (col'd fig.) *Boisdural—Leconte*. *Hist. Lep. N. Amer.*, p. 19, pl. 7.
1836. Larva, chrysalis. *Boisdural*. *Spec. Gener. Diurnæ*, vol. 1, p. 339.
1840. Larval stages, chrysalis. *P. H. Gosse*. *Canad. Naturalist*, pp. 249, 293.
1856. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 341.
1857. Larva, chrysalis. *Anonymous*. *Canad. Nat. and Geolog.*, vol. 2, p. 223.
1861. Larva. *Morris*, (quotes Bois.-Lec.) *Synop. Lep. N. Amer.*, p. 2.
1862. Larva, chrysalis, (figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 268.
1863. Larva. *B. D. Walsh*. *Proc. Entom. Soc. Phila.*, vol. 1, p. 352.
1863. Chrysalis. *J. A. Lintner*. *Proc. Entom. Soc. Phila.*, vol. 3, p. 51.
1869. Egg, larval stages. *Saunders*. *Canad. Entom.*, vol. 1, pp. 51, 74.
1873. Life hist., (brief.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 21.
1874. Life history. *Saunders*. *Canad. Entom.*, vol. 6, p. 2.
1876. Larva. *G. H. Perkins*. 2d Rept. *Vermont State Board Agric.*, p. 589.
1877. Life hist., (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. 3. *Papilio*, 3.
1877. Larva. *Packard*. *Half-hours with Insects*, p. 180.
1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 139.
1879. Larva, (figs., brief.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 73, fig. 4.
1880. Larva. *Miss N. Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, p. 74.
1880. Larva. *D. W. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, p. 173.
1883. Egg, larval stages, chrysalis (figs.) *Saunders*. *Ins. Injur. Fruits*, p. 83.
1884. Egg, larva, chrysalis (figs.) *Fernald*. *Butt. of Maine*, p. 24.
1884. Larva. *Dr. A. Gruber*. *Jena Zeitschr. Nat.* Copied in *Papilio*, vol. 4, p. 86.
1886. Life history, (figs. larva and chrys.) *French*. *Butt. East. U. States*, p. 100.

FOOD PLANTS. *Prunus*, *Cerasus*, *Liriodendron*.

**Papilio turnus**, dim. form, **glaucus**, L.

1833. Larva, chrysalis. *Boisdural—Leconte*. *Hist. Lep. N. Amer.*, p. 22, pl. 9.

1836. Larva, chrys. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, p. 336.  
 1856. Larva. *Fitch*. 3d Rept. Inj. Ins. N. York, p. 376.  
 1859. Larva, (brief.) *P. H. Gosse*. Letters from Alabama, p. 123.  
 1877. Young larva, (col'd fig.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Papilio, 4.

1881. Egg, fig'd.) *Scudder*. Butterflies, their structure etc., p. 7.

**Papilio eurymedon.** Bois.

1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 1.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 161.  
 1874. Larva, chrysalis, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Papilio, 1.

FOOD PLANT. *Rhamnus californicus*.

**Papilio rutulus.** Bdv.

1870. Larva, chrysalis. *S. H. Scudder*. Proc. Boston Soc. Nat. Hist., vol. 19, p. 221. (Printed as *P. eurymedon* in error.)  
 1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 165.  
 1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 180.  
 1882. Larval stages. *Hy. Edwards*. Papilio, vol. 2, p. 112.  
 1883. Larval stages. *W. H. Edwards*. Papilio, vol. 3, p. 2.  
 1885. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. 12, 13.

FOOD PLANTS. *Abus viridis*, *Salix* sp.

**Papilio daunus.** Bdv.

1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 1.  
 1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 325.  
 1883. Larva. *W. H. Edwards*. Papilio, vol. 3, p. 2.  
 1884. Larva. *W. Schaus, jr.* Papilio, vol. 4, p. 100.

FOOD PLANTS. *Prunus*, *Cerasus*.

**Papilio pilumaus.** Bdv.

1884. Larva, chrysalis. *W. Schaus, jr.* Papilio, vol. 4, p. 100.

FOOD PLANT. "Feeds on Laurel."

**Papilio cresphontes.** Cram.

1833. Larva. *Boisdural—Leconte*. Hist. Lep. N. Amer., p. 31, pl. 12, 13, (as *P. thoas*.)  
 1836. Larva, chrys. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, p. 356.  
 1859. Larva. *P. H. Gosse*, (quotes Bois.) Letters from Alabama, p. 170. (as *P. thoas*.)  
 1862. Larva. *Morris*, (quotes Bois.—Lee.) Synop. Lep. N. Amer., p. 8.  
 1877. Larva. *G. H. French*. Trans. Dept. Agr. Ill., vol. 15, p. 140.  
 1878. Larva, chrysalis. *Saunders*. Rept. Entom. Soc. Ontario, p. 61.  
 1878. Larva. *J. Boll*. Canad. Entom., vol. 10, p. 154.  
 1880. Larval stages. *G. H. French*. 6th Ann. Rept. S. Ill. Normal Univ., p. 43.  
 1880. Larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 41.  
 1880. Larva. *W. H. Ashmead*. Insects Injurious to the Orange, p. 47.  
 1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 75.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 132.  
 1881. Life history. *G. H. French*. Canad. Entom., vol. 13, p. 177.  
 1883. Egg, young larva. *Saunders*. Canad. Entom., vol. 15, p. 234.  
 1883. Larva. *A. H. Mandt*. Papilio, vol. 3, p. 26.  
 1883. Larva, chrysalis, (brief.) *N. Coleman*. Papilio, vol. 3, p. 43.  
 1883. Life hist., (brief) (figs.) *Saunders*. Ins. Injur. to Fruits, p. 377.  
 1885. Larva, chrys., (col'd figs.) *Hubbard*. Ins. Affect. Orange, p. 137.  
 1886. Life history, (condensed.) *G. H. French*. Butt. East. U. States, p. 103.

FOOD PLANTS. *Ptelea*, *Dictamnus*, *Citrus*, etc.

**Papilio polydamas.** L.

1836. Larva. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 321.  
 1861. Larva. *Morris*, (quotes Boisduval.) Synop. Lep. N. Amer., p. 13.  
 1864. Larva. *Jacger*. Life N. Amer. Ins., p. 210.  
 1878. Larva, chrys., (figs.) *H. Dewitz*. Wiegemann Archiv. Naturgesch., p. 2, fig. 1.  
 1878. Larva, chrys. *Dewitz*. Zeitsch. gesament. natur.  
 1879. Larva, chrys. *Dewitz*. Zeitsch. gesament. natur.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 121.  
 FOOD PLANT. *Aristolochia*.

**Parnassius clodius.** Men.

1879. Egg, young larva. *W. H. Edwards*, (as *P. Baldur*.) Canad. Entom., vol. 11, p. 142.  
 1885. Egg, young larva. *W. H. Edwards*. Canad. Entom., vol. 17, p. 64.  
 1886. Egg, larva. *H. J. Elwes*, (quotes Edw.) Proc. Zool. Soc. London, Jan., p. 51.  
 FOOD PLANTS. *Sedum*, *Saxifraga*.

**Parnassius smintheus.** Dby. and Hew.

1872. Egg, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 1st series, pl. 3 of *Parnassius*.  
 1875. Egg, young larva. *T. L. Mead*. Rept. on Lep. of Wheeler Exped'n. Geolog. Survey, vol. 5, p. 743.  
 1876. Egg, young larva. *W. H. Edwards*. Canad. Entom., vol. 11, p. 141.  
 1883. Egg, larva. *W. H. Edwards*. Papilio, vol. 3, p. 158.  
 1885. Life history. *W. H. Edwards*. Canad. Entom., vol. 17, p. 61.  
 1886. Egg, young larva. *H. J. Elwes*, (quotes Edw.) Proc. Zool. Soc. London, p. 23.  
 FOOD PLANTS. *Sedum*, *Saxifraga*.

**Parnassius behrii.** Edw.

1878. Larval stages. *T. L. Mead*. Psyche, vol. 2, p. 181.  
 FOOD PLANT. *Sedum*.

**Neophasia menapia.** Felder.

1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc. vol. 5, p. 165.  
 1882. Egg, larva. *R. H. Stretch*. Papilio, vol. 2, p. 103.  
 FOOD PLANTS. *Pinus ponderosa*, *P. contorta*, *Abies balsamii*.

**Pieris monuste.** L.

1833. Larva. *Boisduval*—*Leconte*. Hist. Lep. N. Amer., p. 43, pl. 16.  
 1836. Larva, chrys. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 497.  
 1861. Larva, chrysalis. *Morris*, (quotes Bois. and Lec.) Synop. Lep. N. Amer., p. 17.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 101.  
 1883. Egg, larva, chrys., (fig.) *Riley*. Rept. U. S. Dept. Agr., pp. 117-118, pl. 10, fig. 1.  
 1886. Egg, larva, chrysalis. *G. H. Freuch*. Butt. East. U. States, p. 107.  
 FOOD PLANTS. Species of *Crucifera*.

**Pieris beckeri.** Edw.

1878. Larva, chrysalis. *T. L. Mead*. Psyche, vol. 2, p. 183.  
 1883. Life hist., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pt. 11, pl. 1 of *Pieris*.  
 FOOD PLANTS. Various species of *Crucifera*.

**Pieris sisymbrii.** Bdv.

1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 184.  
 1883. Life hist., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pt. 11, pl. 1 of *Pieris*.  
 FOOD PLANTS. Species of *Crucifera*.

**Pieris protodice.** Bois.—Lec.

1870. Life hist., (figs.) *C. V. Riley*. 2d Missouri Rept., p. 104.  
 1870. Larva, chrysalis, (fig'd.) *Townsend Glover*. Rept. U. S. Dept. Agr., p. 79.

1870. Larva, chrys. *C. I. Minot*. Amer. Entom. vol. 2, p. 77.  
 1871. Larva, chrysalis, (fig'd.) *Bethune*. Rept. Entom. Soc. Ontario, p. 425.  
 1873. Life hist. *Saunders*. Canad. Entom., vol. 5, p. 43.  
 1874. Larva, chrys. *Hy. Edwards*, (quotes *C. I. Minot*.) Proc. Cal. Acad. Sci., vol. 5, p. 327.  
 1877. Larva, chrysalis, (fig'd.) *G. H. French*. Trans. Dept. Agr. Ill., vol. 15, p. 111.  
 1877. Larva, chrysalis, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 750.  
 1879. Larval stages, (figs.) *Cyrus Thomas*. Trans. Dept. Agr. Ill., vol. 17, Appendix, p. 25.  
 1880. Larva, (fig'd.) *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 77.  
 1880. Larva, (fig'd.) *D. W. Coquillett*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 18, p. 178, App.  
 1882. Larva, chrysalis, (fig'd.) *Scudder*. Butt., their structure, etc., p. 21.  
 1882. Larva, *Saunders*. Canad. Entom., vol. 14, p. 1.  
 1882. Larva, (fig'd.) *Saunders*. Rept. Entom. Soc. Ontario, p. 11.  
 1883. Egg, larva, chrys., (figs.) *Riley*. Rept. U. S. Dept. Agr., pp. 114-115: pl. 10, figs. 2-4.  
 1886. Life history, (condensed) (figs.) *G. H. French*. Butt. East. U. States, p. 109.  
 FOOD PLANTS. Species of *Crucifera*, especially *Brassica*.

**Pieris napi.** Esper.

1828. Larva, chrys. *Stephens*. Illust. Brit. Entom., Haust., vol. 1, p. 20.  
 1836. Larva, chrys. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, p. 519.  
 1859. Larva, chrys. *Edu. Newman*. Butt. Young England, p. 5.  
 1886. Life history, (figs.) *French*. Butt. East. U. States, p. 11.  
 FOOD PLANTS. Species of *Crucifera*.

**Pieris oleracea.** Harris.

1829. Larva. *Harris*. New England Farmer, vol. 7, p. 402. (Entom. Corres., p. 361, pl. 4.)  
 1841. Larva, chrys. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 214.  
 1850. Larva. *Harris*. Agassiz' Lake Superior, p. 386.  
 1852. Life history, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 233.  
 1854. Larva. *Emmons*. Natural Hist. N. York. Agriculture, vol. 5, p. 205.  
 1857. Egg, larva, (brief.) *Anonymous*. Canad. Nat. and Geolog., vol. 2, p. 317.  
 1862. Egg, larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 270.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Phila., vol. 3, p. 54.  
 1869. Life history. *Fitch*. 13th Rept. Ins. N. Y., p. 531.  
 1869. Chrysalis, (fig.) *Harris*. Entom. Corres., pl. 1.  
 1870. Larva, chrysalis, (fig'd.) *Towand Glover*. Rept. U. S. Dept. Agr., p. 79.  
 1870. Larva, chrysalis, (figs.) *C. V. Riley*. 2d Missouri Rept., p. 105.  
 1871. Larva, chrysalis, (figs.) *Bethune*. Rept. Entom. Soc. Ontario, p. 424.  
 1873. Life history, (fig'd.) *Saunders*. Canad. Entom., vol. 5, p. 37.  
 1877. Egg, larva, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 746.  
 1877. Larva, (fig'd.) *Packard*. Half Hours with Insects, p. 52.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 143.  
 1880. Larva, (fig'd.) *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 77, App.  
 1881. Egg, chrysalis, (figs.) *Scudder*, (after *Riley*.) Butterflies, their structure, etc., p. 165.  
 1883. Egg, larva, (fig'd.) *Riley*. U. S. Agr. Rept., p. 108, pl. 1.  
 1884. Egg, larva, chrysalis, (figs.) *Fernald*. Butt. of Maine, p. 25.  
 FOOD PLANTS. Species of *Crucifera*.

**Pieris rapæ.** L.

1828. Larva, chrys., (brief.) *Stephens*. Ill. Brit. Entom., Haust., vol. 1, p. 19.  
 1836. Larva, chrys. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, p. 520.  
 1837. Larva, chrys. *Kollar*. Inj. Insects (London's edit.), p. 150.  
 1842. Larva, chrys., (figs.) *Curtis*. Jour. Royal Agr. Soc. England, p. 312.  
 1856. Larva, chrys. *Chenu—Lucas*. Encyc. Natur. Papillons, p. 50.

1859. Larva, chrys. *Edw. Newman*. Butt. Young England, p. 5.  
 1869. Life history. *Fitch*. 13th Rept. Ins. N. York, p. 543.  
 1870. Larva, chrys., (figs.) *T. Glover*. Rept. U. S. Dept. Agr., p. 78, fig. 38.  
 1870. Life history, (figs.) *C. F. Riley*. 2d Missouri Rept., p. 106.  
 1871. Larva, (fig.) *Bethune*. Rept. Entom. Soc. Ontario, p. 423.  
 1872. Larva, chrysalis, (figs.) *Townsend Glover*. Rept. Entom. N. York State Agr. Assoc., p. 82, fig. 15.  
 1873. Larva, (fig'd.) *A. J. Cook*. 12th Rept. Michigan Board Agr., p. 120, fig. 16.  
 1873. Life history. *Saunders*. Canad. Entom., vol. 5, p. 42.  
 1875. Egg, larva, chrysalis, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 31.  
 1877. Larva, chrysalis. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 145.  
 1877. Larva, chrysalis, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 747.  
 1877. Larva, (fig'd.) *Packard*. Half Hours with Insects, p. 54.  
 1878. Egg, larva, chrysalis, (fig'd.) *J. Stunffer*. Agr. Pennsylv.  
 1879. Larva, (fig'd.) *Hiram Cutting*. Pests of Farmer, New Hampshire Board Agr., p. 34.  
 1879. Larval stages. *Cyrus Thomas*, (quotes Curtis and others.) Trans. Dept. Agr. Ill., vol. 17, pp. 10-25.  
 1880. Larva, chrysalis, (fig'd.) *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 77, App.  
 1880. Larva, (fig.) *D. W. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, p. 179, App.  
 1881. Larva, chrysalis, (fig'd.) *Scudder*, (after Riley.) Butt., their structure, etc., p. 124, fig. 112.  
 1882. Larva and chrysalis. *Saunders*. Canad. Entom., vol. 14, p. 2.  
 1882. Larva, chrysalis, (brief.) *W. F. Kirby*. European Butt. and Moths, p. 8.  
 1883. Egg, larva, chrys., (figs.) *Riley*. Rept. U. S. Dept. Agr., pp. 108-113, pl. 1, figs. 1-1d.  
 1884. Egg, larva, chrysalis. *Fernald*. Butt. of Maine, p. 27.  
 1885. Chrysalis, (fig.) *Hy. Edwards*. Standard Nat. Hist., vol. 2, p. 495.  
 1886. Life history, (figs.) *French*. Butt. East U. States, p. 115.  
 1887. Larva. *J. Fletcher*. Rept. Ent. Dept. Agr. Canada, p. 16.  
 1888. Larva, (brief.) *J. Fletcher*. Rept. Ent. Bot. Dept. Agr. Canada, p. 16.  
 FOOD PLANTS. Species of *Cruciferae*.

**Pieris occidentalis.** Reakt.

1888. Chrysalis. *Hy. Edwards*. Entom. Amer., vol. 3, p. 162.

**Anthocharis lanceolata.** Bdv.

1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 183.

FOOD PLANT. *Turritis glabra*.

**Anthocharis ausoniedes.** Bdv.

1874. Larva. *Hy. Edwards*, (quotes T. L. Mead in lit.) Proc. Cal. Acad. Sc., vol. 5, p. 326.

1874. Egg, larva, chrysalis, (col'd figs.) *W. H. Edwards*, (quotes T. L. Mead in lit.) Butt. N. Amer., 2d series, pl. 2 of *Anthocharis*.

1885. Larva, chrysalis. *W. H. Edwards*. Butt. of N. Amer., 2d series, pl. 13.

FOOD PLANTS. Species of *Cruciferae*.

**Anthocharis hyantis.** Edw.

1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 183.

**Callidryas eubule.** L.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 5.

1833. Larva, (col'd fig.) *Boisdural-Lecoute*. Hist. Lep. N. Amer., p. 74, pl. 24.

1836. Larva, chrysalis, (col'd figs.) *Boisdural*. Spec. Gener. Diurnae, vol. 1, pp. 614-615, pl. 2.

1842. Larva, (col'd fig.) *Duncan*. Natural. Libr., vol. 21, p. 123.

1862. Larva. *Morris*, (quotes Boisd.) Synop. Lep. N. Amer., p. 26.

1873. Larva, (brief.) *Butler*, (quotes Abb.-Sm.) Monogr. Callidryas, p. 14.

1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 115.

FOOD PLANT. *Cassia*.

**Callidryas sennæ.** L.

1725. Larva, chrysalis. *Sloan*. Hist. Jamaica, p. 212.

1832. Larva, chrysalis, (col'd figs.) *Pogy*. Cent. Lep. Cubana.

1855. Larva, chrysalis. *Sepp*. Surinamsche Vluiders, 1, p. 19, (as Pap. Hyperici.)

1873. Larva, chrysalis. *Butler*. (quotes Sloan.) Monogr. Callidryas, p. 17.

1873. Larva, chrysalis. *Butler*, (quotes Sepp.) Monogr. Callidryas, p. 16.

1886. Larva, (brief.) *French*. Butt. East. U. States, p. 123.

FOOD PLANT. *Cassia*.

**Callidryas philea.** L.

1873. Larva, chrysalis, (brief.) *Butler*. Monogr. Callidryas, p. 22.

1888. Chrysalis. *Hy. Edwards*. Entom. Amer., vol. 3, p. 162.

**Colias eurydice.** Bdv.

1876. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 7, p. 61.

1883. Life history. *W. H. Edwards*. Canad. Entom., vol. 15, p. 224.

FOOD PLANT. *Amorpha californica*.

**Colias cæsonia.** Stoll.

1833. Larva. *Boisduval—Leconte*. Hist. Lep. N. Amer., p. 67, pl. 22.

1836. Larva. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 636.

1862. Larva. *Morris*, (quotes Bois.-Le.) Synop. Lep. N. Amer., p. 27.

1874. Larva. *Hy. Edwards*, (quotes Boisduval.) Proc. Cal. Acad. Sc., vol. 5, p. 327.

1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 78, App.

1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 106.

1886. Larva, (brief.) *French*. Butt. East. U. States, p. 128.

1888. Life history. *W. H. Edwards*. Canad. Entom., vol. 20, p. 21.

FOOD PLANTS. *Trifolium*, *Amorpha*.

**Colias meadii.** Edw.

1889. Life history. *W. H. Edwards*. Canad. Entom., vol. 21, p. 41.

**Colias eurytheme.** Bdv.

1800. Egg, larva, chrysalis. *W. H. Edwards*. (quotes J. K. Hayhurst.) Butt. N. Amer., 2d series, Colias No. 3.

1872. Egg, larva, chrysalis. *W. H. Edwards*. Supplem. Notes to Butt. N. Amer.

1878. Egg, larval stages, (figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, Colias No. 4.

1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 78, App.

1886. Life history, (condensed.) *G. H. French*. Butt. East. U. States, p. 131.

FOOD PLANT. *Trifolium*.

**Colias hagenii.** Edw.

1883. Life history. *W. H. Edwards*. Papilio, vol. 3, p. 163.

FOOD PLANT. *Trifolium*.

**Colias philodice.** Godt.

1857. Larva, (brief). *Anonymous*. Canad. Nat. and Geolog., vol. 2, p. 318.

1862. Larva, chrysalis, (fig'd.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 272.

1869. Egg. *Saunders*. Canad. Entom., vol. 1, p. 54.

1870. Larva. *Riley*. 2d Missouri Rept., p. 116.

1870. Larva, chrysalis. *Saunders*. Canad. Entom., vol. 1, p. 55.

1873. Larva, chrysalis. *Saunders*. Canad. Entom., vol. 5, p. 222.

1874. Egg, larva, chrysalis. *Saunders*. Rept. Entom. Soc. Ontario, p. 27.

1876. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, Colias No. 3.

1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 78, App.

1881. Egg, larva, chrysalis, (figs.) *Scudder*. Butt., their structure, etc., pp. 8, 42, 116.

1882. Life history, (brief.) *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 48.



1884. Egg, larva, chrysalis. *Fernald*. Butt. of Maine, p. 31.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 131.  
 FOOD PLANTS. *Trifolium*, *Astragalus*.

**Colias scudderii**. Reak.

1872. Young larva. *W. H. Edwards*. Butt. N. Amer., Colias, No. 8.

**Colias alexandra**. Edw.

1872. Egg. *W. H. Edwards*. Butt. N. Amer., Supplementary part.

**Colias harfordii**. (incl. C. Barbara ♀.)

1884. Life history. *W. H. Edwards*. Papilio, vol. 1, p. 2.

FOOD PLANT. *Astragalus crotalaria*.

**Terias nicippe**. Cram.

1833. Larva, (col'd fig.) *Titian Peale*. Lep. Amer., pl. 8.  
 1833. Larva. *Boisduval*—*Lconte*. Hist. Lep. N. Amer., p. 55, pl. 20.  
 1836. Larva, chrysalis. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 654.  
 1855. Larva, chrysalis. *Townsend Glover*. Trans. N. York State Agr. Soc., p. 105.  
 1856. Larva, chrysalis. *Chenu*—*Lucas*. Entom. Nat. Hist. Papillons, p. 60.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—*Lec.*) Synop. Lep. N. Amer., p. 33.  
 1873. Chrysalis. *Hy. Edwards*, (quotes Bois.—*Lec.*) Proc. Cal. Acad. Sc. vol. 5, p. 166.  
 1880. Larva. *Miss N. Middleton*, (quotes Bois.—*Lec.*) Trans. Dept. Agr. Ill., vol. 18, p. 79, App.  
 1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 83.  
 1881. Life history. *W. H. Edwards*. Canad. Entom., vol. 13, p. 61.  
 1881. Chrysalis. *Scudder*. Butt., their structure, etc., p. 184.  
 1886. Larva, chrysalis. *French*. Butt. East. U. States, p. 137.  
 FOOD PLANT. *Cassia*.

**Terias lisa**. Bdv.

1833. Larva, chrysalis, (col'd fig.) *Bois.—Lec.* Hist. Lep. N. Amer., p. 53, pl. 19.  
 1836. Larva, chrysalis, (col'd fig.) *Boisduval*. Spec. Gener. Rhopaloc., vol. 1, pl. 2, p. 662.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 34.  
 1874. Larva, chrys. (brief.) *Hy. Edwards*, (quotes Boisduval.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1880. Larva. *Miss Middleton*, (quotes Bois.) Trans. Dept. Agr. Ill., vol. 18, p. 79, Append.  
 1886. Larva, (brief.) *French*. Butt. East. U. States, p. 139.  
 FOOD PLANTS. *Cassia*, *Trifolium*.

**Terias delia**. Cram.

1833. Larva. *Bois.—Lec.* Hist. Lep. N. Amer., p. 49, pl. 18.  
 1836. Larva, chrysalis. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 664.  
 1862. Larva. *Morris*, (quotes Bois.) Synop. Lep. N. Amer., p. 35.  
 1874. Larva, chrys. (brief.) *Hy. Edwards*, (quotes Boisduval.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1886. Larva, (brief.) *French*. Butt. East. U. States, p. 140.  
 FOOD PLANTS. *Cassia*, *Trifolium*.

**Heliconia charitonia**. L.

1850. Larva. *P. H. Gosse*. Note in Doubleday. Gen. Diur. Lep., vol. 1, p. 97.  
 1879. Larva, chrysalis. *Dewitz*. Zeitsch. gesament. natur.  
 1881. Larva. *W. H. Edwards*. Papilio, vol. 1, p. 209.  
 1881. Larva. *W. H. Edwards*. Canad. Entom., vol. 13, p. 158.  
 1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 21.  
 1882. Life history. *W. H. Edwards*. Butt. N. Amer., 2d series, part 10.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 142.  
 FOOD PLANT. *Passiflora*.

**Danais archippus.** Latr.

1797. Larva, chrysalis, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 6.  
 1828. Larva, chry., (fig.) *Say*. Amer. Entom., vol. 3, pl. 54.  
 1833. Larva, (col'd figs.) *T. Peale*. Lep. Americana, pl. 7.  
 1833. Larva, chrys., (col'd figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 137, pl. 40.  
 1840. Larva, chrys., (figs.) *Westwood*. Intr. Mod. Class. Ins., vol. 2, p. 352.  
 1851. Larva, chrys., (col'd figs.) *Eumons*. Nat. Hist. N. York, vol. 5, pl. 38.  
 1857. Larva, chrys., (fig.) *Anon.* Canad. Nat. and Geol., vol. 2, p. 351.  
 1859. Larva, chrys. *P. H. Gosse*. Letters from Alabama, p. 185.  
 1862. Larva, chrys. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 38.  
 1862. Larva, pupa. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 280.  
 1869. Larva, chrysalis. *Saunders*. Canad. Entom., vol. 1, p. 75.  
 1870. Egg, chrysalis. *Saunders*. Canad. Entom., vol. 2, p. 148.  
 1871. Life history, (figs.) *Riley*. 3d Missouri Rept., p. 141.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 166.  
 1873. Life history. *Saunders*. Canad. Entom., vol. 5, p. 4.  
 1876. Life history, (brief.) *W. H. Edwards*. Canad. Entom., vol. 8, p. 119.  
 1878. Life history. *W. H. Edwards*. Psyche, vol. 2, p. 176.  
 1878. Larva, chrys. *H. Dewitz*. Wiegemann Archiv. Naturgesch., p. 9, pl. 1.  
 1878. Larva, chrysalis. *Dewitz*. Zeitsch. gesament. natur.  
 1879. Larva, chrys., (figs.) *Mrs. I. P. Ballard*. Insect Lives, p. 24.  
 1879. Larva, chrys. *Dewitz*. Zeitsch. gesament. natur.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.  
 1880. Larva, (fig.) *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 80.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 23.  
 1881. Egg, larva, (figs.) *Scudder*. Butt., their structure, etc., pp. 10, 18, figs. 17, 18, 22.  
 1881. Chrysalis, (fig.) *Scudder*. Loc. cit., p. 14, fig. 61.  
 1881. Egg, larva, chrysalis, (figs.) *Fernald*. Butt. Maine, p. 35.  
 1885. Larva, chrys. *Hy. Edwards*. Kingsley's Stand. Nat. Hist., vol. 2, p. 492.  
 1886. Life history, (condensed), (figs.) *French*. Butt. East. U. States, p. 144.  
 1888. Chrysalis, (fig.) *Grote*. 18th Rept. Entom. Soc. Ontario, p. 74.  
 1888. Larval stages, (fig.) *Lintner*. 4th Rept. N. Y. State Entom., p. 136.

FOOD PLANT. *Asclepias*.

**Danais berenice.** Cram.

1833. Larva, chrys., (figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 134, pl. 39.  
 1862. Larva, chrys. *Morris*, (quotes Bois.-Lec.) Synop. N. Amer. Lep., p. 37.  
 1874. Larva, chrys. *Hy. Edwards*, (quotes Boisduval.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 25.  
 1886. Larva, chrys. *French*. Butt. East. U. States, p. 146

FOOD PLANTS. *Nerium*, *Asclepias*.

**Agraulis vanillæ.** Cr.

1769. Larva, chrys. *Abbot-Smith*. Lep. Ins. Georgia, pl. 12.  
 1833. Larva, chrys., (figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 143, pl. 12.  
 1855. Larva, chrysalis. *Townend Glover*. Trans. N. York State Agr. Soc., p. 106.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., pp. 40, 41.  
 1874. Larva, chrys. *Hy. Edwards*, (quotes Boisduval.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, App., p. 80.  
 1880. Life history. *W. H. Edwards*. Canad. Entom., vol. 12, p. 122.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 57.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 148.

FOOD PLANT. *Passiflora*.

**Argynnis idalia.** Drury.

1875. Egg, young larva. *W. H. Edwards.* Canad. Entom., vol. 7, p. 151.  
 1879. Life history, (brief.) *W. H. Edwards.* Canad. Entom., vol. 11, p. 217.  
 1880. Larva. *Coquillett*, (quotes Edw.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 162.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.  
 1884. Egg, larva. *Fernald.* Butt. Maine, p. 37.  
 1886. Life history, (condensed.) *French.* Butt. East. U. States, p. 150.

**Argynnis diana.** Cram.

1872. Egg, (brief.) *W. H. Edwards.* Butt. N. Amer., Supplementary part.  
 1874. Larva. *W. H. Edwards.* Canad. Entom., vol. 6, p. 121.  
 1876. Life history, (col'd figs.) *W. H. Edwards.* Butt. N. Amer., 2d series, pl. 7 of *Argynnis*.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.  
 1886. Life history, (condensed.) *French.* Butt. East. U. States, p. 153.

**Argynnis cybele.** F.

1872. Egg. *W. H. Edwards.* Butt. N. Amer., supp. part.  
 1872. Larva, chrysalis. *Saunders.* Canad. Entom., vol. 4, p. 121.  
 1874. Larva. *W. H. Edwards.* Canad. Entom., vol. 6, p. 121.  
 1876. Life history. *W. H. Edwards.* Butt. N. Amer., 2d series, pl. *Argynnis*, No. 7.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.  
 1880. Life history. *W. H. Edwards.* Canad. Entom., vol. 12, p. 141.  
 1886. Life history, (condensed.) *French.* Butt. East. U. States, p. 155.

**Argynnis aphrodite.** F.

1868. Larva, (brief.) *W. H. Edwards*, (quotes D. W. Beadle in lit.) Butt. N. Amer., 1st series, pl. *Argynnis*, No. 3.  
 1874. Larva. *W. H. Edwards.* Canad. Entom., vol. 6, p. 121.  
 1876. Life history. *W. H. Edwards.* Butt. N. Amer., 2d series, pl. *Argynnis*, No. 7.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.

**Argynnis hesperis.** W. H. Edwards.

1888. Life history. *W. H. Edwards.* Canad. Entom., vol. 20, p. 67.

**Argynnis edwardsii.** Reakirt.

1888. Life history. *W. H. Edwards.* Canad. Entom., vol. 20, p. 3.

**Argynnis alcestis.** Edw.

1879. Life history. *W. H. Edwards.* Canad. Entom., vol. 12, p. 69.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 82.  
 1886. Life history. *French.* Butt. East. U. States, p. 159.

**Argynnis atlantis.** Edw.

1868. Larva. (brief.) *W. H. Edwards*, (quotes C. H. Shurtleff in lit.) Butt. N. Amer., pl. *Argynnis*, No. 5.  
 1869. Larva, chrysalis. *Packard.* Guide to Study of Ins., p. 252.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 82.  
 1881. Chrysalis, (fig.) *Scudder.* Butt., their structure, etc., p. 150.  
 1886. Chrysalis, (fig.) *French.* Butt. East. U. States, p. 161.  
 1888. Life history. *W. H. Edwards.* Canad. Entom., vol. 20, p. 3.

**Argynnis eurynome.** Edw.

1875. Egg, (col'd fig.) *W. H. Edwards.* Butt. N. Amer., 2d series, pl. *Argynnis*, No. 1.

**Argynnis egleis.** Bois.

1879. Larva. *W. H. Edwards.* Canad. Entom., vol. 11, p. 53.  
 1879. Life history. *W. H. Edwards.* Canad. Entom., vol. 11, p. 177.  
 1880. Larva. *D. W. Coquillett*, (quotes Edwards.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.

**Argynnis myrina.** Cram.

1869. Life history. *Saunders*. *Canad. Entom.*, vol. 1, p. 55.  
 1869. Larva, chrysalis. *Packard*, (quotes Saunders.) *Guide to Study of Ins.*, p. 254.  
 1871. Larva, chrys. *H. Edwards*, (quotes Saunders.) *Proc. Cal. Acad. Sc.*, vol. 5, p. 328.  
 1875. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 7, p. 189.  
 1876. Life history, (additional notes.) *W. H. Edwards*. *Canad. Entom.*, vol. 8, p. 161.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 82.  
 1880. Larva. *D. W. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 161.  
 1881. Egg, (fig.) *Scudder*. *Butt.*, their structure, etc., p. 8.  
 1881. Larval stages, (fig.) *Gruber*. *Jena Zeitschr. Nat.*, copied in *Papilio*, vol. 4, p. 91.  
 1881. Egg, larva, chrysalis, (figs.) *Fernald*. *Butt. Maine*, p. 41.  
 1886. Egg, larva, chrysalis, (figs.) *French*. *Butt. East. U. States*, p. 162.

**Argynnis montinus.** Scud.

1871. Life history, (figs.) *Scudder*. *Geology N. Hampsh.*, pl. A.

**Argynnis bellona.** Fab.

1871. Egg. *Scudder*. *Rept. Peabody Acad. Sc.*, p. 49.  
 1872. Life history. *Scudder*. *Amer. Naturalist*, vol. 6, p. 513.  
 1880. Life history, (notes on.) *W. H. Edwards*. *Papilio*, vol. 1, p. 131.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 83.  
 1880. Larva. *D. W. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 183.  
 1881. Larva. *Fernald*. *Butt. Maine*, p. 41.  
 1888. Chrysalis. *H. Edwards*. *Entom. Amer.* vol. 3, p. 162.  
 FOOD PLANTS (of all the species of *Argynnis*). *Viola* of various species.

**Euptoieta claudia.** Cram.

1833. Larva, chrysalis, (figs.) *Bois-Lec.* *Hist. Lep. N. Amer.*, p. 153, pl. 44.  
 1855. Larva, chrysalis. *Townsend Glover*. *Trans. N. Y. State Agr. Soc.*, p. 105.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois-Lec.) *Synop. Lep. N. Amer.*, p. 44.  
 1870. Larva. *W. H. Edwards*. *Canad. Entom.*, vol. 2, p. 163.  
 1875. Egg, larva. *T. L. Mead*. *Rept. Lepid. Wheeler Survey*, vol. 5, p. 751.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 80.  
 1880. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 12, p. 231.  
 1881. Larva, chrysalis. *Fernald*, (quotes W. H. Edwards.) *Butt. Maine*, p. 43.  
 1886. Life history, (brief.) *French*. *Butt. East. U. States*, p. 166.  
 FOOD PLANTS. *Viola*, *Passiflora*, *Sedum*, *Desmodium*, *Portulaca*.

**Melitea phaeton.** Drury.

1868. Larva, chrysalis, (figs.) *Packard*. *Amer. Naturalist*, vol. 2, p. 219.  
 1869. Egg, larval stages. *Lintner*. 23d *Rept. N. York State Cab. Nat. Hist.*, pp. 151-157.  
 1871. Egg. *Scudder*. *Rept. Peabody Acad. Sc.*, p. 51.  
 1875. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 7, p. 150.  
 1875. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Melitea*, No. 1.  
 1877. Larva. *Scudder*. *Psyche*, vol. 1, p. 18.  
 1877. Larva, chrysalis, (col'd fig.) *Packard*. *Half hours with Insects*.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 83.  
 1881. Egg, (fig.) *Scudder*. *Butt.*, their structure etc., p. 9.  
 1881. Web and nest. *Scudder*, (quotes Edwards.) *Butt.*, their structure, etc., p. 106.  
 1881. Larva—notes on. *W. H. Edwards*. *Papilio*, vol. 4, p. 68.  
 1881. Larval stages, (figs.) *Gruber*. *Jena Zeitschr. Nat.*, p. 17, pl. 8.  
 1881. Larval stages, (figs.) *Gruber*. *Loc. cit.* copied in *Papilio*, vol. 4, p. 87.  
 1881. Egg, larva, chrysalis, (fig.) *Fernald*. *Butt. Maine*, p. 41.

1886. Life history, (figs.) *French*. Butt. East. U. States, p. 169.

FOOD PLANTS. *Chelonia glabra*, *Lonicera ciliata*.

**Melitæa cooperi.** Behr.

1863. Larva. *Behr*. Proc. Cal. Acad. Sc., vol. 3, p. 90.

**Melitæa chalcon.** Donb.-Hew.

1863. Larva, chrysalis. *Behr*. Proc. Cal. Acad. Sc., vol. 3, p. 89.

1871. Larva, chrys., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., pl. Melitæa, No. 1.

1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 167.

1883. Egg, larva. *W. G. Wright*. Papilio, vol. 3, p. 123.

1884. Larva and partial history. *W. H. Edwards*. Papilio, vol. 4, p. 63.

1885. Chrysalis. *Hy. Edwards*. Kingsley's Stand. N. Hist., vol. 2, p. 486.

FOOD PLANTS. *Mimulus*, *Castilleja*.

**Melitæa nubigena.** Behr.

1875. Larva, chrysalis. *T. L. Mead*. Rept. Lep. Wheeler Survey, vol. 5, p. 758.

**Melitæa baroni.** Hy. Edw.

1879. Larval stages. *W. H. Edwards*. Canad. Entom., vol. 11, p. 119.

1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 129.

1880. Larva. *Coquillett*, (quotes Edwards.) Trans. Dept. Agr. Ill., vol. 18, Appendix., p. 163.

FOOD PLANTS. Species of *Scrophulariaceæ*.

**Melitæa rubicunda.** Hy. Edw.

1885. Larval stages. *W. H. Edwards*. Canad. Entom., vol. 17, p. 155.

FOOD PLANT. *Scrophularia*.

**Melitæa editha.** Bois.

1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 167.

FOOD PLANTS. *Erodium cicutarium*, *Trifolium*, *Viola*.

**Melitæa palla.** Bois.

1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 167.

FOOD PLANT. *Casteleja breviflora*.

**Melitæa harrisii.** Seud.

1877. Life history. *W. H. Edwards*. Canad. Entom., vol. 9, p. 165.

1877. Larva. *Scudder*. Psyche, vol. 1, p. 18.

1880. Larva. *Coquillett*, (quotes Edwards.) Trans. Dept. Agr. Ill., vol. 18, Appendix., p. 162.

1881. Chrysalis, (fig.) *Scudder*. Butt., their structure, etc., p. 32.

1881. Life history. *French*. Butt. East. U. States, p. 170.

1884. Larva, chrysalis, (figs.) *French*. Butt. East. U. States, p. 170.

FOOD PLANT. *Diptopappus umbellatus*.

**Melitæa minuta.** Edw.

1879. Chrysalis. *W. H. Edwards*. Canad. Entom., vol. 11, p. 141.

**Melitæa ismeria.** Bois.-Lec.

NOTE.—There is still some doubt as to this species. I therefore give the references to its early stages.

1833. Larva, chrysalis, (figs.) *Bois.-Lec*. Hist. Lep. N. Amer., p. 168, pl. 46.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Am., p. 50.

**Phyciodes nycteis.** Doub.-Hew.

1869. Life history, (figs.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 158, pl. 8.

1870. Larva. *W. H. Edwards*, (as P. Harrisii.) Canad. Entom., vol. 2, p. 163.

1872. Egg. *Saunders*, (as M. Harrisii.) Canad. Entom., vol. 4, p. 161.

1872. Larval stages. *Saunders*, (as M. Harrisii.) Loc. cit., p. 162.

1872. Larva. *Lintner*. Entom. Contrib., No. 1, p. 26.

1873. Larva. *W. H. Edwards*. Canad. Entom., vol. 5, p. 224.

1874. Larva, chrysalis. *Riley*. Proc. Amer. Ass. Adv. Sc., p. 108.

1875. Larva, chrysalis. *W. H. Edwards*. Canad. Entom., vol. 7, p. 151.

1879. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 101.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 83.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 165.  
 1881. Life history. *Gruber*. *Jena Zeitschr. Nat.*, vol. 17, p. 178, pl. 8. Copied  
 in *Papilio*, vol. 4, p. 90.  
 1881. Life history, (brief.) *Fernald*. *Butt. Maine*, p. 16.  
 1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 172.  
 FOOD PLANTS. Species of *Helianthus* and *Actinomeris*.

**Phyciodes vesta**. Edw.

1879. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 2, p. 129.

**Phyciodes camillus**. Edw.

1881. Life history. *W. H. Edwards*. *Papilio*, vol. 4, p. 128.  
 FOOD PLANT. *Aster* of various species.

**Phyciodes tharos**. Drury. (incl. vars.)

1862. Chrysalis. *Harris*. *Ins. Inj. Vegetat.*, *Flint's ed.*, p. 290.  
 1875. Life history. *T. L. Mead*. *Canad. Entom.*, vol. 7, p. 161.  
 1877. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 9, pp. 1-51.  
 1878. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl.  
*Phyciodes*, No. 1.  
 1878. Life history, (figs.) *Gruber*. *Jena Zeitschr. Nat.*, vol. 17, p. 177, pl. 8.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 83.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 163.  
 1881. Larval stages. *Gruber*. *Jena Zeitschr. Nat.*, vol. 17, copied in *Papilio*,  
 vol. 4, pp. 90-120.  
 1884. Egg, larva. *Fernald*. *Butt. Maine*, p. 48.  
 1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 178.  
 FOOD PLANT. *Actinomeris helianthoides*.

**Phyciodes mylitta**. Edw.

1873. Larva, chrysalis. *Hy. Edwards*. *Proc. Cal. Acad. Sci.*, vol. 5, p. 167.  
 1875. Larva, chrysalis. *T. L. Mead*, (quotes *Hy. Edwards*.) *Rept. Lep.*  
*Wheeler Expt.*, vol. 5, p. 761.  
 FOOD PLANTS. *Carduus* (thistles) of various species.

**Phyciodes picta**. Edw.

1884. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 16, p. 163.

**Eresia texana**. Edw.

1879. Larval stages, chrysalis. *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 127.  
 1880. Larva. *Coquillett*, (quotes *Edwards*.) *Trans. Dept. Agr. Ill.*, vol. 18,  
*Append.*, p. 164.

**Synchlœ (Coatlantona) janais**. Drury.

1883. Larva, chrysalis. *W. Schaus, jr.* *Papilio*, vol. 3, p. 188.  
 1888. Chrysalis. *Hy. Edwards*. *Entom. Amer.*, vol. 3, p. 161.

**Grapta interrogationis**. Fab. (includ. vars.)

1833. Larva, chrysalis, (figs.) *Bois.-Lee.*, (as *V. c-aureum*.) *Hist. Lepid.*  
*N. Amer.*, p. 192, pl. 51.  
 1810. Larva, chrysalis. *P. H. Gosse*. *Canad. Naturalist*, p. 280, (as *G. c-aureum*.)  
 1841. Larva, chrysalis. *Harris*. *Inj. Ins. Vegetat.*, 1st edit., p. 220.  
 1852. Larva, chrysalis. *Harris*. *Inj. Ins. Vegetat.*, 2d edit., p. 210.  
 1854. Larva, (col'd fig.) *Emmons*. *Nat. Hist. N. York*, vol. 5, pl. 55.  
 1862. Larva, chrysalis. *Harris*. *Ins. Inj. Vegetat.*, *Flint's ed.*, p. 300.  
 1862. Larva, chrysalis. *Morris*, (quotes *Bois.-Lee.*) *Synop. Lep. N. Amer.*,  
 p. 51.  
 1865. Larva. *Harris*. *Entom. Corres.*, p. 280.  
 1869. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 76.

1871. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Grapta, Nos. 4, 5.
1877. Larva, chrysalis. *Packard*. Inj. Ins. West, Hayden Rept., p. 774.
1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 152.
1880. Larva. *Miss Middleton*. Trans. Dept. Agr., Ill., vol. 18, Append., p. 81.
1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.
1881. Chrysalis, (fig.) *Scudder*. Butt., their structure, etc., p. 258.
1881. Larva, chrysalis. *Packard*, (quotes Saunders.) Ins. Inj. to Forest Trees, p. 65.
1882. Life history. *W. H. Edwards*. Canad. Entom., vol. 14, p. 201.
1884. Egg, larva, chrysalis. *Fernald*. Butt. Maine, p. 49.
1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 181.
1886. Chrysalis, (fig.) *French*. Butt. East. U. States, p. 181.

FOOD PLANTS. *Humulus, Urtica*.

**Grapta comma.** Harris, (incl. vars.)

1840. Larva, chrysalis. *P. H. Gosse*. Canad. Naturalist, pp. 221, 226, 280.
1841. Chrysalis. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 221.
1852. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 241.
1856. Larva. *Fitch*. 3d Rept. Ins. N. Y., p. 432.
1862. Larva, chrysalis. *W. H. Edwards*. Proc. Entom. Soc. Philad., vol. 1, p. 182.
1862. Chrysalis, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 301, pl. 4.
1862. Chrysalis. *Morris*. Synop. Lep. N. Amer., p. 54.
1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 55.
1871. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series., pl. Grapta, No. 2.
1871. Larva, chrysalis, (col'd figs.) *W. H. Edwards*, (var. dryas.) Loc. cit., pl. Grapta, No. 3.
1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 152.
1877. Larva. *Packard*. Inj. Ins. West, Hayden's Rept., p. 774.
1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.
1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 163.
1881. Larva, chrysalis. *Packard*, (quotes W. H. Edwards.) Ins. Inj. Forest Trees, p. 66.
1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 99.
1882. Life history. *W. H. Edwards*. Canad. Entom., vol. 14, p. 189.
1884. Egg, larva, chrysalis. *Fernald*. Butt. Maine, p. 51.
1886. Life history. *French*. Butt. East. U. States, p. 186.

FOOD PLANTS. *Humulus, Urtica*.

**Grapta satyrus.** Edw.

1872. Larva, chrysalis, (col'd fig.) *W. H. Edwards*, (quotes Stretch M. S.) Butt. N. Amer., 2d series, pl. Grapta, No. 6.
1873. Larva. *Hy. Edwards*, (quotes Stretch, MS.) Proc. Cal. Acad. Sc., vol. 5, p. 168.
1873. Chrysalis. *Hy. Edwards*. Loc. cit., p. 168.
1875. Larva. *C. W. Pearson*. Canad. Entom., vol. 7, p. 216.

FOOD PLANT. *Urtica*.

**Grapta rusticus.** Edw.

1879. Larva, chrysalis, (col'd fig.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Grapta, No. 3.

**Grapta faunus.** Edw.

1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 58.
1875. Larva. *Caulfield*. Canad. Entom., vol. 7, p. 49.
1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.
1881. Chrysalis, (fig.) *Scudder*. Butt., their structure, etc., p. 42.
1884. Egg, larva. *Fernald*. Butt. Maine, p. 52.

1884. Chrysalis, (fig.) *Fernald*. *Loc. cit.*, p. 52.  
 1886. Larva. *French*. *Butt. East. U. States*, p. 188.  
 1886. Chrysalis, (fig.) *French*. *Loc. cit.*, p. 188.  
 FOOD PLANT. *Salix*.

**Grapta silvius**. Edw.

1873. Larva, chrysalis. *H. J. Edwards*, (as *G. zephyrus* in error.) *Proc. Cal Acad. Sc.*, vol. 5, p. 169.

FOOD PLANT. *Azalea occidentalis*.

**Grapta zephyrus**. Edw.

1879. Larva, chrysalis, (col'd fig.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Grapta*, No. 3.

**Grapta progne**. Cram.

1840. Larva, chrys. *P. H. Gosse*. *Canad. Naturalist*, p. 249, (as *G. e-argenteum*.)  
 1841. Larva, chrysalis. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 222.  
 1852. Larva, chrysalis. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 242.  
 1856. Larva, chrysalis. *Fitch*. 3d Rept. *Ins. N. York*, p. 430.  
 1862. Chrysalis. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 301.  
 1869. Larva, (brief.) *Harris*. *Entom. Corres.*, p. 280.  
 1871. Larva, chrysalis. *Le Baron*. 2d *Illinois Rept.*, p. 59.  
 1871. Egg. *Scudder*. *Rept. Peabody Acad. Sc.*, p. 34.  
 1871. Larva, (brief.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 376.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 85.  
 1880. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 12, p. 9.  
 1881. Larva. *Packard*, (quotes *Fitch*.) *Ins. Inj. Forest Trees*, p. 66.  
 1883. Larva, chrysalis. *Saunders*. *Ins. Inj. Fruits*, p. 347.  
 1884. Egg, larva, chrysalis. *Fernald*. *Butt. Maine*, p. 51.  
 1886. Life history. *French*. *Butt. East. U. States*, p. 191.  
 FOOD PLANT. *Ribes* of various species.

**Grapta j. album**. Bois.-Lee.

1864. Larva, chrysalis. *Lintner*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 58.  
 1884. Larva, chrysalis. *Fernald*. *Butt. Maine*, p. 55.  
 1886. Larva, chrysalis. *French*. *Butt. East. U. States*, p. 193.

**Vanessa antiopea**. F.

1828. Larva, chrys., (brief.) *Stephens*. *Ill. Brit. Entom.*, *Haust.*, vol. 1, p. 45.  
 1840. Larva, chrys. *P. H. Gosse*. *Canad. Naturalist*, p. 294.  
 1841. Larva, chrys. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 249.  
 1842. Larva, (brief.) *Duncan*. *Natural. Library*, vol. 6, p. 169.  
 1852. Larva, chrys. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 238.  
 1854. Larva, chrys., (col'd figs.) *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 207, pl. 6.  
 1855. Larva, chrys., (col'd figs.) *Westwood*. *Brit. Butt.*, p. 50, pl. 7.  
 1856. Larva, chrys. *Chenue-Lucas*. *Encyc. Nat. Hist. Papillons*, vol. 1, p. 103.  
 1857. Larva, chrys., (brief.) *H. T. Stainton*. *Brit. Butt.*, *Moths*, vol. 1, p. 39.  
 1859. Larva, chrys. *Edward Newman*. *Butt. Young England*, p. 9.  
 1862. Larva, chrys., (fig.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 297.  
 1864. Larva, chrys. *Jaeger*. *Life N. Amer. Ins.*, p. 202.  
 1864. Larva, chrysalis. *Lintner*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 59.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 280.  
 1869. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 75.  
 1871. Egg. *Scudder*. *Rept. Peabody Acad. Sc.*, p. 40.  
 1878. Larva, chrysalis, (brief.) *G. H. Perkins*. 5th Rept. *Vermont Board Agr.*, p. 265.  
 1879. Larva, chrysalis, (fig.) *Mrs. I. P. Ballard*. *Insect Lives*, p. 40.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 85.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 163.



1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 98.  
 1881. Larva, chrysalis, (fig.) *Scudder*. Loc. cit., p. 37.  
 1881. Larva, (brief.) *Packard* Ins. Inj. Forest Trees, p. 61.  
 1882. Larva, chrysalis. *W. F. Kirby*. Europ. Butt. and Moths, p. 12.  
 1884. Egg, (fig.) *Fernald*. Butt. Maine, p. 56.  
 1884. Larva, chrysalis. *Fernald*. Loc. cit., p. 56.  
 1885. Egg, larva. *Hy. Edwards*. Kingsley's Stand. N. Hist., vol. 2, p. 487.  
 1886. Egg, (fig.) *French*. Butt. East. U. States, p. 191.  
 1886. Larva, chrysalis. *French*. Loc. cit., p. 191.

FOOD PLANT. *Salix*.

***Vanessa californica*. Bois.**

1863. Larva, (brief) *Behr*. Proc. Cal. Acad. Sc., vol. 3, p. 123.  
 1875. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 123.

FOOD PLANT. *Ceanothus thyrsiflorus*.

***Vanessa milbertii*. Godt.**

1810. Larva. *E. H. Gosse*. Canad. Naturalist, pp. 107, 221.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 303.  
 1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 28.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 61.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 76.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 170.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 85.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 99.  
 1884. Larva. *Fernald*. Butt. Maine, p. 57.  
 1885. Life history. *W. H. Edwards*. Canad. Entom., vol. 17, p. 181.  
 1886. Larva, chrysalis. *French*. Butt. East. U. States, p. 195.

FOOD PLANT. *Urtica*.

***Pyrameis atalanta*. L.**

1828. Larva, chrysalis, (brief.) *Stephens*. Ill. Brit. Entom., Illust., vol. 1, p. 46.  
 1842. Larva, (brief.) *Duncan*. Natural. Library, Entom., vol. 6, p. 171.  
 1855. Larva, chrysalis, (col'd fig.) *Westwood*. Brit. Butt., p. 53, pl. 8.  
 1856. Larva, chrysalis. *Chenu—Lucas*. Eneye. Nat. Hist. Papillons, vol. 1, p. 103.  
 1857. Larva. *Stainton*. Man. Brit. Butt., vol. 1, p. 38.  
 1859. Larva, chrysalis. *Edw. Newman*. Butt. Young England, p. 10.  
 1862. Larva, chrysalis, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 294.  
 1862. Larva, chrysalis. *Morris*. Synop. Lep. N. Amer., p. 59.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 203.  
 1869. Larva. *Harris*. Entom. Corres., p. 279.  
 1873. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 169.  
 1878. Larva. *Birch*. Entom. Month. Mag., vol. 13, p. 209.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 86.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 8.  
 1881. Nest, (fig.) *Scudder*. Loc. cit., p. 109.  
 1882. Larva, chrysalis. *W. F. Kirby*. Europ. Butt. and Moths, p. 11.  
 1882. Life history. *W. H. Edwards*. Canad. Entom., vol. 14, p. 229.  
 1883. Life history, (cont'd.) *W. H. Edwards*. Loc. cit., vol. 15, p. 14.  
 1884. Egg, (fig.) *Fernald*. Butt. Maine, p. 58.  
 1884. Larva. *Fernald*. Loc. cit., p. 58.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 197.  
 1886. Egg, (fig.) *French*. Loc. cit.

FOOD PLANTS. *Humulus*, *Bahmeria*, *Urtica*.

***Pyrameis huntera*. F.**

1797. Larva. *Abbot—Smith*. Lep. Ins. Georgia.  
 1833. Larva, chrysalis, (col'd fig.) *Bois.—Lee*. Hist. Lep. N. Amer., p. 180, pl.

1862. Larva, chrysalis. *Morris*, (quotes Bois. and Lec.) Synop. Lep. N. Amer., p. 60.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 293.  
 1861. Larva, chrysalis. *Linbar*. Proc. Entom. Soc. Philad., vol. 3, p. 63.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 105.  
 1873. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 170.  
 1873. Chrysalis. *Hy. Edwards*, (quotes Bois.) Loc. cit., vol. 5, p. 170.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 86.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 153.  
 1881. Larva. *Fernald*. Butt. Maine, p. 58.  
 1886. Larva, chrysalis. *French*. Butt. East. U. States, p. 198.  
 FOOD PLANTS. *Guaphalium*, *Antennaria*.

#### Pyrameis cardui. L.

1828. Larva, chrysalis, (brief.) *Stephens*. Illust. Brit. Entom., IIaust., vol. 1, p. 47.  
 1842. Larva, chrysalis, (brief.) *Duncan*. Natural. Library, Entom., vol. 6, p. 176.  
 1854. Larva, chrysalis, (col'd figs.) *Emmons*. Nat. Hist. N. York., vol. 5, pl. 46.  
 1855. Larva, chrysalis, (col'd figs.) *Westwood*. Brit. Butt., p. 55, pl. 8.  
 1856. Larva, chrysalis. *Chenu—Lucas*. Eneyc. Nat. Hist. Papillons, vol. 1, p. 101.  
 1857. Larva. *Stainton*. Man. Brit. Butt., p. 37.  
 1859. Larva, chrysalis. *Edw. Newman*. Butt. Young England, p. 10.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 292.  
 1862. Larva, chrysalis. *Morris*. Synop. Lep. N. Amer., p. 60.  
 1861. Larva. *Jaeger*. Life N. Amer. Insects, p. 201.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 93.  
 1869. Larva, chrysalis, (figs.) *Harris*. Entom. Corres., p. 277, pl. 1.  
 1873. Larva. *Hy. Edwards*, (quotes Stainton.) Proc. Cal. Acad. Sc., vol. 5, p. 170.  
 1876. Larva. *Seudder*. Amer. Naturalist, vol. 10, pp. 392, 602.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 87.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 153.  
 1881. Larva, (brief.) *Gundlach*. Entom. Cubana, p. 40.  
 1882. Larva, chrys. *W. F. Kirby*. Europ. Butt. and Moths, p. 13.  
 1881. Larva. *Fernald*. Butt. Maine, p. 59.  
 1886. Larva. *French*. Butt. East. U. States, p. 200.  
 FOOD PLANTS. *Cnicus*, *Carduus*, *Athysa*, *Urtica*.

#### Pyrameis caryæ. Hübn.

1863. Larva, (brief.) *Behr*. Proc. Cal. Acad. Sc., vol. 3, p. 125.  
 1874. Larval stages, chrysalis. *Hy. Edwards*. Loc. cit., vol. 5, p. 329.  
 FOOD PLANT. *Lavatera assurgentiflora*.

#### Junonia cœnia. Hübn.

1797. Larva, (col'd fig.) *Abbott—Smith*. Lep. Ins. Georgia, pl. 8.  
 1833. Larva, chrysalis, (col'd fig.) *Bois—Lec*. Hist. Lep. N. Amer., p. 182, pl. 49.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 293.  
 1873. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 171.  
 1873. Chrysalis, (brief.) *Hy. Edwards*. Loc. cit., vol. 5, p. 171.  
 1880. Larva, (brief.) *Saunders*. Rept. Entom. Soc. Ontario, p. 40.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 87.  
 1881. Larva. *Fernald*. Butt. Maine, p. 60.  
 1886. Larva. *French*. Butt. East. U. States, p. 201.  
 FOOD PLANTS. *Plantago*, *Gerardia*, *Antirrhinum*.

#### Limnitis ursula. Fab.

1833. Larva, chrysalis, (col'd figs.) *Bois—Lec*. Hist. Lep. N. Amer., p. 199, pl. 53.  
 1859. Larva, (brief.) *P. H. Gosse*. Letters from Alabama, p. 123.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—Lec.) Synop. Lep. N. Am., p. 65.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 283.

1869. Larva, chrysalis, (fig.) *Harris*. Entom. Corres., p. 276, pl. 4.  
 1871. Larva. *Riley*. Canad. Entom., vol. 3, p. 52.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 154.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 87.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 162.  
 1881. Larva stages. *W. H. Edwards*. Canad. Entom., vol. 13, p. 242.  
 1883. Larva, chrysalis, (brief.) *Saunders*. Ins. Inj. Fruits, p. 218.  
 1886. Larva, (brief.) *French*. Butt. East. U. States, p. 207.  
 FOOD PLANTS. *Faceinium*, *Cerasus*, *Ribes*, *Quercus*, *Salix*, etc.

**Limenitis arthemis.** Drury, (incl. vars.)

1840. Larva, chrys. (figs.) *P. H. Gosse*. Canad. Naturalist, pp. 220, 221.  
 1861. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 62.  
 1875. Larva. *T. L. Mead*. Canad. Entom., vol. 7, p. 163, (var. *proserpina*.)  
 1875. Life history. *T. L. Mead*. Canad. Entom., vol. 7, p. 162.  
 1877. Larva. *Scudder*. Psyche, vol. 1, p. 14.  
 1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 224.  
 1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 224, (var. *proserpina*.)  
 1879. Life history. (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Limenitis, No. 1.  
 1881. Nest, (fig.) *Scudder*. Butt., their structure, etc., p. 113.  
 1881. Egg, larva, chrysalis. *Fernald*. Butt. Maine, p. 62.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 208.  
 FOOD PLANTS. *Crataegus*, *Salix*.

**Limenitis disippus.** Godt.

1833. Larva, chrysalis, (col'd figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 204, pl. 55.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 379.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 66.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 282.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 63.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 94.  
 1869. Larva, chrysalis. Amer. Entom., vol. 1, p. 193.  
 1871. Larva. *Riley*. Canad. Entom., vol. 3, p. 52.  
 1871. Egg, (figs.) *Riley*. 3d Missouri Rept., p. 153.  
 1871. Larva, chrysalis, (figs.) *Riley*. Loc. cit., pp. 153-157.  
 1874. Life history, (figs.) *Saunders*. Canad. Entom., vol. 6, p. 46.  
 1874. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 330.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 151.  
 1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 224.  
 1881. Nest, (fig.) *Scudder*, (quotes Riley.) Butt., their structure, etc., p. 112.  
 1881. Egg, (fig.) *Scudder*, (quotes Riley.) Loc. cit., p. 10.  
 1881. Larva, chrysalis, (figs.) *Scudder*, (quotes Riley.) Butt., their structure, etc., pp. 22, 45.  
 1883. Egg, larva, chrysalis, (figs.) *Saunders*. Ins. Inj. Fruits, pp. 169, 170.  
 1881. Egg, larva, chrysalis, (figs.) *Fernald*. Butt. Maine, pp. 63, 61.  
 1886. Egg, larva, chrysalis, (figs.) *French*. Butt. East. U. States, p. 211.  
 1886. Life history, (condensed.) *French*. Loc. cit., p. 211.  
 FOOD PLANTS. *Salix*, *Populus*, etc.

**Limenitis eros.** Edw.

1880. Larval stages, chrysalis. *W. H. Edwards*. Canad. Entom., vol. 12, p. 216.  
 1883. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Limenitis, No. 2.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 214.

**Limenitis lorquini.** Bois.

1869. Larva, (brief.) *W. H. Edwards*, (quotes Behr. in lit.) *Bull. N. Amer.*,  
pl. *Limenitis*, No. 3.

1873. Chrysalis. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, vol. 5, p. 171.

1874. Larva. *Hy. Edwards*. *Loc. cit.*, vol. 5, p. 330.

FOOD PLANT. *Quercus*.

**Heterochroa californica.** Butler.

1873. Chrysalis. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, vol. 5, p. 171.

1877. Larva, chrysalis. *Hy. Edwards*. *Loc. cit.*

FOOD PLANT. *Quercus*.

**Apatura clyton.** Bois.-Lee., (includ. vars.)

1833. Larva, chrysalis, (col'd figs.) *Bois.-Lee.* *Hist. Lep. N. Amer.*, p. 208, pl. 56.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 380.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lee.) *Synop. Lep. N. Amer.*, p. 68.

1871. Egg, larva, (figs.) *Riley*. 6th Missouri Rept., pp. 140-150, (as *A. Herse.*)

1876. Life history, (col'd figs.) *W. H. Edwards*. *Bull. N. Amer.*, 2d series,  
pl. *Apatura*, No. 2.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 155.

1880. Egg, chrysalis, (figs.) *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18,  
Append., p. 89.

1881. Egg, larva, chrys., (figs.) *Scudder*, (after Riley.) *Bull.*, their structure,  
etc., p. 262.

1881. Larva, chrys. *Gundlach*. *Entom. Cubana*, p. 63. (as *Toxocopa Idyja*.  
Hbn.)

1886. Egg, larva, chrys., (figs.) *French*, (after Riley.) *Bull. East. U. States*,  
p. 219.

1886. Life history, (condensed.) *French*. *Loc. cit.*, p. 219.

FOOD PLANT. *Celtis occidentalis*.

**Apatura flora.** Edw.

1881. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 13, p. 81.

1886. Life history, (condensed.) *French*, (quotes *W. H. Edwards*.) *Bull.*  
*East. U. States*, p. 222.

**Apatura celtis.** Bois.-Lee.

1833. Larva, chrysalis, (col'd figs.) *Bois.-Lee.* *Hist. Lep. N. Amer.*, p. 210, pl. 57.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lee.) *Synop. Lep. N. Amer.*, p. 69.

1871. Egg, (fig.) *Riley*, (as *A. lycaon*.) 6th Missouri Rept., pp. 137-150.

1874. Larva, chrysalis, (figs.) *Riley*. *Loc. cit.*, pp. 137-150.

1875. Life history, (col'd figs.) *W. H. Edwards*. *Bull. N. Amer.*, 2d series, pl.  
*Apatura*, No. 1.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 155.

1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append. p., 88.

1881. Egg, larva, (figs.) *Scudder*. *Bull.*, their structure, etc., p. 263.

1886. Life history, (figs.) *French*. *Bull. East. U. States*, p. 216.

FOOD PLANT. *Celtis occidentalis*.

**Apatura alicia.** Edw.

1886. Larva, (brief.) *W. H. Edwards*. *Amer. Entom.*, vol. 1, 2d series, p. 206.

1880. Life history. *W. H. Edwards*. *Psyche*, vol. 3, pp. 123-127.

**Paphia troglodyta.** Fab.

1870. Larva, chrysalis, (figs.) *Riley*. 2d Missouri Report, pp. 125-128.

1874. Larva, chrysalis, (col'd figs.) *W. H. Edwards*, (quotes Hayhurst in lit.)  
*Bull. N. Am.*, 2d series, pl. *Paphia*, No. 1.

1873. Life history, (figs.) *Riley*. 5th Missouri Rept., pp. 145-149.

1880. Larva, chrysalis, (figs.) *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18,  
Append., p. 89.

1881. Larva, nest, chrysalis, (figs.) *Scudder*, (after Riley.) *Bull.*, their struc-  
ture, etc., p. 111.

1886. Larva, chrysalis, (figs.) *French*. *Bull. East. U. States*, p. 227.

1858. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 20, p. 41.

FOOD PLANT. *Croton capitatum*.

**Debis portlandia.** Fab.

1825. Larva. *Say*. *N. Amer. Entomology*, vol. 2.

1833. Larva, chrysalis, (col'd fig.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 226, pl. 58.

1862. Larva, chrysalis, (brief.) *Morris*, (quotes *Say*.) *Synop. Lep. N. Amer.*, p. 79, (as *D. andromacha*.)

1862. Larva, chrysalis. *Morris*, (quotes *Bois—Lec.*) *Loc. cit.*, p. 79.

1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 92.

1882. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 14, p. 84.

1884. Egg, larva, chrysalis. *Fernald*. *Butt. Maine*, p. 71.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 230.

**Neonympha canthus.** Bois.—Lec.

1883. Egg, larval stages. *W. H. Edwards*. *Canad. Entom.*, vol. 15, p. 61.

1884. Egg, larva. *Fernald*. *Butt. Maine*, p. 68.

1885. Chrysalis. *W. H. Edwards*. *Canad. Entom.*, vol. 17, p. 112.

1886. Life history, (brief.) *French*. *Butt. East. U. States*, p. 232.

**Neonympha gemma.** Hübn.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 62.

1879. Life history, (figs.) *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 31.

1880. Larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 91.

1881. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 235.

**Neonympha areolatus.** Abb.—Sm.

1797. Larva. *Abbot—Smith*. *Lep. Ins. Georgia*, vol. 1, pl. 13.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 63.

1882. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 14, p. 163.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 237.

**Neonympha eurytris.** Fab.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 61.

1870. Egg, larval stages. *Saunders*. *Canad. Entom.*, vol. 2, p. 139.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 156.

1878. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 10, p. 125.

1880. Egg, larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 90.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 181.

1884. Larval stages, chrysalis. *Fernald*. *Butt. Maine*, p. 67.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 238.

**Neonympha sosybius.** Fab.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 63.

1877. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 9, p. 229.

1880. Egg, larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 91.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 241.

**Cœnomympa ampelos.** Edw.

1887. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 19, p. 42.

**Satyrys alope.** Fab., (includ. vars.)

1833. Larva, chrysalis. *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 228, pl. 59.

1854. Larva, chrysalis, (col'd figs.) *Emmons*. *N. Hist. N. York, Entom.*, vol. 5, pl. 33.

1877. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 9, p. 111, (var. *nephele*.)  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 17, p. 156.  
 1880. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 12, pp. 21, 51, 90, 109.  
 1880. Larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 92.  
 1880. Egg, larva. *Miss Middleton*. *Loc. cit.*, p. 92, (var. *nephele*.)  
 1880. Larva. *Coquillett*. *Loc. cit.*, p. 180, (var. *nephele*.)  
 1881. Young larva, chrysalis, (figs.) *Scudder*. *Butt.*, their structure, etc., pp. 29-43.  
 1882. Life history, (col'd fig.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Satyrus*, 2-3, (incl. vars. *nephele-olympus*.)  
 1881. Egg, larva, chrysalis, (figs.) *Fernald*. *Butt. Maine*, p. 71.  
 1886. Chrysalis, (fig.) *French*. *Butt. East. U. States*, p. 246.  
 1886. Life history, (condensed.) *French*. *Loc. cit.*, p. 246.

**Satyrus charon.** Edw.

1875. Egg. *T. L. Mead*. *Rept. Lepid. Wheeler Exped.*, vol. 5, p. 773.  
 1886. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 18, p. 88.

**Chionobas iduna.** Edw.

1879. Egg. *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 143.  
 1879. Egg, (col'd fig.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Chionobas*, No. 3.

**Chionobas chryxus.** West-Hew.

1875. Egg. *T. L. Mead*. *Rept. Lepid. Wheeler Exped.*, vol. 5, p. 777.

**Chionobas ivallda.** Mead.

1879. Egg, young larva. *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 112.  
 1879. Egg, young larva, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Chionobas*, No. 3.

**Chionobas semidea.** Say.

1863. Egg, larva, chrysalis. *Scudder*. *Charact. Insect Fanna, White Mountains*, pp. 623, 625.  
 1874. Larva, chrysalis, (figs.) *Scudder*. *Geology N. Hampshire*, pl. A.

**Chionobas jutta.** Hübn.

- Egg, larva, (fig'd.) *Holmgren*. *Entom. Tidsch.*, vol. 7, p. 151.  
 1888. Life history. *T. W. Fyles*. *Canad. Entom.*, vol. 20, p. 131.  
 1889. Larva, notes on. *T. W. Fyles*. *Canad. Entom.*, vol. 21, p. 12.

**Chionobas macounii.** Edw.

1888. Egg, larva. *J. Fletcher*. *A Trip to Nopigon*, p. 12.

NOTE.—It is believed that the larvæ of the *Satyrinae* feed exclusively on various species of Grasses and Carices.

**Libythea bachmanni.** Kirtl.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Lecoute*. *Hist. Lep. N. Amer.*, pl. 64, (as *L. motya*.)  
 1874. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Libythea*, No. 1.  
 1881. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 13, p. 226.  
 1886. Life history, (brief.) *French*. *Butt. East. U. States*, p. 251.  
 FOOD PLANT. *Celtis*.

**Eumenia atala.**

1875. Larval stages, chrysalis, (figs.) *Scudder*. *Mem. Boston Soc. N. History*, vol. 2, p. 413, pl. 11.  
 1888. Life history, (figs.) *E. A. Schwartz*. *Insect Life. U. S. Dept. Agr.*, vol. 1, p. 37.  
 FOOD PLANT. *Zamia integrifolia*.

**Lemonias nais.** Edw.

1883. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. 11, pl. *Lemonias*, No. 1.

**Feniseca tarquinius.** Fab.

1833. Larva, chrysalis, (figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 128, pl. 37.  
 1886. Life history. *W. H. Edwards.* Canad. Entom., vol. 18, pp. 141-148.  
 1888. Egg, chrysalis, (brief.) *S. H. Scudder.* Psyche, vol. 5, p. 70.  
 Feeds on Aphides. So far, the only carnivorous lepidopterous larva known in our fauna.

**Thecla haesus.** Cr.

1883. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 83, pl. 25.  
 1862. Larva, chrysalis. *Morris,* (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 92.  
 1886. Larva, chrysalis, (brief.) *French,* (quotes Morris.) Butt. East. U. States, p. 256.  
 1888. Chrysalis. *Hy. Edwards.* Entom. Amer., vol. 3, p. 162.

FOOD PLANT. *Quercus.*

**Thecla m. album.** Bois.-Lec.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 88, pl. 27. (as *T. psyche.*)  
 1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 86, pl. 26.  
 1862. Larva, chrysalis. *Morris,* (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 93.  
 1880. Larva, chrysalis. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 92.  
 1886. Larva, chrysalis, (brief.) *French.* Butt. East. U. States, p. 256.

FOOD PLANTS. *Quercus, Astragalus.*

**Thecla favonius.** Abb.-Sm.

1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith.* Lep. Ins. Georgia, vol. 1, pl. 14.  
 1886. Larva, chrysalis, (brief.) *French,* (quotes Abb.-Sm.) Butt. East. U. States, p. 258.

FOOD PLANT. *Quercus.*

**Thecla humuli.** Harr.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 90, pl. 28. (as *T. hyperici.*)  
 1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 99, pl. 31. (as *T. liparops.*)  
 1852. Larva, (brief.) *Harris.* Ins. Inj. Veget., 2d edit., p. 235.  
 1862. Larva, chrysalis. *Morris,* (quotes Bois.-Lec.) Synop. Lep. N. Amer., pp. 96, 97. (as *T. liparops.*)  
 1862. Larva, chrysalis. *Morris,* (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 94. (as *T. hyperici.*)  
 1862. Larva, chrysalis. *Harris.* Ins. Inj. Veget., Flint's edit., p. 276.  
 1877. Larva. *Packard,* (quotes Harris.) Inj. Ins. West, Hayden's Rept., p. 773.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 92.

FOOD PLANT. *Humulus.*

**Thecla acadica.** Edw.

1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 95.  
 1869. Larva, (col'd fig.) *W. H. Edwards.* Butt. N. Amer., 1st series, pl. Thecla, No. 1.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 93.  
 1886. Larva. *French,* (quotes Saunders.) Butt. East. U. States, p. 261.

FOOD PLANT. *Salix.*

**Thecla calanus.** Hübn.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 92, pl. 29. (as *T. falacer.*)

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 95.  
 1869. Egg. *Saunders*. Canad. Entom., vol. 1, p. 57.  
 1869. Larva, (?). *Saunders*. Canad. Entom., vol. 1, p. 98.  
 1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 61, (as *T. inorata*.)  
 1880. Larva, (?) *Miss Middleton*, (quotes Saunders.) Trans. Dept. Agr. Ill.,  
 vol. 18, Append., p. 93.  
 1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 85.  
 1886. Larva, chrysalis. *French*, (quotes Saunders.) Butt. East. U. States,  
 p. 264.

FOOD PLANT. *Quercus*.

**Thecla strigosa.** Harris.

1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 99.  
 1869. Larva, chrysalis. *W. H. Edwards*, (quotes Saunders.) Butt. N. Amer.,  
 1st series, pl. Thecla, No. 2.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 92.  
 1883. Larva, chrysalis. *Saunders*. Ins. Inj. Fruits, p. 176.  
 1884. Larva. *Fernald*, (quotes Saunders.) Butt. Maine, p. 78.  
 1886. Larva, chrysalis. *French*, (quotes Saunders.) Butt. East. U. States,  
 p. 267.

FOOD PLANT. *Quercus*, etc.

**Thecla smilacis.** Bois.-Lec.

1883. Larva, chrysalis, (col'd figs.) *Boisduval—Lecoute*. Hist. Lep. N. Amer.,  
 p. 107, pl. 33.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer.,  
 p. 99.  
 1880. Larva, chrysalis. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append.,  
 p. 93.  
 1884. Larva, chrysalis, (brief.) *Saunders*. Canad. Entom., vol. 16, p. 52.  
 1886. Larva, chrysalis, (brief.) *French*. Butt. East. U. States, p. 268.

FOOD PLANT. *Smilax rotundifolia*.

**Thecla poeas.** Hübn.

1880. Larva, (brief.) *Riley*. Amer. Entom., vol. 1, 2d series, p. 201.  
 1880. Larva, (brief.) *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append.,  
 p. 93.

FOOD PLANT. *Gossypium*.

**Thecla irioides.** Bois.

1878. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., June.  
 FOOD PLANT. *Sedum spathulifolium*.

**Thecla irus.** Godt., (incl. vars.)

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Lecoute*. Hist. Lep. N. Amer.,  
 p. 101, pl. 31.  
 1833. Larva, chrysalis, (col'd figs.) *Boisduval—Lecoute*. Hist. Lep. N. Amer.,  
 p. 103, pl. 32, (as *T. arsace*.)  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p.  
 97, (as *T. arsace*.)  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer.,  
 p. 97, (as *T. iris*.)  
 1880. Larva, chrysalis. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Ap-  
 pend., p. 94.

FOOD PLANT. *Vaccinium corymbosum*.

**Thecla henrici.** Grote-Rob.

1881. Life history. *W. H. Edwards*. Papilio, vol. 1, p. 150.  
 1881. Life history, (condensed.) *Fernald*, (quotes W. H. Edwards.) Butt.  
 Maine, p. 81.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 271.  
 FOOD PLANT. *Prunus*.



**Thecla niphon.** Hübn.

1833. Larva, chrysalis. *Boisdural—Leconte*. Hist. Lep. N. Amer., p. 105, pl. 33.  
 1858. Larva, chrysalis. *Fitch*. 4th Rept. N. Y. Agr. Soc., pp. 57, 743.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—Lee.) Synop. Lep. N. Amer., p. 98.  
 1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 96.  
 1880. Larva, chrysalis. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 94.  
 1881. Larva. *Packard*, (quotes Fitch.) Ins. Inj. Forest Trees, p. 201.  
 1884. Larva, chrysalis. *Fernald*. Butt. Maine, p. 83.  
 1884. Egg. *Fletcher*. Canad. Entom., vol. 16, p. 92.  
 1886. Larva, chrysalis, (brief.) *French*. Butt. East. U. States, p. 276.  
 FOOD PLANT. *Pinus*.

**Thecla titus.** Fab.

1833. Larva, chrysalis. *Boisdural—Leconte*. Hist. Lep. N. Amer., p. 109, pl. 34.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—Lee.) Synop. Lep. N. Amer., p. 102.  
 1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 96.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 94.  
 1883. Larva, chrysalis. *Saunders*. Ins. Inj. Fruits, p. 249.  
 1884. Larva, chrysalis. *Fernald*. Butt. Maine, p. 84.  
 1886. Larva, chrysalis, (brief.) *French*. Butt. East. U. States, p. 278.  
 FOOD PLANT. *Quercus*.

**Chrysophanus thoe.** Bois.—Lee.

1868. Egg. *Saunders*. Canad. Entom., vol. 1, p. 57.  
 1880. Egg. *Miss Middleton*, (quotes Saunders.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 95.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 8.  
 1886. Egg. *French*, (quotes Saunders.) Butt. East. U. States, p. 281.  
 FOOD PLANT. *Polygonum*.

**Chrysophanus xanthoides.** Bois.

1887. Egg. *Hy. Edwards*. Entom. Amer., vol. 3, p. 162.

**Chrysophanus helloides.** Bois.

1875. Larva, chrysalis. *T. L. Mead*. Rept. Lep. Wheeler Expd., vol. 5, p. 780.

**Chrysophanus epixanthe.** Bois.—Lee.

1868. Egg. *Saunders*. Canad. Entom., vol. 1, p. 57.  
 1886. Egg. *French*, (quotes Saunders.) Butt. East. U. States, p. 282.

**Chrysophanus hypophleas.** Bois.

1810. Egg. *P. H. Gosse*. Canad. Naturalist, p. 221.  
 1832. Larva, (brief.) *Packard*. 2d Rept. Nat. Hist. Geol. Maine, p. 166.  
 1832. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 271.  
 1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 4.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 95.  
 1881. Egg, larva, chrysalis, (figs.) *Scudder*. Butt., their structure, etc., pp. 7, 20, 31, 43.  
 1884. Larva, chrysalis, (figs.) *Fernald*. Butt. Maine, p. 88.  
 1885. Larva. *Hy. Edwards*. Kingsley's Stand. Nat. Hist., vol. 2, p. 476.  
 1886. Egg, larva, chrysalis, (figs.) *French*, (quotes Saunders and Scudder.) Butt. East. U. States, p. 283.

FOOD PLANT. *Rumex acetosella*.

**Lycæna lycea.** Edw.

1875. Larva, (brief.) *T. L. Mead*. Rept. Lep. Wheeler Expd., vol. 5, p. 785.

**Lycæna pambina.** Edw.

1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 12.

**Lycæna melissa.** Edw.

1881. Life history. *W. H. Edwards*. Papilio, vol. 4, p. 91.

FOOD PLANT. *Astragalus*.

**Lycæna scudderi.** Edw.1878. Larva. *Saunders.* Canad. Entom., vol. 10, p. 14.1880. Larva. *Miss Middleton,* (quotes Saunders.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 95.FOOD PLANT. *Lupinus perennis.***Lycæna acmon.** Doubl.-Hew.1875. Larva. *Hy. Edwards.* Proc. Cal. Acad. Sc., April, (as *L. antægon.*)FOOD PLANT. *Hosackia.***Lycæna pseudargiolus.** Bois.-Lee., (includ. vars.)1797. Larva, chrys. *Abbot-Smith.* Lep. Ins. Georgia.1833. Larva, chrysalis. *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 118.1862. Larva, chrysalis. *Morris,* (quotes Bois.-Lee.) Synop. Lep. N. Amer., p. 82.1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 100, (as *L. neglecta.*)1869. Larva, (col'd fig.) *W. H. Edwards,* (quotes Abb.-Sm., Bois.-Lee.) Butt. N. Amer., 1st series, pl. *Lycæna*, No. 2.1873. Egg, larval stages. *W. H. Edwards.* Canad. Entom., vol. 5, p. 224.1875. Egg, larva. *W. H. Edwards.* Canad. Entom., vol. 7, p. 81.1878. Life history. *W. H. Edwards.* Canad. Entom., vol. 10, p. 12.1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 95.1880. Larva. *Miss Middleton.* Loc. cit., p. 96, (as *L. neglecta.*)1883. Life history. *W. H. Edwards.* Papilio, vol. 3, pp. 85-97.1884. Life history, (col'd figs.) *W. H. Edwards.* Butt. N. Amer., 2d series, pl. *Lycæna*, No. 2.1884. Larva, chrysalis. *Fernald.* Butt. Maine, p. 89, (as *L. neglecta.*)1886. Life history, (condensed.) *French.* Butt. East. U. States, p. 289.FOOD PLANTS. *Actinomeris, Cornus, etc.***Lycæna amyntula.** Bois.1884. Life history. *W. G. Wright.* Papilio, vol. 4, p. 126.FOOD PLANT. *Astragalus.***Lycæna comyntas.** Godt.1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 120, pl. 36.1862. Larva, chrysalis. *Morris,* (quotes Bois.-Lee.) Synop. Lep. N. Amer., p. 83.1862. Larva. *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 275.1869. Larva, chrysalis. *Harris.* Entom. corres., p. 275.1876. Life history. *W. H. Edwards.* Canad. Entom., vol. 8, p. 202.1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 95.1881. Egg, larva. *Fernald.* Butt. Maine, p. 92.1886. Life history. *French,* (quotes W. H. Edwards.) Butt. East. U. States, p. 292.FOOD PLANTS. *Lespedeza, Phascolus.***Carterocephalus mandan.** Edw.1888. Egg, larva. *J. Fletcher.* A Trip to Nepigon, p. 12.**Ancyloxypha numitor.** Fab.1862. Chrysalis, (brief.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 308.1880. Chrysalis. *Miss Middleton,* (quotes Harris.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 96.1886. Chrysalis. *French,* (quotes Harris.) Butt. East. U. States, p. 301.**Pamphila zabulon.** Bois.-Lee., (includ. vars.)1868. Egg, young larva. *Saunders.* Canad. Entom., vol. 1, p. 66.1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 97, (as *P. hobomok.*)1881. Egg, larva, (figs.) *Scudder.* Butt., their structure, etc., pp. 7, 23.1884. Egg, larva, (figs.) *Fernald.* Butt. Maine, p. 95.1886. Egg, larva, (figs.) *French.* Butt. East. U. States, p. 304.FOOD PLANT. *Grasses.*

**Pamphila phytæus.** Drury.

1879. Larva, chrysalis. *A. W. Chapman.* Canad. Entom., vol. 11, p. 190.  
 1880. Larva. *Miss Middleton*, (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 96.  
 1880. Larva. *Coquillett*, (quotes Chapman.) Loc. cit., p. 176.  
 1886. Larva, chrysalis. *French*, (quotes Chapman.) Butt. East. U. States, p. 311.

FOOD PLANT. *Grasses.*

**Pamphila brettus.** Bois.-Lec.

1881. Larva, chrysalis. *Gaullach.* Entom. Cubana, p. 161.  
 1886. Egg, larva, chrysalis. *French.* Butt. East. U. States, p. 315.

FOOD PLANT. *Grasses.*

**Pamphila otho.** Bois.-Lec.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., pl. 17.

**Pamphila mystic.** Scud.

1869. Egg, larval stages. *Saunders.* Canad. Entom., vol. 1, p. 65.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 97.  
 1884. Egg, larva. *Fernald.* Butt. Maine, p. 99.  
 1886. Egg, larva. *French.* Butt. East. U. States, p. 319.

FOOD PLANT. *Grasses.*

**Pamphila sassacus.** Harris.

1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 97.

**Pamphila cernes.** Bois.-Lec.

1888. Egg, larva. *J. Fletcher.* A Trip to Nepigon, p. 14.

**Pamphila peckius.** Kby.

1868. Egg, young larva. *Saunders.* Canad. Entom., vol. 1, p. 66.  
 1880. Larva. *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 178.  
 1881. Egg, larva. *Fernald.* Butt. Maine, p. 98.  
 1886. Egg, larva. *Fernald.* Butt. East. U. States, p. 318.

FOOD PLANT. *Grasses.*

**Pamphila accius.** Abb.-Smith.

1879. Larva. *A. W. Chapman.* Canad. Entom., vol. 11, p. 91.  
 1881. Chrysalis, (fig.) *Scudder.* Butt., their structure, etc., p. 12.

**Pamphila maculata.** Edw.

1879. Larva. *A. W. Chapman.* Canad. Entom., vol. 11, p. 191.  
 1880. Larva. *Coquillett*, (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 176.  
 1886. Larva, chrysalis. *French.* Butt. East. U. States., p. 330.

**Pamphila ethlius.** Craun.

1877. Larva. *C. R. Dodge.* Field and Forest, vol. 3, p. 73.  
 1881. Larva, chrysalis. *Gaullach.* Entom. Cubana, p. 160.  
 1887. Chrysalis. *Hj. Edwards.* Entom. Amer., vol. 3, p. 163.

**Pamphila arpa.** Bois.-Lec.

1883. Larva, chrysalis, (figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., pl. 68.  
 1879. Larva, chrysalis. *A. W. Chapman.* Canad. Entom., vol. 11, p. 191.  
 1886. Larva, chrysalis. *French*, (quotes Chapman.) Butt. East. U. States, p. 339.

FOOD PLANT. *Saw-palmetto.*

**Pamphila palatka.** Edw.

1883. Larva, chrysalis, (figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., pl. 67, (as *P. bulenta.*)  
 1879. Larva. *Chapman.* Canad. Entom., vol. 11, p. 192.  
 1880. Larva. *Coquillett.* (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 151.

1886. Larva. *French*, (quotes Chapman.) Butt. East. U. States, p. 311.  
 FOOD PLANT. *Grasses*.

**Pamphila delaware.** Edw.

1879. Larva, chrysalis. *A. W. Chapman*. Canad. Entom., vol. 11, p. 193.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., 96.  
 1880. Larva. *Coquillett*, (quotes Chapman.) Loc. cit., p. 171.  
 1886. Larva. *French*, (quotes Chapman.) Butt. East. U. States, p. 343.  
 FOOD PLANT. *Grasses*.

**Amblyscirtes vialis.** Edw.

1888. Egg, larva. *J. Fletcher*. A Trip to Nepigon, p. 15.

**Nisoniades brizo.** Bois.—Leec.

1833. Larva, chrysalis, (figs.) *Boisdural—Leconte*. Hist. Lep. N. America, pl. 66.

**Nisoniades icelus.** Lintn.

1869. Egg. *Lintner*. 3d Rept. N. Y. State Cab. N. Hist., p. 163.  
 1885. Larva, chrysalis. *W. H. Edwards*. Canad. Entom., vol. 17, p. 98.  
 1886. Egg. *French*, (quotes Lintner.) Butt. East. U. States, p. 355.  
 1888. Egg. *J. Fletcher*. A Trip to Nepigon, p. 15.  
 FOOD PLANT. *Populus tremuloides*.

**Nisoniades lucilius.** Lintn.

1870. Larva. *Lintner*. 24th Rept. N. Y. State Cab. N. Hist., p. 165.  
 1875. Egg, young larva. *T. L. Mead*. Canad. Entom., vol. 7, p. 163.  
 1878. Life history. *Lintner*. Entom. Contrib., No. 4, p. 67.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 97.  
 1886. Egg, larva, chrysalis. *French*. Butt. East. U. States, p. 359.  
 FOOD PLANT. *Aquilegia canadensis*.

**Nisoniades persius.** Scud.

1881. Nest, (fig.) *Scudder*. Butt., their structure, etc., p. 108.

**Nisoniades juvenalis.** Fab.

1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 21.  
 1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer.,  
 pl. 65.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 309.  
 1880. Larva, chrysalis. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Ap-  
 pend., p. 97.  
 1881. Larva, chrysalis, (figs.) *Scudder*. Butt., their structure, etc., p. 114, (as  
*Than. cunius*.)  
 1886. Larva, chrysalis, (brief.) *French*, (quotes Harris.) Butt. East. U. States,  
 p. 364.

FOOD PLANTS. *Lathyrus, Apios, etc.*

**Pholisora catullus.** Fab.

1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 21.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 98.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 9.  
 1885. Life history. *W. H. Edwards*. Canad. Entom., vol. 17, p. 245.  
 1886. Egg, (fig.) *French*. Butt. East. U. States, p. 367.  
 FOOD PLANTS. *Monarda, Chenopodium, Ambrosia*.

**Eudamus pylades.** Scud.

1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 6.  
 1884. Egg, (fig.) *Fernald*. Butt. Maine, p. 104.  
 1886. Egg, (fig.) *French*. Butt. East. U. States, p. 369.

**Eudamus bathyllus.** Abb.—Smith.

1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 22.  
 1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer.,  
 pl. 71.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 98.

**Eudamus lycidas.** Abbot—Smith.1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith.* Lep. Ins. Georgia, pl. 20.1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte.* Hist. Lep. N. Amer., pl. 71.**Eudamus cellius.** Bois.—Lee.1833. Larva, chrysalis. *Boisdural—Leconte.* Hist. Lep. N. Amer., pl. 73.**Eudamus tityrus.** Fab.1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith.* Lep. Ins. Georgia, pl. 191833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte.* Hist. Lep. N. Amer., pl. 72.1811. Larva, chrysalis. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 221.1852. Larva. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 224.1854. Larva, chrysalis, (col'd figs.) *Emmons.* Nat. Hist. N. York, pl. 832.1858. Larva. *Fitch.* 5th Rept. Ins. N. York, § 330.1859. Larva, nest, chrysalis. *P. H. Gosse.* Letters from Alabama, p. 85.1862. Larva, chrysalis, (figs.) *Harris.* Ins. Inj. Vegetat., Flit's edit., p. 311.1862. Larva. *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 112.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 163.1880. Egg, larva. *Miss Middlcton.* Loc. cit., vol. 18, Append., p. 98.1880. Larva. *Coquillett.* Loc. cit., vol. 18, Append., p. 153.1881. Nest, larva, chrysalis, (figs.) *Scudder.* Butt., their structure, etc., p. 107.1881. Cocoon, chrysalis, (figs.) *Scudder.* Loc. cit., p. 256.1881. Larva. *Packard*, (quotes Harris.) Ins. Inj., Forest Trees, p. 100.1885. Larva. *Hy. Edwards.* Kingsley's Stand. Nat. Hist., vol. 2, p. 475.1886. Chrysalis, (fig.) *French.* Butt. East. U. States, p. 376.1886. Life history. *French.* Loc. cit., p. 375.FOOD PLANTS. *Robinia, Acacia, Wistaria.***Eudamus proteus.** L.1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith.* Lep. Ins. Georgia, pl. 18.1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte.* Hist. Lep. N. Amer., pl. 69.1856. Larva. *Chenn—Lucas*, (quote Abb.—Sm.) Encyc. Nat. Hist. Papillons, vol. 1, p. 223.1879. Larva, chrysalis. *A. W. Chapman.* Canad. Entom., vol. 11, p. 193.1880. Larva, chrysalis. *Coquillett*, (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 184.1881. Larva, chrysalis. *Gundlach.* Entom. Cubana, p. 169.1886. Larva, chrysalis. *French*, (quotes Chapman.) Butt. East. U. States, p. 378.FOOD PLANTS. *Phaseolus, Clitoria.***Megathymus yuccæ.** Bois.—Lee.1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte.* Hist. Lep. N. Amer., pl. 70, (as *Eudamus Yuccæ.*)1876. Larva, chrysalis, (figs.) *Riley.* Trans. Acad. Sc. St. Louis, pp. 323-344.1876. Life history, (figs.) *Riley.* 8th Missouri Rept., pp. 168-183.1877. Life history, (figs.) *Riley.* 9th Missouri Rept., p. 129.1886. Life history, (figs.) *French*, (quotes Riley.) Butt. East. U. States, p. 383.FOOD PLANT. *Stems of Yucca.***Megathymus cofæqui.** Strecker.1876. Larva. *Strecker.* Proc. Acad. Nat. Sc. Philad., p. 148.

## HETEROCERA.

## SPHINGIDÆ.

**Hemaris tenuis.** Grote.1877. Larva. *Grote.* Psyche, vol. 2, p. 66.1880. Larva. *Coquillett*, (quotes Grote.) Trans. Dept. Agr. Ill., vol. 18, Append.,

1883. Larva. *Ph. Fischer*. Canad. Entom., vol. 15, p. 238.  
 1881. Egg, larva. *Ph. Fischer*. Canad. Entom., vol. 16, p. 143.  
 1886. Larva, pupa. *W. J. Holland*. Canad. Entom., vol. 18, p. 101.  
 FOOD PLANT. *Symphoricarpus racemosus*.

**Hemaris marginalis.** Grote.

- Life history. *H. S. Jewett*. Bull. Brooklyn Entom. Soc., vol. 4, p. 17.  
 FOOD PLANT. *Lonicera sempervirens*.

**Hemaris diffinis.** Bois.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 85, pl. 43  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art., vol. 36, p. 308.  
 1859. Larva. *Clemens*. Journal Acad. N. Sc. Philad., (July.)  
 1862. Larva, (brief.) *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 149.  
 1870. Larva. *T. L. Mead*. Canad. Entom., vol. 2, p. 157.  
 1870. Larva. *Lintner*. 24th Rept. N. Y. State Cab. N. Hist., p. 110.  
 1871. Larva. *Boisdural*. Spec. Gener. Sphingidæ, p. 367.  
 1880. Larva. *Couplet*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 160.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 99.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 50.  
 1886. Larva. *Fernald*. Sphingidæ N. Engl'd, p. 15.  
 FOOD PLANTS. *Apocynum*, *Symphoricarpus*.

**Hemaris thysbe.** Fab., (includ. vars.)

1861. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 616.  
 1874. Larva. *Boisdural*. Spec. Gener. Sphingidæ, p. 370.  
 1879. Larva, pupa. *G. D. Hulst*. Bull. Brooklyn Entom. Soc., vol. 2, p. 38  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 99.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 51.  
 1883. Larva, pupa. *Edwards-Elliott*. Papilio, vol. 3, p. 125. (as *H. uniformis*.)  
 1885. Larva. *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 165.  
 1886. Larva. *Fernald*. Sphingidæ N. Engl'd, p. 17.  
 1888. Larva. *J. B. Smith*, (quotes Lintner-Hulst.) Monog. Sphing., p. 103  
 FOOD PLANTS. *Viburnum*, *Cyatagus*, *Prunus*, etc.

**Hemaris buffaloensis.** G. and R.

1870. Life history. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 112.  
 1888. Larva. *J. B. Smith*, (quotes Lintner.) Monog. Sphing., p. 105.  
 FOOD PLANT. *Viburnum*.

**Hemaris etolus.** Bois.

1871. Larva. *Boisdural*. Spec. Gener. Sphingidæ, p. 370.  
 FOOD PLANT. *Viburnum*.

**Hemaris pyramus.** Bois.

1871. Larva. *Boisdural*, (quotes Leconte.) Spec. Gener. Sphingidæ, p. 372.  
 FOOD PLANT. *Viburnum*.

**Ællopos tantalus.** L.

1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 163.

**Cautethia grotei.** Hy. Edwards.

1881. Larva. *Gundlach*. Entom. Cubana.  
 1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 161.  
 FOOD PLANT. *Rubiaceæ*.

**Pogocolon gauræ.** Abb.-Sm.

1797. Larva, pupa, (fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 61, pl. 31.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc., Philad.  
 1862. Larva, pupa. *Morris*, (quotes Abb.-Sm.) Synop. Lep. N. Amer., p. 151.  
 1871. Larva. *Boisdural*, (quotes Abb.-Sm.) Spec. Gener. Sphingidæ, p. 315.  
 FOOD PLANT. *Gaura biennis*.

**Amphion nessus.** Cramer.

1871. Larva, (col'd fig.) *Boisdural*. Spec. Gener. Sphingidæ, p. 817, pl. 1.  
 1877. Larva. *W. F. Andrews*. Canad. Entom., vol. 9, p. 49.

1882. Larva. *E. B. Reed*, (quotes Andrews.) 12th Rept. Entom. Soc. Ontario.  
 1882. Larva, brief. *Julia E. Saunders*. Papilio, vol. 2, p. 147.  
 1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 21.  
 FOOD PLANTS. *Rubiaceæ*, *Vitis*.

**Thyreus abbotii.** Swainson.

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 307.  
 1856. Larva, (fig.) *Cheuu—Demarets*. Encyc. Hist. Nat. Papillons, vol. 1, p. 257.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 156.  
 1869. Larva. *Harris*. Entom. Corres., p. 284.  
 1870. Larva, pupa. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 114.  
 1874. Larva, pupa. *Boisduval*. Spec. Gener. Sphingidae, p. 331, (from Abbot's drawing.)  
 1876. Larva. *C. P. Whitney*. Canad. Entom., vol. 8, p. 75.  
 1876. Larva, (brief.) *A. R. Grote*. Canad. Entom., vol. 8, p. 100.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 164.  
 1878. Larva, (fig.) *G. H. Perkins*. 5th Rept. Vermont Agr. Soc., p. 281.  
 1878. Larva, (fig.) *Saunders*. Canad. Entom., vol. 10, p. 130.  
 1879. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 78.  
 1880. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 42.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 100.  
 1881. Larva, (fig.) *Saunders*. Canad. Entom., vol. 13, p. 2.  
 1882. Larva, (fig.) *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 53.  
 1882. Larva, (brief.) *Julia E. Saunders*. Papilio, vol. 2, p. 147.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 253.  
 1886. Larva, (fig.) *Fernald*. Sphingidae N. Engl'd, p. 23.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.

**Enyo lugubris.** L.

1797. Larva, pupa, (fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 59, pl. 30.  
 1837. Larva, pupa. *Westwood*, (quotes Abb.—Sm.) Drury's Illus. Exot. Entom., vol. 1, p. 56.  
 1839. Larva. *Harris*, (quotes Abb.—Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 307.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*, (quotes Abb.—Sm.) Synop. Lep. N. Amer., p. 162.  
 1874. Larva. *Boisduval*. Spec. Gener. Sphingidae, p. 297.  
 FOOD PLANT. *Ampelopsis hederacea*.

**Deidamia inscripta.** Harris.

1862. Pupa. *Clemens*. Morris's Synop. Lep. N. Amer., p. 159.  
 1877. Larva, pupa. *Strecker*, (fide Akhurst.) Rhopal. et Heteroc., p. 112.  
 1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 70.  
 FOOD PLANT. *Ampelopsis*.

**Deilephila chamænerii.** Harris.

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 305.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 165.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 661.  
 1870. Larva, pupa, (brief.) *G. J. Bowles*. Canad. Entom., vol. 3, p. 115.  
 1874. Larva. *Boisduval*, (as *D. galii*.) Spec. Gener. Sphingidae, p. 170.  
 1876. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 37.  
 1877. Larva, (fig.) *Saunders*. Canad. Entom., vol. 9, p. 64.  
 1880. Larva. *Coquillett*, (quotes Saunders.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.  
 1882. Larva. *E. B. Reed*, (quotes Saunders.) 12th Rept. Entom. Soc. Ontario, p. 54.  
 1883. Larva, cocoon, pupa. *Saunders*. Ins. Inj. Fruits, p. 257.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 55.  
 1888. Larva, (brief.) *J. B. Smith*, (quotes Harris, Clemens, Morris.) Monog. Sphing., p. 133.

FOOD PLANT. *Epilobium angustifolium*.

**Deilephila lineata.** Fabr.

1797. Larva, pupa, (fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 77, pl. 39.  
 1828. Larva, pupa. *Stephens*. Illus. Brit. Entom., Haust., vol. 1, p. 127.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 304.  
 1856. Larva, pupa. *Chenu*. Encyc. Hist. Nat. Papillons, p. 262.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1860. Larva. *Duncan*. Natural. Library, vol. 30, p. 152.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 161.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 662.  
 1871. Larva, (fig.) *Riley*. 3d Missouri Rept., p. 111.  
 1874. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 28.  
 1874. Larva. *Boisduval*, (quotes Abbot as *D. daucus*.) Spec. Gener. Sphingidae, p. 174.  
 1874. Larva, (fig.) *J. G. Wood*, (as *D. daucus*.) Ins. Abroad, p. 637.  
 1875. Larva, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc.  
 1876. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 37.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 161.  
 1877. Larva, (fig.) *Saunders*. Canad. Entom., vol. 9, p. 61.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 100.  
 1880. Larva, (fig.) *Coupllett*. Trans. Dept. Agr. Ill., Append., vol. 18, p. 159.  
 1882. Larva, (fig.) *E. B. Reed*, (quotes Riley.) 12th Rept. Entom. Soc. Ontario, p. 55.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 255.  
 1886. Larva, (fig.) *Fernald*. Sphingidae N. Engl'd, p. 57.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 196.

FOOD PLANTS. *Portulaca*, *Pyrus*, *Fuchsia*, etc.,

**Philampelus vitis.** Drury.

1705. Larva, pupa, (col'd figs.) *Merian*. Metam. Ins. Surinam, p. 47, pl. 47.  
 1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 79, pl. 10.  
 1837. Larva, pupa. *Westwood*, (quotes Abb.-Sm.) Drury's Illus. Exot. Entom., vol. 1, p. 55.  
 1839. Larva. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 299.  
 1858. Larva, pupa, (col'd figs.) *Duncan*. Natural. Library, vol. 22, p. 105, pl. 7.  
 1859. Larva, pupa. *Clemens*, (quotes Abb.-Sm.) Jour. Acad. N. Sc. Philad., July.  
 1859. Larva, brief, (fig.) *P. H. Gosse*. Letters from Alabama, p. 246.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 179.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 189.  
 1886. Larva. *Fernald*, (quotes Clemens.) Sphingidae N. Engl'd, p. 59.  
 1887. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 165.

FOOD PLANT. *Jussiaea decurrens*.

**Philampelus pandorus.** Hübn.

1705. Larva, pupa, (col'd figs.) *Merian*. Metam. Ins. Surinam, p. 47, pl. 47.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 300, (as *P. satellitia*.)  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 228.  
 1854. Larva. *Eumons*. Nat. Hist. N. York, vol. 5, p. 220.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 398.  
 1859. Larva. *Clemens*. Jour. Acad. Sc. Philad., July.  
 1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 177.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 659.  
 1864. Larva. *Jayger*. Life N. Amer. Ins., p. 193.



1868. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 26.  
 1874. Larva. *Boisdural*. *Spec. Gener. Sphingidæ*, p. 200.  
 1876. Life history, (figs.) *Riley*. 2d *Missouri Rept.*  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 165.  
 1877. Larva. *Seudder*. *Psyche*, vol. 2, p. 68.  
 1880. Larva, (fig.) *Coquillett*, (quotes *Clemens*.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 175.  
 1880. Larval stages, (figs.) *J. Marten*. *Trans. Dept. Agr. Ill.*, Append., vol. 18, p. 101.  
 1881. Larva. *Saunders*. *Canad. Entom.*, vol. 13, p. 41.  
 1881. Larva. *W. W. Goldsmith*, (quotes *Riley*.) *Kentucky Bureau Agr.*, p. 251.  
 1882. Larva, (fig.) *Saunders*. 12th *Rept. Entom. Soc. Ontario*, p. 19.  
 1882. Larva, pupa, (figs.) *E. B. Reed*. *Loc. cit.*, p. 60.  
 1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 249.  
 1886. Larva, (fig.) *Fernald*. *Sphingidæ N. Engl'd*, p. 60.  
 1886. Larva, (brief.) *Julia E. Saunders*. *Papilio*, vol. 2, p. 147.  
 1888. Larva, pupa, (fig.) *Grote*. 18th *Rept. Entom. Soc. Ontario*, p. 73.  
 FOOD PLANTS. *Ampelopsis*, *Vitis*.

**Philampelus achemon.** Drury.

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 81, pl. 41.  
 1839. Larva. *Harris*. *Silliman's Jour. Sc. Art.*, vol. 36, p. 300.  
 1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 228.  
 1859. Larval stages. *Clemens*. *Jour. Acad. N. Sc. Philad.*, July.  
 1862. Larval stages. *Morris*, (quotes *Clemens*.) *Synop. Lep. N. Amer.*, p. 178.  
 1862. Larva, pupa, (figs.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 325.  
 1864. Larva, pupa. *Lintner*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 660.  
 1869. Larva, (fig.) *Harris*. *Entom. Corres.*, pl. 111.  
 1870. Egg, larval stages. *Lintner*. 24th *Rept. N. York State Cab. N. Hist.*, p. 116.  
 1874. Larva. *Boisdural*, (quotes *Lorquin* in lit.) *Spec. Gener. Sphingidæ*, p. 200.  
 1874. Life history. *Riley*. 2d *Missouri Rept.*, p. 74-76.  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 165.  
 1878. Larva, pupa, (fig.) *Saunders*. *Canad. Entom.*, vol. 10, p. 103.  
 1878. Larva, (fig.) *G. H. Perkins*. 5th *Rept. Vermont Board Agr.*, p. 279.  
 1879. Larva, pupa, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 74.  
 1880. Larva, (fig.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 101.  
 1880. Larva, (fig.) *Coquillett*, (quotes *Clemens*.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 182.  
 1882. Larva, (brief.) *Julia E. Saunders*. *Papilio*, vol. 2, p. 147.  
 1883. Larval stages, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 251.  
 1886. Larva, pupa, (figs.) *Fernald*. *Sphingidæ N. Engl'd*, p. 61.  
 FOOD PLANT. *Vitis*.

**Argeus labruscæ.** L.

1705. Larva, pupa, (col'd figs.) *Merian*. *Metam. Ins. Surinam*, p. 34, pl. 34.  
 1719. Larva, (col'd fig.) *Madame Merian*. *Ins. of Surinam*, pl. 34.  
 1874. Larva. *Boisdural*, (quotes *Mad. Merian*.) *Spec. Gener. Sphingidæ*, p. 193.  
 1886. Larva, (brief.) *Gundlach*. *Entom. Cubana*, p. 187.  
 FOOD PLANT. *Cissus*.

**Pseudosphinx tetrio.** L.

1832. Larva, (fig.) *Pocoy*. *Lep. Cubana*.  
 1874. Larva. *Boisdural*, (quotes *Pocoy*.) *Spec. Gener. Sphingidæ*, p. 61.  
 1878. Larva, pupa, (figs.) *H. Dewitz*. *Wiegmann Archiv. Naturgesch.*, p. 9, pl. 1.  
 1886. Larva, pupa. *Gundlach*. *Entom. Cubana*, p. 204.  
 1887. Pupa. *H. J. Edwards*. *Entom. Amer.*, vol. 3, p. 165.  
 1887. Pupa. *H. J. Edwards*. *Canad. Entom.*, vol. 20, p. 14.  
 FOOD PLANTS. *Plumiera rubra*, *Jasminum*.

**Pachylia ficus.** L.

1719. Larva, (fig.) *Madame Merian*. Ins. of Surinam, pl. 33.  
 1874. Larva. *Boisdural*, (quotes Mad. Merian.) Spec. Gener. Sphingidæ, p. 137.  
 1881. Larva, (brief.) *W. Schaus, jr.* Papilio, vol. 4, p. 21.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 201.  
 1888. Larva, (brief.) *J. B. Smith*, (quotes Fab., Merian, Boisd.) Monogr. Sphing., p. 139.

FOOD PLANT. *Ficus*.

**Cherocampa tersa.** L.

1797. Larva, pupa, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 75, pl. 38.  
 1837. Larva, pupa. *Westwood*, (quotes Abb.-Sm.) Drury's Ill. Exot. Entom., vol. 1, p. 56.  
 1839. Larva, pupa. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 3, p. 303.  
 1858. Larva, (col'd fig.) *Duncan*. Natural Library, vol. 22, p. 100, pl. 6.  
 1859. Larva. *Clemens*. Jour. Acad. N. Se. Philad., July.  
 1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 172.  
 1871. Larva, pupa. *Boisdural*, (quotes Abbot.) Spec. Gener. Sphingidæ, p. 261.  
 1880. Larva. *Cochillet*, (quotes Abb.-Sm.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 56.  
 1886. Larva. *Fernald*. Sphingidæ N. Eng'd, p. 63.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 192.  
 1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 161.

FOOD PLANT. *Rubiaceæ*.

**Everyx chærilus.** Bdv.

1797. Larva, pupa. *Abbott-Smith*. Lep. Ins. Georgia, p. 53, pl. 27.  
 1839. Larva. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 3, p. 302.  
 1859. Larva, pupa. *Clemens*, (quotes Abb.-Sm.) Jour. Acad. N. Se. Philad.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 168.  
 1869. Pupa. *Harris*. Entom. Corres., p. 283.  
 1871. Larva, pupa. *Boisdural*. Spec. Gener. Sphingidæ, p. 211.  
 1882. Larva. *E. B. Reed*, (quotes Abb.-Sm.) 12th Rept. Entom. Soc. Ontario, p. 57.  
 1883. Larva, pupa. *Edwards-Elliott*. Papilio, vol. 3, p. 126.  
 1886. Larva, pupa. *Fernald*, (quotes Edw.-Elliott.) Sphingidæ N. Eng'd, p. 65.  
 FOOD PLANTS. *Azalea*, *Viburnum*.

**Everyx myron.** Cramer.

1797. Larva, (fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 55, pl. 28.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 3, p. 302.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 229.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 249.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 397.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Se. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 169.  
 1862. Larva, pupa, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 327.  
 1861. Larval stages, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 663.  
 1871. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 357.  
 1871. Larva, pupa, (fig.) *Saunders*. Canad. Entom., vol. 3, p. 66.  
 1871. Life history. (figs.) *Riley*. 2d Missouri Rept., p. 71-73.  
 1874. Larva, pupa. *Boisdural*. Spec. Gener. Sphingidæ, p. 210.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 166.  
 1878. Larva, (fig.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 277.  
 1879. Larva, (fig.) *Mrs. Ballard*. Insect Lives, p. 67.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 103.  
 1882. Larva, pupa, (figs.) *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 58.

1883. Egg, larval stages, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 245.

1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 465.

1886. Egg, larva, pupa, (figs.) *Fernald*. Sphingidæ N. Engl'd, p. 66.

FOOD PLANTS. *Vitis*, *Ampelopsis*, *Viburnum*.

**Ampelophaga versicolor.** Harris.

1876. Larva, (brief.) *G. W. Peck*. Canad. Entom., vol. 8, p. 239.

1878. Life history. *G. D. Hulst*. Canad. Entom., vol. 10, p. 64.

1880. Larva. *Coguillett*, (quotes Hulst.) Trans. Dept. Agr. Ill., vol. 18, Appendix., p. 158.

1881. Larva, (brief.) *Ph. Fischer*. Bull. Buffalo Soc. N. Sc., vol. 4, p. 62.

1885. Larva. *Ph. Fischer*. Canad. Entom., vol. 17, p. 78.

1886. Egg, larval stages, pupa. *Fernald*, (quotes Hulst.) Sphingidæ N. Engl'd, p. 68.

FOOD PLANT. *Cephalanthus occidentalis*.

**Smerinthus ophthalmicus.** Bois.

1869. Larva. *Boisdural*. Lep. Califor., p. 68.

1874. Larva, (col'd fig.) pupa. *Boisdural*, (quotes Lorquin in lit.) Spec. Gener. Sphingidæ, p. 34, pl. 1.

1875. Egg, larval stages. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.

FOOD PLANT. *Salix*.

**Smerinthus geminatus.** Say.

1840. Larva, pupa. *P. H. Gosse*. Canad. Naturalist, pp. 280, 295.

1870. Egg, larval stages. *Lintner*. 21th Rept. N. York State Cab. N. Hist., p. 119.

1874. Larva. *Boisdural*. Spec. Gener. Sphingidæ, p. 39.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 62.

1886. Egg, larva. *Fernald*. Sphingidæ N. Engl'd, p. 78.

FOOD PLANTS. *Prunus*, *Salix*, *Betula*, etc.

**Smerinthus excæcatus.** Abb.-Sm.

1797. Larva, pupa, (figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 49, pl. 25.

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 290.

1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 230.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 341.

1859. Egg, larval stages, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.

1862. Egg, larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 209.

1861. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 665.

1868. Larva. *E. B. Reed*. Canad. Entom., vol. 1, p. 40.

1874. Larva, pupa. *Boisdural*, (quotes J. Leconte in lit.) Spec. Gener. Sphingidæ, p. 38, (after Abbot's drawing.)

1876. Larva. *Strecker*. Rhopal. et Heteroc., p. 55.

1877. Larva. *Packard*. Half-hours with Insects, p. 180.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 62.

1883. Larva, (figs.) *Saunders*. Ins. Inj. Fruits, p. 85.

1884. Larva, (fig.) *Saunders*. Canad. Entom., vol. 16, p. 11.

1885. Larva, (fig.) *Saunders*. 15th Rept. Entom. Soc. Ontario, p. 26.

1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 468.

1880. Larva, pupa, (figs.) *Fernald*. Sphingidæ N. Engl'd, p. 74.

FOOD PLANTS. *Pyrus*, *Prunus*, *Rosa*.

**Smerinthus myops.** Abb.-Sm.

1797. Larva, pupa, (figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 51, pl. 26.

1839. Larva. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 291.

1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., (after Abbot's figure.)

1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 208.

1874. Larva, pupa. *Boisdural*, (quotes J. Leconte in lit.) Spec. Gener. Sphingidæ, p. 42, (after Abbot's figure.)

1876. Larva, (brief.) *G. W. Peck*. Canad. Entom., vol. 8, p. 239.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 61.  
 1883. Larva, pupa *Saunders*. Ins. Inj. Fruits, p. 208.  
 1881. Larva. *Saunders*. Canad. Entom., vol. 16, p. 11.  
 1885. Larva. *Saunders*. 15th Rept. Entom. Soc. Ontario, p. 27.  
 1886. Larva. *Fernald*. Sphingidae, N. Engl'd, p. 76.  
 1886. Larva. *R. Banker*. Canad. Entom., vol. 18, p. 207.  
 FOOD PLANT. *Prunus*.

**Smerinthus astylus.** Drury.

1871. Larva. *Boisdural*, (quotes J. Leconte in lit.) Spec. Gener. Sphingidae, p. 41.  
 1876. Larva, (brief.) *G. W. Peck*. Canad. Entom., vol. 8, p. 239.  
 1886. Larva. *Fernald*. Sphingidae, N. Engl'd, p. 77.  
 1888. Larva, (brief.) *J. B. Smith*, (quotes Peck.) Monog. Sphing., p. 229.  
 FOOD PLANT. *Vaccinium corymbosum*.

**Triptogon modesta.** Harris.

1877. Life history. *R. Banker*. Canad. Entom., vol. 9, p. 210.  
 1877. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 72.  
 1880. Larva. *Cogswell*, (quotes Andrews.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.  
 1881. Larva, pupa. *D. S. Kellicott*. Bull. Buffalo Soc. N. Se., vol. 4, p. 29.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 63.  
 1886. Life history. *Fernald*, (quotes Banker.) Sphingidae, N. Engl'd, p. 72.  
 FOOD PLANTS. *Populus, Salix*.

**Cressonia juglandis.** Abb.—Sm.

1797. Larva, pupa, (figs.) *Abbot—Smith*. Lep. Ins. Georgia, p. 57, pl. 29.  
 1839. Larva, pupa. *Harris*, (quotes Abb.—Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 292.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 462.  
 1859. Larva, pupa. *Clemens*, (quotes Abb.—Sm.) Jour. Acad. N. Se. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 213.  
 1861. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 668.  
 1869. Larva. *Harris*. Entom. Corres., p. 281.  
 1871. Larva, pupa. *Boisdural*, (quotes Abbot.) Spec. Gener. Sphingidae, p. 27.  
 1876. Larva, pupa. *Strecker*, (quotes Abbot.) Rhopal. et Heteroc., p. 51.  
 1881. Larva. *Packard*, (quotes Harris.) Ins. Inj. Forest Trees, p. 81.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 63.  
 1883. Young larva. *Edwards—Elliot*. Papilio, vol. 3, p. 127.  
 1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 81.  
 FOOD PLANTS. *Juglans, Carya*.

**Ceratonia amyntor.** Hübn.

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 293. (as *C. quadriceornis*.)  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 227.  
 1852. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 217.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Se. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 265.  
 1862. Larva, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 321.  
 1862. Larva, (brief.) *Packard*. 2d Rept. Nat. Hist. and Geolog. Maine, p. 167.  
 1862. Egg, larval stages, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 1, p. 286.  
 1861. Pupa. *Lintner*. Loc. cit., vol. 3, p. 661.  
 1861. Larva. *Jacger*. Life N. Amer. Ins., p. 192.  
 1869. Egg. *Minot*. Canad. Entom., vol. 2, p. 28.  
 1869. Larva, pupa. *Harris*. Entom. Corres., p. 282.  
 1871. Larva, pupa, (col'd fig.) *Boisdural*. Spec. Gener. Sphingidae, p. 51, pl. 1.  
 1876. Larva, (brief.) *R. Banker*. Canad. Entom., vol. 8, p. 120.

1876. Larva, (brief.) *W. V. Andrews.* Canad. Entom., vol. 8, p. 40.  
 1877. Larva. *French*, (quotes Harris.) Trans. Dept. Agr. Ill., vol. 15, p. 167.  
 1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 102.  
 1881. Larva, (brief.) *Packard.* Ins. Inj. Forest Trees, p. 67.  
 1882. Larva. *E. B. Reel.* 12th Rept. Entom. Soc. Ontario, p. 61.  
 1886. Egg, larva. *Fernald.* Sphingidæ N. Engl'd, p. 25.  
 FOOD PLANT. *Ulmus americanus.*

**Daremma unduosa.** Walk.

1859. Larva, (brief.) *Clemens*, (as *C. repentinus*.)<sup>\*</sup> Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, (brief.) *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 206.  
 1870. Egg, larval stages, pupa. *Lintner.* 24th Rept. N. York State Cab. N. Hist., pp. 123-131.  
 1874. Larva, pupa. *Boisduval*, (as *Spl. brontes*.) Spec. Gener. Sphingidæ, p. 116.  
 1877. Larva. *W. V. Andrews.* Psyche, vol. 2, p. 73.  
 1880. Larva. *J. Marten*, (as *D. brontes*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 102.  
 1880. Larva. *Coquillett*, (quotes Andrews.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.  
 1882. Larva. *E. B. Reel.* 12th Rept. Entom. Soc. Ontario, p. 61.  
 1886. Life history. *Fernald.* Sphingidæ N. Engl'd, p. 28.  
 FOOD PLANT. *Fraxinus.*

**Daremma catalpæ.** Bois.

1874. Larva, pupa, (col'd figs.) *Boisduval*, (after Abbot.) Spec. Gener. Sphingidæ, p. 103, pl. 2.  
 1880. Larva. *J. Marten*, (quotes Boisduval.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 104.  
 1881. Egg, larva. *A. Koebele.* Bull. Brooklyn Entom. Soc., vol. 4, p. 20.  
 1882. Life history, (figs.) *Riley.* Rept. U. S. Dept. Agr., pp. 192-193, pl. 13  
 FOOD PLANT. *Catalpa cordifolia.*

**Diludia jasminearum.** Bois.-Lee.

1859. Pupa, (brief.) *Clemens.* Jour. Acad. N. Sc. Philad., July.  
 1862. Pupa, (brief.) *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 199.  
 1871. Larva, pupa, (col'd fig.) *Boisduval.* Spec. Gener. Sphingidæ, p. 115, pl. 1.  
 1880. Larva. *J. Marten*, (quotes Boisduval.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 103.  
 FOOD PLANT. *Fraxinus.*

**Amphonyx antæus.** Drury.

1719. Larva, pupa, (col'd figs.) *Madame Merian.* Ins. of Surinam, pl. 2.  
 1874. Larva, pupa. *Boisduval*, (quotes Mad. Merian.) Spec. Gener. Sphingidæ, p. 65.  
 1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 206.  
 1887. Pupa. *Hy. Edwards.* Entom. Amer., vol. 3, p. 161.  
 1888. Larva, (brief.) *J. B. Smith.* Monog. Sphing., p. 154  
 FOOD PLANT. Species of *Jatropha.*

**Philegethontius rustica.** Fab.

1797. Larva, pupa, (col'd figs.) *Abbot-Smith.* Lep. Ins. Georgia, p. 67, pl. 31.  
 1858. Larva, (col'd fig.) *Duncan.* Natural. Library, vol. 22, p. 102, pl. 6.  
 1859. Larva, pupa. *Clemens.* Jour. Acad. N. Sc. Philad. (quotes Abbot), July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 187.  
 1874. Larva, pupa. *Boisduval.* Spec. Gener. Sphingidæ, p. 83.  
 1878. Larva, pupa. *H. Dowitz.* Wiegemann Archiv. Naturgesch., p. 10.  
 1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 209.  
 1887. Pupa. *Hy. Edwards.* Entom. Amer. vol. 3, p. 164.  
 FOOD PLANTS. *Chionanthus, Jasminium.*

**Phlegethontius carolina.** L.

1705. Larva, pupa, (col'd figs.) *Merian*. *Matam. Ins. Surinam*, p. 57, pl. 57.  
 1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 65, pl. 53.  
 1828. Larva, (col'd fig.)  *Curtis*. *British Entom.*, vol. 5, pl. 195.  
 1828. Larva, pupa, (brief.) *Stephens*, (quotes *Abb.-Sm.*) *Illus. Brit. Entom.*, vol. 1, p. 118.  
 1837. Larva, pupa. *Westwood*, (quotes *Abb.-Sm.*) in *Drury*. *Illus. Exot. Entom.*, vol. 1, p. 47.  
 1839. Larva, pupa. *Harris*. *Silliman's Jour. Sc. Art*, vol. 56, p. 291.  
 1852. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 216.  
 1859. Larva, pupa. *Clemens*. *Jour. Acad. Sc. Philad.*, July.  
 1859. Pupa. *P. H. Gosse*. *Letters from Alabama*, p. 66.  
 1862. Larva, pupa. *Morris*, (quotes *Clemens*) *Synop. Lep. N. Amer.*, p. 183.  
 1862. Larva, pupa, (figs.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 322.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 126, (quotes *Doubleday lit.*)  
 1869. Larva. *Harris*. *Loc. cit.*, p. 282.  
 1873. Larva, pupa, (figs.) *T. Glover*. *Rept. U. S. Dept. Agr.*, p. 157.  
 1874. Larva. *Boisduval*, (after *Abbot*.) *Spec. Gener. Sphingida*, p. 70.  
 1874. Larva. *Boisduval*, (var. *lycopersici*.) *Loc. cit.*, p. 72.  
 1877. Larva. *Freuch*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 168.  
 1878. Larva, pupa. *H. Dewitz*. *Wiegmann Archiv. Naturgesch.*, p. 12.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 103.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 158.  
 1882. Larva. *J. Leidy*. *Proc. Acad. N. Sc. Philad.*, p. 237.  
 1885. Larva, pupa, (fig.) *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, pp. 164-168.  
 1886. Larva. *Fernald*. *Sphingida N. Engl'd*, p. 32.  
 1886. Larva, pupa. *Gundlach*. *Entom. Cubana*, p. 210.  
 FOOD PLANTS. Various species of *Solanum*, *Datura*, etc.

**Phlegethontius celeus.** Hübn.

1811. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 226.  
 1852. Larva, pupa, (brief.) *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 217.  
 1859. Larva, pupa. *Clemens*. *Jour. Acad. N. Sc. Philad.*, July.  
 1859. Larva. *Jaeger*. *Life N. Amer. Ins.*, p. 189.  
 1862. Larva, pupa. *Morris*, (quotes *Clemens*.) *Synop. Lep. N. Amer.*, p. 190.  
 1862. Larva, pupa, (figs.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 320.  
 1863. Larva, pupa, (figs.) *Fitch*. 9th *Rept. Ins. N. York*, p. 778.  
 1861. Larva, pupa. *Lintner*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 618.  
 1867. Larva, pupa, (fig.) *S. Tenney*. *Manual N. History*, p. 392.  
 1869. Larva, pupa, (figs.) *Riley*. 1st *Missouri Rept.*, p. 95.  
 1870. Larva, (fig.) *T. Glover*. *Rept. U. S. Dept. Agr.*, p. 80.  
 1871. Larva, pupa, (figs.) *E. B. Reed*. *Rept. Entom. Soc. Ontario*, p. 119.  
 1873. Larva, pupa, (figs.) *A. J. Cook*. 12th *Rept. State Board Agr. Michigan*, p. 117.  
 1874. Larva. *Boisduval*, (after *Abbot*.) *Spec. Gener. Sphingida*, p. 76.  
 1874. Larva. *Gentry*. *Canad. Entom.*, vol. 6, p. 88.  
 1877. Larva. *Freuch*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 169.  
 1877. Larva, pupa, (fig.) *Packard*. *Inj. Ins. West, Hayden's Rept.*, p. 780.  
 1877. Larva, pupa, (figs.) *Packard*. *Half-hours with Insects*, p. 205.  
 1879. Larva, pupa, (figs.) *Mrs. Ballard*. *Insect Lives*, p. 95.  
 1880. Larva, pupa, (figs.) *Bethune*. *Rept. Entom. Soc. Ontario*, p. 25.  
 1880. Larva, pupa, (figs.) *Bethune*. *Canad. Entom.*, vol. 12, p. 101.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 101.  
 1882. Larva, pupa, (figs.) *E. B. Reed*. 12th *Rept. Entom. Soc. Ontario*, p. 65.  
 1885. Larva. *Lintner*. *Rept. Massachusetts Board Agr.*, p. 180.  
 1886. Larva. *Fernald*. *Sphingida N. Engl'd*, p. 34.  
 FOOD PLANTS. *Solanum*, *Nicotiana*, *Datura*, etc.

**Phlegethontius cingulata.** Fabr.

1797. Larva, pupa, (figs.) *Abbot—Smith.* Lep. Ins. Georgia, p. 63, pl. 32.  
 1837. Larva, pupa. *Westwood*, (quotes *Abb.—Sm.*) *Drury's Illus. Exot. Entom.*,  
 vol. 1, p. 50.  
 1839. Larva, pupa. *Harris*, (quotes *Abb.—Sm.*) *Silliman's Jour. Sc. Art*, vol. 36,  
 p. 294.  
 1859. Larva, pupa. *Clemens*, (quotes *Abb.—Sm.*) *Jour. Acad. N. Sc. Philad.*,  
 July.  
 1862. Larva, pupa. *Morris*, (quotes *Clemens.*) *Synop. Lep. N. Amer.*, p. 189.  
 1864. Larva, pupa. *Lintner.* *Proc. Entom. Soc. Philad.*, vol. 3, p. 650.  
 1869. Larva. *Harris*, (as *Sph. convolvuli.*) *Entom. Corres.*, p. 282.  
 1874. Larva, pupa. *Boisdural.* *Spec. Gener. Sphingida.* p. 96.  
 1880. Larva. *J. Marten.* *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 101.  
 1880. Larva. *Coquillett*, (quotes *Ab.—Sm.*) *Trans. Dept. Agr. Ill.*, vol. 18, *Ap-  
 pend.*, p. 158.  
 1886. Larva, pupa. *Fernald.* *Sphingida N. Engl'd*, p. 36.  
 1886. Larva, pupa. *Gundlach.* *Entom. Cubana*, p. 212.

FOOD PLANT. *Convolvulus batatas.*

**Sphinx drupiferarum.** *Abb.—Sm.*

1797. Larva, pupa, (col'd figs.) *Abbot—Smith.* *Lep. Ins. Georgia*, p. 74, pl. 36.  
 1839. Larva, pupa. *Harris*, (quotes *Abb.—Sm.*) *Silliman's Jour. Sc. Art*, vol.  
 36, p. 294.  
 1856. Larva. *Fitch.* 3d *Rept. Ins. N. York*, p. 362.  
 1859. Larva, pupa. *Clemens.* *Jour. Acad. N. Sc. Philad.*, July.  
 1862. Larva, pupa. *Morris*, (quotes *Clemens.*) *Synop. Lep. N. Amer.*, p. 197.  
 1864. Larva, pupa. *Lintner.* *Proc. Entom. Soc. Philad.*, vol. 3, p. 658.  
 1871. Egg, larval stages, pupa, (figs.) *E. B. Reed.* *Canad. Entom.*, vol. 3, p. 5.  
 1874. Larva, pupa, (figs.) *E. B. Reed.* *Rept. Entom. Soc. Ontario*, p. 362.  
 1874. Larva, pupa. *Boisdural*, (quotes *Abb.—Sm.*) *Spec. Gener. Sphingida.* p.  
 98.  
 1880. Larva. *J. Marten.* *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 101.  
 1882. Larva, pupa, (figs.) *E. B. Reed.* 12th *Rept. Entom. Soc. Ontario*, p. 67.  
 1883. Larva, (brief.) *Ph. Fischer.* *Canad. Entom.*, vol. 15, p. 238.  
 1883. Egg, larval stages, pupa, (figs.) *Saunders.* *Ins. Inj. Fruits.* p. 163.  
 1886. Egg, larva, pupa, (figs.) *Fernald.* *Sphingida N. Engl'd*, p. 40.

FOOD PLANTS. *Prunus, Celtis.*

**Sphinx kalmia.** *Abb.—Sm.*

1797. Larva, pupa, (col'd figs.) *Abbot—Smith.* *Lep. Ins. Georgia*, p. 73, pl. 37.  
 1839. Larva. *Harris*, (quotes *Abb.—Sm.*) *Silliman's Jour. Sc. Art*, vol. 36, p. 295.  
 1840. Egg, young larva. *P. H. Gosse.* *Canad. Naturalist*, p. 260.  
 1859. Larva, pupa. *Clemens*, (quotes *Abb.—Sm.*) *Jour. Acad. N. Sc. Philad.*,  
 July.  
 1862. Larva, pupa. *Morris*, (quotes *Clemens.*) *Synop. Lep. N. Amer.*, p. 196.  
 1864. Larva, pupa. *Lintner.* *Proc. Entom. Soc. Philad.*, vol. 3, p. 657.  
 1874. Larva, pupa. *Boisdural.* *Spec. Gener. Sphingida.* p. 92.  
 1880. Larva. *J. Marten.* *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 104.  
 1882. Larva. *E. B. Reed.* 12th *Rept. Entom. Soc. Ontario*, p. 68.  
 1886. Larva, pupa. *Fernald.* *Sphingida N. Engl'd*, p. 41.

FOOD PLANTS. *Kalmia, Chionanthus, Syringa, Fraxinus.*

**Sphinx chersis.** Hübn.

1861. Larva, pupa. *Lintner.* *Proc. Entom. Soc. Philad.*, vol. 3, p. 655.  
 1869. Larva. *Harris.* *Entom. Corres.*, p. 282.  
 1877. Larva. *Scudder.* *Psyche*, vol. 2, p. 76.  
 1880. Larva. *J. Marten.* *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 105.  
 1882. Larva. *E. B. Reed.* 12th *Rept. Entom. Soc. Ontario*, p. 65.  
 1883. Larva. *Edwards—Elliot.* *Papilio*, vol. 3, p. 127.

1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 42.

FOOD PLANT. *Syringa*.

**Sphinx gordius.** Cramer.

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 295.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 311.

1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.

1862. Larva, pupa. *Morris*. Synop. Lep. N. Amer., p. 198.

1877. Larva. *Packard*. Half-hours with Insects, p. 180.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.

1883. Larva, pupa, (brief.) *Saunders*. Ins. Inj. Fruits, p. 86.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 45.

FOOD PLANT. *Pyrus*.

**Sphinx lugens.** Walk.

1875. Larva, pupa. *F. H. Snow*. Trans. Kansas Acad. Sc., vol. 4, p. 28.

**Sphinx eremitus.** Hübn.

1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 80.

1879. Larva. *T. W. Tyler*. Canad. Entom., vol. 11, p. 59.

1882. Larva. *E. B. Rees*. 12th Rept. Entom. Soc. Ontario, p. 69.

1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 47.

FOOD PLANTS. *Mentha*, *Mouarda*, *Salvia*.

**Sphinx elsa.** Strecker.

1888. Larva. *Hy. Edwards*. Entom. Amer., vol. 4, p. 61.

**Sphinx luscitiosa.** Clem.

1888. Larval stages, pupa. *Caroline G. Soutc*. Psyche, vol. 5, p. 85.

**Dolba hylæus.** Drury.

1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 69, pl. 35.

1837. Larva, pupa. *Westwood*, (quotes *Abb.-Sm.*) *Drury*. Illus. Exot. Entom., vol. 2, p. 49.

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 296.

1859. Larva, pupa. *Clemens*, (quotes *Abb.-Sm.*) Jour. Acad. N. Sc. Philad., July.

1862. Larva, pupa. *Morris*, (quotes *Clemens*.) Synop. Lep. N. Amer., p. 204.

1871. Larva, pupa. *Boisduval*. Spec. Gener. Sphingidae, p. 99.

1882. Larva. *E. B. Rees*. 12th Rept. Entom. Soc. Ontario, p. 70.

1881. Larva. *W. H. Harrington*. Canad. Entom., vol. 16, p. 55.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 49.

FOOD PLANT. *Prinos*.

**Dilophonota ello.** L.

1719. Larva, pupa, (col'd figs.) *Madame Meriau*. Ins. Surinam.

1839. Larva. *Harris*, (quotes *Mad. Meriau*.) Silliman's Jour. Sc. Art, vol. 36, p. 297.

1859. Larva, pupa. *Clemens*, (quotes *Mad. Meriau*.) Jour. Acad. N. Sc. Philad.

1862. Larva, pupa. *Morris*, (quotes *Clemens*.) Synop. Lep. N. Amer., p. 201.

1871. Larva. *Boisduval*, (after *Meriau*.) Spec. Gener. Sphingidae, p. 120.

1886. Egg, larva. *W. J. Holland*. Canad. Entom., vol. 18, p. 103.

1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 223.

1887. Larval stages, pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 166.

FOOD PLANT. *Psidium*.

**Anceryx edwardsii.** Butler.

1887. Larval stages, pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 165.

**Hylcoicus plebeius.** Fabr.

1871. Larva, (col'd fig.) pupa. *Boisduval*, (after *Abbot's* drawing.) Spec. Gener. Sphingidae, p. 100, pl. 1.

1877. Larva. *Scudder*. Psyche, vol. 2, p. 78.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 53.

FOOD PLANTS. *Bignonia*, *Passiflora*.



**Hyloicus cupressi.** Bois.

1874. Larva, pupa, (col'd figs.) *Boisduval*, (after Abbot's drawing.) Spec. Gener. Sphingidæ, p. 102, pl. 2.

FOOD PLANT. *Cupressus thyoides*.

**Ellema coniferarum.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 83, pl. 42.

1839. Larva. *Harris*, (after Abbot.) Silliman's Jour. Sc. Art, vol. 36, p. 297.

1840. Larva, (brief.) *Westwood*. Intr. Mod. Class. Ins., vol. 2, p. 367.

1858. Larva, (brief.) *Fitch*. 4th Rept. Ins. N. York, p. 742.

1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad. (quotes Abb.—Sm.), July.

1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 199.

1874. Larva, pupa. *Boisduval*, (after Abbot.) Spec. Gener. Sphingidæ, p. 105.

1880. Larva. *J. Marten*, (quotes Fitch, Abb.—Sm.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.

1881. Egg, larva. *A. Koebel*. Bull. Brooklyn Entom. Soc., vol. 4, p. 20.

1881. Larva, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 201.

1886. Egg, larva. *Fernald*. Sphingidæ N. Engl'd, p. 85.

1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 167.

FOOD PLANT. *Pinus palustris*.

**Ellema bombycoides.** Walk.

1859. Larva, (brief.) *Clemens*. Jour. Acad. N. Sc. Philad., July.

1862. Larva, (brief.) *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 216.

1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 669.

1869. Larva, pupa, (figs.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 171.

1869. Larva. *Packard*. Guide to Study of Insects, p. 272.

1874. Larva, pupa. *Boisduval*. Spec. Gener. Sphingidæ, p. 106.

1877. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 79.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.

1881. Larva, pupa. *Packard*, (quotes Lintner.) Ins. Inj. Forest Trees, p. 202.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 70.

1885. Larva. *Fernald*. Sphingidæ N. Engl'd, p. 84.

FOOD PLANT. *Pinus* of various species.

**Ellema pineum.** Lintn.

1869. Larva. *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 170.

1874. Larva. *Boisduval*, (quotes Lintner.) Spec. Gener. Sphingidæ, p. 107.

1880. Larva. *J. Marten*, (quotes Lintner.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.

1881. Larva. *Packard*, (quotes Lintner.) Ins. Inj. Forest Trees, p. 202.

FOOD PLANT. *Pinus strobus*.

**ÆGERIADÆ.****Melittia ceto.** Westw.=*cucurbitæ*. Harr.

1828. Larva. *Harris*. N. Engl'd Farmer, vol. 7, p. 33.

1839. Larva, cocoon, pupa. *Harris*, (as *Aeg. cucurbitæ*.) Silliman's Jour. Sc. Art, vol. 36.

1842. Larva. *Harris*. N. Engl'd Farmer, vol. 20, p. 260.

1852. Pupa, cocoon, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 252.

1862. Larva, cocoon, pupa. *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 139.

1862. Larva, cocoon, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 331.

1869. Larva. *Harris*. Entom. Corres., p. 281.

1871. Larva, cocoon, (figs.) *E. B. Reed*. Rept. Entom. Soc. Ontario, p. 129.

1874. Larva. *Boisduval*, (after Abbot.) Spec. Gener. Sphingidæ, p. 470.

1877. Larva, (fig.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 769.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 173.

1880. Larva, cocoon. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.  
 1883. Egg, (brief.) *Saunders*. Ins. Inj. Fruits, p. 361.  
 1883. Larva, pupa, (figs.) *Saunders*. Loc. cit., p. 361.  
 1885. Larva, cocoon, (figs.) *Lietaer*, (quotes Harris.) 2d Rept. State Entom. N. York, p. 59.  
 1885. Larva, pupa. *Seudder*. Psyche, vol. 4, p. 303.  
 FOOD PLANTS. *Cucurbitacea* of various species.
- Alcathoe caudatum.** Harris.  
 1839. Larva, (brief.) *Harris*. Silliman's Jour. Sc. Art, vol. 36.  
 1862. Larva, (brief.) *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 139.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 424.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 172.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 108.  
 FOOD PLANTS. *Ribes*, *Clematis*, (stems.)
- Trochilium apiforme.** L.  
 1828. Larva, pupa. *Stephens*. Illus. Brit. Entom., Faun., vol. 1, p. 137.  
 1836. Larva. *J. Duncan*. Natural Library, vol. 4, Entom., p. 173.  
 1810. Larva, pupa, (col'd figs.) *Ratzeburg*. Die Forst-Insecten, vol. 2, p. 73, pl. 3, 4.  
 1848. Larva, (col'd fig.) *Humphreys*. Genera British Moths, p. 13, pl. 4.  
 1857. Larva. *Stainton*. Manual Brit. Butt. and Moths, p. 102.  
 1872. Larva, (brief.) *J. G. Wood*. Insects at Home, p. 427.  
 1872. Larva. *Figuier*. Insect World (Duncan's edit.), p. 193.  
 1871. Larva, cocoon, pupa, (figs.) *P. M. Duncan*. Transfor. of Ins., p. 95.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 77.  
 FOOD PLANTS. Trunks of *Willow* and *Poplar*.
- Fatua denudata.** Harris.  
 1852. Pupa, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 252.  
 1862. Pupa, (brief.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 330.  
 FOOD PLANT. *Fraxinus*, (stems and trunk.)
- Bembecia marginata.** Harris.  
 1874. Larva. *Riley*, (as *Aeg. rubi*.) 6th Missouri Rept., p. 113.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 175.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., p. 18, Append., p. 108.  
 1881. Larva. *Riley*. Suppl. Missouri Rept's, p. 72.  
 1883. Egg. *G. D. Hulst*. Bull. Brooklyn Entom. Soc., vol. 6, p. 8.  
 FOOD PLANT. Stems of *Rubus*.
- Sciapteron tricincta.** Harris.  
 1881. Larva, (brief.) *D. S. Kellicott*. Bull. Buffalo Soc. N. Sc., p. 62.  
 1881. Larva, pupa. *D. S. Kellicott*. Canad. Entom., vol. 13, p. 3.  
 1881. Larva. *Packard*, (quotes Kellicott.) Ins. Inj. Forest Trees, p. 121.  
 FOOD PLANT. *Populus canadensis*, (stems.)
- Sciapteron polistiformis.** Harris.  
 1854. Larva, cocoon, pupa, (brief.) *Harris*. Rept. on Ins. Inj. Vegetat. Trans. Amer. Pomological Soc., p. 10.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 387.  
 1861. Larva, cocoon, (figs.) *T. Glover*. Rept. N. York State Board Agr., p. 72.  
 1869. Larval stages, pupa. *B. D. Walsh*. 1st Illinois Rept., p. 24.  
 1871. Larva. *Riley*. 3d Missouri Rept., p. 76.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 171.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 108.  
 1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 229.  
 FOOD PLANT. *Vitis*, (stem and roots.)
- Sciapteron anthracipennis.** Boisd.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 109.  
 FOOD PLANT. *Salix*, (stems.)

**Harmonia pini.** Kellicott.1881. Larva, pupa. *D. S. Kellicott.* Canad. Entom., vol. 13, p. 6.1881. Larva, pupa. *Packard,* (quotes Kellicott.) Ins. Inj. Forest Trees, p. 189.FOOD PLANT. *Pinus*, (trunk and stem.)**Podosesia syringæ.** Harris.1839. Larva. *Harris.* Silliman's Jour. Sc. Art, vol. 36.1870. Larva. *Packard.* Inj. Ins., new or little known, p. 18.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 171.1880. Larva, pupa. *Herbert Osborn.* Trans. Iowa Hortie. Soc., vol. 15, p. 107.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 10<sup>1</sup>.1881. Larva. *Hy. Edwards.* Papilio, vol. 1, p. 181.1882. Life history, (fig.) *G. D. Hulst.* Bull. Brooklyn Entom. Soc., vol. 5, p. 17.FOOD PLANTS. *Fraxinus, Syringa*, (trunk and stem.)**Sannina exitiosa.** Say.1825. Pupa, cocoon. *Say.* Amer. Entom., vol. 2, pl. 19.1826. Larva. *Harris.* N. Engl'd Farmer, vol. 5, p. 33.1839. Larva. *Harris.* Silliman's Jour. Sc. Art, vol. 36.1843. Egg, larva. *Willis Gaylord.* Trans. N. York Agr. Soc., p. 161.1854. Larva, cocoon. *Emmons.* Nat. Hist. N. York, vol. 5, p. 223.1854. Egg, larva, pupa. *Fitch.* 1st Rept. Ins. N. York, pp. 108-116.1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 3561859. Larva, pupa. *P. H. Gosse.* Letters from Alabama, p. 146.1862. Larva. *Morris,* (quotes Harris.) Synop. Lep. N. Amer., p. 140.1862. Larva, pupa, (figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 331.1865. Larva. *B. D. Walsh.* Practical Entom., p. 67.1869. Larva. *Riley.* 1st Missouri Rept., p. 47.1871. Larva. *Saunders.* Canad. Entom., vol. 3, p. 22.1873. Larva, pupa. *A. J. Cook.* 12th Rept. Michigan Board Agr., p. 136.1876. Egg, larva. *Cyrus Thomas.* Trans. Dept. Agr. Ill., vol. 11, p. 38.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 179.1879. Egg. *J. H. Comstock.* Rept. U. S. Dept. Agr., p. 254.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.1883. Egg, larva, pupa, (fig.) *Saunders.* Ins. Inj. Fruits, p. 192.1884. Egg, larva, cocoon, (fig.) *T. J. Edge.* Rept. Agr. Pennsylv., p. 104.1885. Egg, larva. *Fernald.* Kingsley's Stand. N. Hist., vol. 2, p. 461.FOOD PLANT. *Persica*, (peach trees.)**Ægeria pictipes.** G. and R.1879. Life history, (figs.) *J. S. Bailey.* N. Amer. Entom., vol. 1, p. 17.1880. Larva, pupa, (fig.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 109.FOOD PLANT. *Prunus*, (trunk and stem.)**Ægeria pyri.** Harris.1839. Larva. *Harris.* Silliman's Jour. Sc. Art, vol. 36.1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 349.1862. Larva. *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 335.1862. Larva, (brief.) *Morris,* (quotes Harris.) Synop. Lep. N. Amer., p. 141.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 170.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.FOOD PLANT. *Pyrus*, (trunk and stem.)**Ægeria acerni.** Clem.1874. Larva, cocoon, pupa, (figs.) *Riley.* 6th Missouri Rept., pp. 107-110.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 173.1880. Larva, cocoon, (figs.) *J. Marten,* (after Riley.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 108.1881. Larva, (fig.) *Packard,* (quotes Riley.) Ins. Inj. Fruits, p. 107.1881. Life history. *Saunders.* Canad. Entom., vol. 13, p. 69.

1882. Life history, (brief.) *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 20.  
FOOD PLANT. *Jaccr*, (stems.)

*Ægeria tipuliformis*. L.

1828. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 1, p. 112.  
1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36.  
1848. Larva, (col'd fig.) *Humphreys*. Gener. Brit. Moths, p. 13, pl. 1.  
1851. Larva. *Harris*. Hovey's Magaz. Hortie, vol. 17, p. 241.  
1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 423.  
1857. Larva. *Stainton*. Manual Brit. Butt. and Moths, p. 106.  
1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 331.  
1865. Larva. *B. D. Walsh*. Practical Entom., p. 29.  
1871. Life history, (brief.) *Saunders*. Rept. Entom. Soc. Ontario, p. 381.  
1872. Larva, (brief.) *J. G. Wood*. Insects at Home, p. 427.  
1873. Larva, cocoon. *A. J. Cook*. 12th Rept. Board Agr. Michigan, p. 140.  
1879. Egg, larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 76.  
1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.  
1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 151.  
1882. Larva, (col'd fig.) *W. F. Kirby*. Europ. Butt. and Moths, p. 78, pl. 20.  
1883. Life history, (brief.) *Saunders*. Ins. Inj. Fruits, p. 336.  
1885. Life history, (figs.) *Lintner*. 2d Rept. State Entom. N. York, p. 60.  
1888. Larva, pupa, (figs.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 51.  
FOOD PLANT. *Ribes*, (stems.)

*Ægeria prosopis*. Hy. Edw.

1882. Gall. *Hy. Edwards*. Papilio, vol. 2, p. 99.  
FEEDS in stems of *Prosopis*, making a gall.

*Ægeria hemizoniæ*. Hy. Edw.

1883. Larva. *J. J. Rivers*. Papilio, vol. 3, p. 26.  
FOOD PLANT. *Rubus*, (root and stems.)

### THYRIDÆ.

*Thyris vitrina*. Boisd.

1829. Larva. *Boisduval*, (after Abbot's drawing.) Monogr. Zyganida, p. 19.  
1871. Larva. *Boisduval*, (after Abbot's drawing.) Spec. Gener. Sphingidæ, p. 490.  
FOOD PLANT. *Phaseolus*.  
NOTE—This insect appears to be unknown to American entomologists.

### ZYGÆNIDÆ.

*Alypia octomaculata*. Fabr.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 87, pl. 41.  
1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 314.  
1851. Larva, (col'd fig.) *Emmons*, (after Abb.-Sm.) Nat. Hist. N. York, vol. 5, pl. 38.  
1851. Larva. *Harris*. Rept. Ins. Inj. Vegetat. Trans. Amer. Pomological Soc., p. 10.  
1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 399.  
1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 132.  
1865. Pupa. *Packard*. Notes on Zyganidæ, Proc. Essex Inst., vol. 4, p. 24.  
1868. Larva. *W. F. Andrews*. Amer. Naturalist, vol. 2, p. 666.  
1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 136, pl. 1.  
1869. Larva. *Harris*. Entom. Corres., p. 285.  
1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 80, fig. 55.  
1872. Larva. *Lintner*, (quotes Harris.) 26th Rept. N. York State Cab. N. Hist., p. 120.  
1873. Larva, (col'd fig.) *Stretch*. Zygæn. Bombyc. N. Amer., pl. 10.  
1874. Larva, (fig.) *Riley*. 6th Missouri Rept., p. 94.

1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 651.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 176.  
 1877. Larva, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 785.  
 1878. Larva, (fig.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 276.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 110.  
 1880. Larva, (fig.) *Coquillett*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 172.  
 1881. Larva, (brief.) *W. W. Goldsmith*, (quotes Riley.) Kentucky Bureau Agr., p. 255.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 263.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 463.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.

**Psychomorpha epimenis.** Drury.

1869. Larva, (brief.) *Doubleday*, (quotes Abbot in lit.) Harris's Entom. Corres., p. 130.  
 1871. Larva, pupa, (figs.) *Riley*. 3d Missouri Rept., p. 61.  
 1872. Larva, (fig.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 121.  
 1873. Larva, (brief, col'd fig.) *Stretch*. Zygæn. Bombye. N. Amer., p. 18, pl. 10.  
 1874. Larva, pupa, (figs.) *Riley*. 6th Missouri Rept., p. 88.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 177.  
 1880. Larva, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 111.  
 1880. Larva, (fig.) *Coquillett*, (quotes Lintner.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 172.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 264.  
 FOOD PLANTS. *Bignonia radicans*, *Vitis*.

**Euscirrhopterus gloveri.** Grote.

1887. Life history. *E. A. Popcnoc*. The Industrialist, Oct. 1, (quoted in Entom. Amer.), vol. 3, p. 178.  
 1888. Larva, pupa, (figs.) *Riley*. Insect Life, vol. 1, p. 104.  
 FOOD PLANT. *Portulaca*.

**Eudryas unio.** Hübn.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York. p. 399.  
 1864. Pupa, (brief.) *J. Kirkpatrick*. Proc. Entom. Soc. Philad., p. 43.  
 1868. Larva, pupa. *J. Kirkpatrick*. Ohio Farmer, Feb. 8.  
 1870. Larva, (fig.) *Riley*. 2d Missouri Rept., p. 83, (in error for *P. epimenis*.)  
 1873. Larva, (brief.) *Stretch*. Zygæn. Bombye. N. Amer. p. 150.  
 1874. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 118.  
 1874. Larva. *Riley*, (quotes Lintner.) 6th Missouri Rept., p. 92.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 178.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 111.  
 1880. Larva. *Coquillett*, (quotes Lintner.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 173.  
 1881. Larva, (brief.) *D. S. Kellicott*. Bull. Buffalo Soc. N. Sc., vol. 4, p. 29.  
 1883. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 262.  
 FOOD PLANT. *Vitis*.

**Eudryas grata.** Fabr.

1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 310.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 329.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 399.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 427.  
 1862. Larva. *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 246.  
 1864. Larva, pupa, (figs.) *Packard*. Notes on Zygæn. Proc. Essex Inst., vol. 4, p. 27.  
 1869. Larva. *Harris*. Entom. Corres., p. 306.

1869. Larva. *Packard*. Guide to Study of Insects, p. 281.  
 1870. Larva, pupa, (figs.) *Riley*. 2d Missouri Rept., p. 83.  
 1871. Egg, larva, (figs.) *Lintner*. 26th Rept. State Cab. N. Hist., p. 123.  
 1874. Egg, larva, pupa, (figs.) *Riley*. 6th Missouri Rept., p. 89.  
 1875. Life history, (figs.) *Saunders*. Canad. Entom., vol. 7, p. 41.  
 1875. Egg, larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 38.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 178.  
 1880. Egg, larva, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 111.  
 1880. Egg, larva, (figs.) *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 173.  
 1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 259.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 162.  
 1888. Egg, larva, (figs.) *Fletcher*. Rept. Entom. Dept. Agr. Canad., p. 30.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.
- Cosmosoma omphale.** Hübn.  
 1886. Larva, cocoon. *Gundlach*. Entom. Cubana, p. 239.  
 1886. Pupa, cocoon. *J. B. Smith*. Entom. Amer., vol. 1, p. 186.  
 FOOD PLANT. *Mikania*.
- Scepsis edwardsii.** Grote.  
 1887. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 167.
- Scepsis fulvicollis.** Hübn.  
 1880. Larva. *Coquillett*. Canad. Entom., vol. 12, p. 44.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 171.  
 FOOD PLANTS. *Grasses*.
- Ctenucha virginica.** Charp.  
 1862. Larva, cocoon, (brief.) *Packard*. 7th Rept. Maine Board Agr., p. 168.  
 1864. Egg, larva, cocoon, pupa, (figs.) *Packard*. Notes on Zygaen. Proc. Essex Inst., vol. 4, p. 36.  
 1872. Larva, cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 155.  
 1873. Larva, cocoon. *Stretch*, (quotes Packard.) Zygaen. Bombyc. N. Amer., p. 26.  
 1877. Larva, pupa, (col'd figs.) *Packard*. Half-hours with Insects, (frontisp.)  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 170.  
 FOOD PLANTS. *Grasses*.
- Ctenucha multifaria.** Walk.  
 1874. Egg, young larva, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., p. 344.
- Acoloithus falsarius.** Clem.  
 1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 81.  
 1880. Larva, (brief.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 112.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.
- Harrisina americana.** Harris.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 315.  
 1841. Life history, (figs.) *Harris*. Hovey's Magazine, June vol. 10, p. 201.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 257.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 398.  
 1862. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 337.  
 1862. Larva, (brief.) *Packard*. Rept. Maine Board Agr., p. 168.  
 1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 85.  
 1873. Larva, (col'd fig.) *Stretch*. Zygaen. Bombyc. N. Amer., pl. 10.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 179.  
 1880. Larva, cocoon. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 112.  
 1881. Larva, pupa, (brief.) *W. W. Goldsmith*, (quotes Riley.) Kentucky Bureau Agr., p. 255.

1883. Egg, larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 265.  
 1885. Larva, (fig.) *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 462.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.

**Lycomorpha pholus.** Drury.

1839. Larva. *Harris*. *Silliman's Jour. Sc. Art*, vol. 36, p. 318.  
 1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 135.  
 1862. Larva, (brief.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 341.  
 1873. Larva. *Stretch*, (quotes *Harris*.) *Zygen. Bombyc. N. Amer.*, p. 42.  
 1885. Larva. *Fernald*, (quotes *Harris*.) *Kingsley's Stand. N. Hist.*, vol. 2, p. 462.  
 FOOD PLANTS. *Lichens*.

**Oeta aurea.** Fitch.

1869. Larva, pupa, (figs.) *Riley*. *1st Missouri Rept.*, p. 151.  
 1873. Larva. *Stretch*, (quotes *Riley*.) *Zygen. Bombyc. N. Amer.*, p. 241.  
 1881. Egg. *Riley*. *Papilio*, vol. 1, p. 110.  
 FOOD PLANT. *Ailanthus*.

**BOMBYCES.**Sub-fam. **Nycteloidæ.****Sarrothripa reveyana.** S. V.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 190.  
 1859. Larva, cocoon, pupa, (col'd figs.) *Humphreys*. *Genera Brit. Moths*, p. 49.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 294.  
 FOOD PLANT. *Salix*.

Sub-fam. **Lithosiidæ.****Nola ovilla.** Grote.

1881. Larva, cocoon. *Packard*. *Amer. Naturalist*, vol. 18, p. 726.  
 FOOD PLANT. *Quercus*.

**Nola sorghiella.** Riley.

1882. Larva, pupa, (figs.) *Riley*. *Rept. U. S. Dept. Agr.*, p. 187, pl. 11.

**Hypoprepia fucosa.** Hübn., (incl. vars.)

1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 241.  
 1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 262.  
 1862. Larva, cocoon. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 312.  
 1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 256.  
 1871. Larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 36.  
 1873. Larva, cocoon. *Stretch*, (quotes *Harris*.) *Zygen. Bombyc. N. Amer.*, p. 47.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 184.  
 1880. Larva. *Coquillett*. *Canad. Entom.*, vol. 12, p. 45.  
 FOOD PLANT. *Lichens*.

**Cisthene subjecta.** Walk.

1881. Larva, pupa. *Mary E. Murtfeldt*, (as *C. packardi*.) *Psyche*, vol. 3, p. 213.  
 FOOD PLANT. *Lichens*.

**Byssophaga nexa.** Boisd.

1878. Egg, larva, pupa. *H. J. Edwards*. *Proc. Cal. Acad. Sc.*, June.  
 FOOD PLANT. *Lichens*.

**Eustixis pupula.** Hübn.

1870. Larva, pupa, (fig.) *Packard*, (after *Abbot's drawing*.) *Amer. Naturalist*, vol. 4, p. 229.  
 FOOD PLANT. *Sideronytum tenax*.

**Euphanessa mendica.** Walk.

1871. Egg, larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 227.  
 1873. Egg, larva. *Stretch*, (quotes *Saunders*.) *Zygen. Bombyc. N. Amer.*, p. 53.  
 1886. Larva, pupa. *G. D. Hulst*. *Entom. Amer.*, vol. 1, p. 167.

## Sub-fam. Diophtidæ.

**Phryganidea californica.** Packard.

1873. Larva, pupa, (col'd figs.) *Stretch*. Zygæn. Bombyc. N. Amer., p. 91, pl. 10.  
 1874. Egg, larval stages. *Hy. Edwards*. Proc. Cal. Acad. Sc., Sept.  
 1877. Egg, larva. *Packard*, (quotes Hy. Edwards.) Inj. Ins. West, Hayden's Rept., p. 808.  
 1881. Egg, larva, pupa. *Packard*, (quotes Stretch and Hy. Edw.) Ins. Inj. Forest Trees, p. 43.  
 FOOD PLANT. *Quercus*.

## Sub-fam. Arctiïdæ.

**Crocota quinarìa.** Grote.

1869. Larva. *Saunders*, (as *Aret. bimaiculata*.) Canad. Entom., vol. 2, p. 4.  
 FOOD PLANTS. *Taraxacum*, *Chenopodium*, etc.

**Utetheisa bella.** L.

1870. Larva, pupa, (figs.) *T. Glover*. Rept. Dept. Agr., p. 80.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 113.  
 1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 128.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 258.  
 FOOD PLANTS. *Myrica*, *Lespedeza*, *Prunus*, *Crotalaria*, etc.

**Callimorphā interrupto-marginatā.** De Beauv.

1878. Larva, (brief.) *C. G. Siewers*. Canad. Entom., vol. 10, p. 84.

**Callimorpha confusa.** Lyman.

1887. Life history. *H. H. Lyman*. Canad. Entom., vol. 19, p. 186.  
 FOOD PLANT. *Cynoglossum officinale*.

**Callimorpha clymene.** Esp.

1871. Larva, (brief.) *Riley*. 3d Missouri Rept., p. 134.  
 FOOD PLANT. *Quercus*.

**Callimorpha leccntei.** Boisd.

1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 20.  
 1871. Larva, pupa, (figs.) *Le Baron*. 2d Illinois Rept., p. 47.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 112.  
 1873. Larva. *Stretch*, (quotes Saunders.) Zygæn. Bombyc. N. Amer., p. 61.  
 1877. Larva. *French*, (quotes Saunders.) Trans. Dept. Agr. Ill., vol. 15, p. 181.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.  
 1883. Larva, pupa, (fig.) *Saunders*. Ins. Inj. Fruits, p. 198.  
 FOOD PLANT. *Triosteum perfoliatum*.

**Callimorpha fulvicosta.** Clem.

1871. Larva, pupa, (figs.) *Riley*. 3d Missouri Rept., p. 132.  
 1873. Larva, pupa. *Stretch*, (quotes Riley.) Zygæn. Bombyc. N. Amer., p. 61.  
 1877. Larva, (fig.) *French*, (after Riley.) Trans. Dept. Agr. Ill., vol. 15, p. 180.  
 1880. Larva, (fig.) *J. Marten*, (after Riley.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 113.  
 FOOD PLANTS. *Pyrus*, *Prunus*.

**Epicallia virginalis.** Boisd.

1873. Larva, (brief.) *Packard*. Hayden's Survey Territ., p. 559.  
 1873. Larva, pupa, (col'd figs.) *Stretch*. Zygæn. Bombyc. N. Amer., p. 71, pl. 10.  
 FOOD PLANT. *Lupinus* of various species.

**Platarctia parthenos.** Harris.

1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 5.  
 1870. Egg, larval stages, cocoon. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 132.  
 1871. Larva. *Saunders*. Canad. Entom., vol. 3, p. 225.  
 FOOD PLANTS. *Lactuca*, etc.

**Euprepia americana.** Harris.

1863. Larva. *Fitch*. 9th Rept. Ins. N. York, p. 801.  
 1863. Larva. *Saunders*. Canad. Journ., new series, vol. 8, p. 352.



1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 28.  
 1866. Larva. *Packard*. Proc. Boston Soc. N. Hist., vol. 11, p. 34.  
 1869. Larva. *Harris*. Entom. Corres., p. 287.  
 1870. Egg, larval stages, *Lintner*. 21th Rept. N. York State Cab. N. Hist., p. 134.  
 1873. Larva. *Stretch*. Zygæn. Bombyc. N. Amer., p. 96.  
 1875. Life history. *R. Banker*. Canad. Entom., vol. 7, p. 149.  
 1876. Larva, (brief.) *H. H. Lyman*. Canad. Entom., vol. 8, p. 20.  
 FOOD PLANTS. *Lactuca*, etc.

**Arctia virgo.** L.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 123, pl. 62.  
 1840. Larva, cocoon, (brief.) *P. H. Gosse*. Canad. Naturalist, p. 222.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 244.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 265.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 229.  
 1858. Larva, pupa, (col'd figs.) *Duncan*. Natural. Library, vol. 22, p. 176.  
 1862. Larva, (brief.) *Morris*, (quotes Duncan.) Synop. Lep. N. Amer., p. 338.  
 1863. Larva, (brief.) *Saunders*. Canad. Journ., new series, vol. 8, p. 351.  
 1864. Larva. *Jacger*. Life N. Amer. Ins., p. 167.  
 1873. Larva. *Stretch*. Zygæn. Bombyc. N. Amer., p. 127.  
 FOOD PLANTS. *Chenopodiaceæ*, etc.

**Arctia saundersii.** Grote.

1863. Larva. *Saunders*, (as *A. parthenice*.) Proc. Entom. Soc. Philad., vol. 2, p. 28.  
 1863. Larva. *Saunders*, (as *A. parthenice*.) Canad. Journ., new series, vol. 8, p. 353.  
 1864. Larva. *Grote*, (quotes Saunders.) Proc. Entom. Soc. Philad., vol. 3, p. 75.  
 1873. Larva, pupa. *Saunders*. Rept. Entom. Soc. Ontario, p. 23.  
 FOOD PLANTS. *Chenopodiaceæ*, etc.

**Arctia achaia.** G. and R.

1873. Larva, pupa. *Stretch*. Zygæn. Bombyc. N. Amer., p. 125.  
 FOOD PLANTS. *Trifolium*, *Erodium*, etc.

**Arctia figurata.** Drury.

1878. Larva. *E. L. Graef*. Bull. Brooklyn Entom. Soc., vol. 1, p. 3.

**Arctia quenselii.** Geyer.

1873. Larva, (fig.) *Packard*. Hayden's Surv. Territ., p. 558.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 105.  
 FOOD PLANTS. *Lonicera*, *Taraxacum*.

**Arctia phyllira.** Drury.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 127, pl. 61.

**Arctia nais.** Drury.

1877. Larva. *French*, (as *A. phalerata*.) Trans. Dept. Agr. Ill., vol. 15, p. 182.  
 1880. Larva. *J. Marten*, (as *A. phalerata*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.  
 1880. Larva. *Coquillett*, (as *A. phalerata*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 171.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 460.  
 FOOD PLANTS. *C. ranineæ*, etc.

**Arctia celia.** Saunders.

1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 74.

**Arctia virguncula.** Kirby.

1881. Larva. *Coquillett*. Papilio, vol. 1, p. 7.  
 FOOD PLANT. *Polygonum*.

**Arctia decorata.** Saunders.

1881. Larva. *French*. Papilio, vol. 1, p. 81.

**Arctia placentia.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 129, pl. 65.

**Arctia arge.** Drury.

1796. Larva. (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 125, pl. 63.  
 1837. Larva. *Westwood*, (quotes *Abb.-Sm.*) in Drury. Illus. Exot. Entom., vol. 1, p. 34.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 241.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 265.  
 1854. Larva, pupa, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, pl. 41.  
 1858. Larva, (col'd fig.) *Duncan*. Natural. Library, vol. 22, p. 175.  
 1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 346.  
 1862. Larva. *Morris*, (quotes *Duncan*.) Synop. Lep. N. Amer., p. 340.  
 1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 355, (as *A. dione*.)  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 168.  
 1869. Larva. *Harris*. Entom. Corres., p. 286.  
 1872. Larva. *Lintner*. 26th Rept. N. Y. State Cab. N. Hist., p. 143.  
 1873. Larva. *Stretch*, (quotes *Harris*.) Zygen. Bombyc. N. Amer., p. 225.  
 1874. Larva. *Peabody*. Canad. Entom., vol. 6, p. 98.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 182.  
 1877. Egg, larva. *W. F. Andrews*. Psyche, vol. 2, p. 79.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.  
 1880. Larva. *Copillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 170.  
 FOOD PLANT. *Enothera biennis*.

**Arctia brucei.** Hy. Edwards.

1888. Larva. *D. Bruce*. Entom. Amer., vol. 3, p. 249.  
 FOOD PLANTS. *Polygonum*, *Plantago*.

**Arctia remissa.** Hy. Edwards.

1888. Egg, young larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 184.

NOTE. The food plants of the species of *Arctia* are not always given, as the caterpillars are almost omnivorous, feeding upon any kind of herbaceous plants.

**Kodiosoma nigra.** Stretch.

1873. Larva, (brief.) *Stretch*. Zygen. Bombyc. N. Amer., p. 68.

**Seirarctia echo.** *Abb.-Sm.*

1797. Larva, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 135, pl. 68.

**Seirarctia clio.** Packard.

1882. Larva, cocoon. *Behr*. Papilio, vol. 2, p. 187.  
 FOOD PLANT. *Apocynum*.

**Pyrrharctia isabella.** *Abb.-Sm.*

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 66.  
 1810. Larva. *P. H. Gosse*. Canad. Naturalist, pp. 78, 308.  
 1811. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 253.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 273.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 220.  
 1862. Larva, cocoon, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 355.  
 1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 361.  
 1867. Larva. *S. Tenney*. Manual N. Hist., p. 397.  
 1872. Larva, pupa, (fig.) *Riley*. 4th Missouri Rept., p. 113.  
 1873. Larva, cocoon, (figs.) *Saunders*. Canad. Entom., vol. 5, p. 76.  
 1873. Larva, cocoon, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 22.  
 1874. Larva, cocoon. *Hy. Edwards*. Proc. Cal. Acad. Sc., September.  
 1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 664.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 182.  
 1877. Larva, cocoon, pupa, (fig.) *B. Gott*. Rept. Entom. Soc. Ontario, p. 46.  
 1878. Larva. *B. P. Mann*, (quotes *Harris*.) Psyche, vol. 2, p. 270.  
 1880. Larva, cocoon, pupa, (figs.) *Riley*. Amer. Entom., 2d series, vol. 1, p. 133.  
 1880. Larva, cocoon, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.

1880. Larva, cocoon, pupa, (figs.) *Coquillett*. Loc. cit., 169.

FOOD PLANTS. Various low herbs.

**Phragmatobia rubricosa.** Harris.

1810. Larva, (brief.) *P. H. Gosse*. Canad. Naturalist, p. 195, (as *P. fuliginosa*.)

1883. Larva, cocoon, pupa. *Edwards—Elliot*. Papilio, vol. 3, p. 127.

1887. Young larva. *Hg. Edwards*. Entom. Amer., vol. 3, p. 68.

FOOD PLANTS. *Solidago*, *Eupatorium*, *Symplocarpus*.

**Antarctia vagans.** Boisdu.

1874. Larva, pupa. *Hg. Edwards*. Proc. Cal. Acad. Sc., February.

FOOD PLANT. *Pteris*.

**Antarctia punctata.** Packard.

1873. Larva, cocoon. *Stretch*. Zygæn. Bombyc. N. Amer., p. 194.

FOOD PLANT. *Lupinus*.

**Leucarctia acraea.** Drury.

1797. Larva (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 67.

1823. Larva, pupa, (figs.) *Harris*. Massachusetts's Agr. Reposit., p. 322.

1811. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., 1st edit., p. 249.

1852. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 269.

1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 226.

1858. Larva, pupa, (fig.) *Duncan*. Natural Library, vol. 22, p. 172, pl. 20.

1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 351.

1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 342.

1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 363.

1867. Larva, pupa, (figs.) *S. T.aney*. Manual N. Hist., p. 398, pl. 294.

1874. Young larva. *Hg. Edwards*. Proc. Cal. Acad. Sc., September.

1873. Larva, (col'd figs.) *Stretch*. Zygæn. Bombyc., p. 101, pl. 10.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 79.

1877. Larva. *French*. Loc. cit., p. 183.

1879. Larva, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 57.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.

1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 170.

FOOD PLANTS. Various low herbs.

**Spilosoma virginica.** Fabr.

1811. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 248.

1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 268.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York., p. 409.

1862. Larva, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 349.

1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 344.

1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 362.

1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 168.

1869. Larva, cocoon, pupa. *Harris*. Entom. Corres., p. 287.

1871. Larva, pupa, (figs.) *Riley*. 3d Missouri Rept., p. 68.

1871. Larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 358.

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 143.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 89.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 183.

1878. Larva, pupa, (figs.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 273.

1879. Larva, cocoon, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 51.

1880. Larva, pupa. *Saunders*. Canad. Entom., vol. 12, p. 56.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 116.

1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 169.

1880. Life history, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 21.

1881. Larva, pupa, (figs.) *Packard*, (after *Riley*.) Ins. Inj. Forest Trees, p. 88.

1883. Life history, (figs.) *Saunders*. Ins. Inj. Fruits, p. 273.

1887. Egg, larva. *D. Bruce*, (melanic var.) Entom. Amer., vol. 3, p. 140.

FOOD PLANTS. Various.

**Spilosoma congrua.** Walker.1886. Larva. *G. D. Hulst.* Entom. Amer., vol. 2, p. 15.**Spilosoma vestalis.** Packard.1875. Egg, larval stages. *H. J. Edwards.* Proc. Cal. Acad. Sc., April.FOOD PLANT. *Lupinus.***Spilosoma latipennis.** Stretch.1885. Young larva. *G. D. Hulst.* Bull. Brooklyn Entom. Soc., vol. 7, p. 120.**Hyphantria cunea.** Drury. (includ. vars.)1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 139, pl. 70.1828. Larva. *Harris.* N. Engl'd Farmer, vol. 7, p. 33.1811. Larva, pupa. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 255.1852. Larva. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 271.1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 382.1862. Larva, cocoon, pupa, (figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 358.1862. Larva. *Morris.* (quotes Harris.) Synop. Lep. N. Amer., p. 344.1863. Larva. *Saunders.* Canad. Jour., new series, vol. 8, p. 365.1869. Larva. *Harris.* Entom. Corres., p. 360.1870. Larva. *Saunders.* Canad. Entom., vol. 3, p. 36.1871. Larva, pupa, (figs.) *Riley.* 3d Missouri Rept., p. 130.1871. Larva, pupa, (figs.) *Bethune.* Rept. Entom. Soc. Ontario, p. 355.1871. Larva, nest. *Le Baron.* 2d Illinois Rept., p. 18.1873. Larva. *Saunders.* Canad. Entom., vol. 5, p. 141.1873. Larva. *Stretch.* (quotes Saunders—Riley.) Zygæn. Bombyc. N. Amer., p. 206.1873. Larva, pupa, (figs.) *Saunders.* Rept. Entom. Soc. Ontario, p. 13.1875. Larva, pupa, (figs.) *A. J. Cook.* 12th Rept. Michigan Board Agr., p. 152.1876. Larva. *G. H. Perkins.* 2d Rept. Vermont Board Agr., p. 589.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 185.1877. Larva, pupa, (figs.) *Packard.* Inj. Ins. West. Hayden's Rept., p. 794.1879. Larva, pupa, (figs.) *H. Cutting.* Rept. N. Hampshire Board Agr., p. 22.1880. Larva, pupa, (figs.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 116.1880. Larva, pupa, (figs.) *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 151.1881. Larva, pupa, (figs.) *Packard.* (quotes Riley.) Ins. Inj. Forest Trees, p. 67.1883. Larva, (brief.) *N. Coleman.* Papilio, vol. 3, p. 26.1883. Larva, cocoon, pupa, (figs.) *Saunders.* Ins. Inj. Fruits, p. 71.1887. Life history, (figs.) *Riley.* Bull. 10, Div. Entom., U. S. Dept. Agr., pp. 36-58.1887. Life history, (figs.) *Riley.* Rept. U. S. Dept. Agr., 1886, pp. 518-539, pl. 10, 11.1888. Larva, pupa, (fig.) *Bethune.* 18th Rept. Entom. Soc. Ontario, p. 58.

FOOD PLANTS. Various trees and shrubs.

**Euchætetes egle.** Drury.1811. Larva, pupa. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 256.1852. Larva, cocoon, pupa. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 276.1862. Larva, cocoon, pupa, (figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 354.1862. Larva, (brief.) *Morris.* Synop. Lep. N. Amer., p. 343.1863. Larva, pupa, (brief.) *Saunders.* Canad. Jour., new series, vol. 8, p. 366.1869. Larva, (figs.) *Harris.* Entom. Corres., p. 288.1870. Larva. *Lintner.* 24th Rept. N. York State Cab. N. Hist., p. 136.1873. Larva. *Stretch.* (quotes Harris.) Zygæn. Bombyc. N. Amer., p. 186.1878. Larva. *W. F. Andrews.* Psyche, vol. 2, p. 271.1880. Life history, (brief.) *H. S. Jewett.* Canad. Entom., vol. 12, p. 230.

1883. Larva. *Hy. Edwards*. *Papilio*, vol. 3, p. 147.

1884. Egg, larval stages. *French*. *Canad. Entom.*, vol. 16, p. 221.

FOOD PLANTS. Various species of *Asclepias*.

**Euchætetes eglenensis.** Clemens.

1883. Larva. *Hy Edwards*. *Papilio*, vol. 3, p. 117.

FOOD PLANT. *Asclepias tuberosum*.

**Euchætetes collaris.** Fitch.

1877. Larva. *G. H. Fau Waggen*. *Canad. Entom.*, vol. 9, p. 170.

1878. Larva, pupa. *W. H. Patten*. *Psyche*, vol. 2, p. 251.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 169.

1880. Life history. *H. S. Jewett*. *Canad. Entom.*, vol. 12, p. 228.

1883. Larval stages. *Hy. Edwards*. *Papilio*, vol. 3, p. 146.

FOOD PLANTS. *Apocynum*, *Asclepias*.

**Arachnis aulea.** Boisd.

1883. Larva, pupa. *W. Schaus, jr.* *Papilio*, vol. 3, p. 188.

FOOD PLANTS. Various low herbs.

**Arachnis picta.** Packard.

1873. Larva, pupa. *Stretch*. *Zygan. Bombyc. N. Amer.*, p. 84, pl. 10.

FOOD PLANT. *Lupinus*.

**Ecpantheria scribtonia.** Stoll.

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 137, pl. 69.

1841. Larva. *Harris*, (quotes *Abb.-Sm.*) *Ins. Inj. Vegetat.*, 1st edit., p. 247.

1858. Larva. *Duncan*. *Natural. Library*, vol. 22, p. 169.

1862. Larva. *Morris*, (quotes *Duncan*.) *Synop. Lep. N. Amer.*, p. 317.

1863. Larva. *Saunders*. *Proc. Entom. Soc. Philad.*, vol. 2, p. 28.

1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 370.

1872. Larva, pupa, (fig.) *Riley*. 4th *Missouri Rept.*, p. 141.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 181.

1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 116.

1882. Larva, (fig.) *Saunders*. *Canad. Entom.*, vol. 14, p. 113.

1882. Larva, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 15.

FOOD PLANTS. *Helianthus*, *Plantago*, *Salix*.

**Ecpantheria reducta.** Gr.

1887. Larva. *D. Bruce*. *Entom. Amer.*, vol. 3, p. 14.

FOOD PLANTS. *Taraxacum*, *Stellaria*, etc.

**Halisidota tessellata.** *Abb.-Sm.* (incl. vars.)

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 149, pl. 75.

1840. Larva, cocoon. *P. H. Gosse*. *Canad. Naturalist*, p. 293.

1841. Larva, pupa. *Harris*, (quotes *Abb.-Sm.*) *Ins. Inj. Vegetat.*, 1st edit., p. 259.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 280.

1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 349.

1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 364.

1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 367.

1863. Larva. *B. D. Walsh*. *Proc. Boston Soc. N. Hist.*, vol. 9, p. 289.

1864. Larva. *B. D. Walsh*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 413.

1864. Larva. *B. D. Walsh*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 430.

1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 116.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 168.

1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 460.

FOOD PLANT. *Acer*.

**Halisidota caryæ.** Harris.

1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 258.

1852. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 279.

1854. Larva, pupa, (figs.) *Fitch*. 1st *Rept. Ins. N. York*, p. 160.

1856. Larva. *Fitch*. 3d *Rept. Ins. N. York*, p. 458.

1862. Larva, cocoon, (col'd figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 361, pl. 6.  
 1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 318.  
 1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 368.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 289.  
 1872. Cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 118.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 168.  
 1881. Larva. *Packard*, (quotes *Fitch*.) *Ins. Inj. Forest Trees*, p. 76.  
 FOOD PLANTS. *Carya*, *Juglans*, etc.

***Halisidota maculata*.** *Harris*, (incl. vars.)

1811. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 259.  
 1852. Larva, (brief.) *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 279.  
 1862. Larva, (brief.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 363.  
 1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 369.  
 1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 290, pl. 9.  
 1869. Larva. *Packard*. *Guide to Study of Ins.*, p. 287.  
 1871. Larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 186.  
 1873. Larva, cocoon, (col'd figs.) *Stretch*. *Zygen. Bombyc. N. Amer.*, p. 103, pl. 10.  
 1876. Larva, cocoon. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, November.  
 1881. Larva. *Packard*, (quotes *Saunders*.) *Ins. Inj. Forest Trees*, p. 46.  
 FOOD PLANTS. *Salix*, *Populus*, etc.

***Halisidota argentata*.** *Packard*.

1874. Larva, cocoon, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, September.  
 FOOD PLANTS. *Pinus*, *Abies*.

***Halisidota sobrina*.** *Stretch*.

1874. Larva, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, September.  
 1887. Larva, (brief.) *J. Fletcher*. *Rept. Entom. Dept. Agr. Canad.*, p. 31.  
 FOOD PLANT. *Pinus*.

***Halisidota edwardsii*.** *Packard*.

1873. Larva, (col'd fig.) *Stretch*. *Zygen. Bombyc. N. Amer.*, p. 88, pl. 10.  
 1875. Egg, young larva. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, April.  
 FOOD PLANT. *Quercus*.

***Halisidota cinctipes*.** *Grote*.

1886. Larva. *Gundlach*. *Entom. Cubana*, p. 269.  
 FOOD PLANT. *Hibiscus*.

Sub-fam. **Pericopidæ.**

***Gnophæla hopfferi*.** *G. and R.*

1882. Larva, (brief.) *Stretch*, (quotes *Lord Walsingham* in lit.) *Papilio*, vol. 2, p. 82.  
 FOOD PLANT. *Myosotis*.

***Gnophæla verniculata*.** *Gr. Rob.*

1888. Larva. *D. Bruce*. *Entom. Americana*, vol. 4, p. 21.  
 1889. Larva. *T. D. Cockerell*. *Entom. Amer.*, vol. 5, p. 57.  
 FOOD PLANT. *Mertensia virginica*.

***Melanchroia geometroides*.** *Walker*.

1886. Larva, pupa. *Gundlach*. *Entom. Cubana*, p. 110.  
 FOOD PLANT. *Cicca racemosa*.

Sub-fam. **Liparidæ.**

***Orgyia nova*.** *Fitch*.

1829. Egg, (fig.) *W. T. Brev.* *Mag. Nat. Hist.*, vol. 2, p. 460, (as *O. antiqua*.)  
 1841. Larva, pupa. *Harris*, (as *O. antiqua*.) *Ins. Inj. Vegetat.*, 1st edit., p. 262.  
 1852. Larva, cocoon. *Harris*, (as *O. antiqua*.) *Ins. Inj. Vegetat.*, 2d edit., p. 281.  
 1862. Life history. *Fitch*. 8th Rept. *Ins. N. York*, p. 675.

1862. Larva, cocoon. *Harris*, (as *O. antiqua*.) *Ins. Inj. Vegetat.*, Flint's edit., p. 369.
1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 250.
1873. Egg, larva. *Hy. Edwards*, (as *O. badia*.) *Proc. Cal. Acad. Sc.*, November.
1880. Egg. *W. S. B.* *Amer. Entom.*, vol. 1, 2d series, p. 77.
1880. Cocoon. *W. S. B.* *Loc. cit.*, p. 132.
1885. Larva, (brief.) *Hy. Edwards*. *Papilio*, vol. 3, p. 189.
1883. Egg, larva. *Stretch*. *Loc. cit.*, p. 38.
1887. Egg, larval stages. *Hy. Edwards*. *Entom. Amer.*, vol. 3, p. 146.
- FOOD PLANTS. *Rosaceæ*, etc.
- Orgyia vetusta.** *Boisd.*
1881. Larva. *Hy. Edwards*. *Papilio*, vol. 1, p. 69.
- FOOD PLANT. *Lupinus*.
- Orgyia gutosa.** *Hy. Edwards*.
1881. Larva. *Hy. Edwards*. *Papilio*, vol. 1, p. 61.
- FOOD PLANT. *Quercus*.
- Orgyia leucestigma.** *Abb.—Sm.*
1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 157, pl. 79.
1833. Egg. *B. H. Ives*. *Hovey's Gardener's Mag.*, vol. 1, p. 52.
1841. Larva, pupa. *Harris*, (quotes *Abb.—Sm.*) *Ins. Inj. Vegetat.*, 1st edit., p. 262.
1852. Egg, larva, cocoon. *Harris*, (quotes *Ives* in part.) *Ins. Inj. Vegetat.*, 2d edit., p. 284.
1851. Larva, (col'd fig.) *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 230, pl. 37.
1856. Larva, cocoon, pupa. *Fitch*. 2d Rept. *Ins. N. York*, p. 210.
1862. Life history, (col'd figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 366, pl. 7.
1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 249.
1864. Larva, (fig.) *Jarger*. *Life N. Amer. Ins.*, p. 169.
1869. Life history, (figs.) *Riley*. 1st *Missouri Rept.*, p. 114.
1871. Life history, (figs.) *Le Baron*, (after *Riley*.) 2d *Illinois Rept.*, p. 13.
1871. Egg, larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 15.
1871. Larva, cocoon, pupa, (figs.) *Bethune*. *Rept. Entom. Soc. Ontario*, p. 354.
1874. Egg, larva, pupa, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 19.
1877. Larva, (fig.) *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 185.
1880. Larva. *French*, (as *O. leucographa*.) 6th *Rept. S. Ill. Norm. Univ.*, p. 44.
1880. Larva, (fig.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 117.
1880. Larva, (fig.) *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 166.
1881. Larva, cocoon, pupa, (figs.) *Packard*, (after *Riley*.) *Ins. Inj. Forest Trees*, p. 239.
1883. Life history, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 58.
1885. Life history, (figs.) *Lintner*. 2d *Rept. State Entom. N. York*, p. 70.
1887. Life history, (figs.) *Riley*. *Bull. 10, Div. Entom. U. S. Dept. Agr.*, pp. 23–28.
1888. Larva, (fig.) *Lintner*. 4th *Rept. N. Y. State Entom.*, p. 48.
- FOOD PLANTS. *Acer*, *Pyrus*, *Quercus*, etc.
- Orgyia definita.** *Packard*.
1888. Larva, notes on. *Lintner*. 4th *Rept. N. Y. State Entom.*, p. 50.
- Parorgyia leucophæa.** *Abb.—Sm.*
1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 155, pl. 78.
1841. Larva. *Harris*, (quotes *Abb.—Sm.*) *Ins. Inj. Vegetat.*, 1st edit., p. 264.
- FOOD PLANT. *Quercus*.
- Parorgyia clintonii.** *S. and R.*
1880. Larva. *Coquillett*. *Canad. Entom.*, vol. 12, p. 45.
1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 165.
- FOOD PLANT. *Quercus*.

**Parorgyia achatina.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 153, pl. 77.  
 FOOD PLANT. *Quercus.*

**Parorgyia parallela.** G. and R.

1872. Larva. *Lintner.* 26th Rept. N. York State Cab. N. Hist., p. 129.  
 1880. Larva. *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 166.  
 1881. Larva. *Packard,* (quotes *Lintner.*) Ins. Inj. Forest Trees, p. 204.  
 1883. Larva. *Saunders.* Ins. Inj. Fruits, p. 179.  
 1887. Life history. *O. Sciffert.* Entom. Amer., vol. 3, p. 93.  
 FOOD PLANTS. *Pyrus, Prunus, Esculus, etc.*

**Lagoa crispata.** Packard.

1861. Larva, cocoon, pupa. *Packard.* Proc. Entom. Soc. Philad., vol. 3, p. 335.  
 1866. Larva, (brief.) *B. D. Walsh.* Practical Entom., vol. 1, p. 126.  
 1869. Larva, (fig.) *Packard.* Guide to Study of Ins., p. 288.  
 1870. Life history. *Lintner.* 4th Rept. N. York State Cab. N. Hist., p. 138.  
 1881. Larva, cocoon, (brief.) *Packard.* Ins. Inj. Forest Trees, p. 176.  
 1885. Larva, (fig.) *Packard.* Amer. Naturalist, vol. 19, p. 714.  
 FOOD PLANTS. *Ulmus, Myrica, Pyrus, etc.*

**Lagoa opercularis.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 105, pl. 53.  
 1811. Larva. *Harris,* (quotes Abb.—Sm.) Ins. Inj. Vegetat., 1st edit., p. 261.  
 1856. Larva. *Fitch,* (? *crispata.*) 3d Rept. Ins. N. York, p. 363.  
 1876. Larva, (brief.) *Mary E. Murtfeldt.* Canad. Entom., vol. 8, p. 201.  
 1885. Larva, cocoon, (figs.) *Hubbard.* Ins. Affect. Orange, p. 110.  
 1888. Life history, (brief,) (figs.) *Lintner,* (quotes *Hubbard.*) 4th Rept. N. Y. State Entom., p. 51.  
 FOOD PLANTS. *Citrus, Pyrus, etc.*

**Lagoa pyxidifera.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 107, pl. 51.  
 FOOD PLANTS. *Vaccinium, Quercus, etc.*

Sub-fam. **Cochliopodæ.****Euclea cippus.** Cram. (Querceti. H. Sch.)

1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 115, pl. 73.  
 1841. Larva. *Harris,* (quotes Abb.—Sm.) Ins. Inj. Vegetat., 1st edit., p. 303.  
 1852. Larva. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 323.  
 1858. Larva, (col'd fig.) *Duncan.* Natural. Library, vol. 22, p. 178, pl. 21.  
 1862. Larva. *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 421.  
 1862. Larva. *Morris,* (quotes *Duncan.*) Synop. Lep. N. Amer., p. 126.  
 1861. Larva. *Packard.* Proc. Entom. Soc. Philad., vol. 3, p. 337.  
 1869. Larva, (fig.) *Harris.* Entom. Corres., p. 176, pl. 2.  
 1878. Larva. *W. F. Andrews.* Psyche, vol. 2, p. 272.  
 1881. Larva. *French.* Papilio, vol. 1, p. 145.  
 FOOD PLANTS. *Prunus, Pyrus, Salix, etc.*

**Euclea pænulata.** Clem.

1881. Larva. *French.* Papilio, vol. 1, p. 111.  
 FOOD PLANT. *Salix.*

**Parasa chloris.** H. Sch.

1861. Larva. *T. Reakirt.* Proc. Entom. Soc. Philad., vol. 3, p. 251.  
 1875. Larva. *A. G. Wetherby.* Cincinnati Jour. Sc., vol. 2, p. 368.  
 1878. Larva. *W. F. Andrews.* Psyche, vol. 2, p. 271.  
 1883. Larva. *Edwards—Elliot.* Papilio, vol. 3, p. 128.  
 1885. Larva. *French.* Canad. Entom., vol. 17, p. 160.  
 FOOD PLANTS. *Ulmus, Myrica, etc.*

**Parasa fraterna.** Gr.

1887. Larva. *Hj. Edwards.* Entom. Amer., vol. 3, p. 169.  
 FOOD PLANTS. *Cerasus, etc.*



**Nochelia tardigrada.** Clem.1860. Larva. *Clemens*. Proc. Acad. N. Sc. Philad., p. 159.1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 131.FOOD PLANT. *Apricot*, (*Clemens*.)**Empretia stimulea.** Clem.1860. Larva. *Clemens*. Proc. Acad. N. Sc. Philad., p. 159.1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 130.1869. Larva, (fig.) *Harris*, (as *Lim. ephippiatus*.) Entom. Corres., p. 175, pl. 2.1869. Larva. *Packard*. Guide to Study of Ins., p. 289.1872. Cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 149.1876. Larva. *A. G. Wetherby*. Cincin. Jour. Sc., vol. 2, p. 369.1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 187.1880. Larva. *J. Marten*, (quotes Clemens.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 117.1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 113.1885. Larva, cocoon, (col'd figs.) *H. G. Hubbard*. Ins. Affect. Orange, p. 142.FOOD PLANTS. *Ulmus*, *Myrica*, *Prunus*, *Citrus*, etc.**Phobetron pithecium.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 147, pl. 74.1811. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 301.1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 321.1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 381.1858. Larva, (col'd fig.) *Duncan*. Natural. Library, vol. 22, p. 185, pl. 21.1862. Larva, cocoon, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 421.1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 127.1872. Cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 149.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 47.1883. Larva, cocoon, (fig.) *Saunders*. Ins. Inj. Fruits, p. 112.1885. Larva, cocoon, (col'd figs.) *H. G. Hubbard*. Ins. Affect. Orange p. 143FOOD PLANTS. *Prunus*, *Quercus*, etc.**Phobetron hyalinum.** Walsh.1863. Larva. *B. D. Walsh*. Proc. Boston Soc. N. Hist., vol. 9, p. 297.FOOD PLANT. *Prunus*.**Limacodes scapha.** Harris.1852. Larva, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 323.1862. Larva. *Harris*, Ins. Inj. Vegetat., Flint's edit., p. 420.1864. Larva, (brief.) *Packard*, (quotes Shurtleff in lit.) Proc. Entom. Soc. Philad., vol. 3, p. 341.1869. Larva, (fig.) *Harris*. Entom. Corres., pp. 176, 300, pl. 3.1873. Larva. *Stretch*, (quotes Harris.) Zygæn. Bombyc. N. Amer., p. 201.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 77.1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 128.1885. Larva, (col'd fig.) *H. G. Hubbard*. Ins. Affect. Orange, p. 111.FOOD PLANTS. *Prunus*, *Myrica*, *Ulmus*, *Pyrus*, *Citrus*, etc.**Limacodes biguttata.** Packard.1873. Cocoon. *Stretch*. Zygæn. Bombyc. N. Amer., p. 202.**Limacodes fasciola.** H. Sch.1860. Larva. *Clemens*. Proc. Acad. N. Sc. Philad., p. 157.1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 128.1872. Larva, (brief.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 149.1881. Larva. *Packard*, (quotes Clemens.) Ins. Inj. Forest Trees, p. 112.1883. Larva, cocoon, (brief.) *Saunders*. Ins. Inj. Fruits, p. 179.FOOD PLANT. *Acer*.

NOTE.—These descriptions include *L. latielavia*, Clem., which I believe to be a distinct species.—H. E.

**Sisyrosea inornata.** G. and R.1887. Larva. *G. D. Hulst.* Entom. Amer., vol. 3, p. 66.1889. Larva. *H. G. Dyar.* Canad. Entom., vol. 21, p. 77.FOOD PLANT. *Myrica cerifera.***Adoneta spinuloides.** H. Sch.1860. Larva. *Clemens.* Proc. Acad. Sc. Philad., p. 168.1862. Larva. *Morris*, (quotes *Clemens.*) Synop. Lep. N. Amer., p. 129.1882. Larva, *Mrs. Ballard.* Papilio, vol. 2, p. 83.1883. Larva. *Edwards—Elliot.* Papilio, vol. 3, p. 129.FOOD PLANT. *Prunus, etc.***Packardia fusca.** Packard.1861. Cocoon, pupa. *Packard.* Proc. Entom. Soc. Philad., vol. 3, p. 313.**Kronæa minuta.** Reakirt.1861. Larva, pupa. *T. Reakirt.* Proc. Entom. Soc. Philad., vol. 3, p. 251.Sub-fam. **Psychidæ.****Psyche confederata.** Grote and Rob.1868. Larval case, (fig.) *Grote—Robinson.* Trans. Amer. Entom. Soc., vol. 2, p. 191, pl. 3.1885. Larval case, (fig.) *H. G. Hubbard.* Ins. Affect. Orange, p. 118.1887. Larva, pupa. *Hy. Edwards.* Entom. Amer., vol. 3, p. 168.**Psyche fragmentella.** Hy. Edwards.1876. Larval case. *Hy. Edwards.* Proc. Cal. Acad. Sc., November.**Psyche coniferella.** Hy. Edwards.1876. Larval case. *Hy. Edwards.* Proc. Cal. Acad. Sc., November.**Platæceticus gloveri.** Packard.1869. Larva, case, pupa, (figs.) *Packard.* Guide to Study of Ins., p. 291.1883. Larva, case, pupa, (figs.) *Saunders*, (after *Packard.*) Ins. Inj. Fruits, p. 380.1885. Case, pupa, (figs.) *H. G. Hubbard.* Ins. Affect. Orange, p. 119.FOOD PLANT. *Citrus.***Thyridopteryx ephemeræformis.** Haworth.1853. Larva, case. *Harris.* Downing's Horticult., vol. 8, p. 461, (as *Oik. coniferarum.*)1855. Larva, case, pupa. *T. Glover.* Trans. N. York State Agr. Soc., p. 79.1859. Larva, case. *P. H. Gasse.* Letters from Alabama, p. 283.1861. Case. *Packard.* Proc. Entom. Soc. Philad., vol. 3, p. 351.1866. Larva, case. *B. D. Walsh.* Practical Entom., vol. 2, pp. 22, 81.1866. Larva, case. *S. S. Rathvon.* Loc. cit., p. 53.1869. Life history, (figs.) *Riley.* 1st Missouri Rept., p. 147.1869. Larva. *Harris*, (as *Oik. coniferarum.*) Entom. Corres., pp. 176, 300.1869. Larva, case, (fig.) *Packard.* Guide to Study of Ins., p. 291.1877. Larva, case. *Freuch.* Trans. Dept. Agr. Ill., vol. 15, p. 187.1880. Egg, larva, case, pupa, (figs.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 118.1881. Larva, case. *Packard.* Ins. Inj. Forest Trees, p. 248.1881. Life history. *Helén S. King.* Psyche, vol. 3, p. 241.1883. Young larva. *Hy. Edwards.* Papilio, vol. 3, p. 21.1883. Life history, (figs.) *Saunders.* Ins. Inj. Fruits, p. 222.1885. Larval case, pupa. *H. G. Hubbard.* Ins. Affect. Orange, p. 117.1886. Life history. *W. MacFarland.* Jour. Trenton N. H. Soc., vol. 1, p. 1.1887. Life history, (figs.) *Riley.* Bull. 10, Div. Entom. U. S. Dept. Agr., pp. 23-28.1888. Egg, larval case, larva, pupa, (figs.) *Grote.* 18th Rept. Entom. Soc. Ontario, p. 74.FOOD PLANTS. *Pinus, Cupressus, Salix, Quercus, etc.*

**Thyridoptery meadii.** Hy. Edwards.1881. Larval case. *Hy. Edwards.* Papilio, vol. 1, p. 116.**Oiketicus abbotii.** Grote.1880. Larva, case. *Grote.* N. Amer. Entom., p. 52.1885. Life history, (figs.) *H. G. Hubbard.* Ins. Affect. Orange, p. 144, pl. 12.FOOD PLANTS. *Citrus, etc.***Oiketicus davidsonii.** Hy. Edwards.1876. Larval case, pupa, (figs.) *Hy. Edwards.* Proc. Cal. Acad. Sc., November.**Perophora melsheimeri.** Harris.1841. Larva, case, pupa. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 301.1852. Larva, case, pupa. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 319.1862. Larva, case, pupa, (figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 415, pl. 6.1869. Larva, case, pupa. *Harris.* Entom. Corres., p. 151.1869. Larva, case. *Packard.* Guide to Study of Ins., p. 292.1880. Larva, case. *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 156.FOOD PLANT. *Quercus.*Sub-fam. **Notodontidæ.****Ichthyura inclusa.** Hübn.1797. Larva, (col'd fig.) *Abbot—Smith,* (as Clos. anastomosis.) Lep. Ins. Georgia, p. 143, pl. 72.1841. Larva. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 314.1852. Larva. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 333.1858. Larva. *Fitch.* 5th Rept. Nox. Ins. N. York, p. 845.1862. Life history, (col'd figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 431.1869. Larva, (fig.) *Harris.* Entom. Corres., p. 310, pl. 3.1881. Larva, pupa. *Packard,* (quotes Harris.) Ins. Inj. Forest Trees, p. 122.1883. Young larva. *Hy. Edwards.* Papilio, vol. 3, p. 24.FOOD PLANT. *Populus.***Ichthyura ornata.** S. and R.1885. Life history. *French.* Canad. Entom., vol. 17, p. 248.FOOD PLANT. *Salix.***Ichthyura pallia.** French.1882. Larva. *French.* Canad. Entom., vol. 14, p. 34.1885. Life history. *French.* Canad. Entom., vol. 17, p. 41.FOOD PLANT. *Salix.***Ichthyura albosigma.** Fitch.1855. Egg, larva, cocoon. *Fitch.* 2d Rept. Ins. N. York, p. 274.1858. Larva. *Fitch.* 5th Rept. Ins. N. York, p. 844.1881. Larva. *Packard.* Ins. Inj. Forest Trees, p. 122.FOOD PLANT. *Populus.***Apatelodes torrefacta.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 151, pl. 76.1864. Larva, (brief.) *Packard.* Proc. Entom. Soc. Philad., vol. 3, p. 353.1869. Larva. *Harris.* Entom. Corres., p. 307.FOOD PLANTS. *Rubus, etc.***Apatelodes angelica.** Grote.1872. Larva. *Lintner.* 26th Rept. N. York State Cab. N. Hist., p. 130.FOOD PLANTS. *Fraxinus, Syringa.***Datana ministra.** Drury.1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 161, pl. 81.1841. Larva. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 312.1852. Larva. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 332.1855. Larva, pupa, (figs.) *Fitch.* 2d Rept. Ins. N. York, p. 237.1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 337.

1862. Larva, (fig.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 429.  
 1866. Larva. *Grote—Robinson*, (quote Angus in lit.) *Proc. Entom. Soc. Philad.*,  
 vol. 6, p. 11.  
 1866. Larva. *B. D. Walsh*. *Practical Entom.*, vol. 2, p. 7.  
 1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 308, pl. 2.  
 1873. Life history, (figs.) *Le Baron*. 4th Illinois Rept., p. 186.  
 1877. Larva, (fig.) *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 189.  
 1880. Egg, larva, (fig.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p.  
 119.  
 1880. Egg, larva, (fig.) *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 167.  
 1883. Larva, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 61.  
 1888. Life history. *W. Beutenmüller*. *Canad. Entom.*, vol. 20, p. 16.  
 FOOD PLANTS. *Carya, Juglans*.

**Datana angusii.** G. and R.

1866. Larva. *Grote—Robinson*, (quote Angus in lit.) *Proc. Entom. Soc. Philad.*,  
 vol. 6, p. 10.  
 1888. Larva. *W. Beutenmüller*. *Canad. Entom.*, vol. 20, p. 135.  
 FOOD PLANTS. *Juglans, Carya*.

**Datana major.** G. and R.

1878. Larva. *W. F. Andrews*. *Psyche*, vol. 2, p. 272.  
 1889. Larva. *H. G. Dyar*. *Canad. Entom.*, vol. 21, p. 34.  
 FOOD PLANT. *Andromeda ligustrina*.

**Datana integerrima.** G. and R.

1866. Larva. *Grote—Robinson*, (quote Angus in lit.) *Proc. Entom. Soc. Philad.*,  
 vol. 6, p. 13.  
 1888. Larval stages. *W. Beutenmüller*. *Canad. Entom.*, vol. 20, p. 134.  
 FOOD PLANTS. *Juglans, Carya, Quercus, etc.*

**Datana floridana.** Graef.

1881. Larva. *A. Korbelt*. *Bull. Brooklyn Entom. Soc.*, vol. 4, p. 21.

**Datana drexelii.** Hy. Edwards.

1881. Larva. *Hy. Edwards*. *Papilio*, vol. 4, p. 25.  
 1886. Life history. *W. Beutenmüller*. *Canad. Entom.*, vol. 20, p. 57.  
 FOOD PLANTS. *Vaccinium corymbosum, Hamamelis*.

**Datana contracta.** Walker.

1866. Larva. *Grote—Robinson*, (quote Angus in lit.) *Proc. Entom. Soc. Philad.*,  
 vol. 6, p. 11.  
 1888. Larval stages. *W. Beutenmüller*. *Canad. Entom.*, vol. 20, p. 134.  
 FOOD PLANTS. *Quercus, Castanea, Carya*.

**Datana perspicua.** G. and R.

1887. Egg, larval stages. *Hy. Edwards*. *Entom. Amer.*, vol. 3, p. 170.  
 FOOD PLANT. *Rhus typhina*.

**Nadata gibbosa.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 163, pl. 82.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 308.  
 1872. Larva, (fig.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 150.  
 1874. Larva, (fig.) *Packard*, (quotes Lintner.) *Amer. Naturalist*, vol. 8, p. 691.  
 FOOD PLANT. *Quercus*.

**Hyparpax aurora.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 173, pl. 87.  
 1888. Larval stages. *Hy. Edwards*. *Entom. Amer.*, vol. 3, p. 169.  
 FOOD PLANT. *Quercus*.

**Gluphisia trilineata.** Packard.

1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 129.  
 FOOD PLANT. *Salix*.

**Notodonta stragula.** Grote.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 129.FOOD PLANT. *Salix*.**Lophodonta angulosa.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 165, pl. 83.FOOD PLANT. *Quercus*.**Pheosia rimosa.** Park.1882. Larva, pupa. *C. F. Goodhue*. *Canad. Entom.*, vol. 14, p. 73.FOOD PLANTS. *Salix*, *Populus*.**Pheosia californica.** Stretch.1873. Larva, (col'd fig.) *Stretch*. *Zygæn. Bombyc. N. Amer.*, p. 117, pl. 10.**Edema albifrons.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 159, pl. 80.1854. Larva, pupa, (figs.) *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 242, pl. 37.1869. Larva. *Harris*. *Entom. Corres.*, p. 304.1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 191.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 120.FOOD PLANT. *Quercus*.**Seirodonta bilineata.** Packard.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 201, pl. 1.1869. Larva, (fig.) *Harris*, (as *Gluph. ulmi*.) *Loc. cit.*, p. 302, pl. 11.1886. Larva. *French*. *Canad. Entom.*, vol. 18, p. 49.FOOD PLANT. *Ulmus*.**Oedemasia concinna.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 169, pl. 85.1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 309.1852. Egg, larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 328.1856. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 342.1862. Egg, larva, (figs.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 426.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 303, pl. 1.1877. Larva. *French*, (quotes *Harris*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 190.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 120.1881. Life history. *Saunders*. *Canad. Entom.*, vol. 13, p. 138.1882. Larva, pupa, (figs.) *Saunders*. 12th Rept. *Entom. Soc.—Ontario*, p. 21.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 130.1883. Larva, pupa, (figs.) *T. J. Edge*. *Rept. Agr. Pennsylv.*, p. 70.1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 63.1888. Larva, (fig.) *J. Fletcher*. *Rept. Entom. Dept. Agr. Canad.*, p. 28.FOOD PLANT. *Salix*, *Prunus*, etc.**Oedemasai salicis.** Hy. Edwards.1876. Larva, cocoon, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, October.FOOD PLANT. *Salix*.**Dasylophia anguina.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 167, pl. 84.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 304, pl. 1.1889. Life history. *H. G. Dyar*. *Entom. Amer.*, vol. 5, p. 55.FOOD PLANT. *Robinia*.**Coelodasys unicornis.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 171, pl. 83.1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 307.1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 326.1856. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 363.1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 424.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 302, pl. 11.1872. Larva. *Lintner*. 26th Rept. *State Cab. N. Hist.*, p. 131.1874. Larva, (fig.) *Packard*, (quotes *Lintner*.) *Amer. Naturalist*, vol. 8, p. 691.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 191.  
 1880. Larva. *J. Moerten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 120.  
 1880. Larva. *Cognillott*, (quotes *Lintner*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 117.  
 1880. Larva. *Cognillott*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 181.  
 1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 80.  
 FOOD PLANTS. *Prunus, Pyrus, etc.*

**Coelodasys mustelina.** Paek.

1886. Larva. *French*. Canad. Entom., vol. 18, p. 92.  
 FOOD PLANT. *Rosa*.

**Coelodasys biguttata.** Paek.

1870. Larva, pupa, (figs.) *Packard*. Amer. Naturalist, vol. 4, p. 229.  
 FOOD PLANT. *Iponoea coccinea*.

**Janassa lignicolor.** Walker.

1889. Life history. *H. G. Dyar*. Entom. Amer., vol. 5, p. 91.

**Heterocampa astarte.** Doubl.

1839. Larva. *Harris*, (quotes *Doubleday* in lit., 1839.) Entom. Corres., p. 132.

**Heterocampa unicolor.** Paek.

1887. Larva. *Hj. Edwards*. Entom. Amer., vol. 3, p. 168.  
 FOOD PLANT. *Acer pseudo-platanus*.

**Heterocampa pulverea.** G. and R.

1880. Larva. *French*. Canad. Entom., vol. 12, p. 83.  
 1880. Larva. *French*. 6th Ann. Rept. S. Ill. Normal Univ., p. 44.  
 1881. Larva. *Packard*, (quotes *French*.) Ins. Inj. Forest Trees, p. 46.  
 FOOD PLANT. *Quercus*.

**Heterocampa marthesia.** Cran.

1881. Larva. *Packard*, (as *H. tessela*.) Amer. Naturalist, vol. 18, p. 1015.  
 FOOD PLANT. *Quercus*.

**Cerura occidentalis.** Lintu.

1881. Larva. *French*. Canad. Entom., vol. 13, p. 141.  
 FOOD PLANT. *Cercus*.

**Cerura cinerea.** Walk.

1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 130.  
 FOOD PLANT. *Salix*.

**Cerura borealis.** Boisd.

1797. Larva, (col'd figs.) *Abbot—Smith*, (as *C. furcula*.) Lep. Ins. Georgia, p. 111, pl. 71.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 305.  
 1872. Larva, (fig.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 151.  
 1871. Larva, (fig.) *Packard*, (quotes *Lintner*.) Amer. Naturalist, vol. 8, p. 692.  
 1881. Larva. *French*. Canad. Entom., vol. 13, p. 145.  
 FOOD PLANT. *Salix*.

## Sub-fam. Saturnidæ.

**Dryopteris rosea.** Walk.

1887. Larva. *Grote*. Canad. Entom., vol. 19, p. 50.  
 FOOD PLANT. *Viburnum acerifolium*.

**Drepanodes arcuata.**

1889. Larva. *W. Beutenmüller*. Entom. Amer., vol. 5, p. 38.

**Sericaria mori.** L. (Silk-worm, domesticated.)

1836. Life history, (figs.) Treatise Silk Manufact., (Lardner's Cyclop.)  
 1840. Larva, pupa, (fig.) *Westwood*. Intro. Mod. Class. In., vol. 2, p. 378, fig. 105.  
 1857. Life history, (figs.) *Chenu—Demarets*. Encyc. Hist. Nat. Papillons, vol. 2, pp. 7-16.  
 1863. Larva, cocoon. *W. F. Kirby*. Europ. Butt. and Moths, p. 133.  
 1861. Life history. *Jaeger*. Life N. Amer. Ins., p. 115.

1872. Life history, (figs.) *Figuior*. Insect World, p. 216.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 75.  
 1880. Larva, cocoon, (figs.) *Riley*. Amer. Entom., vol. 1, 2d ser., p. 112.  
 1880. Larva, cocoon, (figs.) *W. C. Wyckoff*, (after *Riley*.) Loc. cit., pp. 112, 113.  
 1885. Egg, larva, (figs.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, pp. 434, 460.  
 1886. Life history, (figs.) *Riley*. Dept. Agr. Bull. No. 9.  
 FOOD PLANTS. *Osage Orange, Rubus, etc.*, (Morris.)

**Actias luna.** L.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 95, pl. 48.  
 1837. Larva. *Westwood*, (quotes *Abb.-Sm.*) in Drury Ill. Exot. Entom., vol. 1, p. 45.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 277.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 297.  
 1854. Larva, pupa, (col'd figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 233, pl. 39.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 452.  
 1859. Larva, cocoon. *Clemens*. Jour. Acad. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. N. Amer. Lep., p. 225.  
 1862. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 382.  
 1865. Cocoon, (brief.) *Grote*. Amer. Entom., p. 13.  
 1867. Larva. *Tenney*. Nat. Hist., p. 401.  
 1869. Egg. *Minot*. Canad. Entom., vol. 2, p. 27.  
 1869. Larva, (fig.) *Harris*. Entom. Corres., p. 293, pl. 4.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 123.  
 1872. Egg, larval stages. *Lintner*. 26th Rept. N. York State Cab. N. Hist. p. 126.  
 1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 674.  
 1874. Larva. *Gentry*. Canad. Entom., vol. 6, p. 86.  
 1875. Life history. *R. F. Rogers*. Canad. Entom., pp. 141-199.  
 1875. Egg, larva, cocoon. *R. F. Rogers*. Rept. Entom. Soc. Ontario, p. 43.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 192.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 124.  
 1880. Larva, (fig.) *Coquillett*, (quotes *Lintner*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 178.  
 1881. Larva, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 76.  
 1882. Larva, brief, (fig.) *J. A. Moffat*. Rept. Entom. Soc. Ontario, p. 29.  
 1885. Egg, larva, cocoon. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 458.  
 FOOD PLANTS. *Juglans, Liquidambar, Betula, Fagus, etc.*

**Telea polyphemus.** Cramer.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 93, pl. 47.  
 1840. Larva, (fig.) *P. H. Gosse*. Canad. Naturalist, p. 309.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 278.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 298.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 236.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 455.  
 1859. Larva, cocoon. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 226.  
 1862. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 384.  
 1864. Larva. *Jarger*. Life N. Amer. Ins., p. 159.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 125.  
 1872. Egg. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 152.  
 1874. Larva. *Gentry*. Canad. Entom., vol. 6, p. 86.  
 1875. Life history, (figs.) *Sauaders*. Rept. Entom. Soc. Ontario, p. 41.  
 1879. Larva, cocoon, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 45.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18., Append., p. 124.

1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 176.  
 1881. Larva, (fig.) *Packard*. Ins. Inj. Forest Trees, p. 47.  
 1882. Larva, (figs.) *Saunders*. Canad. Entom., vol. 11, p. 41.  
 1882. Larva, cocoon, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 15.  
 1883. Larva, cocoon, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 171.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 457.  
 FOOD PLANTS. *Juglans, Tilia, Ulmus, Acer, Pyrus, Rosa, Prunus, etc.*

**Attacus cinctus.** *Tepper*.

1881. Cocoon. *Miss Martfeldt*. Canad. Entom., vol. 16, p. 131.

**Attacus yama-mai** (domesticated).

1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 130.  
 FOOD PLANTS. *Fagus, Pyrus, Castanea, Phloxia, etc.*

**Attacus cynthia.** *Drury*.

1837. Larva, cocoon, pupa. *Westwood*. Drury's Ill. Exot. Entom., vol. 2, p. 13.  
 1858. Larva, (col'd fig.) *Duncan*. Natural. Library, p. 113.  
 1863. Larva, (fig.) *J. G. Wood*. Ill. Nat. Hist., p. 533.  
 1872. Egg, larva, cocoon. *Figuer*. Insect World, p. 247.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 112.  
 1880. Life history, (figs.) *Riley*. Amer. Entom., vol. 1, 2d series, p. 56.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 125.  
 1885. Egg, larva, (figs.) *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 457.  
 FOOD PLANTS. *Ailanthus, Castor-bean.*

**Callosamia promethea.** *Drury*.

1797. Larva, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 91, pl. 46.  
 1833. Larva, cocoon, pupa, (figs.) *Peale*. Lep. Americana, pl. 3.  
 1837. Larva, cocoon. *Westwood*, (quotes Peale). Drury's Ill. Exot. Entom., vol. 2, p. 21.  
 1838. Larva, cocoon, pupa, (figs.) *Westwood*, (quotes Peale.) Introd. Entom., p. 402.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 281.  
 1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 300.  
 1854. Egg, larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 238.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 377.  
 1858. Larva, cocoon, pupa, (figs.) *Duncan*. Natural. Library, vol. 22, p. 136.  
 1859. Larva, cocoon. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Egg, larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 391.  
 1862. Larva. *Morris*. Synop. N. Amer. Lep., p. 224.  
 1861. Egg, larva, cocoon. *Jaeger*. Life N. Amer. Ins., p. 162.  
 1867. Larva, cocoon. *Tenney*. Nat. Hist., p. 401.  
 1872. Egg, young larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 126.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 121.  
 1877. Larva. *Trench*, (quotes Harris.) Trans. Dept. Agr. Ill., vol. 15, p. 193.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 125.  
 1880. Larva, (fig.) *D. Coquillett*, (quotes Harris.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 176.  
 1883. Egg, larval stages, cocoon, (figs.) *Saunders*. Canad. Entom., vol. 15, pl. 32, p. 231.  
 1883. Egg, larval stages, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 205.  
 FOOD PLANTS. *Fraxinus, Sassafras, Liriodendron, Liquidambar, Acer, Prunus, Pyrus, etc.*
- Platysamia cecropia.** *L.*
1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 89, pl. 45.  
 1837. Larva, cocoon. *Westwood*, (quotes Abb.-Smith). Drury's Ill. Exot. Entom., vol. 1, p. 33.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 279.



1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 299.  
 1854. Larva, (col'd fig.) *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 237, pl. 44.  
 1856. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 338.  
 1858. Larva. *Duncan*. *Natural. Library*, vol. 22, p. 133.  
 1859. Larva, cocoon. *Clemens*. *Jour. Acad. N. Sc. Philad.*, July.  
 1862. Larva. *Morris*. *Synop. N. Amer. Lep.*, p. 224.  
 1862. Larva, cocoon, pupa, (figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 385.  
 1861. Larva, cocoon, (figs.) *Jaeger*. *Life N. Amer. Ins.*, p. 155.  
 1867. Larva, pupa, (figs.) *Tenny*. *Nat. Hist.*, p. 400.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 294.  
 1870. Egg. *P. T. Sprague*. *Canad. Entom.*, vol. 2, p. 82.  
 1871. Larva, cocoon. *Saunders*. *Canad. Entom.*, vol. 3, p. 119.  
 1872. Egg, young larva. *Liutner*. 26th Rept. *N. York State Cab. N. Hist.*, p. 125.  
 1872. Life history, (figs.) *Riley*. 4th *Missouri Rept*, p. 103.  
 1874. Life history, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 24.  
 1877. Life history. *Gentry*. *Canad. Entom.*, vol. 9, p. 41.  
 1877. Larva. *French*, (quotes *Harris*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 193.  
 1879. Larva, cocoon, pupa, (figs.) *Mrs. Ballard*. *Insect Lives*, p. 75.  
 1880. Larva, (fig.) *J. Marten*. *Trans. Agr. Dept. Ill.*, vol. 18, Append., p. 126.  
 1880. Larva, (fig.) *D. Coquillett*. *Trans. Agr. Dept. Ill.*, vol. 18, Append., p. 177.  
 1881. Larva, (fig.) *Puckard*, (after *Riley*.) *Ins. Inj. Forest Trees*, p. 113.  
 1881. Larva, cocoon. *G. D. Hulst*. *Bull. Brooklyn Entom. Soc.*, vol. 4, p. 57, hybrid between *P. cecropia* and *P. ceanothi*.  
 1883. Egg, larva, cocoon, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 75.  
 1885. Egg, larva. *Fernald*. *Kingsley's Stand. Nat. Hist.*, vol. 2, p. 456.

FOOD PLANTS. *Pyrus, Prunus, etc.*

**Platysamia columbia.** *Smith*.

1871. Cocoon. *G. J. Bowles*. *Canad. Entom.*, vol. 3, p. 263.  
 1878. Larva, (col'd fig.) *G. J. Bowles*. *Canad. Entom.*, vol. 10, frontispiece.  
 1878. Larva, (fig.) *F. B. Caulfield*. *Canad. Entom.*, vol. 10, p. 41.  
 1878. Life history. *Fernald*. *Canad. Entom.*, vol. 10, p. 43.  
 1879. Larva, cocoon. *Hagen*. *Bull. Buffalo Soc. Nat. Hist.*, p. 201.  
 1880. Larva. *D. Coquillett*, (quotes *Caulfield*.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 177.

FOOD PLANT. *Larix americana*.

**Platysamia gloveri.** *Strecker*.

1878. Cocoon, pupa. *E. L. Graef*. *Bull. Brooklyn Entom. Soc.*, vol. 1, p. 75.

**Platysamia ceanothi.** *Behr*.

1869. Larva, cocoon, pupa. *Boisdural*. *Lep. Califor.*, p. 84.  
 1874. Larva, cocoon, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, September.  
 1876. Larva, cocoon, pupa. *Strecker*, (quotes *Hy. Edwards*.) *Lep. Rhopal. et Heteroc.*, p. 103.  
 1880. Larva. *A. Wailly*. *Canad. Entom.*, vol. 12, p. 227.

FOOD PLANT. *Ceanothus thyrsiflorus*.

**Saturnia mendocino.** *Behrens*.

1878. Egg, larval stages. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, January.

FOOD PLANT. *Arctostaphylos tomentosa*.

**Saturnia galbina.** *Clemens*.

1888. Egg, young larva, cocoon, pupa. *Hy. Edwards*. *Entom. Amer.*, vol. 4, p. 61.

**Pseudohazis eglanterina.** *Bois*.

1833. Larva, (col'd fig.) *Titian Peale*. *Lep. Americana*, pl. 2.  
 1875. Egg, larva. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, April.

FOOD PLANTS. *Rhamnus, Rosa*.

**Hemileuca maia.** Drury.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 99, pl. 50.  
 1837. Larva. *Westwood*, (quotes *Abb.-Smith*). Drury's Ill. Exot. Entom., vol. 2, p. 15.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 285.  
 1852. Larva. *Harris*, (quotes *Abbot*.) Ins. Inj. Vegetat., 2d edit., p. 306.  
 1854. Larva, (col'd figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 232, pl. 39.  
 1858. Larva. *Duncan*. Natural. Library, vol. 22, p. 151.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 221.  
 1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 306.  
 1869. Life history, (figs.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 137.  
 1873. Life history, (figs.) *Riley*. 5th Rept. Missonri, p. 127.  
 1873. Egg, larva, pupa, (figs.) *Packard*, (quotes *Riley*.) Amer. Naturalist, vol. 7, p. 475.  
 1877. Larva, (fig.) *Packard*, (after *Riley*.) Half-hours with Insects, p. 86.  
 1877. Larva. *Frouch*. Trans. Dept. Agr. Ill., vol. 15, p. 106.  
 1878. Larva, (brief.) *C. E. Worthington*. Canad. Entom., vol. 10, p. 16.  
 1880. Larva, pupa, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 127.  
 1880. Larva, pupa, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 163.  
 1885. Larva. *C. T. Goodhue*. Canad. Entom., vol. 17, p. 213.

FOOD PLANT. *Quercus*.

**Hemileuca nevadensis.** Stretch.

1875. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.  
 1888. Larva. *G. D. Hulst*. Entom. Amer., vol. 3, p. 191.

FOOD PLANT. *Salix*.

**Hemileuca yavapai.**

1880. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 167.

FOOD PLANT. *Prosopis juliflora*.

**Hemileuca californica.** Wright.

1888. Larva, (brief.) *W. G. Wright*. Canad. Entom., vol. 20, p. 34.

FOOD PLANT. *Salix*.

**Hyperchiria io.** Fabr.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 97, pl. 49.  
 1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 6.  
 1811. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 284.  
 1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 303.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 232.  
 1855. Larva. *T. Glover*, (quotes *Harris*.) Trans. N. York State Agr. Soc., p. 81.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 379.  
 1858. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 832.  
 1858. Larva. *Duncan*. Natural. Library, vol. 22, p. 157.  
 1859. Larva. *P. H. Gosse*. Letters from Alabama, p. 281.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 220.  
 1862. Larva, cocoon, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 303.  
 1864. Larva, (fig.) *Jaeger*. Life N. Amer. Ins., p. 124.  
 1869. Larva. *Bethune*. Canad. Entom., vol. 2, p. 19.  
 1869. Larva. *Harris*. Entom. Corres., p. 295.  
 1870. Larval stages. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 116.  
 1873. Egg. *Riley*. Canad. Entom., vol. 5, p. 109.  
 1873. Life history, (figs.) *Riley*. 5th Missouri Rept., p. 133.  
 1873. Larva, (fig.) *Packard*, (quotes *Riley*.) Amer. Naturalist, vol. 7, p. 477.  
 1874. Larva, (fig.) *Saunders*. Canad. Entom., vol. 6, p. 227.

1874. Larva, cocoon, (figs.) *E. B. Reel*. Rept. Entom. Soc. Ontario, p. 11.  
 1877. Larva, (fig'd.) *Peckard*, (after Riley.) Half-hours with Insects, p. 85.  
 1879. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 75.  
 1879. Larva, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 87.  
 1880. Larva, (fig.), *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 127.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 169.  
 1881. Larva, (fig.) *Packard*, (after Riley.) Ins. Inj. Forest Trees, p. 111.  
 1883. Life history, brief, (figs.) *Saunders*. Ins. Inj. Fruits, p. 210.  
 1885. Egg, larva, cocoon. *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 455.  
 1888. Larva, pupa, (fig.) *A. R. Grote*. 18th Rept. Entom. Soc. Ontario, pp. 73, 74.

FOOD PLANTS. Various trees and shrubs.

**Hyperchiria pamina.** Nenn.

1888. Larval stages. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.

**Coloradia pandora.** Blake.

1888. Egg. *Hy. Edwards*. Entom. Amer., vol. 4, p. 61.

**Eacles imperialis.** Drury.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 109, pl. 55.  
 1837. Larva, pupa. *Westwood*, (quotes Abb.—Sm.) Drury's Ill. Exot. Entom., vol. 1, p. 17.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 290.  
 1852. Larval stages. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 308.  
 1858. Larva, (col'd fig.) *Duncan*. Natural Library, vol. 22, p. 160.  
 1858. Larva, (brief.) *Fitch*. 4th Rept. Ins. N. York, p. 742.  
 1859. Larva, pupa, (brief.) *P. H. Gosse*, (quotes Abb.—Sm.) Letters from Alabama, p. 172.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 404.  
 1862. Larva, pupa. *Morris*. Synop. Lep. N. Amer., p. 230.  
 1870. Egg, larval stages. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 150.  
 1874. Larva. *Gentry*. Canad. Entom., vol. 6, p. 87.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 196.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 121.  
 1881. Larva. *Packard*, (quotes Harris.) Ins. Inj. Forest Trees, p. 203.  
 FOOD PLANTS. *Carya*, *Juglans*, etc.

**Citheronia regalis.** Fabr.

1797. Larva, (col'd fig.) *Abbot—Smith*, (as Ph. regia.) Lep. Ins. Georgia, p. 121, pl. 61.  
 1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 5.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 287.  
 1852. Larval stages. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 309.  
 1857. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 456.  
 1858. Larva, (col'd fig.) *Duncan*. Natural Library, vol. 22, p. 162.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Egg, larva, pupa. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 400.  
 1862. Larva, pupa. *Morris*. Synop. Lep. N. Amer., p. 230.  
 1869. Larva, pupa. *Harris*. Entom. Corres., p. 297.  
 1874. Larva, (fig.) *J. G. Wood*. Insects abroad, p. 682.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 196.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 122.  
 1880. Larva. *D. Coquillett*, (quotes Harris.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 162.  
 1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 76.  
 1884. Larva, pupa, (brief.) *J. Hamilton*. Canad. Entom., vol. 16, p. 47.  
 FOOD PLANTS. Various trees and shrubs.

**Citheronia sepulcralis.** G. and R.1865. Larva. *Grote and Robinson*. Proc. Entom. Soc. Philad., vol. 1, p. 496.1881. Larva. *Packard*, (quotes G. and R.) Ins. Inj. Forest Trees, p. 203.1887. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 168.FOOD PLANT. *Pinus*.**Citheronia mexicana.** G. and R.1888. Pupa. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.**Sphingicampa bicolor.** Harris.

1863. Larva, pupa. Proc. Boston Soc. N. Hist., vol. 9, p. 292.

1864. Larva. *B. D. Walsh*. Proc. Entom. Soc. Philad., vol. 3, p. 425.FOOD PLANT. *Gleditschia*.**Sphingicampa quadrilineata.** G. and R.1888. Pupa. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.**Anisota stigma.** Fabr.1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 111, pl. 56.1841. Larva, pupa. *Harris*, (quotes Abb.-Sm.) Ins. Inj. Vegetat., 1st edit., p. 292.1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.1859. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 824.1862. Larva, (brief.) *Morris*. Synop. Lep. N. Amer., p. 231.1869. Larva, (fig.) *Harris*. Entom. Corres., p. 298, pl. 11.1873. Larva. *Riley*. 5th Missouri Rept., p. 126.1878. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 272.1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 120.1887. Larva. *A. R. Grote*. Canad. Entom., vol. 19, p. 51.FOOD PLANTS. Various species of *Quercus*.**Anisota senatoria.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 113, pl. 57.1837. Larva. *Westwood*, (quotes Abb.-Sm.) Drury's Ill. Exot. Entom., vol. 2, p. 25.1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 292.1852. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 311.1859. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 823.1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 231.1862. Larva, pupa, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 406.1866. Larva. *B. D. Walsh*. Praet. Entom., vol. 2, p. 7.1869. Larva, pupa, (fig.) *Harris*. Entom. Corres., pl. 11.1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 82.1870. Egg, larval stages. *Lintner*. 24th Rept. N. Y. State Cab. Nat. Hist., p. 155.1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 196.1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 120.1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 45.FOOD PLANTS. Various species of *Quercus*.**Anisota virginiensis**, Drury; = **pellucida**. Abb.-Sm.1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 115, pl. 58.1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 293.1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 313.1854. Larva, pupa, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, pl. 36.1859. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 821.1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 407.1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 237.1869. Larva. *Harris*. Entom. Corres., p. 298.1880. Larva. *French*. 6th Rept. Ill. Norm. Univers., p. 45.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 121.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 45.

1887. Larva. *A. R. Grote*. Canad. Entom., vol. 19, p. 52.

FOOD PLANTS. Various species of *Quercus*.

**Dryocampa rubicunda.** Fabr.

1864. Larva. *B. D. Walsh*, description by Lintner. Proc. Entom. Soc. Philad., vol. 3, p. 126.

1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 75.

1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 83.

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 133.

1873. Life history, (figs.) *Riley*. 5th Missouri Rept., p. 137.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 196.

1879. Larva, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 83.

1880. Larva, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 121.

1881. Larva, pupa, (figs.) *Packard*, (quotes *Riley*.) Ins. Inj. Forest Trees, p. 109.

1887. Larva. *A. R. Grote*. Canad. Entom., vol. 19, p. 52.

FOOD PLANTS. *Acer*, etc.

**Clisiocampa californica.** Park.

1869. Larva, (brief.) *Boisduval*, (as *B. pseudoneustria*.) Lep. Califor., p. 82.

1877. Larva, cocoon. *Packard*, (quotes *Hy. Edwards* in lit.) Inj. Ins. West, Hayden's Rept., p. 807.\*

1881. Larva, cocoon. *Stretch*. Papilio, vol. 1, p. 64.

1881. Larva. *Packard*, (quotes *Stretch*.) Ins. Inj. Forest Trees, p. 41.

1881. Larva, cocoon. *Packard*, (quotes *Hy. Edwards* in lit.) Ins. Inj. Forest Trees, p. 43.\*

FOOD PLANTS. *Quercus agrifolia*, *Rubus*, etc.

\* NOTE.—This description was given by me to Dr. Packard in error as *Gastropacha californica*.—H. E.

**Clisiocampa americana.** Harris.

1796. Life history, (brief.) *Peck*. Proc. Mass. Agr. Soc.

1797. Larva, (col'd fig.) *Abbot—Smith*, (as *B. castrensis*.) Lep. Ins. Georgia, p. 119, pl. 60.

1826. Larva. *Harris*. N. Engl'd Farmer, vol. 4, p. 351.

1811. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 268.

1843. Larva. *W. Gaylord*. Trans. N. York State Agr. Soc. (prize essay), p. 152.

1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 286.

1854. Egg, larva, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 235.

1856. Egg, larva, pupa, (figs.) *Fitch*. 2d Rept. Ins. N. York, p. 185.

1862. Egg, larva, cocoon, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 371.

•1862. Larva, (brief.) *Packard*. Rept. Maine Board Agr., p. 170.

1861. Larva. *Jaeger*. Life N. Amer. Insects, p. 171.

1867. Larva, cocoon, (fig.) *Tenney*. Nat. Hist., p. 401, pl. 299.

1869. Larva. *Boisduval*, (as *B. frutetorum*.) Lep. Califor., p. 82.

1870. Egg, larva. *T. Glover*. Rept. U. S. Dept. Agr., p. 83.

1871. Egg, larva, cocoon, (figs.) *Riley*. 3d Missouri Rept., p. 118.

1872. Egg, larva, cocoon, (figs.) *Saunders*. Canad. Entom., vol. 4, p. 134.

1873. Egg, (fig.) *Riley*. 5th Missouri Rept., p. 56.

1873. Egg, larva, cocoon, (figs.) *A. J. Cook*. 12th Agr. Rept. Michigan, p. 131.

1875. Egg, larva, cocoon, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 30.

1876. Egg, larva, cocoon, (figs.) *G. H. Perkins*. Rept. Vermont Board Agr., p. 586.

1877. Egg, larva, pupa, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 793.

1877. Egg, larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 197.

1877. Egg, larva, cocoon, (fig.) *B. Gott*. Rept. Entom. Soc. Ontario, p. 41.

1877. Larva. *Packard*. Half-hours with Insects, p. 172.

1878. Egg. *Saunders*. Canad. Entom., vol. 10, p. 21.

1879. Egg, larva, cocoon, (figs.) *H. Cutting*. N. Hamp. Board Agr., p. 17.  
 1880. Egg, larva, cocoon, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 122.  
 1880. Egg, larva, cocoon, (figs.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 155.  
 1883. Egg, larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 48.  
 1887. Egg, larva, pupa, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Can., p. 24.  
 1888. Egg, larva, cocoon, (figs.) *J. Fletcher*. Rept. Bot. Entom. Dept. Agr. Canada, p. 24.  
 1889. Egg, larva, cocoon, (figs.) *J. Fletcher*. Canad. Entom., vol. 21, p. 74.

FOOD PLANTS. Various trees and shrubs.

**Clisiocampa constricta.** Stretch.

1874. Larva, cocoon, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., September.  
 1881. Larva, cocoon. *Stretch*. Papilio, vol. p. 65.  
 1881. Larva. *Packard*, (quotes *Hy. Edwards*.) Ins. Inj. Forest Trees, p. 11.  
 FOOD PLANT. *Quercus sonomensis*.

**Clisiocampa erosa.** Stretch.

1881. Cocoon. *Stretch*, (quotes *Hy. Edwards* in lit.) Papilio, vol. 1, p. 67.

**Clisiocampa disstria.** Hübn.—*Sylvatica*. Harris.

1797. Larva, (col'd fig.) *Abbot—Smith*, (as *G. neustria*.) Lep. Ins. Georgia, p. 117, pl. 59.  
 1811. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 271.  
 1844. Larva. *Harris*. N. Eng'd Farmer, vol. 22, p. 412.  
 1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 291.  
 1854. Larva, cocoon, (figs.) *Emmons*, (as *B. neustria*.) Nat. Hist. N. York, vol. 5, p. 240.  
 1856. Larva. *Fitch*. 2d Rept. Ins. N. York, p. 198.  
 1858. Larval stages. *Fitch*. 5th Rept. Ins. N. York, p. 820.  
 1862. Larva, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 375.  
 1862. Larva. *Morris*, (quotes *Harris*.) Synop. N. Amer. Lep., p. 236.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 173.  
 1869. Larva. *Harris*. Entom. Corres., p. 292.  
 1871. Egg, larva, (fig'd.) *Riley*. 3d Missouri Rept., p. 124.  
 1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 680.  
 1875. Larva, (fig.) *Saunders*, Rept. Entom. Soc. Ontario, p. 30.  
 1877. Larva. *B. Gott*. Rept. Entom. Soc. Ontario, p. 41.  
 1877. Egg, larva, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 791.  
 1878. Egg, larva, (figs.) *G. H. Perkins*. Rept. Vermont Board Agr., p. 258.  
 1878. Egg, larva, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 28.  
 1879. Egg, larva, (figs.) *H. Cutting*. N. Hamp. Board Agr., p. 20.  
 1878. Egg. *Saunders*. Canad. Entom., vol. 10, p. 21.  
 1880. Larva, (fig.) *J. Marten*, (quotes *Fitch*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 124.  
 1880. Larva. *French*. 6th Rept. Ill. Norm. Univ., p. 41.  
 1881. Egg, larva, (figs.) *Packard*, (quotes *Fitch*.) Ins. Inj. Forest Trees, p. 40.  
 1883. Egg, larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 53.  
 1887. Egg, larva, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Can., p. 24.  
 1888. Egg, larva, cocoon. *J. Fletcher*. Rept. Bot. Ent. Dept. Agr. Canada, p. 24.  
 FOOD PLANTS. *Pyrus*, *Prunus*, *Quercus*, etc.

**Clisiocampa fragilis.** Stretch.

1888. Cocoon. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.

**Gastropacha americana.** Harris.

1797. Larva, (col'd fig.) *Abbot—Smith*, (as *B. ilicifolia*.) Lep. Ins. Georgia, p. 101, pl. 51.  
 1811. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 273.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 293.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, pp. 337, 380.  
 1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 377.  
 1869. Larva. *Harris*. Entom. Corres., p. 292.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 151.  
 1874. Egg. *H. H. Lyman*. Canad. Entom., vol. 6, p. 158.  
 1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 166.  
 1863. Egg, larva, cocoon. *Saunders*. Ins. Inj. Fruits, p. 87.  
 FOOD PLANTS. *Pyrus*, *Fraxinus*, *Quercus*.

**Tolype vellea**. Stoll.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 103, pl. 52.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 274.  
 1848. Larva. *Miss Dix*. Silliman's Jour. of Sc. and Art, vol. 19, p. 62.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 293.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 338.  
 1862. Young larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 379.  
 1869. Larva. *Harris*. Entom. Corres., p. 293.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 134.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 197.  
 1880. Larva. *D. Coquillett*, (quotes *Lintner*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 166.  
 1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 130.  
 1883. Egg. *H. Edwards*. Papilio, vol. 3, p. 189.  
 1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 89.  
 FOOD PLANTS. *Populus*, *Prunus*, etc.

**Tolype laricis**. Fitch.

1856. Life history. *Fitch*. 2d Rept. Ins. N. York, p. 264.  
 1881. Larva, cocoon. *Packard*, (quotes *Fitch*.) Ins. Inj. Forest Trees, p. 254.  
 1883. Cocoon, (brief.) *H. R. Gilbert*. Papilio, vol. 3, p. 25.  
 1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 131.  
 FOOD PLANT. *Larix americana*.

Sub-fam. **Cossidæ**.**Cossus centerensis**. *Lintner*.

1879. Life history. *Jas. S. Bailey*. Canad. Entom., vol. 11, p. 1.  
 1880. Larva. *D. Coquillett*, (quotes *Bailey*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 151.  
 1881. Larva, pupa. *Packard*, (quotes *Bailey*.) Ins. Inj. Forest Trees, p. 120.  
 1883. Pupa, (brief.) *J. Fletcher*. Canad. Entom., vol. 15, p. 203.  
 1883. Life history, (col'd figs.) *Jas. S. Bailey*. Bull. U. S. Dept. Agr., No. 3, p. 50.  
 1885. Pupa, (figs.) *Lintner*. 2d Rept. State Entom. N. York, p. 216.  
 FOOD PLANT. *Populus tremuloides*.

**Cossusalni**. *Kellicott*. (New sp.?)

1885. Larva. *D. Kellicott*. Entom. Amer., vol. 1, p. 175.

**Prionoxystus robinæ**. *Peck*.

1821. Life history, (brief,) (figs.) *Peck*. Mass. Agr. Repos. and Jour., vol. 5, p. 67.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 296.  
 1852. Life history. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 316.  
 1858. Life history. *Fitch*. 5th Rept. Ins. N. York, p. 784.  
 1862. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 411.  
 1877. Larva. *Packard*. Half-hours with Insects, p. 239.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 198.  
 1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 152.  
 1881. Egg, larva, pupa. *Packard*. Ins. Inj. Forest Trees, p. 7.  
 1881. Larva, pupa, (brief.) *D. Kellicott*. Bull. Buffalo Soc. N. Hist., vol. 4, p. 30.

FEEDS in trunks of *Quercus*, *Robinia*, *Populus*, *Salix*, etc.

**Zeuzera æsculi.** Linn.

1829. Larva, pupa. *Stephens.* *Illust. Brit. Entom.*, Hawkes, vol. 2, p. 8.  
 1829. Larva, (fig.) *A. Matthews.* *Mag. Nat. Hist.*, vol. 2, p. 66.  
 1829. Larva, (fig.) *D. G. Kerridge.* *Mag. Nat. Hist.*, vol. 2, p. 292.  
 1837. Larva, pupa. *Kollar.* *Ins. Inj. Vegetat.*, London's edit., p. 208.  
 1839. Larva, (col'd fig.) *Carlis.* *Brit. Entom.*, vol. 16, pl. 722.  
 1810. Larva, pupa, (col'd figs.) *Ratzburly.* *Die Forst-Insecten*, vol. 2, p. 88, pl. 3, 4.  
 1810. Larva, (brief.) *Westwood.* *Intr. Mod. Class. Ins.*, vol. 2, p. 378.  
 1857. Larva. *Chenu—Demarcts.* *Encyc. Hist. Nat. Papillous*, vol. 2, p. 44.  
 1858. Larva, (col'd fig.) *Duncan.* *Nat. Library*, vol. 30, p. 185, pl. 15.  
 1859. Larva. *H. T. Stainton.* *Brit. Butt. Moths*, vol. 1, p. 113.  
 1859. Larva, (col'd fig.) *Humphreys.* *Genera Brit. Moths*, vol. 1, p. 15, pl. 1.  
 1869. Larva. *Newman.* *British Moths*, p. 18.  
 1872. Larva, (fig.) *J. G. Wood.* *Insects at Home*, p. 428.  
 1879. Egg, larva, pupa, (figs.) *Miss E. A. Ormerod.* *Rept. Inj. Ins.*, p. 23.  
 1882. Larva, (col'd fig.) *W. F. Kirby.* *Europ. Butt. and Moths*, p. 113, pl. 26.  
 FEEDS in trunk and branches of *Quercus*, *Salix*, *Populus*, etc.

**Cossula magnifica.** Bailey.

1882. Life history, (brief.) *J. S. Bailey.* *Papilio*, vol. 2, p. 94.  
 1883. Pupa, (col'd fig.) *J. S. Bailey.* *Bull. Dept. Agr.*, No. 3, pl. 2.  
 FOOD PLANT. *Quercus virens*.

Sub-fam. **Hepialidæ.****Hepialus argenteomaculatus.** Harris.

1810. Egg, (brief.) *P. H. Gosse.* *Canad. Naturalist*, p. 218.  
 1888. Larva, notes on. *D. S. Kellicott.* *Entom. Amer.*, vol. 4, p. 153.  
 1889. Life history. *D. S. Kellicott.* *Insect Life*, vol. 1, p. 250.

**NOCTUÆ.****Bombycia improvisa.** Hy. Edwards.

1873. Pupa. *Hy. Edwards.* *Proc. Cal. Acad. Sc.*, November.

**Pseudothyatira cymatophoroides.** Guen., (and var.)

1863. Larva. *A. R. Grote*, (quotes Cutler in lit.) *Proc. Entom. Soc. Philad.*, vol. 2, p. 134.  
 1883. Larva. *R. Thaxter.* *Papilio*, vol. 3, p. 10.  
 FOOD PLANT. *Quercus*.

**Habrosyne scripta.** Gosse.

1883. Egg, larva. *R. Thaxter.* *Papilio*, vol. 3, p. 10.  
 FOOD PLANT. *Rubus*.

**Platycerura furcilla.** Packard.

1872. Larva, (fig.) *Lintner.* 26th Rept. N. York State Cab. N. Hist., p. 132.  
 1874. Larva, (fig.) *Packard*, (quotes Lintner.) *Amer. Naturalist*, vol. 8, p. 691.  
 1880. Larva. *D. Coquillett*, (quotes Lintner.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 168.  
 1881. Larva. *Packard*, (quotes Lintner.) *Ins. Inj. Forest Trees*, p. 203.  
 1883. Larva, cocoon. *R. Thaxter.* *Papilio*, vol. 3, p. 11.  
 1885. Larva. *Fernald.* *Kingsley's Stand. N. Hist.*, vol. 2, p. 453.  
 FOOD PLANTS. *Pinus*, *Tilia*.

**Charadra propinquininea.** Grote.

1881. Larva. *L. W. Goodell.* *Papilio*, vol. 1, p. 15.  
 1883. Larva. *R. Thaxter.* *Papilio*, vol. 3, p. 12.  
 FOOD PLANTS. *Betula*, *Quercus*, *Carya*.

**Charadra deridens.** Guen.

1870. Larva. *Saunders.* *Canad. Entom.*, vol. 2, p. 115.  
 1872. Larva, cocoon. *Lintner.* 26th Rept. N. York State Cab. N. Hist., p. 157.  
 1874. Larva, (fig.) *Packard*, (quotes Lintner.) *Amer. Naturalist*, vol. 8, p. 692.  
 1883. Larval stages, cocoon. *R. Thaxter.* *Papilio*, vol. 3, p. 11.  
 FOOD PLANT. *Quercus*.



**Raphia frater.** Grote.1883. Larva. *R. Thaxter*. *Papilio*, vol. 3, p. 13.**Apatela grisea.** Walker.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 131.FOOD PLANT. *Ulmus*.**Apatela falcata.** Grote.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1., p. 6.FOOD PLANT. *Corylus*.**Apatela occidentalis.** G. and R.1869. Larva. *Harris*. *Entom. Corres.*, p. 311.1872. Larva. *Saunders*. *Canad. Entom.*, vol. 4, p. 49.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 129.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 83.1883. Egg, larva, pupa, cocoon. *Saunders*. *Ins. Inj. Fruits*, p. 166.FOOD PLANT. *Cerasus*.**Apatela lobeliæ.** Guen.1852. Larva. *Guen*. *Spec. Gener. Noct.*, vol. 1, p. 44.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1. p. 6.1886. Larva. *French*. *Canad. Entom.*, vol. 18, p. 118.FOOD PLANT. *Quercus*.**Apatela morula.** G. and R.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 312, pl. 3, (as *A. ulmi*.)1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 137.1883. Life history. *Thaxter*. *Papilio*, vol. 3, p. 14.FOOD PLANT. *Ulmus*.**Apatela vulpina.** Grote.1883. Larva. *Thaxter*. *Papilio*, vol. 3, p. 14.FOOD PLANTS. *Betula*, *Populus*.**Apatela radcliffei.** Harvey.1878. Larva, cocoon, pupa. *Thaxter*. *Psyche*, vol. 2, p. 121.FOOD PLANT. *Prunus serotina*.**Apatela spinigera.** Guen.1878. Larva. *Thaxter*. *Psyche*, vol. 2, p. 121.FOOD PLANTS. *Rubus*, *Betula*.**Apatela betulæ.** Riley.1884. Larva, pupa. *Riley*. *Bull. Brooklyn Entom. Soc.*, vol. 7, p. 2.FOOD PLANT. *Betula nigra*.**Apatela spinea.** Gr.1878. Egg, young larva. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, June.FOOD PLANT. *Lupinus*.**Apatela lepusculina.** Guen.1875. Larva. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, April.FOOD PLANT. *Populus*.**Apatela populi.** Riley.1870. Larva, pupa, (fig.) *Riley*. 2d Missouri Rept., p. 119.1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 201.1880. Larva, (fig.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 130.1881. Larva, pupa, (fig.) *Packard*, (after Riley.) *Ins. Inj. Forest Trees*, p. 116.1882. Larva, (fig.) *Saunders*. *Canad. Entom.*, vol. 14, p. 221.1883. Larva, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 24.FOOD PLANT. *Populus*.

NOTE.—The two species (undoubtedly distinct), *A. lepusculina* and *A. populi*, have been confounded, and some of the descriptions of early stages of the latter have been given under the former name. *A. lepusculina* appears to be confined to the Pacific coast.—H. E.

**Apatela felina.** Grote.1887. Larval stages, pupa. *French*. *Canad. Entom.*, vol. 19, p. 49.FOOD PLANT. *Salix*.**Apatela americana.** Harris.1797. Larva, (col'd fig.) *Abbot-Smith*, (as *A. aceris*.) *Lep. Ins. Georgia*, p. 185, pl. 93.1811. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 317.1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 337.1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 1, p. 48, (as *A. acenolola*.)1862. Larva, pupa, (figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 136.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 311, pl. 111.1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., pp. 135, 157.1875. Larva, (brief.) *Grote*. *Bull. Buffalo Soc. N. Sc.*, vol. 2, p. 151.1877. Larva. *French*, (quotes Harris.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 200.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 130.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 6.1881. Larva. *Packard*. *Ins. Inj. Forest Trees*, p. 111.FOOD PLANT. *Acer*.**Apatela hastulifera.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 183, pl. 92.1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 1, p. 47.1872. Larva, cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 158.FOOD PLANTS. *Esculus*, *Acer*.**Apatela rubricoma.** Guen.1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 1, p. 48.1880. Larva. *French*. 6th Rept. Ill. State Norm. Univer., p. 45.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 132.FOOD PLANT. *Celtis crassifolia*.**Apatela luteicoma.** G. and R.1883. Larva. *Thaxter*. *Papilio*, vol. 3, p. 16.FOOD PLANTS. *Tilia*, *Acer*, *Fraxinus*.**Apatela clarescens.** Guen.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 313, pl. 4, (as *A. pruni*.)FOOD PLANT. *Prunus*.**Apatela brumosa.** Guen.1852. Larva, (col'd fig.) *Guen*, (after *Abbot*, MS.) *Spec. Gener. Noct.*, vol. 1, p. 52, pl. 2.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 56.1883. Larva, pupa. *Saunders*. *Ins. Inj. Fruit*, p. 313.1883. Larva. *Saunders*. *Rept. Entom. Soc. Ontario*, p. 12.FOOD PLANTS. *Corylus*, *Prunus*.**Apatela noctivaga.** Grote.1883. Life history. *Thaxter*. *Papilio*, vol. 3, p. 15.FOOD PLANT. *Populus*.**Apatela superans.** Guen.1871. Larva. *LeBaron*. 2d Illinois Rept., p. 51.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 131.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 6.1883. Egg, larva, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 166.FOOD PLANT. *Prunus*.**Apatela afflicta.** Grote.1883. Larva. *Thaxter*. *Papilio*, vol. 3, p. 17.FOOD PLANT. *Quercus*.**Apatela hamamelis.** Guen.1852. Larva, (col'd fig.) *Guen*, (after *Abb.*, MS.) *Spec. Gener. Noct.*, vol. 1, p. 52, pl. 2.

1877. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 9, p. 61.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 131.  
 FOOD PLANT. *Castanea*.
- Apatela lithospila.** Grote.  
 1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 132.  
 FOOD PLANT. *Carya alba*.
- Apatela oblongata.** Abb.—Sm.  
 1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 187, pl. 94.  
 1852. Larva. *Guen*. *Spec. Gener. Noct.*, vol. 1, p. 49.  
 1869. Larva, (fig.) *Packard*. *Guide to Study of Ins.*, p. 304.  
 1871. Larva, pupa, (fig.) *Riley*. 3d *Missouri Rept.*, p. 70.  
 1871. Larva, (fig.) *Saunders*. *Canad. Entom.*, vol. 3, p. 226.  
 1872. Larva. *Lintner*. 26th *Rept. N. York State Cab. N. Hist.*, p. 159.  
 1877. Larva. *French*, (quotes *Riley*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 201.  
 1878. Larva, pupa, (figs.) *G. H. Perkins*, (after *Riley*.) 5th *Rept. Vermont Board Agr.*, p. 275.  
 1878. Larva. *L. W. Goodell*. *Canad. Entom.*, vol. 10, p. 66.  
 1880. Larva, cocoon, (figs.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 131.  
 1880. Larva, cocoon, (fig.) *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 170.  
 1883. Larva, cocoon, pupa, (figs.) *S. A. Forbes*. *Trans. Wisconsin Agr. Soc.*, vol. 21, p. 7.  
 1883. Larva, cocoon, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 325.  
 1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 152.  
 FOOD PLANTS. *Polygonum*, *Peach*, *Asparagus*, etc.
- Arsilonche albovenosa.** Grote. = *henrici*. Gr.  
 1877. Larva. *Thaxter*. *Psyche*, vol. 1, p. 188.  
 1880. Larva. *D. Coquillett*. *Canad. Entom.*, vol. 12, p. 45.  
 1880. Larva. *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 171.  
 1888. Larval stages. *Hy. Edwards*. *Entom. Amer.*, vol. 3, p. 171.  
 FOOD PLANTS. *Polygonum*, etc.
- Harrissimemna trisignata.** Walk.  
 1869. Larva, pupa, (fig.) *Harris*. *Entom. Corres.*, pp. 114, 174.  
 1869. Larva, (fig.) *Packard*. *Guide to Study of Ins.*, p. 304.  
 1886. Larva. *C. F. Goodhue*. *Canad. Entom.*, vol. 18, p. 58.  
 FOOD PLANT. *Syringa*.
- Agrotis c. nigrum.** Linn.  
 1829. Larva, pupa. *Stephens*. *Illns. Brit. Entom.*, *Haut.*, vol. 2, p. 136.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt., Moths*, vol. 1, p. 234.  
 1877. Larva. *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 89.  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 202.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 132.  
 1880. Larva. *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 184.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 192.  
 1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 133.
- Agrotis baja.** S. V.  
 1829. Larva. *Stephens*. *Illns. Brit. Entom.*, *Haut.*, vol. 2, p. 134.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt., Moths*, vol. 1, p. 237.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 191.
- Agrotis fennica.** Tansch.  
 1884. Larva. *J. Fletcher*. *Canad. Entom.*, vol. 16, p. 204.
- Agrotis subgothica.** Haw.  
 1869. Larva, (fig.) *Riley*. 1st *Missouri Rept.*, p. 81.  
 1877. Larva. *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 89.  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 204.

1877. Larva, (fig.) *Packard*. Half-hours with Insects, p. 22.  
 1879. Larva. *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 41.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 132.  
 1881. Larva. *F. W. Chase*. Trans. Wisconsin Agr. Soc., vol. 19, p. 482.  
 1883. Larva, (brief.) *Saunders*. Ins. Inj. Fruits, p. 328.
- Agrotis tricososa.** Lintner.  
 1869. Larva. *Riley*. 1st Missouri Rept., p. 82.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 132.
- Agrotis herilis.** Grote.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 90.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 205.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 133.
- Agrotis plecta.** Linn.  
 1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 2, p. 137.  
 1859. Larva. *H. T. Stainton*. Brit. Butt., Moths, vol. 1, p. 234.  
 1882. Larva, (col'd fig.) *W. F. Kirby*. Europ. Butt. and Moths, p. 194, pl. 36.
- Agrotis cupida.** Grote.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 15, Append., p. 136.
- Agrotis clandestina.** Harris.  
 1811. Larva. *Harris*, (quotes Melshimer in lit.) Ins. Inj. Vegetat., 1st edit., p. 325.  
 1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 79.  
 1871. Larva. *Saunders*. Canad. Entom., vol. 3, p. 35.  
 1876. *G. H. Perkins*. 2d Rept. Vermont Board Agr., p. 597.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 95.  
 1877. Larva. *French*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 15, p. 213.  
 1877. Larva. *Packard*. Inj. Ins. West, Hayden's Rept., p. 717.  
 1877. Larva, (fig.) *Packard*. Half-hours with Insects, p. 23.  
 1879. Larva, (fig.) *G. J. Bowles*, (quotes Riley.) Rept. Entom. Soc. Ontario, p. 44.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 135.  
 1883. Larva, (brief), (fig.) *Saunders*. Ins. Inj. Fruits, p. 108.  
 1884. Larva, (brief), (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 293, pl. 2, fig. 4.  
 1885. Larva, (fig.) *Lintner*. 44th Rept. N. York State Agr. Soc., p. 57.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 4.
- Agrotis messoria.** Harris.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 92.  
 1877. Larva, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 209.  
 1879. Larva, (fig.) *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 42.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 15, Append., p. 134.  
 1881. Larva, (fig.) *F. W. Chase*. Trans. Wisconsin Agr. Soc., vol. 19, p. 481.  
 1883. Larva, (fig.) *Riley*. Amer. Naturalist, vol. 17, p. 422.  
 1884. Larva, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 290, pl. 2, fig. 6.  
 1886. Life history, (figs.) *Riley*. Rept. Entom. U. S. Dept. Agr.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 13.
- Agrotis scandens.** Riley.  
 1868. Larva, (figs.) *Riley*. 1st Missouri Rept., p. 76.  
 1877. Larva. *French*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 15, p. 208.  
 1879. Larva. *G. J. Bowles*, (quotes Riley.) Rept. Entom. Soc. Ontario, p. 43.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 133.  
 1883. Larva, (fig.) *Riley*. Amer. Naturalist, vol. 17, p. 422.  
 1883. Larva, (fig.) *Saunders*. Ins. Inj. Fruits, p. 108.
- Agrotis pitychrous.** Grote.  
 1889. Larva. *W. Entenmüller*. Entom. Amer., vol. 5, p. 38.
- Agrotis tessellata.** Harris.  
 1863. Larva. *Fitch*, (as *A. maizii*.) 9th Rept. Ins. N. York, p. 801.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 91.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 206.  
 1879. Larva. *G. J. Bowles*, (quotes Fitch.) Rept. Entom. Soc. Ontario, p. 39.  
 1879. Larva. *W. A. Burkhout*. Agr. Pennsylv., p. 34.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 133.

**Agrotis declarata.** Walker.

1885. Larva. *Saunders*. Canad. Entom., vol. 17, p. 32.

**Agrotis malefida.** Guen.

1884. Life history, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 292, pl. 1, fig. 3.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 11.

**Agrotis cochranii.** Riley.

1869. Life history, (fig.) *Riley*. 1st Missouri Rept., p. 74.  
 1869. Larva. *Packard*. Guide to Study of Ins., p. 308.  
 1873. Larva, pupa, (figs.) *A. J. Cook*. 12th Rept. Michigan State Board Agr., p. 110.  
 1877. Larva, (fig.) *Packard*. Half-hours with Insects, p. 23.  
 1883. Larva, pupa, (brief.) *Saunders*. Ins. Inj. Fruits, p. 107.  
 1888. Larva, (fig.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 57.

**Agrotis annexa.** Tr.

1852. Larva. *Guen*. Spec. Gener. Noet., vol. 1, p. 268.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.  
 1882. Life history. *French*. Canad. Entom., vol. 14, p. 207.  
 1884. Life history, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 291, pl. 2, fig. 1.  
 1885. Larva, pupa, (figs.) *Lintner*. 44th Rept. N. York State Agr. Soc., p. 62.  
 1888. Larva, pupa, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 12.

**Agrotis ypsilon.** Rott. = *suffusa*. S. V.

1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 2, p. 149.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 223.  
 1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 80.  
 1869. Larva, (fig.) *Packard*. Guide to Study of Ins., p. 306.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 93.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 210.  
 1877. Larva, (figs.) *Packard*, (quotes Riley.) Inj. Ins. West, Hayden's Rept., p. 717.  
 1879. Larva. *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 40.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 134.  
 1883. Larva, (fig.) *Saunders*. Ins. Inj. Fruits, p. 327.  
 1884. Egg, larva, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 294, pl. 2, fig. 2.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 15.  
 1888. Larva, (fig.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 57.

**Agrotis islandica.** Standgr.

1873. Larva. *Packard*. In Hayden's Geol. Surv. Terr., p. 556.

**Agrotis saucia.** Hübn.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 224.  
 1869. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 72.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 94.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 211.  
 1879. Larva. *G. J. Bowles*, (quotes Riley.) Rept. Entom. Soc. Ontario, p. 41.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 134.  
 1880. Larva, (brief.) *Riley*. Amer. Entomologist, 2d series, vol. 1, p. 298.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 194.  
 1884. Life history, (brief.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 297, pl. 3, figs. 1, 2.

1885. Egg, (fig.) *Lintner*. 14th Rept. N. York State Agr. Soc., p. 59.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 452.  
 1888. Egg, larva, (figs.) *Lintner*. Bull. N. Y. State Museum, No. 6, pp. 8, 16.

**Agrotis lubricans.** Guen.

1880. Larva. *French*. Canad. Entom., vol. 12, p. 14.  
 1880. Larva. *French*. 6th Rept. Ill. Norm. Univer., p. 45.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 135.

**Agrotis prasina.** Fabr.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 271.

**Agrotis occulta.** Hübn.

1829. Larva. *Stephens*. Ill. Brit. Entom., Haust., vol. 3, p. 29.  
 1829. Larva, (col'd fig.) *Curtis*. Brit. Entom., vol. 6, pl. 218.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 271.  
 1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, vol. 1, pl. 21.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 207.

NOTE.—The food plants of the species of *Agrotis* are usually grasses and low herbaceous plants. Many of the species are omnivorous.

**Adita chionanthi.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 195, pl. 98.  
 FOOD PLANT. *Chionanthus virginica*.

**Mamestra adjuncta.** Boisd.

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 161.  
 1877. Larva, pupa. *L. W. Goodell*. Canad. Entom., vol. 9, p. 61.  
 1880. Larva. *J. Marten*, (quotes Goodell.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.  
 FOOD PLANT. *Solidago*.

**Mamestra assimilis.** Morrison.

1881. Larva. *L. W. Goodell*. Papilio, vol. 1, p. 15.  
 FOOD PLANT. *Solidago*

**Mamestra picta.** Harris.

1811. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 329.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 350.  
 1862. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 451.  
 1870. Life history, (fig.) *Riley*. 2d Missouri Rept., p. 112.  
 1871. Larva, (fig.) *Bethune*. Rept. Entom. Soc. Ontario, p. 426.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 137.  
 1876. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 14, p. 60.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 226.  
 1877. Larva, (fig.) *Packard*, (after Riley.) Inj. Ins. West. Hayden's Rept., p. 753.  
 1878. Larva, (fig.) *J. Stauffer*. Agr. Pennsylv., p. 239.  
 1879. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 17, Append., p. 51.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 185.  
 1883. Life history, (figs.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 124, pl. 1, fig. 3, and pl. 12, fig. 2.  
 1884. Larval stages. *Packard*. Amer. Naturalist, vol. 18.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 452.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 21.  
 FOOD PLANTS. Various.

**Mamestra grandis.** Boisd.

1883. Larva. *Thaxter*. Papilio vol. 3, p. 17.  
 FOOD PLANT. *Arctium lappa*.

**Mamestra subjuncta.** G. and R.

1869. Larva. *Riley*. 1st Missouri Rept., p. 85.

1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 44.  
 1879. Larva. *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 44.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.  
 FOOD PLANTS. *Crucifera*.

**Mamestra distincta.** Hübn.

1880. Larva. *French*. 6th Rept. Ill. Norm. Univ., p. 45.  
 1880. Larva, pupa. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.  
 FOOD PLANT. *Vitis*.

**Mamestra laudabilis.** Guen.

1852. Larva, pupa. *Guen.*, (quotes *Abbot* in lit.) Spec. Gener. Noct., vol. 2, p. 30.  
 FOOD PLANTS. *Leguminosæ*.

**Mamestra trifolii.** Rott.

1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 7.  
 1881. Larva. *French*. *Canad. Entom.*, vol. 13, p. 23.  
 1882. Larva. *W. F. Kirby*, (as *M. chenopodii*.) *Europ. Butt. and Moths*, p. 224.  
 1883. Life history, (figs.) *Riley*, (as *M. chenopodii*.) Rept. Entom. U. S. Dept. Agr., p. 124, pl. 1, fig. 5, and pl. 12, fig. 1, (as *M. trifolii*.)  
 1888. Larva, pupa, (figs.) *Lintner*. Bull. N. York State Museum, No. 6, p. 9.  
 FOOD PLANTS. *Chenopodiaceæ*.

**Mamestra renigera.** Steph.

1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 86.  
 1877. Larva, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 215.  
 1879. Larva, (brief.) *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 45.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.  
 1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 133.  
 FOOD PLANT. *Cichorium intybus*.

**Hadena devastatrix.** Brace.

- Larva. *Brace*. *Silliman's Jour. Sc. and Art*, vol. 1, p. 154.  
 1852. Larva. *Harris*, (quotes *Brace*.) *Ins. Inj. Vegetat.*, 2d edit., p. 345.  
 1862. Larva. *Harris*, (quotes *Brace*.) *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 445.  
 1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 83.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 96.  
 1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 216.  
 1879. Larva, (fig.) *G. J. Bowles*, (quotes *Harris*.) Rept. Entom. Soc. Ontario, p. 38.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.  
 1833. Larva, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 329.  
 1884. Life history, (brief.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 296, pl. 3, figs. 3, 4.  
 1885. Larva, (fig.) *Lintner*. 44th Rept. N. York State Agr. Soc., p. 58.  
 1888. Larva, (fig.) *Lintner*. Bull. N. York State Museum, No. 6, p. 5.  
 FOOD PLANTS. *Crucifera*, (chiefly).

**Hadena arctica.** Boisd.

1852. Larva. *Harris*, (as *H. amica*.) *Ins. Inj. Vegetat.*, 2d edit., p. 339.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 425.  
 1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 450.  
 1865. Larva. *B. D. Walsh*. *Præ. Entom.*, p. 22.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 316.  
 1869. Egg. *Minot*. *Canad. Entom.*, vol. 2, p. 28.  
 1870. Larva. *Saunders*. *Canad. Entom.*, vol. 2, p. 75.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 96.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 217.  
 1879. Larva. *G. J. Bowles*, (quotes *Harris*.) Rept. Entom. Soc. Ontario, p. 39.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.

**Hadena remissa.** Hübn.1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 233.**Hadena turbulenta.** Hübn.1888. Larva. *W. Beutenmüller.* Canad. Entom., vol. 20, p. 136.FOOD PLANT. *Smilar.***Dipterygia scabriuscula.** Linn.1829. Larva, pupa. *Stephens.* Illus. Brit. Entom., Haust., vol. 2, p. 168.1852. Larva. *Guen.* Spec. Gener. Noct., vol. 1, p. 147.1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 1, p. 201.1859. Larva. *Humphreys.* Gen. Brit. Moths, p. 44.1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 237.FOOD PLANT. *Rumer.***Hyppa xylinoides.** Guen.1869. Life history. *Saunders.* Canad. Entom., vol. 2, p. 33.1888. Larva, (brief.) *Lintner.* 4th Rept. State Entom., p. 138.

FOOD PLANTS. Various.

**Polia vorax.** Behrens.1884. Larva, (brief.) *J. Behrens.* Papilio, vol. 4, p. 21.**Laphygma frugiperda.** Abb.—Sm.1796. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 191, pl. 96.1852. Larva. *Guen.* (quotes Abbot.) Spec. Gener. Noct., vol. 1, p. 159.1871. Egg, larva, (figs.) *Riley.* 3d Missouri Rept., p. 112.1876. Larva, (fig.) *Riley.* 8th Missouri Rept., p. 48.1877. Larva. *C. Thomas.* Trans. Dept. Agr. Ill., vol. 15, p. 97.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 219.1880. Larva, (fig.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.1885. Egg, larva, (fig.) *Hubbard.* Ins. Affecting Oranges, p. 150.1885. Larva, pupa. *Gundlach.* Entom. Cubana, p. 288.1888. Larva, (fig.) *Lintner.* Bull. N. York State Museum, No. 6, p. 14.FOOD PLANTS. *Cereals, etc.***Prodenia phytolaccæ.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 193, pl. 97.FOOD PLANT. *Phytolacca.***Prodenia commelinæ.** Abb.—Sm.1796. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 189, pl. 95.1852. Larva. *Guen.* (quotes Abb.—Sm.) Spec. Gener. Noct., vol. 1, p. 162.1871. Larva, (fig.) *Riley.* 3d Missouri Rept., p. 113.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 220.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.FOOD PLANTS. *Cereals.***Prodenia lincatella.** Harvey.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 139.1881. Larva. *French.* Canad. Entom., vol. 13, p. 21.FOOD PLANTS. *Rubus, Tragopogon, etc.***Euplexia lucipara.** Linn.1829. Larva. *Stephens.* Illus. Brit. Entom., Haust., vol. 3, p. 4.1836. Larva, (col'd fig.) *Curtis.* Brit. Entom., vol. 13, pl. 619.1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 68.1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 1, p. 270.1859. Larva, (col'd fig.) *Humphreys.* Gener. Brit. Moths, vol. 1, pl. 20.1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 237.1883. Larva. *Edwards—Elliot.* Papilio, vol. 3, p. 133.FOOD PLANTS. *Fiburnum, Betula, etc.***Nephelodes minians.** Guen.1877. Larva. *C. Thomas.* Trans. Dept. Agr. Ill., vol. 15, p. 99.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 220.



1878. Larva. *French*. *Canad. Entom.*, vol. 10, p. 61.

1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 139.

FOOD PLANTS. *Polygonaceæ*, *Gramineæ*.

**Nephelodes violans.** Guen.

1888. Larva. (fig.) *Lintner*. 4th Rept. State Entom. N. York, p. 54.

**Apamea nictitans.** Bkh.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 1, p. 197.

1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 180.

FOOD PLANTS. *Gramineæ*.

**Apamea immanis.** Guen.

1884. Larva, pupa, (fig.) *T. J. Edge*. *Agr. Pennsylv.*, p. 106.

1885. Egg, larva. *Lintner*. 2d Rept. N. York State Entom., p. 42.

**Gortyna Harrisii.** Gr. = *leucostigma*.

1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 320.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 311.

1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 440.

FOOD PLANT. *Aquilegia*.

**Gortyna nitela.** Guen.

1869. Larval stages, (figs.) *Riley*. 1st Missouri Rept., p. 92.

1869. Larva, (fig.) *Packard*. *Guide to Study of Ins.*, p. 310.

1872. Larva, (fig.) *Le Baron*. 3d Illinois Rept., p. 141.

1876. Larva, (fig.) *G. H. Perkins*. 3d Rept. Vermont Board Agr., p. 556.

1877. Larva, pupa. *Emily A. Smith*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 113.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 221.

1877. Larva. *Packard*. *Inj. Ins. West. Hayden's Rept.*, p. 719.

1879. Larva, (fig.) *Lintner*. *Rept. N. York State Agr. Soc.*, p. 50.

1879. Larva, (fig.) *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 17, Append., p. 142.

1880. Larva, (fig.) *Emily A. Smith*. 7th Illinois Rept., p. 112.

1880. Larva, (fig.) *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 151.

1880. Larva, (fig.) *A. Fuller*, (after *Riley*.) *Amer. Entom.*, 2d ser., vol. 1, p. 201.

1883. Larva, (fig.) *S. A. Forbes*. *Trans. Wisconsin Agr. Soc.*, p. 11.

1883. Larva, (fig.) *Saunders*. *Ins. Inj. Frnits*, p. 334.

1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 451.

FEEDS in stems of various plants.

**Achatodes Zeæ.** Harris.

1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 319.

1843. Larva. *Willis Gaylord*. *Trans. N. York State Agr. Soc.*, p. 150.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 339.

1862. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 438.

1867. Larva. *Tenney*. *Nat. Hist.*, p. 406.

1869. Larva. *Packard*. *Guide to Study of Ins.*, p. 311.

1877. Larva. *Packard*, (quotes *Harris*.) *Inj. Ins. West. Hayden's Rept.*, p. 719.

1877. Larva. *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 100.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 222.

1879. Larva, pupa. *W. A. Burkhart*, (quotes *Harris*.) *Agr. Pennsylv.*, p. 35.

1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 134.

FEEDS in stems of *Sambucus*, *Zea*, etc.

**Arzama obliquata.** G. and R.

1878. Larva. *C. E. Worthington*. *Canad. Entom.*, vol. 10, p. 15.

1888. Life history, (brief.) *H. H. Brehme*. *Canad. Entom.*, vol. 20, p. 119.

FEEDS in stems of *Typha latifolia*.

**Arzama melanopyga.** Grote.

1881. Larva. *J. H. Comstock*. *Papilio*, vol. 1, p. 147.

FEEDS in stalks of *Nymphæa*.

**Scolecocampa liburna.** Geyer.

1852. Larva, (col'd fig.) *Guen.* (after Abbot, MS.) *Spec. Gener. Noct.*, vol. 1, p. 131, pl. 2, (as *S. ligni*.)

1878. Larva. *W. F. Anilcurs.* *Psyche*, vol. 2, p. 272.

1883. Larva. *Edwards—Elliot.* *Papilio*, vol. 3, p. 134.

FEEDS in decaying stumps of Chestnut and other trees.

**Euthisanotia timais.** Cramer.

1852. Larva, (col'd fig.) *Guen.*, (after Abbot, MS.) *Spec. Gener. Noct.*, vol. 1, p. 116, pl. 2.

1857. Larva, (fig.) *Chenu—Demarets.* *Encycl. Hist. Nat. Papillons*, vol. 2, p. 111.

1886. Larva, pupa. *Gaundlach.* *Entom. Cubana*, p. 304.

FOOD PLANT. *Pancreatium*.

**Monodes nucicolora.** Guen.

1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 1, p. 241.

FOOD PLANTS. Various low herbs.

**Heliophila pallens.** Linn.

1829. Larva. *Stephens.* *Illus. Brit. Entom.*, *Haust.*, vol. 3, p. 76.

1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 1, p. 93.

1857. Larva. *Chenu—Demarets.* *Encycl. Hist. Nat. Papillons*, vol. 2, p. 76.

1859. Larva. *H. T. Stainton.* *Brit. Butt. and Moths*, vol. 1, p. 190.

1882. Larva. *W. F. Kirby.* *Europ. Butt. and Moths*, p. 160.

FOOD PLANTS. *Graminea*.

**Heliophila albilinea.** Hübn.

1877. Life history, (figs.) *Riley.* 9th Missouri Rept., p. 50.

1877. Larva. *French*, (quotes *Riley*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 223

1880. Larva. *D. Coquillett.* *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 186.

FOOD PLANTS. *Cercals*.

**Heliophila phragmitidicola.** Guen.

1880. Larva. *French.* 6th Rept. Ill. State Norm. Univ., p. 46.

1880. Larva. *D. Coquillett.* *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 186.

FOOD PLANTS. *Graminea*.

**Heliophila pseudargyria.** Guen.

1874. Larva. *Caulfield.* *Canad. Entom.*, vol. 6, p. 132.

1880. Larva. *J. Marten.* *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 139.

1881. Larva. *French.* *Canad. Entom.*, vol. 13, p. 24.

FOOD PLANTS. *Graminea*.

**Heliophila unipuncta.** Haworth.

1860. Larva. *J. Kirkpatrick.* *Agr. Rept. Ohio*.

1860. Larva, pupa, (fig.) *B. D. Walsh.* *Trans. Ill. Agr. Soc.*, vol. 4, pp. 350, 366.

1861. Larva, pupa. *Packard.* 6th Rept. Maine Board Agr., p. 132.

1862. Life history, (brief.) *Harris.* *Ins. Inj. Vegetat.* *Flint's edit.*, p. 627.

1865. Larva, pupa, (figs.) *B. D. Walsh.* *Trans. Ill. Agr. Soc.*, vol. 5, p. 482.

1869. Larva. *Packard.* *Guide to Study of Ins.*, p. 305.

1870. Life history, (figs.) *Riley.* 2d Missouri Rept., p. 37.

1870. Larva, (fig.) *T. Glover.* *Rept. U. S. Dept. Agr.*, p. 83.

1871. Life history, (figs.) *Bethune.* *Rept. Entom. Soc. Ontario*, p. 402.

1875. Larva, pupa, (figs.) *A. J. Cook.* 11th Rept. Michigan Agr. Soc., p. 280.

1876. Larva, (brief.) *Saunders.* *Rept. Entom. Soc. Ontario*, p. 39.

1876. Egg, larva, pupa, (figs.) *Riley.* 8th Missouri Rept., pp. 32, 183.

1876. Larva, (brief.) *C. Thomas.* *Trans. Dept. Agr. Ill.*, vol. 14, p. 56.

1877. Larva. *C. Thomas.* *Trans. Dept. Agr. Ill.*, vol. 15, p. 81.

1877. Larva, pupa, (fig.) *C. Thomas.* *Trans. Dept. Agr. Ill.*, vol. 15, p. 101.

1877. Larva, pupa. *French.* *Trans. Dept. Agr. Ill.*, vol. 15, p. 224.

1877. Larva. *Packard.* *Half-hours with Insects*, pp. 184, 217.

1877. Life history, (figs.) *Packard*, (quotes *Riley* and others.) *Inj. Ins. West*, *Hayden's Rept.*, p. 609.

1877. Egg, larva, pupa, (figs.) *Riley*. Rept. Massachusetts Board Agr., p. 246.  
 1879. Egg, larva, pupa, (figs.) *J. H. Comstock*. Rept. U. S. Dept. Agr., p. 187.  
 1880. Larva, pupa, (figs.) *Riley*. Amer. Entom., 2d ser., vol. 1, p. 170.  
 1880. Life history, (figs.) *Riley*. 3d Rept. Entom. Comm., p. 89.  
 1880. Larva, (fig.) *J. Fletcher*. Rept. Entom. Soc. Ontario, p. 67.  
 1880. Larva, pupa, (figs.) *C. Thomas*. Trans. Dept. Agr. Ill., vol. 18, Append., pp. 5, 43.  
 1883. Larva, pupa, (figs.) *T. J. Edge*. Agr. Pennsylv., p. 73.  
 1885. Egg, larva, (fig.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 451.  
 1885. Life history, (col'd figs.) *Riley*. 4th Rept. Entom. Comm.  
 1887. Larva, (fig.) *Fletcher*. Rept. Entom. Dept. Agr. Can., p. 11.  
 1888. Larva, (fig.) *J. Fletcher*. Rept. Entom. Bot. Dept. Agr. Canada, p. 11.  
 FOOD PLANTS. *Gramineæ*.

**Pyrophila fragopoginis.** Linn.

1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 2, p. 165.  
 1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 416.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 311.  
 1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, p. 44, pl. 17.  
 1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 73.  
 1871. Larva. *Saunders*, (as *A. depressus*.) Canad. Entom., vol. 3, p. 193.  
 1871. Larva. *Saunders*, (as *A. depressus*.) Rept. Entom. Soc. Ontario, p. 360.  
 1883. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 275.  
 FOOD PLANTS. Various.

**Pyrophila pyramidoides.** Guen., (and vars.)

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 414.  
 1871. Larva, (figs.) *Riley*. 3d Missouri Rept., pp. 73, 75.  
 1871. Larva, (figs.) *Le Baron*, (after *Riley*.) 2d Ill. Rept., p. 56.  
 1871. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 360.  
 1874. Larva. *Saunders*. Canad. Entom., vol. 6, p. 27.  
 1875. Larva. *Saunders*. Canad. Entom., vol. 7, p. 14.  
 1877. Larva, cocoon, pupa, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 225.  
 1878. Larva. *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 273.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 180.  
 1883. Larva, pupa, (fig.) *Saunders*. Ins. Inj. Fruits, p. 274.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 450.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.

**Tæniocampa incerta.** Hübn.

1852. Larva. *Guen.*, (as *T. hibisci*.) Spec. Gener. Noct., vol. 1, p. 355.  
 1856. Larva. *Fitch*, (as *Orth. instabilis*.) 3d Rept. Ins. N. York, p. 313.  
 1859. Larva. *H. T. Stainton*, (as *Orth. instabilis*.) Brit. Butt. and Moths, vol. 1, p. 243.  
 FOOD PLANTS. *Quercus*, *Salix*, *Prunus*.

**Totheca tranquilla.** Grote.

1878. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., June.  
 FOOD PLANT. *Sambucus*,

**Calymnia orina.** Guen.

1873. Larva. *Saunders*. Canad. Entom., vol. 5, p. 206.  
 1881. Larva. *Packard*, (quotes *Saunders*.) Ins. Inj. Forest Trees, p. 47.  
 FOOD PLANT. *Quercus*.

**Scoliopteryx libatrix.** Linn.

1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 3, p. 50.  
 1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 406.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 309.  
 1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, pl. 25.  
 1860. Larva, (brief.) *Duncan*. Natural. Library, vol. 30, p. 232.  
 1872. Larva, (fig.) *J. G. Wood*. Insects at Home, p. 484.

1881. Larva. *D. Coquillett*. Papilio, vol. 1, p. 56.  
 1882. Larva, pupa, (brief.) *W. F. Kirby*. Europ. Butt. and Moths, p. 185.  
 FOOD PLANT. *Salix*.
- Scopelosoma devia.** Grote.  
 1881. Life history. *Thaxter*. Canad. Entom., vol. 16, p. 33.  
 FOOD PLANT. *Quercus*.
- Scopelosoma morrisonii.** Grote.  
 1881. Life history. *Thaxter*. Canad. Entom., vol. 16, p. 30.  
 FOOD PLANT. *Quercus*.
- Scopelosoma vinulenta.** Grote.  
 1881. Life history. *Thaxter*. Canad. Entom., vol. 16, p. 32.  
 FOOD PLANTS. *Quercus, Azalea*.
- Scopelosoma walkeri.** Grote.  
 1881. Life history. *Thaxter*. Canad. Entom., vol. 16, p. 31.  
 FOOD PLANT. *Quercus*.
- Scopelosoma tristigmata.** Grote.  
 1881. Life history. *Thaxter*. Canad. Entom., vol. 16, p. 33.  
 FOOD PLANT. *Quercus*.
- Scopelosoma moffatiana.** Gr.  
 1888. Larva. *R. F. Pearsall*. Entom. Amer., vol. 4, p. 59.
- Lithophane antennata.** Walker. = *cinerea*.  
 1871. Life history, (fig's.) *Riley*. 3d Missouri Rept., p. 135.  
 1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 227.  
 1883. Larva, (fig's.) *Sauunders*. Ins. Inj. Fruits, p. 138.  
 FOOD PLANT. Various fruit trees and fruits.
- Lithophane laticinerea.** Grote.  
 1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 135.  
 FOOD PLANT. *Cerasus*.
- Calocampa nupera.** Lintner.  
 1878. Larva. *Thaxter*. Psyche, vol. 2, p. 122.
- Calocampa curvimacula.** Morrison.  
 1878. Larva. *Thaxter*. Psyche, vol. 2, p. 122.
- Cucullia convexipennis.** G. and R.  
 1869. Larva. *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 215.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 138.  
 FOOD PLANT. *Solidago*.
- Cucullia asterioides.** Guen.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 139.  
 FOOD PLANT. *Solidago*.
- Cucullia intermedia.** Speyer.  
 1869. Larva, pupa, (fig.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 213.  
 FOOD PLANT. Various species of *Compositae*.
- Adipsophanes miscellus.** Grote.  
 1880. Larva. *D. Coquillett*. N. Amer. Entom., No. 7, p. 52.  
 1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 180.  
 FOOD PLANT. *Verbena*.
- Crambodes talidiformis.** Guen.  
 1880. Larva. *D. Coquillett*. N. Amer. Entom., No. 7, p. 52.  
 1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 180.  
 1883. Larva, cocoon. *Edwards—Elliot*. Papilio, vol. 3, p. 135.  
 FOOD PLANT. *Verbena*.
- Nolaphana malana.** Fitch.  
 1855. Larva. *Fitch*. 2d Rept. Ins. N. York, p. 242.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 343.  
 1877. Larva. *Packard*. Half-hours with Insects, p. 181.

1883. Larva, cocoon. *Saunders*. Ins. Inj. Fruits, p. 101.

FOOD PLANT. *Pyrus*, (*apple*.)

**Anomis erosa.** Hübn.

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 395.

1885. Life history, (col'd figs.) *Riley*. 4th Rept. Entom. Comm.

1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 321.

FOOD PLANT. *Urena lobata*.

**Aletia argillacea.** Hübn.

1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 356.

1855. Egg, larva, pupa. *T. Glover*. Trans. N. York State Agr. Soc., p. 71.

1857. Larva, pupa. *Fitch*. 4th Rept. Ins. N. York.

1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 457.

1869. Larva. *Packard*. Guide to Study of Ins., p. 313.

1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 38.

1875. Larva, pupa. *Grote*. Rept. Geol. Alabama, p. 199.

1877. Egg, larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 228.

1877. Egg, larva, (figs.) *Packard*, (quotes *Riley* and *Grote*.) Inj. Ins. West, Hayden's Rept., p. 775.

1877. Egg, larva, (fig.) *Packard*. Half-hours with Insects, p. 221.

1879. Egg, larva, pupa, (col'd figs.) *J. H. Comstock*. Rept. on Cotton Ins., Dept. Agr., p. 75.

1880. Larva, pupa, (figs.) *Riley*. Amer. Entom., 2d series, vol. 1, p. 6.

1885. Life history, (col'd figs.) *Riley*. 4th Rept. U. S. Entom. Comm.

1885. Egg, larva. *Fernald*. Kingsley's Staud. N. Hist., vol. 2, p. 450.

FOOD PLANTS. *Malvaceæ*.

**Ingura præpilata.** Grote.

1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 135.

FOOD PLANT. *Liquidambar styraciflua*.

**Ingura delineata.** Guen.

1852. Larva. *Guen.*, (after Abb., MS.) Spec. Gener. Noct., vol. 2, p. 311.

1852. Larva, pupa. *Guen.* Spec. Gener. Noct., vol. 3, p. 397.

FOOD PLANT. *Tabernamontana laurifolia*.

**Calpe canadensis.** Bethune.

1878. Larva. *Thaxter*. Psyche, vol. 2, p. 123.

1880. Larva. *D. Coquillett*. Canad. Entom., vol. 12, p. 41.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.

1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 172.

FOOD PLANT. *Thalictrum cornutum*.

**Telesilla cinereola.** Guen.

1880. Larva. *D. Coquillett*. N. Amer. Entom., No. 7, p. 52.

1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 180.

FOOD PLANT. *Ambrosia*.

**Hypsoropha hormos.** Hübn.

1852. Larva. *Guen.* Spec. Gener. Noct. vol. 2, p. 403.

FOOD PLANT. *Diospyros virginiana*.

**Plusia aereoides.** Grote.

1876. Larva, pupa. *Thaxter*. Psyche, vol. 1, p. 188.

FOOD PLANT. *Spiraea salicifolia*.

**Plusia balluca.** Geyer.

1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 29.

1872. Cocoon, pupa. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 163.

1873. Larva. *Saunders*. Canad. Entom., vol. 5, p. 10.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 228.

**Plusia contexta.** Grote.

1883. Life history. *Thaxter*. Papilio, vol. 3, p. 18.

FOOD PLANTS. *Gramineæ*.

**Plusia putnami.** Grote.1883. Larva, (brief). *Thaxter*. *Papilio*, vol. 3, p. 19.**Plusia dyaus.** Grote.1885. Larva, pupa. *Lintner*. 2d Rept. State Entom. N. York, p. 94.**Plusia precatationis.** Guen.1869. Larva. *Packard*. Guide to Study of Ins., p. 312.1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.1881. Life history. *D. Coquillett*. Canad. Entom., vol. 13, p. 21.FOOD PLANTS. *Plantago*, *Arctium*, *Taraxacum*, etc.**Plusia brassicæ.** Riley.1870. Larva, pupa, (figs.) *Riley*. 2d Missouri Rept., p. 110.1871. Larva, pupa, (figs.) *Bethune*. Rept. Entom. Soc. Ontario, p. 247.1877. Larva, cocoon, pupa, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 752.1877. Larva. *French*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 15, p. 230.1879. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 17, p. 11.1880. Larva, cocoon, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 140.1883. Life history, (figs.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 119, pl. 11, figs. 2, 5.1885. Larva, pupa, (fig.) *Lintner*. 2d Rept. State Entom. N. York, p. 90.FOOD PLANTS. *Brassica* and other *Crucifera*.**Plusia hohenwarthii.** Hoch.1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 266.**Plusia devergens.** Hübn.1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 266.**Ararta cordigera.** Thurb.1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 293.FOOD PLANT. *Vaccinium*.**Chloridea rhexiæ.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 199, pl. 100.1852. Larva. *Guen*. Spec. Gener. Noct., vol. 2, p. 175.1858. Larva. *Duncan*. Natural. Library, vol. 22, p. 199.1880. Larva. *French*. 6th Rept. Ill. State Norm. Univ., p. 46.1880. Larva. *Riley*. Amer. Entom., 2d series, vol. 1, p. 7.1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 310.FOOD PLANTS. *Rhexia Virginica*, *Scsatum*, *Nicotiana*.**Alaria gauræ.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 197, pl. 99.1852. Larva. *Guen*. Spec. Gener. Noct., vol. 2, p. 170.1858. Larva, (col'd fig.) *Duncan*, (quotes A. and S.) Natural. Library, vol. 22, p. 200, pl. 24.FOOD PLANT. *Gaura biennis*.**Rhodophora florida.** Guen.1867. Larva. *Fitch*. 12th Rept. N. York State Agr. Soc., p. 900.1869. Larva. *Saunders*. Canad. Entom., vol. 2, p. 6.1871. Egg, young larva. *Saunders*. Canad. Entom., vol. 3, p. 76.1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 150.FOOD PLANT. Flowers of *Eurothera biennis*.**Heliothis phlogophagus.** G. and R. (and vars.)1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 230.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 56.FOOD PLANTS. *Gramineæ*.

**Heliothis armigera.** Hübn.

1855. Egg, larva, pupa. *T. Glover.* Trans. N. York State Agr. Soc., p. 99.  
 1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 1, p. 292  
 1871. Egg, larva, (fig.) *Riley.* 3d Missonri Rept., p. 105.  
 1877. Egg, larva. *Packard.* Half-hours with Ins., p. 224.  
 1877. Larva. *Packard.* Inj. Ins. West, Hayden's Rept., p. 778.  
 1877. Larva. *C. Thomas.* Trans. Dept. Agr. Ill., vol. 15, p. 103.  
 1877. Larva, pupa. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 232.  
 1879. Life history, (col'd figs.) *J. H. Comstock.* Rept. Cotton Ins. Dept. Agr., p. 297.  
 1880. Egg, larva, cocoon, pupa, (figs.) *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 150.  
 1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 225.  
 1883. Larva, cocoon, pupa, (figs.) *S. S. Rathron.* Agr. Pennsylv., p. 238.  
 1885. Life history, (col'd figs.) *Riley.* 4th Rept. (U. S.) Entom. Comm.  
 1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 309.  
 FOOD PLANTS. *Cotton, Reseda.*

**Pyrrhia exprimens.** Hübn.

1872. Larva. *Lintner.* 26th Rept. N. York State Cab. N. Hist., p. 163.  
 1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 233.  
 1883. Larva, pupa. *Edwards—Elliot.* Papilio, vol. 3, p. 135.  
 FOOD PLANT. *Desmodium.*

**Pyrrhia angulata.** Grote.

1881. Larva. *Coquillett.* Papilio, vol. 1, p. 8.  
 FOOD PLANT. *Polygonum.*

**Tarache erastrioides.** Guen.

1881. Larva. *Coquillett.* Papilio, vol. 1, p. 8.  
 1883. Larva, (brief.) *Coquillett.* Papilio, vol. 3, p. 84.  
 FOOD PLANT. *Ambrosia.*

**Tarache candefacta.** Hübn.

1852. Larva, (col'd fig.) *Cuen.* W. Spec. Gener. Noct., vol. 2, p. 26, pl. 2.  
 1883. Larva, (brief.) *Coquillett.* Papilio, vol. 3, p. 84.  
 FOOD PLANT. *Ambrosia.*

**Tarache delecta.** Walk.

1870. Larva, pupa, (fig.) *Packard,* (as *Acon. metallica*, after *Abbot.*) Amer. Naturalist, vol. 4, p. 229.  
 1888. Larva. *A. C. Weeks.* Entom. Amer., vol. 4, p. 46.  
 FOOD PLANT. *Hibiscus moschentos.*

**Chamyris cerintha.** Tr.

1881. Larva. *Coquillett.* Papilio, vol. 1, p. 56.  
 FOOD PLANT. *Pyrus.*

**Eustrotia carneola.** Guen.

1881. Larva. *Coquillett.* Papilio, vol. 1, p. 7.  
 FOOD PLANT. *Rumex.*

**Xanthoptera semicrocea.** Guen.

1852. Larva, (col'd fig.) *Guen.,* (after *Abb., M. S.*) Spec. Gener. Noct., pl. 2.  
 1869. Larva. *Packard.* Guide to Study of Ins., p. 316.  
 1874. Life history, (figs.) *Riley.* Canad. Entom., vol. 6, p. 208.  
 FOOD PLANT. *Sarracenia.*

**Exyra rolandiana.** Grote.

1877. Larva. *Thaxter.* Psyche, vol. 2, p. 39.  
 FOOD PLANT. *Sarracenia.*

**Drasteria erechtea.** Cram.

1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 4.  
 1869. Larva, (fig.) *Harris.* Entom. Corres., pp. 175, 318.  
 1869. Larva. *Packard.* Guide to Study of Ins., p. 317.

1875. Larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 37.  
 1875. Egg. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.  
 1875. Larva. *Saunders*. Canad. Entom., vol. 7, p. 116.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 233.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.  
 1882. Larva. *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 17.  
 1884. Life history. *French*. Papilio, vol. 4, p. 148.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 149.  
 FOOD PLANT. *Trifolium*.

**Syneda graphica.** Hübn.

1852. Larva, (col'd fig.) *Guen.*, (after Abb., MS.) Spec. Gener. Noct., vol. 3, p. 72, pl. 2.

**Catocala epione.** Drury.

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 93.  
 FOOD PLANT. *Quercus*.

**Catocala desperata.** *Guen.* = *vidua*. Abb.-Sm.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins Georgia, p. 181, pl. 91.  
 1852. Larva. *Guen.*, (quotes Abb.-Sm.) Spec. Gener. Noct., vol. 3, p. 95.  
 1888. Life history. *French*. Canad. Entom., vol. 20, p. 28.  
 FOOD PLANTS. *Carya*, *Quercus*.

**Catocala flebilis.** Grote.

1881. Larva, pupa. *D. Kellicott*. Papilio, vol. 1, p. 141.  
 FOOD PLANT. *Carya*.

**Catocala relicta.** Walk.

1888. Life history. *Howard L. Clark*. Canad. Entom., vol. 20, p. 17.  
 FOOD PLANT. *Salix*.

**Catocala amatrix.** Hübn.

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 86.  
 1881. Larva, (brief.) *Ph. Fischer*. Bull. Buffalo Soc. Nat. Hist., vol. 4, p. 62.  
 1881. Larva, pupa. *D. Kellicott*. Papilio, vol. 1, p. 142.  
 1884. Life history. *French*. Papilio, vol. 4, p. 8.  
 FOOD PLANT. *Populus*.

**Catocala cara.** *Guen.*

1881. Larva. *A. Koebel*, (as *C. carissima*.) Bull. Brooklyn Entom. Soc., vol. 4, p. 22.  
 FOOD PLANT. *Salix*.

**Catocala concumbens.** Walker.

1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 29.  
 FOOD PLANT. *Salix*.

**Catocala meskei.** Grote.

1883. Larva. *R. Bunker*. Canad. Entom., vol. 15, p. 100.  
 FOOD PLANT. *Populus*.

**Catocala unijuga.** Walker.

1881. Larva. *D. Kellicott*. Canad. Entom., vol. 13, p. 38.  
 FOOD PLANT. *Populus*.

**Catocala parta.** *Guen.*

1883. Larva. *Hy. Edwards*. Papilio, vol. 3, p. 24.  
 FOOD PLANT. *Salix*.

**Catocala innubens.** *Guen.*

1888. Life history. *French*. Canad. Entom., vol. 20, p. 170.

**Catocala coccinata.** Grote.

1881. Larva. *D. W. Coquillett*. Papilio, vol. 1, p. 56.  
 FOOD PLANT. *Quercus*.

**Catocala ultronia.** Hübn.

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 89.  
 1869. Larva. *Packard*. Guide to Study of Ins., p. 317.



1874. Larva. *Saunders*. *Canad. Entom.*, vol. 6, p. 147.  
 1879. Larva, pupa, (brief.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 74.  
 1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 177.  
 FOOD PLANTS. *Praunus*, *Cornus*, *Quercus*.
- Catocala ilia.** Cram.  
 1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 3, p. 92.  
 1875. Larva. *Caulfield*. *Canad. Entom.*, vol. 7, p. 208.  
 1881. Larva. *A. Koebele*. *Bull. Brooklyn Entom. Soc.*, vol. 4, p. 22.  
 1884. Life history. *French*. *Canad. Entom.*, vol. 16, p. 12.  
 FOOD PLANT. *Quercus*.
- Catocala zoe.** Behr.  
 1870. Larva, (brief.) *Behr*. *Trans. Amer. Entom. Soc.*, p. 21.  
 FOOD PLANT. *Quercus*.
- Catocala neogama.** Abb.—Sm.  
 1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, pl. 88.  
 1852. Larva. *Guen.*, (quotes Abb.—Sm.) *Spec. Gener. Noct.*, vol. 3, p. 96.  
 1858. Larva, (col'd fig.) *Duncan*. *Natural. Library*, vol. 27, p. 203, pl. 26.  
 FOOD PLANT. *Quercus*.
- Catocala palæogama.** Guen.  
 1888. Life history. *French*. *Canad. Entom.*, vol. 20, p. 108.  
 FOOD PLANT. *Carya*.
- Catocala muliercula.** Guen.  
 1852. Larva, (col'd fig.) *Guen.*, (after Abb., M. S.) *Spec. Gener. Noct.*, vol. 3, p. 97, pl. 2.  
 FOOD PLANTS. *Myrtaceæ*.
- Catocala concors.** Abb.—Sm.  
 1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 177, pl. 89.  
 1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 3, p. 99.  
 FOOD PLANTS. *Myrtaceæ*, *Leguminosæ*.
- Catocala polygama.** Guen.  
 1869. Larva. *E. B. Reed*. *Canad. Entom.*, vol. 2, p. 30.  
 1876. Larva. *Saunders*. *Canad. Entom.*, vol. 8, p. 74.  
 FOOD PLANT. *Cratægus*.
- Catocala cratægi.** Saunders.  
 1876. Larva. *Saunders*. *Canad. Entom.*, vol. 8, p. 72.  
 FOOD PLANT. *Cratægus*.
- Catocala amasia.** Abb.—Sm.  
 1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 179, pl. 90.  
 1852. Larva. *Guen.*, (quotes Abb.—Sm.) *Spec. Gener. Noct.*, vol. 3, p. 104.  
 1858. Larva. *Duncan*. *Natural. Library*, vol. 22, p. 205.  
 FOOD PLANT. *Melia azedarach*.
- Catocala fratercula.** G. and R.  
 1881. Larva. *Coquillett*. *Papilio*, vol. 1, p. 7.  
 FOOD PLANT. *Quercus*.
- Catocala grynea.** Cram.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 183.  
 1881. Larva. *A. Koebele*. *Bull. Brooklyn Entom. Soc.*, vol. 4, p. 22.  
 FOOD PLANT. *Pyrus*.
- Catocala amica.** Hübn.  
 1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 3, p. 106.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 182.  
 1881. Larva. *Coquillett*. *Papilio*, vol. 1, p. 7.  
 FOOD PLANT. *Quercus*.
- Parthenos nubilis.** Hübn.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 319.  
 FOOD PLANT. *Robinia*.

- Allotria elonympha.** Hübn.  
1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 37.  
FOOD PLANTS. *Juglans, Glycine.*
- Parallelia bistriaris.** Hübn.  
1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 268.  
1870. Larva. *Saunders.* Canad. Entom., vol. 2, p. 130.  
1881. Larva. *Packard.* Ins. Inj. Forest Trees, p. 113.  
1883. Larva. *Edwards—Elliot.* Papilio, vol. 3, p. 136.  
FOOD PLANT. *Acer rubrum.*
- Agnomonía anilis.** Hübn.  
1852. Larva, pupa. *Guen.* Spec. Gener. Noct., vol. 3, p. 274.  
FOOD PLANT. *Chironia.*
- Panopoda roseicosta.** Guen.  
1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 325.  
FOOD PLANT. *Juglans.*
- Remigia latipes.** Guen.  
1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 315.  
1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 354.  
FOOD PLANT. *Hypericum.*
- Poaphila flavistriaria.** Hübn.  
1852. Larva, pupa, (col'd figs.) *Guen.* Spec. Gener. Noct., vol. 3, p. 302, pl. 2.  
FOOD PLANT. *Scutellaria.*
- Poaphila sylvarum.** Guen.  
1852. Larva. *Guen.*, (from Abb., MS.) Spec. Gener. Noct., vol. 3, p. 300.  
FOOD PLANT. *Andromeda ferruginæ.*
- Poaphila quadrifilaris.** Hübn.  
1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 300.  
FOOD PLANT. *Gossypium.*
- Erebus odora.** Linn.  
1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 367.  
1887. Larva, (brief.) *H. T. Fernald.* Entom. Amer., vol. 3, p. 78.  
1888. Egg, young larva. *H. T. Fernald,* (quotes Wm. Blake in MS.) Entom. Amer., vol. 4, p. 36.  
FOOD PLANTS. *Cassia fistula, Pithecolobium, Samun.*
- Pheocyma lunifera.** Hübn.  
1886. Larva, pupa. *Packard.* Bull. No. 12, U. S. Dept. Agr., p. 22.  
FOOD PLANT. *Pinus.*
- Ypsia aeruginosa.** Guen.  
1852. Larva, pupa. *Guen.* Spec. Gener. Noct., vol. 3, p. 17.  
FOOD PLANT. *Cornus.*
- Homoptera edusa.** Drury, (and vars.)  
1852. Larva, pupa, (col'd fig.) *Guen.*, (from Abb., MS.) Spec. Gener. Noct., vol. 3, pp. 13, 14, pl. 2.  
1870. Larva, pupa, (fig.) *Packard.* Amer. Naturalist, vol. 4, p. 229.  
1870. Larva. *Behr,* (as *H. salicis*.) Trans. Amer. Entom. Soc., p. 28.  
1870. Larva. *Behr,* (as *H. roseæ*.) Loc. cit., p. 28.  
1882. Life history. *French.* Canad. Entom., vol. 11, p. 130.  
1888. Larva. *Lintner,* (quotes *Guen.*) 4th Report N. Y. State Entom., p. 58.  
FOOD PLANTS. *Rosa, Salix, etc.*
- Homoptera minerea.** Guen.  
1852. Larva, pupa. *Guen.* Spec. Gener. Noct., vol. 3, p. 15.
- Homoptera calycanthata.** Abb.—Sm.  
1797. Larva, pupa, (col'd figs.) *Abbot—Smith.* Lep. Ins. Georgia, p. 104, pl. 207.  
1852. Larva, pupa. *Guen.*, (quotes Abb.—Sm.) Spec. Gener. Noct., vol. 3, p. 15.  
FOOD PLANT. *Calycanthus floridus.*

**Pseudanthræcia coracias.** Guen.1852. Larva, (col'd fig.) *Guen.* Spec. Gener. Noct., vol. 3, p. 19, pl. 2.FOOD PLANT. *Quercus*.**Epizeuxis americanis.**1854. Larva, pupa. *Guen.* Spec. Gener. Delt. Pyral., vol. 8, p. 78.FOOD PLANTS. *Leguminosæ*.**Epizeuxis aemul.** Hübn.1870. Larva, pupa, (figs.) *Packard*, (as *Helia aemulalis*—after Abbot, MS.)  
Amer. Naturalist, vol. 4, p. 229.1886. Larva, pupa. *Packard.* Rept. Entom. U. S. Dept. Agr., p. 326.FOOD PLANT. *Phlox*.**Pseudaglossa lubricalis.** Geyer.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.1880. Larva. *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 182.1880. Larva. *Coquillett.* Canad. Entom., vol. 12, p. 44.FOOD PLANTS. *Gramineæ*.**Chytolita morbidalis.** Guen.1880. Larva. *Coquillett.* Canad. Entom., vol. 12, p. 41.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.1880. Larva. *Coquillett.* Loc. cit., p. 182.FOOD PLANTS. *Corylus*, *Gramineæ*.**Philometra serraticornis.** Grote.1877. Larva, pupa. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 246.

FEEDS on roots of grasses.

**Hypæna evanidalis.** Robinson.1856. Larva, pupa. *Fitch*, (as *H. humuli*.) 2d Rept. Ins. N. York, p. 324.1880. Larva. *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.FOOD PLANT. *Humulus*.**Hypæna scabra.** Fabr. = **humuli.** Harris.1841. Larva. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 345.1862. Larva, cocoon. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 372.1862. Larva, cocoon. *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 477.1868. Larva, pupa, (figs.) *Packard.* Amer. Naturalist, vol. 2, p. 333.1869. Larva, (fig.) *Packard.* Guide to Study of Ins., p. 327.1869. Larva. *Harris.* Entom. Corres., p. 322.1872. Larva. *Bethune.* Rept. Entom. Soc. Ontario.1877. Larva, pupa, (figs.) *Packard.* Inj. Ins. West, Hayden's Rept., p. 773.1877. Larva. *French*, (quotes Bethune.) Trans. Dept. Agr. Ill., vol. 15, p. 245.1879. Larva, pupa. *J. H. Comstock.* Rept. Entom. Dept. Agr., p. 252.1880. Larva. *Coquillett.* Canad. Entom., vol. 12, p. 43.1880. Larva. *Riley.* Amer. Entom., 2d series, vol. 1, p. 8.1880. Larva. *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.1881. Life history. *Coquillett.* Canad. Entom., vol. 13, p. 137.FOOD PLANTS. *Humulus*, *Trifolium*, etc.**Hypæna madefactalis.** Guen.1854. Larva. *Guen.* Spec. Gener. Delt. Pyral., vol. 8, p. 35.FOOD PLANT. *Alisma plantago*.

## GEOMETRIDÆ.

**Choerodes clemitaria.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith.* Lep. Ins. Georgia, p. 201, pl. 101.1876. Larva. *Packard.* Monogr. Geometr., p. 562.1887. Larva, (brief.) *D. Bruce.* Entom. Amer., vol. 3, p. 47.FOOD PLANTS. *Ulmus*, *Clematis*, etc.**Choerodes transversata.** Drury.1833. Larva, (col'd fig.) *Titian Peale.* Lep. Americana, pl. 9.

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.*, p. 561, pl. 13.
1880. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 12, p. 236.
1881. Larva. *Packard*. *Ins. Inj. Forest Trees*, p. 112.
1887. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANTS. *Myrica*, *Geranium*, *Acer*, etc.
- Choerodes falcata.** *Packard*.
1876. Egg, (brief.) *Packard*. *Monogr. Geometr.*, p. 558.
- Tetracis ægrotata.** *Guen*.
1871. Larva, cocoon, pupa. *Hj. Edwards*. *Proc. Cal. Acad. Sc.*, September.
- FOOD PLANTS. *Geranium*, *Rosa*, etc.
- Tetracis crocallata.** *Guen*.
1869. Egg, larva. *Minot*. *Canad. Entom.*, vol. 2, p. 28.
1876. Larva. *Packard*, (quotes *Minot*.) *Monogr. Geometr.*, p. 548.
1879. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 12, p. 193.
1887. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANTS. *Castanea*, *Rhus*, etc.
- Tetracis lorata.** *Grote*.
1869. Egg. *Minot*. *Canad. Entom.*, vol. 2, p. 28.
1876. Pupa, (fig.) *Packard*. *Monogr. Geometr.*, pl. 13.
1877. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 9, p. 62.
1884. Larva, pupa. *Packard*. *Amer. Naturalist*, vol. 18, p. 935.
- FOOD PLANT. *Comptonia asplenifolia*.
- Tetracis trianguliferata.** *Packard*.
1886. Life history. *Freuch*. *Canad. Entom.*, vol. 18, p. 105.
- FOOD PLANT. *Ribes aureum*.
- Metanema quercivoraria.** *Guen*.
1857. Larva. *Guen*, (after Abbot's MS. drawing.) *Spec. Gener. Phal.*, vol. 1, p. 172.
1876. Larva. *Packard*, (quotes *Guen*.) *Monogr. Geometr.*, p. 545.
1881. Larva, (brief.) *Packard*. *Ins. Inj. Forest Trees*, p. 51.
- FOOD PLANT. *Quercus*.
- Metanema inatomaria.** *Guen*.
1887. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANT. *Populus*.
- Drepanodes varus.** *G. and R.*
1875. Larva, (fig.) *Packard*. *Amer. Naturalist*, vol. 9, p. 180.
1876. Larva, pupa, (fig.) *Packard*. *Monogr. Geometr.*, p. 43, pl. 13.
1877. Larva, pupa, (figs.) *Packard*. *Half-hours with Insects*, p. 270.
1881. Larva, pupa, (figs.) *Packard*. *Ins. Inj. Forest Trees*, p. 246.
- FOOD PLANT. *Juniperus*.
- Caberodes confusaria.** *Hübner*.
1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.* pl. 13.
1857. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANT. *Trifolium*.
- Ennomos alniaria.** *Linn.*
1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 15.
1859. Larva, (brief.) *Humphreys*. *Gener. Brit. Moths*, vol. 2, p. 81.
1869. Larva. *Newman*. *Brit. Moths*, p. 56.
1876. Larva, pupa, (fig.) *Packard*, (quotes *Goodell* and *Scudder* in lit.) *Monogr. Geometr.*, p. 530, pl. 13.
1881. Larva, pupa. *Packard*. *Ins. Inj. Forest Trees*, p. 92.
1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 299.
1887. Egg, pupa, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.

1888. Cocoon, (brief.) *M. S. Crane*. Entom. Amer., vol. 4, p. 13.

FOOD PLANTS. *Betula, Alnus, Castanea, etc.*

**Ennomos subsignaria.** Hübn.

1866. Life history. *Graef—Wiebe*. Rept. Brooklyn Hort. Soc.

1866. Larva. *B. D. Walsh*. Pract. Entom., p. 57.

1868. Larva. *Packard*. Amer. Naturalist, vol. 2, p. 333.

1876. Larva. *Packard*. Monogr. Geometr., p. 528.

1887. Larva. *French*. Trans. Dept. Agr. Ill., vol. 75, p. 224.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 62.

1882. Life history, (brief.) *C. R. Dodge*. Canad. Entom., vol. 11, p. 30.

1882. Life history, (brief.) *C. R. Dodge*. Rept. Entom. Soc. Ontario, p. 18.

1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 112.

FOOD PLANTS. Various trees.

**Selenia kentaria.** G. and R.

1887. Egg, larva, (brief.) *D. Bruce*. Entom. Amer., vol. 3, p. 47.

FOOD PLANTS. *Betula, Acer, etc.*

**Endropia obtusaria.** Hübn.

1876. Larva, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 517, pl. 13.

FOOD PLANT. *Impatiens*.

**Endropia pectinaria.** W. V.

1876. Larva. *Packard*. Monogr. Geometr., p. 513.

1881. Larva. *Packard*, (after Abbot's MS. drawing.) Ins. Inj. Forest Trees, p. 50.

FOOD PLANTS. *Quercus, etc.*

**Endropia bilinearia.** Packard.

1881. Larva, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 49.

1887. Larva, (brief.) *D. Bruce*. Entom. Amer., vol. 3, p. 47.

FOOD PLANTS. *Prunus, Quercus, etc.*

**Endropia armataria.** H. Sch.

1869. Larva. *Fitch*. 13th Rept. Ins. N. York, p. 522.

1871. Larva. *Saunders*. Canad. Entom., vol. 3, p. 130.

1871. Larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 378.

1872. Larva. *T. Glover*. Rept. Entom. Trans. N. York State Agr. Soc., p. 83.

1883. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 354.

FOOD PLANT. *Ribes*.

**Endropia textrinaria.** G. and R.

1869. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 508, pl. 13.

1884. Larva, pupa. *Packard*. Amer. Naturalist, vol. 18, p. 934.

FOOD PLANT. *Quercus*.

**Metrocampa margaritata.** Linn.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 10.

1859. Larva, (brief.) *Hampbreys*. Gener. Brit. Moths, p. 86.

1869. Larva. *Newman*. Brit. Moths, p. 53.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 298.

FOOD PLANTS. *Quercus, Betula, Fagus, etc.*

**Therina fervidaria.** Hübn.

1876. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 494, pl. 13.

1886. Larva, pupa. *Packard*. Rept. Entom. U. S. Dept. Agr., p. 329.

FOOD PLANT. *Halesia diptera*.

**Therina endropiaria.** G. and R.

1879. Larva. *L. W. Goodell*. Canad. Entom., vol. 11, p. 194.

FOOD PLANT. *Quercus*.

**Therina seminudaria.** Walker.1886. Pupa. *Packard*. Rept. Entom. U. S. Dept. Agr., p. 329.**Anagoga pulveraria.** Linn.1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 59.1869. Larva. *Merryfield*. Newman's Brit. Moths, p. 90.1876. Larva, pupa. *Packard*, (quotes Merryfield and L. W. Goodell in lit.)  
Monogr. Geometr., 488.FOOD PLANT. *Salix*.**Angerona crocataria.** Fabr.1869. Larva. *Packard*. Guide to Study of Ins., p. 319.1871. Egg, larva, pupa. *G. J. Bowles*. Canad. Entom., vol. 3, p. 9.1871. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 377.1876. Larva, (fig.) *Packard*. Monogr. Geometr., p. 175, pl. 13.1877. Larva. *French*, (quotes Packard.) Trans. Dept. Agr. Ill., vol. 15, p. 273.1883. Larva, pupa. *S. A. Forbes*. Trans. Wisconsin Agr. Soc., vol. 31, p. 6.1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 318.FOOD PLANTS. *Ribes*, *Fragaria*, etc.**Nematocampa filamentaria.** Guen.1869. Larva, (fig.) *Harris*. Entom. Corres., p. 322, pl. 3.1876. Larva, pupa, (fig.) *Packard*. Monogr. Geometr., p. 471, pl. 13.1877. Larva. *French*, (quotes Packard.) Trans. Dept. Agr. Ill., vol. 15, p. 242.1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 119.1883. Larva, cocoon, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 167.1883. Larva. *S. A. Forbes*. Trans. Wisconsin Agr. Soc., vol. 13, p. 5.FOOD PLANTS. *Ribes*, *Fragaria*, etc.**Hyperetis nyssaria.** Guen. = *amicaria*. H. Sch.1876. Larva. *Saunders*. Canad. Entom., vol. 3, p. 209.1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawings.) Monogr.  
Geometr., p. 464, pl. 13.1881. Larva. *Packard*. (quotes Saunders.) Ins. Inj. Forest Trees, p. 129.FOOD PLANTS. *Fagus*, *Hypericum*.**Aplodes rubrolinearia.** Pack.1887. Larva. *Hulst*. Entom. Amer., vol. 3, p. 72.FOOD PLANT. *Myrica cerifera*.**Aplodes mimosaria.** Guen.1864. Larva, pupa, (brief.) *B. D. Walsh*. Proc. Boston Soc. N. Hist., vol. 9,  
p. 301.1876. Larva, pupa. *Packard*, (quotes Walsh.) Monogr. Geometr., p. 389.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 49.FOOD PLANT. *Quercus*.**Aplodes packardaria.** Grote.1876. Larva, pupa. *Packard*, (as *A. rubrifrontalis*.) Monogr. Geometr., p. 387.FOOD PLANT. *Comptonia asplenifolia*.**Aplodes brunnearia.** Pack.1876. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr.  
Geometr., p. 388, pl. 13.FOOD PLANT. *Juglans nigra*.**Aplodes coniferaria.** Pack.1881. Larva, pupa. *Packard*. Amer. Naturalist, vol. 18, p. 933.FOOD PLANT. *Abies*.**Synchlora rubivora.** Riley.1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 139.1873. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 16.1876. Larva. *Packard*, (quotes Riley.) Monogr. Geometr., p. 382.1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 238.

1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 316.

FOOD PLANT. *Rubus*.

**Synchlora excurvaria.** Packard.

1876. Larva, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., pl. 13.

**Chlorosea bistriaria.** Packard.

1888. Larva. *Hulst.* Entom. Amer., vol. 3, p. 193.

FOOD PLANT. *Solidago*.

**Eucrostis chloroleucaria.** Guen.

1879. Larva, pupa. *Hulst.* Bull. Brooklyn Entom. Soc., vol. 2, p. 78.

1880. Larva, pupa. *L. W. Goodell.* Canad. Entom., vol. 12, p. 235.

FOOD PLANTS. *Leucanthemum vulgare*, *Helianthus*, etc.

**Dysteris abortivaria.** H. Sch.

1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 238.

FOOD PLANT. *Vitis*.

**Ephyra pendulinaria.** Guen.

1876. Larva, pupa, (fig.) *Packard*, (quotes Sender in MS.) Monogr. Geometr., p. 363, pl. 13.

FOOD PLANT. *Comptonia asplenioides*.

**Ephyra myrtaria.** Guen.

1877. Larva, pupa. *L. W. Goodell.* Canad. Entom., vol. 9, p. 62.

FOOD PLANTS. *Comptonia*, *Gaylussacia*.

**Arrhostia lumenaria.** Hübn.

1876. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 365, pl. 13.

FOOD PLANT. *Psoralea*.

**Acidalia insularia.** Guen.

1876. Pupa, (fig.) *Packard.* Monogr. Geometr., p. 336, pl. 13.

1887. Larva, pupa. *Hulst.* Entom. Amer., vol. 3, p. 175.

FOOD PLANT. *Cassia chamwerista*.

**Acidalia enucleata.** Guen.

1857. Larva, pupa, (fig.) *Guen.* Spec. Gener. Phal., pl. 12.

1876. Larva, pupa, (figs.) *Packard*, (quotes Guen.) Monogr. Geometr., p. 348, pl. 13.

1879. Larva, cocoon. *L. W. Goodell.* Canad. Entom., vol. 11, p. 194.

1880. Egg, young larva. *L. W. Goodell.* Canad. Entom., vol. 12, p. 235.

FOOD PLANT. *Rhexia lutea*.

**Acidalia ordinata.** Walk.

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 565, pl. 13.

FOOD PLANT. *Trillium stylosum*.

**Stegania pustularia.** Guen.

1871. Larva. *Saunders.* Canad. Entom., vol. 3, p. 225.

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 310, pl. 13, (quotes Saunders.)

1881. Larva. *Packard*, (quotes Saunders.) Ins. Inj. Forest Trees, p. 112.

FOOD PLANT. *Accr.*

**Eumacaria brunnearia.** Packard.

1878. Larva. *L. W. Goodell.* Canad. Entom., vol. 10, p. 66.

1885. Larva, pupa. *D. Kellicott.* Canad. Entom., vol. 17, p. 32.

FOOD PLANT. *Prunus*.

**Semiothisa præatomata.** Haworth.

1857. Larva. *Guen.* Spec. Gener. Phal., vol. 2, p. 76.

1876. Larva. *Packard*, (quotes Guen.) Monogr. Geometr., p. 293.

FOOD PLANT. *Vaccinium*.

**Semiothisa enotata.** Guen.

1876. Larva, pupa, (figs.) *Packard*, (from Abbot's MS. drawing.) *Monogr. Geometr.*, p. 561, pl. 13.

FOOD PLANT. *Lactuca grandifolia*.

**Thamnonoma travaria.** Linn.

1829. Larva. *Stephens*. Ill. Brit. Entom., *Haust.*, vol. 3, p. 194.

1857. Larva. *Guen.* *Spec. Gener. Phal.*, vol. 2, p. 93.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 56.

1859. Larva, (col'd fig.) *Humphreys*. Gen. Brit. Moths, pl. 31.

1870. Larva. *Packard*, (quotes Guen.) *Inj. Ins.* (new or little known), p. 12.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 318.

FOOD PLANT. *Ribes*.

**Thamnonoma bruneata.** Thunb.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 62.

FOOD PLANT. *Vaccinium*.

**Eufitchia ribearia.** Fitch.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 427.

1865. Larva. *B. D. Walsh*. *Practical Entom.*, p. 22.

1869. Larva. *Harris*. *Entom. Corres.*, p. 320.

1871. Larva, pupa, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 371.

1873. Larva, pupa, (fig.) *A. J. Cook*. 12th Rept. Michigan Agr. Soc., p. 143.

1874. Egg, larva, pupa, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 19.

1874. Larva. *Saunders*. *Canad. Entom.*, vol. 6, p. 138.

1875. Larva, pupa, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 33.

1876. Larva, (fig.) *Packard*. *Monogr. Geometr.*, p. 248, pl. 13.

1877. Larva, pupa, (figs.) *Packard*. *Ins. Inj. West, Hayden's Rept.*, p. 191.

1877. Larva, pupa. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 237.

1877. Larva, (fig.) *Packard*. *Half-hours with Insects*, p. 51.

1877. Egg, larva, pupa, (fig.) *Riley*. 9th Missouri Rept., p. 3.

1878. Larva, pupa, (fig.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 263.

1882. Larva, pupa, (fig.) *Bethune*. 12th Rept. Entom. Soc. Ontario, p. 83.

1883. Larva, pupa, (fig.) *T. J. Edge*. *Agr. Pennsylv.*, p. 74.

1883. Egg, larva, pupa, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 345.

1888. Larva, pupa, (figs.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 56.

FOOD PLANT. *Ribes*.

**Caripeta angustiorata.** Walker.

1884. Larva, pupa. *Packard*. *Amer. Naturalist*, vol. 18, p. 1015.

FOOD PLANT. *Pinus*.

**Fidonia notataria.** Walker.

1882. Life history. *L. W. Goodell*. *Canad. Entom.*, vol. 11, p. 199.

FOOD PLANT. *Pinus strobus*.

**Hæmatopis grataria.** Fabr.

1859. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 179.

1876. Larva, pupa. *Packard*, (quotes Riley.) *Monogr. Geometr.*, p. 219.

FOOD PLANT. *Stellaria*.

**Caterva catenaria.** Drury.

1852. Cocoon. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 358.

1862. Larva, cocoon, pupa, (figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 46.

1869. Larva, pupa. *Harris*. *Entom. Corres.*, p. 321.

1876. Larva, pupa, (fig.) *Packard*. *Monogr. Geometr.*, p. 218, pl. 13.

1881. Larva. *Coquillett*. *Papilio*, vol. 1, p. 56.

FOOD PLANTS. Various shrubs and trees.

**Tornos rubiginosaria.** Morrison.

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawings.) *Monogr. Geometr.*, p. 561, pl. 13.

FOOD PLANT. *Corcopsis*.



**Aspilates dissimiliaria.** Hübn.1857. Larva, pupa. *Guen.* Spec. Gener. Phal., vol. 2, p. 182.1876. Larva, pupa. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 209.1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawings.) Monogr. Geometr., pl. 13.FOOD PLANT. *Trifolium*.**Euspilates spinataria.** Paek.1887. Larva, (brief.) *D. Bruce.* Entom. Amer., vol. 3, p. 49.**Cleora pulchraria.** Minot.1870. Larva, pupa. *Packard.* Inj. Ins. (new or little known), p. 14.1876. Larva, pupa, (figs.) *Packard.* Monogr. Geometr., p. 153, pl. 13.1881. Larva, pupa. *Packard*, (quotes *Saunders* in lit.) Ins. Inj. Forest Trees, p. 205.1886. Larva, pupa. *Packard.* Rept. Entom. Dept. Agr., p. 328.FOOD PLANT. *Pinus*.**Stenotrachelys approximaria.** Hübn.1857. Larva. *Guen.*, (after Abbott's MS. drawing.) Spec. Gener. Phal., vol. 1, p. 290.1876. Larva. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 449.1881. Larva. *Packard.* Ins. Inj. Forest Trees, p. 49.FOOD PLANTS. *Smilax*, *Quercus*, etc.**Epimecis hortaria.** Fab.1797. Larva, (col'd fig.) *Abbot—Smith*, (as Ph. *liriodendraria*.) Lep. Ins. Georgia, p. 203, pl. 1021876. Larva. *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 445.FOOD PLANT. *Liriodendron tulipifera*.**Ceratomyx satanaria.** Guen.1853. Larva, (col'd fig.) *Guen.* Spec. Gener. Phal., vol. 1, p. 191, pl. 2.1876. Larva. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 565.FOOD PLANTS. *Liquidambar*, *Quercus*.**Cymatophora larvaria.** Guen.1874. Larva. *Saunders.* Canad. Entom., vol. 6, p. 34.1876. Larva, pupa, (fig.) *Packard.* Monogr. Geometr., p. 438, pl. 13.FOOD PLANT. *Prunus*.**Cymatophora pampinaria.** Guen.1876. Larva, pupa. *Packard*, (quotes *L. W. Goodell* in lit.) Monogr. Geometr., p. 435.1881. Larva. *French.* Papilio, vol. 1, p. 82.FOOD PLANT. *Pyrus*.**Cymatophora humaria.** Guen.1876. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 437, pl. 13.**Cymatophora crepuscularia.** Tr.1857. Larva, pupa. *Guen.* Spec. Gener. Phal., vol. 1, p. 260.1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths., vol. 2, p. 28.1876. Larva. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 425.1878. Larva. *L. W. Goodell.* Canad. Entom., vol. 10, p. 67.FOOD PLANTS. *Salix*, *Populus*, *Alnus*, etc.**Paraphia subatomaria.** Guen.1876. Larva, (brief.) *Packard*, (quotes *Saunders* in lit.) Monogr. Geometr., p. 418.1881. Larva, (brief.) *Packard.* Ins. Inj. Forest Trees, p. 205.FOOD PLANT. *Pinus*.**Paraphia unipunctaria.** Haworth.1857. Larva, pupa, (brief.) *Guen.*, (from Abbot's MS. drawing.) Spec. Gener. Phal., vol. 2, p. 62.

1858. Larva. *Fitch*, (as *A. triplipunctata*.) 5th Rept. Ins. N. York, p. 825.

1876. Larva, pupa. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 417.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 48.

FOOD PLANT. *Quercus*.

**Paraphia deplanaria.** *Guen.*

1881. Larva, pupa. *Packard*. Amer. Naturalist, vol. 18, p. 935.

1886. Larva, pupa. *Packard*. Rept. Entom. U. S. Dept. Agr., p. 328.

FOOD PLANT. *Abies*.

**Biston ursarius.** *Walk.*

1876. Life history. *G. J. Bowles*. Canad. Entom., vol. 8, p. 7.

1881. Larva. *Packard*, (quotes *Bowles.*) Ins. Inj. Forest Trees, p. 121.

FOOD PLANT. *Populus*.

**Eubyja cognataria.** *Guen.*

1871. Larva. *G. J. Bowles*. Canad. Entom., vol. 3, p. 11.

1871. Larva, pupa. *Saunders*. Rept. Entom. Soc. Ontario, p. 379.

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 166.

1876. Larva, pupa, (brief.) *Packard*. Monogr. Geometr., p. 414.

1878. Larva. *L. W. Goodell*. Canad. Entom., vol. 10, p. 67.

1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 136.

1883. Egg. *A. W. P. Cramer*. Bull. Brooklyn Entom. Soc., vol. 6, p. 48.

1885. Larva, (fig.) *Lintner*. 2d Rept. N. York State Entom., p. 99.

FOOD PLANTS. *Acer*, *Ribes*, etc.

**Eubyja quernaria.** *Abb.—Sm.*

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 205, pl. 103.

1854. Larva, pupa, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 246, pl. 36.

1857. Larva. (?) *Guen*. Spec. Gener. Phal., vol. 1, p. 206.

1876. Larva. *Packard*, (after *Abbot's* MS. drawing.) Monogr. Geometr., p. 412.

FOOD PLANTS. *Quercus*, *Crataegus*, etc.

**Hybernia tiliaria.** *Harris.*

1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 312.

1852. Egg, larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 369.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 313.

1862. Egg, larva. *Harris*. Ins. Inj. Vegetat., *Flint's* edit., p. 472.

1861. Larva. *Jacger*. Life N. Amer. Ins., p. 175.

1876. Larva. *Packard*, (quotes *Harris.*) Monogr. Geometr., p. 410.

1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 119.

1880. Larva, (fig.) *J. H. Comstock*, (quotes *Coquillett.*) Rept. Entom. U. S. Dept. Agr., p. 255.

1881. Larva, (fig.) *Packard*, (after *Comstock.*) Ins. Inj. Forest Trees, p. 125.

1882. Larva, (fig.) *Saunders*. Canad. Entom., vol. 14, p. 222.

1883. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 25.

1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 109.

1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 416.

FOOD PLANTS. *Tilia*, *Pyrus*, *Ulmus*, etc.

**Phigalia strigataria.** *Minot.*

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 241.

FOOD PLANTS. *Rosa*, *Ulmus*.

**Phigalia cinctaria.** *French.*

1877. Larva, pupa. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 241.

FOOD PLANT. *Pyrus*.

**Anisopteryx vernata.** *Harris.*

1796. Life history. *Peck*. Massachusetts Soc. Prom. Agric.

1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 332.

1843. Larva. *Willis Gaylord*. Trans. N. York State Agr. Soc., p. 153.

1848. Larva. *Harris*. Prairie Farmer, vol. 8, p. 172.

1849. Larva. *Harris*. Boston Cultivator, vol. 9, p. 376.

1850. Larva. *Harris*. N. Engl'd Farmer, ser. 2, vol. 2, p. 252.  
 1851. Larva. *Harris*. Massachusetts Ploughman, vol. 10, Nos. 8, 33.  
 1852. Larva. *Harris*. N. Engl'd Farmer, ser. 4, vol. 4, p. 155.  
 1852. Life history. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 359.  
 1854. Larva. *Harris*. N. Engl'd Farmer, ser. 8, vol. 6, p. 363.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 342.  
 1862. Life history, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 462.  
 1862. Larva, (fig.) *Packard*. 7th Rept. Maine Board Agr., p. 173.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 175.  
 1867. Larva. *Tenney*. Nat. Hist., p. 407.  
 1869. Larva, (fig.) *Packard*. Guide to Study of Ins., p. 324, pl. 8.  
 1870. Egg, larva. *T. Glover*. Rept. U. S. Dept. Agr., p. 85.  
 1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 91.  
 1872. Life history, (figs.) *Le Baron*, (after *Riley*.) 3d Illinois Rept.  
 1873. Egg, larva, (figs.) *A. J. Cook*. 12th Rept. Michigan Board Agric., p. 129.  
 1875. Egg, larva, (figs.) *Riley*. 7th Missouri Rept., p. 80.  
 1875. Egg, larval stages, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 25.  
 1876. Egg, larva, pupa. *Packard*, (quotes *Peck*.) Monogr. Geometr., p. 403.  
 1876. Larva, pupa, (figs.) *Packard*. Monogr. Geometr., p. 405, pl. 13.  
 1876. Larva, pupa. *G. H. Perkins*. 2d Rept. Vermont Board Agric., p. 591.  
 1876. Life history. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 14, p. 16.  
 1877. Egg, larva, pupa, (figs.) *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 110.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 237.  
 1877. Larva, pupa, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 791.  
 1877. Egg, larva. *Packard*. Half-hours with Insects, p. 173.  
 1881. Egg, larva, (figs.) *Packard*, (after *Riley*.) Ins. Inj. Forest Trees, p. 61.  
 1882. Life history, (figs.) *Riley*. 3d Rept. U. S. Entom. Comm., p. 157.  
 1882. Life history, (brief.) *Bethune*, (quotes *Saunders*.) 12th Rept. Entom. Soc. Ontario, p. 84.  
 1883. Life history, brief, (figs.) *Saunders*. Ins. Inj. Fruits, p. 67.  
 1885. Egg, larva, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Ontario, p. 23.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 446.  
 FOOD PLANTS. *Ulmus*, *Pyrus*, and many other trees.

**Anisopteryx autumnata.** *Packard*. = *pometaria*. *Mann*.

1811. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 333.  
 1875. Egg, larva, (figs.) *Riley*. 7th Missouri Rept., p. 83.  
 1875. Egg, larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 26.  
 1876. Egg, larva, pupa, (figs.) *Packard*. Monogr. Geometr., p. 401, pl. 13.  
 1876. Larva, (brief.) *G. H. Perkins*. Rept. Vermont Board Agr., p. 595.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 239.  
 1877. Egg, larva, pupa, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 793.  
 1880. Egg, larva, pupa, (figs.) *Coquillett*, (quotes *French*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.  
 1880. Life history, (figs.) *Riley*. 3d Rept. U. S. Entom. Comm., p. 157.  
 1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 65.  
 1885. Egg, larva, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Ontario, p. 23.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 446.  
 FOOD PLANTS. *Pyrus*, *Ulmus*, and other trees.

**Heterophleps triguttata.** *H. Sch.*

1876. Larva. *Packard*, (quotes *Saunders* in lit.) Monogr. Geometr., p. 194.  
 FOOD PLANT. *Acer*.

**Hydria undulata.** *Linn.*

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 110.  
 1859. Larva, (brief.) *Humphreys*. Genera Brit. Moths, p. 111.  
 1869. Life history. *Beauchamp*. Newman's Brit. Moths, p. 179.

1870. Life history. *Fitch*. 11th Rept. Ins. N. York, p. 355.  
 1876. Larva. *Packard*, (quotes *Beauchamp*.) *Monogr. Geometr.*, p. 173.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 378.  
 FOOD PLANTS. *Pruuus, Salix, etc.*

**Rheumaptera fluctuata.** Linn.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 102.  
 1869. Larva. *Newman*. *Brit. Moths*, p. 161.  
 1876. Larva. *Packard*, (quotes *Newman*.) *Monogr. Geometr.*, p. 157.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 378.  
 FOOD PLANTS. *Cruciferø.*

**Rheumaptera unangulata.** Haworth.

1869. Larva. *Newman*. *Brit. Moths*, p. 159.  
 1876. Larva. *Packard*, (quotes *Newman*.) *Monogr. Geometr.*, p. 160.  
 FOOD PLANT. *Alsine media.*

**Rheumaptera tristata.** Linn.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 100.  
 1859. Larva, (col'd fig.) *Humphreys*. *Genera Brit. Moths*, pl. 43.  
 1869. Larva. *Newman*. *Brit. Moths*, p. 157.  
 1876. Larva. *Packard*, (quotes *Newman's Brit. Moths*.) *Monogr. Geometr.*, p. 163.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 380.  
 FOOD PLANT. *Galium*.

**Rheumaptera hastata.** Linn.

1829. Larva. *Stephens*. *Illus. Brit. Entom., Haust.*, vol. 3, p. 249.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 100.  
 1859. Larva, (col'd fig.) *Humphreys*. *Genera Brit. Moths*, pl. 43.  
 1860. Larva, (brief.) *Duncan*. *Natural. Library*, vol. 30, p. 256.  
 1869. Larva. *Newman*. *Brit. Moths*, p. 157.  
 1872. Larva. *J. G. Wood*. *Insects at Home*, p. 458.  
 1876. Larva. *Packard*, (quotes *Newman*.) *Monogr. Geometr.*, p. 165.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 380.  
 1885. Larva, (fig.) *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 447.  
 FOOD PLANTS. *Betula, Myrica.*

**Ochyria ferrugata.** Linn.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 105.  
 1869. Larva. *Newman*. *Brit. Moths*, p. 168.  
 1876. Larva. *Packard*, (quotes *Newman*.) *Monogr. Geometr.*, p. 148.  
 FOOD PLANTS. *Alsine, Glechoma, etc.*

**Ochyria munitata.** Hübn.

1869. Larva. *Newman*. *Brit. Moths*, p. 168.  
 1876. Larva. *Packard*, (quotes *Newman's Brit. Moths*.) *Monogr. Geometr.*, p. 138.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 376.  
 FOOD PLANT. *Senecio*.

**Ochyria designata.** Hübn.

1855. Larva, (col'd fig.) *Sepp*. *Dutch Lepidoptera*.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*.  
 1869. Larva. *Newman*, (quotes *Sepp*.) *Brit. Moths*, p. 168.  
 1876. Larva. *Packard*, (quotes *Sepp and Stainton*.) *Monogr. Geometr.*, p. 146.  
 1880. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 12, p. 235.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 376.  
 FOOD PLANTS. *Brassica, Alyssum.*

**Petrophora diversilineata.** Hübn.

1870. Larva. *Saunders*. *Canad. Entom.*, vol. 2, pp. 74, 128.  
 1876. Egg, larva, pupa. *Packard*. *Monogr. Geometr.*, p. 128.  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 237.  
 1883. Larva, pupa, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 271.  
 1887. Larva, (brief) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 50.

1887. Larva, (fig.) *J. Fletcher*. Rept. Entom. Dept. Agr. Canada, p. 30.  
 1888. Larva, (fig.) *J. Fletcher*. Rept. Entom. Bot. Dept. Agr. Canada, p. 30.  
 FOOD PLANTS. *Vitis, Ampelopsis, etc.*

**Petrophora testata.** Linn.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 114.  
 1869. Larva. *Newman*. Brit. Moths, p. 191.  
 1876. Larva. *Packard*, (quotes Newman.) Monogr. Geometr., p. 123.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 370.  
 FOOD PLANTS. *Populus, Salix, Betula.*

**Petrophora prunata.** Linn.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 111.  
 1859. Larva, pupa, (col'd figs.) *Humphreys*. Genera Brit. Moths, pl. 40.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 370.  
 FOOD PLANT. *Ribes.*

**Petrophora truncata.** Hübn.

1869. Life history. *Newman*. Brit. Moths, p. 186.  
 1876. Life history, (fig.) *Packard*, (quotes Newman.) Monogr. Geometr., p. 109, pl. 13.  
 FOOD PLANT. *Fragaria.*

**Hydriomena sordidata.** Fabr.

1869. Life history. *Newman*. Brit. Moths, p. 153.  
 1876. Larva, (fig.) *Packard*, (quotes Newman.) Monogr. Geometr., p. 99, pl. 13.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 381.  
 FOOD PLANT. *Salix.*

**Thera contractata.** Packard.

1885. Larva, pupa. *Packard*. Bulletin No. 12, Dept. Agr., p. 22.  
 FOOD PLANTS. *Pinus, Abies, Juniperus.*

**Epirrita dilutata.** Bork.

1858. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 842.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 77.  
 1869. Larva. *Newman*. Brit. Moths, p. 109.  
 1876. Larva, (fig.) *Packard*, (quotes Newman.) Monogr. Geometr., p. 88, pl. 13.  
 1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 63.  
 FOOD PLANTS. *Prunus, Quercus, Ulmus, etc.*

**Epirrita cambricaria.** Curtis.

1869. Larva. *Newman*. Brit. Moths, p. 76.  
 1876. Larva. *Packard*, (quotes Newman.) Monogr. Geometr., p. 86.  
 FOOD PLANT. *Pyrus aucuparia.*

**Piemyria fluviala.** Hübn.

1858. Life history. (*Anonymous*.) Entomologist's Intelligeneer.  
 1868. Life history, (figs.) *Milliere*. Ann. Linn. Soc. Lyons, p. 50, pl. 90.  
 1869. Life history. *Newman*. British Moths.  
 1876. Life history, (figs.) *Packard*, (quotes Newman.) Monogr. Geometr., p. 78, pl. 13.  
 1876. Life history. *Packard*, (quotes Milliere.) Monogr. Geometr., p. 56L.  
 FOOD PLANTS. *Anthemis, Chrysanthemum.*

**Glaucopteryx cæsiata.** Borth.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 78.  
 1869. Life history. *Newman*. Brit. Moths, p. 110.  
 1876. Life history, (fig.) *Packard*, (quotes Newman.) Monogr. Geometr., p. 69, pl. 13.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 383.  
 FOOD PLANTS. *Ericaceæ.*

**Glaucopteryx magnoliata.** Packard. = *cumatilis*. G. and R.

1875. Larva, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.  
 FOOD PLANTS. *Fuschia, Geranium, etc.*

**Eupithecia miserulata.** Grote.1876. Larva, pupa, (figs.) *Packard*. Monogr. Geometr., p. 54, pl. 13.1881. Larva, pupa. *Packard*. Ins. Inj. Forest Trees, p. 248.FOOD PLANT. *Juniperus*.**Eupithecia interruptofasciata.** Packard.1881. Larva. *Coquillett*. Papilio, vol. 1, p. 56.1883. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 352.FOOD PLANTS. *Trifolium*, etc.**Eupithecia zygadeniata.** Pack.1876. Larva. *Packard*, (quotes Belfrage in lit.) Monogr. Geometr., p. 52.FOOD PLANT. *Zygadenus nuttallii*.**Eupithecia absynthiata.** Linn.1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 69.1869. Larva. *Crewe*. Newman's Brit. Moths, p. 136.1876. Larva, (fig.) *Packard*, (quotes Crewe.) Monogr. Geometr., p. 50, pl. 13.1877. Larva, pupa. *L. W. Goodell*. Canad. Entom., vol. 9, p. 62.1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 403.FOOD PLANTS. Various species of *Compositæ*.**Exelis pyrolaria.** Guen.1857. Larva. *Guen.* Spec. Gener., vol. 1, p. 324.1876. Larva. *Packard*, (quotes Guen.) Monogr. Geometr., p. 565.FOOD PLANT. *Pyrola*.

## PYRALIDÆ.

**Omphalocera cariosa.** Lederer.1880. Larva, cocoon. *French*, (as amphaloma.) 6th Rept. Ill. State Norm. Univer., p. 46.FOOD PLANT. *Anona triloba*.**Asopia farinalis.** Linn.1811. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 343.1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 134.1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 247.1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 157.1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 410.1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 444.

FEEDS on corn, meal, etc.

**Asopia costalis.** Fabr.1870. Larva, pupa, (figs.) *T. Glover*. Rept. U. S. Dept. Agr., p. 84.1874. Life history, (figs.) *Riley*. 6th Missouri Rept., p. 102.1877. Larva. *French*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 15, p. 247.1882. Larva, pupa, (figs.) *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 45.FEEDS on dry clover. *Trifolium*.**Botis inæqualis.** Guen.1883. Larva. *Coquillett*. Papilio, vol. 3, p. 102.FOOD PLANT. *Cirsium lanceolatum*.**Botis generosa.** G. and R.1883. Larva. *Coquillett*. Papilio, vol. 3, p. 101.FOOD PLANT. *Monarda fistulosa*.**Botis tertialis.** Guen.1854. Larva. *Guen.*, (after Abbot's MS. drawing.) Spec. General. Delt. Pyral., vol. 8, p. 364.FOOD PLANT. *Vaccinium*.**Botis erectalis.** Grote.1888. Larva. *W. Beutenmüller*. Canad. Entom., vol. 20, p. 15.FOOD PLANT. *Apocynum*.

**Botis penitalis.** Grote.1880. Larva. *Coquillett*. *Canad. Entom.*, vol. 12, p. 45.1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 154.FOOD PLANT. *Apocynum*.**Botis magistralis.** Grote.1888. Larva. *W. Beutenmüller*. *Canad. Entom.*, vol. 20, p. 1b.FOOD PLANT. *Clethra alnifolia*.**Botis oscitalis.** Grote.1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 101.FOOD PLANTS. *Salix*, *Populus*.**Botis syringicola.** Packard.1870. Larva, (brief.) *Packard*. *Inj. Ins.*, new or little known, p. 18.FEEDS in stems of *Syringa*.**Agathodes designalis.** Guen.1854. Larva. *Guen.*, (after Abbot's MS. drawing.) *Spec. Gener. Delt. Pyr.*, vol. 8, p. 209.FOOD PLANTS. *Asclepias*, *Salix*.**Eurycreon rantalis.** Guen.1882. Larva, (brief.) *Lintner*. 41st Rept. N. York State Agr. Soc., p. 49.1885. Larva, pupa, (figs.) *Riley*. *Rept. U. S. Dept. Agr.*, p. 265, pl. 4, fig. 3.FOOD PLANTS. *Amaranthus*, *Ambrosia*, and various cult. crops.**Mesographe rimosalis.** Guen.1879. Larva. *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 17, Append., p. 38.1880. Larva, cocoon. *C. Thomas*. *Amer. Entom.*, vol. 1, 2d series, p. 22.FOOD PLANT. *Brassica*.**Mesographe stramentalis.** Hübner.1869. Larva, (fig.) *Harris*, (as *B. sumalis*.) *Entom. Corres.*, p. 322.1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 164.1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 445.FOOD PLANT. *Cochlearia armoracia*, (Horse-radish.)**Pantographa limata.** G. and R.1884. Larva. *Fernald*. *Canad. Entom.*, vol. 16, p. 27.1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 445.FOOD PLANT. *Tilia americana*.**Eudioptis hyalinata.** Linn.1832. Larva, pupa, (col'd figs.) *Poey*. *Lep. Cubana*, pl. 19.1854. Larva. *Guen*. *Spec. Gener. Delt. Pyr.*, vol. 8, p. 296.1875. Larva, pupa, (figs.) *C. R. Dodge*. *Field and Forest*, vol. 1, p. 9.1880. Life history. *J. E. Willett*. *Rept. Entom. Dept. Agr.*, p. 219.1880. Life history. *J. H. Comstock*, (quotes Willett.) *Loc. cit.*, p. 218.1883. Larva, pupa, (figs.) *Saunders*. *Canad. Entom.*, vol. 15, p. 56.1883. Larva, pupa, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 24.1883. Life history, (brief.) *Saunders*. *Ins. Inj. Fruits*, p. 365.1883. Larva, (fig.) *T. J. Edge*. *Agr. Pennsylv.*, p. 67.1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 444.FEEDS on fruits of *Cucurbitacea*.**Eudioptis nitidalis.** Cramer.1854. Larva. *Guen*. *Spec. Gener. Delt. Pyr.*, vol. 8, p. 300.1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 67.1870. Larva, pupa, (figs.) *T. Glover*. *Rept. Dept. Agr.*, p. 84.1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 251.<sup>a</sup>1877. Larva, pupa, (figs.) *Packard*, (after *Riley*.) *Inj. Ins. West, Hayden's Rept.*, p. 772.1883. Larva, pupa. *Saunders*. *Ins. Inj. Fruits*, p. 368.1883. Larva, (fig.) *T. J. Edge*, (after *Riley*.) *Agr. Pennsylv.*, p. 65.

1885. Larva, (fig.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 444.

FEEDS on fruits of *Cucurbitaceæ*.

**Desmia maculalis.** Westwood.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 401.

1871. Life history, (figs.) *Riley*. 3d Missouri Rept., p. 61.

1871. Larva, pupa, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 358.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 249.

1878. Larva, pupa, (fig.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 277.

1881. Larva. *W. W. Goldsmith*. Rept. Kentucky Bureau Agr., p. 251.

1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 267.

FOOD PLANT. *Vitis*.

**Zinckenia perspectalis.** Hübner.

1854. Larva. *Guen.* Spec. Gener. Delt. Pyral., vol. 8, p. 226.

FOOD PLANT. *Lilium canadense*.

**Clydonopteron tocomæ.** Riley.

1880. Larva, pupa, (figs.) *Riley*. Amer. Entom., vol. 1, 2d ser., p. 286.

FEEDS in seed-pods of *Tecoma radicans*.

**Margarodes quadristigmalis.** Guen.

1888. Life history. *Howard—Lugger*. Ins. Life, vol. 1, p. 22.

FOOD PLANT. *Ligustrum vulgare*.

**Hydrocampa formosalis.** Clemens.

1881. Larva, pupa, (figs.) *Packard*. Amer. Naturalist, vol. 18, p. 824, pl. 24.

**Pinipestis zimmermanni.** Grote.

1877. Life history. *Grote*. Canad. Entom., vol. 9, p. 161.

1877. Larva, cocoon, pupa. *Grote*. Rept. Entom. Soc. Ontario, p. 13.

1878. Larva, pupa. *Zimmerman*. Canad. Entom., vol. 10, p. 20.

1879. Larva. *D. S. Kellicott*. Canad. Entom., vol. 11, p. 114.

1881. Larva, cocoon. *Packard*, (quotes *Grote-Kellicott*.) Ins. Inj. Forest Trees, p. 182.

FOOD PLANT. Species of *Pinus*.

**Phycis rubrifasciella.** Packard.

1873. Larva, pupa. *Packard*. Amer. Lyceum N. Hist. N. York, vol. 10, p. 268.

1889. Larva. *W. Beutenmüller*. Entom. Amer., vol. 5, p. 38.

**Phycis indiginella.** Zeller. = *nebulosa*.

1863. Larva. *B. D. Walsh*. Proc. Boston Soc. N. Hist., vol. 9, p. 312.

1869. Larva, case. *Walsh*. 1st Illinois Rept., p. 31.

1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 126.

1872. Life history, (figs.) *Riley*. 4th Missouri Rept., pp. 38-42.

1872. Life history, (figs.) *Le Baron*, (after *Riley*.) 3d Illinois Rept., p. 117.

1877. Larva, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 249.

1880. Larva, case, (fig.) *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 157.

1883. Larva, case, (fig.) *Saunders*. Canad. Entom., vol. 15, p. 2.

1883. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 22.

1883. Larva (figs.) *Saunders*. Ins. Inj. Fruit, p. 94.

1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 444.

FOOD PLANTS. *Prunus*, *Pyrus*, etc.

**Phycis juglandis.** Le Baron.

1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 42.

1872. Life history (figs.) *Le Baron* (after *Riley*.) 3d Illinois Rept., p. 117.

1877. Larva, case, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 250.

1881. Larva, case, (figs.) *Packard*, (quotes *Riley*.) Ins. Inj. Fruit Trees, p. 82.

FOOD PLANTS. *Carya*, *Juglans*.

**Phycis vaccinii.** Riley.

1881. Life history. *Riley*. Canad. Entom., vol. 16, p. 237.

FOOD PLANT. *Ostrya*.



**Phycis caryæ.** Grote.

1881. Larva, pupa. *Grote*, (quotes Coquillett in lit.) *Papilio*, vol. 1, p. 13.  
 FOOD PLANT. *Carya*.

**Tetralopha (Saluda) melanogrammos.** Guen.

1880. Larva, pupa. *Comstock*. Rept. U. S. Dept. Agr., p. 263.  
 1889. Larva, pupa. *Hulst*, (quotes Comstock.) *Entom. Amer.*, vol. 5, p. 68.  
 FOOD PLANT. *Pinus taeda*.

**Pempelia hammondi.** Riley.

1872. Larva, pupa, (figs.) *Riley*. 4th Missouri Rept., p. 44.  
 1877. Larva, pupa. *French*, (quotes Riley.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 253.  
 1883. Larva, cocoon, figs. *Saunders*. *Ins. Inj. Fruits*, p. 100.  
 FOOD PLANT. *Pyrus*.

**Dakrura convolutella.** Hüb. = **grossulariæ.** Packard.

1869. Larva, pupa, (figs.) *Riley*. 1st Missouri Rept., p. 140.  
 1869. Larva, case, (fig.) *Packard*. *Guide to Study of Ins.*, p. 331.  
 1871. Larva, case, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 383.  
 1876. Larva, case, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 39.  
 1877. Larva, case, (brief.) *B. Gott*. *Rept. Entom. Soc. Ontario*, p. 43.  
 1877. Larva. *French*, (quotes Packard.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 251.  
 1883. Larva, case, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 358.  
 1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 444.  
 FOOD PLANT. *Ribes*.

**Dakrura coccidivora.** Comstock.

1879. Life history. *J. H. Comstock*. *Proc. Amer. Ass. Adv. Sc.*, vol. 28, p. 467.  
 1879. Life history, (figs.) *J. H. Comstock*. *North Amer. Entom.*, No. 4, p. 27.  
 1879. Life history. *J. H. Comstock*. *Rept. U. S. Dept. Agr.*, p. 243.  
 FEEDS on Homopterous larvæ, (*Coccida*.)

**Dakrura pallida.** Comstock.

1879. Larva. *Comstock*. *Rept. U. S. Dept. Agr.*, p. 244.  
 FOOD PLANT. *Quercus*.

**Anæglis demissalis.** Lederer.

1885. Life history, (figs.) *Hubbard*. *Ins. Affect. Orange*, p. 155, pl. 13.  
 FOOD PLANT. *Citrus*, (Orange.)

**Aphomia colonella.** Linn. (*Hythia*.)

1868. Pupa, (figs.) *Packard*. *Amer. Naturalist*, vol. 2, p. 333.  
 FEEDS on beeswax.

**Galleria (Honora) mellinella.** Fabr. = **cereana.**

1836. Larva, (col'd fig.) *Curtis*. *Brit. Entom.*, vol. 13, pl. 587.  
 1840. Larva, (fig.) *Westwood*. *Intr. Mod. Class. Ins.*, vol. 2, p. 411, fig. 113.  
 1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 357.  
 1852. Life history. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 384.  
 1854. Larva. *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 253.  
 1857. Life history. *Chenu—Demarets*. *Encyc. Hist. Nat. Papillons*, vol. 2, p. 261.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 164.  
 1859. Larva, (col'd fig.) *Humphreys*. *Gener. Brit. Moths*, pl. 54.  
 1862. Life history. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 491.  
 1864. Larva. *Jaeger*. *Life N. Amer. Ins.*, p. 181.  
 1867. Larva. *Tenney*. *Nat. Hist.*, p. 409.  
 1869. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 166.  
 1872. Larva, (fig.) *J. G. Wood*. *Insects at Home*, p. 500.  
 1876. Larva, pupa, (figs.) *J. Williams*. *Rept. Entom. Soc. Ontario*, p. 46.  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 253.  
 1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 443.  
 FEEDS on beeswax.

**Ephestia clutella.** Hübn.

1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 2, p. 168.  
FEEDS on dried fruit.

**Ephestia interpunctella.** Hübn.

1859. Larva. *H. T. Stainton.* Brit. Butt. and Meths. vol. 2, p. 169.  
FEEDS on dried fruits.

**Crambus vulgivagellus.** Clemens.

1882. Larva, pupa. *Lintner.* 41st Rept. N. York State Agr. Soc., p. 44.

1884. Larva, cocoon, (figs.) *H. A. Cutting.* 8th Rept. Vermont Board Agr., p. 276.

1885. Egg, larva. *Fernald.* Kingsley's Stand. N. Hist., vol. 2, p. 443.

FOOD PLANT. *Gramineæ.*

**Crambus exsiccatus.** Zeller.

1888. Life history. *H. Osborn.* Rept. Entom. Dept. Agr., p. 154.

**Diaetria saccharalis.** Fabr.

1881. Larva, pupa, (figs.) *J. H. Comstock.* Rept. Ins. Inj. Sugar, U. S. Dept. Agr., p. 9.

FEEDS on sugar-cane.

**TORTRICIDÆ.****Teras hastiana.** Linn.

1859. Larva, (brief.) *H. T. Stainton.* Brit. Butt. and Moths, vol. 2, p. 233.

FOOD PLANT. *Salix.*

**Teras viburnana.** Clem.

1886. Pupa. *Packard.* Rept. Entom. U. S. Dept. Agr., p. 332.

**Teras permutana.** Dupon.

1881. Larva. *Coquillett.* Papilio, vol. 1, p. 30.

1883. Larva. *Coquillett.* Papilio, vol. 3, p. 100.

FOOD PLANT. *Salix.*

**Teras ferrugana.** Schiff.

1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 2, p. 235.

FOOD PLANT. *Betula.*

**Teras ocycoceana.** Packard.

1881. Egg. *Riley.* Papilio, vol. 1, p. 110.

**Teras cinderella.** Riley.

1872. Larva, pupa, (figs.) *Riley.* 4th Missouri Rept., p. 46.

1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 255.

1883. Larva, pupa, (figs.) *Saunders.* Ins. Inj. Fruits, p. 98.

FOOD PLANT. *Pyrus*, (Apple.)

**Teras malivorana.** Le Baron.

1871. Larva, pupa. *Le Baron.* 4th Illinois Rept., p. 20.

1871. Larva, pupa. *Le Baron.* Amer. Naturalist, vol. 5, p. 210.

1872. Larva, pupa, (figs.) *Riley.* 4th Illinois Rept., p. 47.

1877. Larva. *French*, (quotes Le Baron.) Trans. Dept. Agr. Ill., vol. 15, p. 254.

1883. Larva, pupa. *Saunders.* Ins. Inj. Fruits, p. 92.

FOOD PLANT. *Pyrus*, (Apple.)

**Teras vacciniivorana.** Packard.

1883. Larva, pupa, (figs.) *Saunders.* Ins. Inj. Fruits, p. 370.

FOOD PLANT. *Vaccinium.*

**Teras variana.** Fernald.

1885. Larva. *Packard.* Bulletin No. 12, U. S. Dept. Agr., p. 18.

FOOD PLANT. *Abies.*

**Cacœcia rosaceana.** Harris.

1841. Larva, pupa. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 348.

1852. Life history, (brief.) *Harris.* Ins. Inj. Vegetat., 2d edit., p. 375.

1854. Egg, larva, pupa, (figs.) *Emmons.* Nat. Hist. N. York, vol. 5, p. 250, pl. 6.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, pp. 346, 358.  
 1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 480.  
 1869. Larva. *Packard*. Guide to Study of Ins., p. 335.  
 1871. Larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 379.  
 1873. Larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 14.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 256.  
 1877. Larva. *Packard*. Half-hours with Insects, p. 61.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 153.  
 1883. Larva. *Coquillett*. Papilio, vol. 3, p. 100.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 90.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 441.  
 FOOD PLANTS. *Rosa*, *Pyrus*, etc.

**Cacœcia rosana.** Linn.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 204.  
 FOOD PLANTS. *Rosa*, etc.

**Cacœcia cerasivorana.** Fitch.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 382.  
 1883. Larva. *Coquillett*. Papilio, vol. 3, p. 102.  
 1883. Larva. *Saunders*. Ins. Inj. Fruits, p. 215.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 441.  
 FOOD PLANT. *Cerasus virginiana*.

**Cacœcia rileyana.** Grote.

1869. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 153.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 256.  
 1881. Larva. *Packard*, (quotes Riley.) Ins. Inj. Forest Trees p. 82.  
 FOOD PLANTS. *Carya*, *Symphoricarpos*, etc.

**Cacœcia argyrosipila.** Walker.

1879. Pupa, (brief.) *Walsingham*. Illus. Lep. Heteroc. B. Mus., vol. 4, p. 9.  
 1886. Larva, pupa. *Packard*. Rept. U. S. Dept. Agr., p. 330.  
 FOOD PLANTS. Various trees and shrubs.

**Cacœcia semiferana.** Walker.

1883. Larva. *Coquillett*. Papilio, vol. 3, p. 100.  
 FOOD PLANT. *Polygonum*.

**Cacœcia fervidana.** Clemens.

1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 154.  
 FOOD PLANTS. *Cerasus*, *Quercus*.

**Loxotænia afflictana.** Walker.

1879. Larva, (brief.) *Walsingham*. Lep. Heteroc. B. Mus., vol. 4, p. 15.  
 FOOD PLANT. *Abies*.

**Ptycholoma persicana.** Fitch.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 357.  
 1883. Larva. *Saunders*. Ins. Inj. Fruits, p. 197.  
 FOOD PLANT. *Persica vulgaris*, (Peach.)

**Lophoderus ministrana.** Linn.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 192.  
 FOOD PLANT. *Corylus*.

**Lophoderus triferana.** Walker.

1870. Larva. *Packard*. Inj. Ins., new or little known, p. 8.  
 FOOD PLANT. *Ocyrococcus*.

**Tortrix quercifoliana.** Fitch.

1858. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 826.  
 1877. Larva, pupa. *Emma A. Smith*. Trans. Dept. Agr. Ill., vol. 15, p. 114.  
 1879. Larva, pupa, (figs.) *C. Thomas*. Trans. Dept. Agr. Ill., vol. 17, Append., p. 142.  
 1880. Larva. *Coquillett*. Papilio, vol. 3, p. 100.  
 FOOD PLANT. *Quercus*,

- Tortrix fumiferana.** Clemens.  
1885. Egg, larva. *Fernald.* Kingsley's Stand. N. Hist., vol. 2, p. 442.  
FOOD PLANTS. *Abies, etc.*
- Tortrix pallorana.** Robinson.  
1883. Larva. *Coquillett.* Papilio, vol. 3, p. 100.  
FOOD PLANTS. *Verbena, Cerasus, etc.*
- Tortrix bergmanniana.** Linn.  
1837. Life history, (figs.) *Westwood.* London's Gardeners' Magazine, No. 90  
1810. Larva, pupa, (figs.) *Westwood.* Intr. Mod. Class. Ins., vol. 2, p. 403, fig. 111.  
1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 2, p. 228.  
FOOD PLANT. *Rosa.*
- Synnoma linosyrana.** Walsingham.  
1879. Larva, cocoon. *Walsingham.* Illus. Lep. Heteroc. B. Mus., vol. 4, p. 25.  
FOOD PLANT. *Linosyris viscidiflora.*
- Cnecetra senecionana.** Walsingham.  
1879. Larva, (brief.) *Walsingham.* Illus. Lep. Heteroc. B. Mus., vol. 4, p. 17.  
FOOD PLANT. *Senecio.*
- Cnecetra pilleriana.** Schiff.  
1857. Life history, (fig.) *Chenu—Demarets.* Encyl. Hist. Nat. Papillons, vol. 2, p. 242, pl. 32.  
1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 2, p. 197.  
FEEDS in pods of *Iris.*
- Cenopsis reticulatana.** Clemens.  
1883. Larva. *Coquillett.* Papilio, vol. 3, p. 99.  
FOOD PLANTS. *Geranium, Chenopodium.*
- Dichelia sulfureana.** Clemens.  
1883. Larva. *Coquillett.* Papilio, vol. 3, p. 99.  
1885. Larva. *Hubbard.* Ins. Affect. Orange, p. 154.  
FOOD PLANTS. *Verbena, Pinus, Citrus.*
- Platynota rostrana.** Walker.  
1883. Larva. *Saunders.* Ins. Inj. Fruits, p. 381.  
1885. Larva, pupa, (fig.) *Hubbard.* Ins. Affect. Orange, p. 152.  
FOOD PLANTS. *Citrus, etc.*
- Conchylis rutilana.** Hübner.  
1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 2, p. 277.  
1878. Life history, (fig.) *Riley.* Rept. U. S. Dept. Agr., p.  
1880. Larva. *Coquillett,* (quotes *Riley.*) Trans. Dept. Agr. Ill., vol. 18, Append., p. 153.  
1881. Larva, pupa, (fig.) *Packard,* (quotes *Riley.*) Ins. Inj. Forest Trees, p. 249.  
FOOD PLANT. *Juniperus.*
- Retinia frustrana.** Scudder.  
1879. Larva, (fig.) *J. H. Comstock.* Rept. Dept. Agr., p. 236.  
1881. Larva, pupa, (figs.) *Packard,* (after *Comstock.*) Ins. Inj. Forest Trees, p. 193.  
1883. Life history, (col'd figs.) *Scudder.* Publ. Massach. Soc. Prom. Agr.  
FOOD PLANT. *Pinus rigida.*
- Retinia rigidana.** Fernald.  
1879. Larva. *J. H. Comstock.* Rept. Dept. Agr., p. 236.  
1881. Larva. *Packard,* (quotes *Comstock.*) Ins. Inj. Forest Trees, p. 191.  
FOOD PLANT. *Pinus rigida.*
- Retinia sylvestrana.** Curtis.  
1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 2, p. 248.  
FOOD PLANT. *Pinus.*
- Retinia comstockiana.** Fernald.  
1879. Larva, pupa, (fig.) *J. H. Comstock.* Rept. U. S. Dept. Agr., p. 235.

1881. Larva, pupa, (figs.) *Packard*, (quotes Comstock.) *Ins. Inj. Forest Trees*, p. 189.
1883. Larva, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 58.  
FOOD PLANT. *Pinus rigida*.
- Eudemis botrana.** Schiff. = **vitivorana.** Pack.  
1869. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 133.  
1869. Larva. *Packard*. *Guide to Study of Ins*, p. 336.  
1870. Larva, cocoon, (figs.) *T. Glover*, (quotes Riley.) *Rept. U. S. Dept. Agr.*, p. 86.  
1877. Larva. *French*, (quotes Packard.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 257.  
1881. Larva, pupa. *W. W. Goldsmith*, (quotes Riley.) *Rept. Kentucky Bureau Agr.*, p. 257.  
1882. Larva, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 67.  
1882. Life history. *Saunders*. *Canad. Entom.*, vol. 14, p. 178.  
1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 102.  
1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 299.  
1883. Larva, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 26.  
1883. Larva, (fig.) *T. J. Edge*. *Agr. Penusylv.*, p. 71.  
FOOD PLANTS. *Vitis*, *Circium lanceolatum*.
- Bactra lanceolana.** Hübn.  
1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 226.  
FOOD PLANT. *Juncus*.
- Eccopsis fagigemmaeana.** Chambers.  
1878. Larva, case. *Chambers*. *Canad. Entom.*, vol. 10, p. 75.  
FOOD PLANT. *Fagus sylvatica*.
- Eccopsis permundana.** Clemens.  
1883. Larva. *Saunders*. *Ins. Inj. Fruits*, p. 324.  
1883. Larva. *S. A. Forbes*, (quotes Saunders.) *Trans. Wisconsin Agr. Soc.*, p. 13.  
1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 102.  
1886. Larva, pupa *Packard*. *Rept. Entom., Dept. Agr.*, p. 331.  
FOOD PLANTS. *Rosa*, *Spiraea*, *Corylus*.
- Eccopsis versicolorana.** Clem.  
1886. Pupa. *Packard*. *Rept. Entom. U. S. Dept. Agr.*, p. 331.
- Eccopsis fasciatana.** Clemens.  
1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 153.  
FOOD PLANT. *Rumex*.
- Eccopsis malana.** Fernald.  
1883. Larva. *Saunders*. *Ins. Inj. Fruits*, p. 97.
- Penthina nimbatana.** Clemens.  
1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 153.  
1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 101.  
FOOD PLANT. *Rosa blanda*.
- Penthina osmundana.** Fernald.  
1879. Larva, (brief.) *Fernald*. *Canad. Entom.*, vol. 11, p. 157.  
FOOD PLANT. *Osmunda regalis*.
- Penthina capreana.** Hübn.  
1859. Larva, (brief.) *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 194.  
FOOD PLANT. *Salix*.
- Penthina hebesana.** Walker.  
1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 101.  
FOOD PLANT. *Stachys palustris*.
- Penthina cyanana.** Murtfeldt.  
1880. Larva, pupa. *Mary E. Murtfeldt*. *Amer. Entom.*, vol. 1, 2d ser., p. 15.
- Pædisca saligneana.** Clemens.  
1870. Larva, (figs.) *Riley*. 2d Missouri Rept., p. 134.

1878. Larva, pupa. *D. Kellicott*. *Canad. Entom.*, vol. 10, p. 202.

FOOD PLANT. *Solidago*, (forming galls).

**Pædisca scudderiana.** Clemens.

1882. Life history, (brief.) *D. Kellicott*. *Canad. Entom.*, vol. 14, p. 161.

FOOD PLANT. *Solidago*, (forming galls.)

**Semasia artemisiana.** Walsingham.

1879. Larva, (brief.) *Walsingham*. *Lep. Heteroc. B. Mus.*, vol. 4, p. 57.

FOOD PLANT. *Artemisia*.

**Tmetocera ocellana.** Schiff.

1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 349.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 377.

1856. Larva. *Fitch*. 3d Rept. Nox. *Ins. N. York*, p. 345.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 219.

1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 482.

1870. Larva. *Packard*. *Inj. Ins.*, new or little known, p. 1.

1871. Larva, (fig.) *E. B. Reed*. *Rept. Entom. Soc. Ontario*, p. 366.

1876. Larva. *G. H. Perkins*. 2d Rept. Vermont State Board Agr., p. 588.

1877. Larva. *Packard*. *Half-hours with Insects*, p. 181.

1883. Larva, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 95.

1885. Larva, (fig.) *J. Fletcher*. *Rept. Entom. Dept. Agr. Ontario*, p. 24.

FOOD PLANTS. *Pyrus malus* and other trees.

**Steganoptycha angustana.** Hübn.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 191.

FOOD PLANT. *Salix*.

**Steganoptycha claypoleana.** Riley.

1883. Larva, (brief.) *Riley*. *Papilio*, vol. 3, p. 191.

FOOD PLANT. *Eschulus*.

**Rhopobota vacciniana.** Packard.

1869. Larva, pupa. *Packard*. *Guide to Study of Ins.*, p. 339.

1870. Larva, cocoon. *T. Glover*. *Rept. U. S. Dept. Agr.*, p. 85.

1883. Larva, pupa, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 369.

FOOD PLANT. *Vaccinium*.

**Phoxopteris nubeculana.** Clemens.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 153.

1883. Larva, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 99.

FOOD PLANT. *Pyrus malus*, (Apple.)

**Phoxopteris lundana.** Fabr.

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 225.

FOOD PLANTS. *Lathyrus*, *Vicia*.

**Phoxopteris fragariæ.** Walsh.

1869. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 142.

1869. Larva, (figs.) *Packard*. *Guide to Study of Ins.*, p. 340.

1887. Larva. *French*, (quotes Riley.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 258.

1880. Larva, (fig.) *A. S. Fuller*. *Amer. Entom.*, vol. 1, 2d ser., p. 110.

1883. Larva, (fig.) *S. A. Forbes*. *Trans. Wisconsin Agr. Soc.*, vol. 21, p. 12.

1883. Larva, pupa, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 223.

FOOD PLANT. *Fragaria*.

**Phoxopteris spiræafoliانا.** Clem.

1889. Larva. *W. Beutenmüller*. *Entom. Amer.*, vol. 5., p. 39.

**Grapholitha caryana.** Fitch.

1856. Larva, pupa. *Fitch*. 3d Rept. *Ins. N. York*, p. 459.

1881. Larva. *Packard*, (quotes Fitch.) *Ins. Inj. Forest Trees*, p. 83.

FEEDS on the rind of nuts of *Carya*, *Juglans*.

**Grapholitha prunivora.** Walsh.

1869. Larva. *Walsh*. 1st Illinois Report, p. 78.

FOOD PLANT. *Prunus*.

**Carpocapsa pomonella.** Linn.

1819. Life history. *J. Tufts*. Massachusetts Agr. Repository.  
 1832. Life history, (brief.) *Harris*. Trans. Mass. Hort. Soc., p. 42.  
 1837. Life history, (figs.) *Kollar*. Inj. Ins. (London's edit.), p. 229.  
 1838. Life history, (brief.) *Westwood*. London's Gardeners' Magazine.  
 1840. Larval stages, pupa. *J. Burrelle*. N. Engl'd Farmer, vol. 18, p. 398.  
 1840. Larva, pupa, (col'd figs.) *Rutzeburg*. Die Forst-Insecten, vol. 2, p. 234, pl. 14.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 351.  
 1843. Larva. *W. Gaylord*. Trans. N. York State Agr. Soc., p. 158.  
 1843. Larva. *Harris*. N. Engl'd Farmer, vol. 22, p. 13.  
 1852. Life history. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 379.  
 1855. Larva, pupa, (figs.) *Fitch*. 2d Rept. Ins. N. York, p. 221.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 347.  
 1857. Life history. *Chenu—Demarets*. Encyc. Hist. Nat. Papillons, vol. 2, p. 247.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 253.  
 1859. Larva, (col'd fig.) *Humphreys*. Gener. Brit. Moths, pl. 51.  
 1862. Life history. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 484.  
 1863. Larva, (figs.) *J. G. Wood*. Nat. Hist., vol. 2, p. 542.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 179.  
 1865. Larva. *Walsh*. Practical Entom., p. 34.  
 1869. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 62.  
 1869. Life history. *Walsh*. 1st Illinois Rept., p. 27.  
 1869. Larva, cocoon, (brief.) *Packard*. Guide to Study of Ins., p. 341.  
 1870. Larva, pupa, (figs.) *T. Glover*. Rept. U. S. Dept. Agr., p. 86.  
 1871. Larva, (fig.) *Saunders*. Canad. Entom., vol. 3, p. 27.  
 1871. Larva, pupa, (fig.) *Bethune*. Rept. Entom. Soc. Ontario, p. 355.  
 1873. Larva, cocoon, pupa, (figs.) *A. J. Cook*. 12th Rept. Michigan Board Agr., p. 123.  
 1873. Life history, (figs.) *Le Baron*, (after *Riley*.) 4th Ill. Rept., p. 167.  
 1874. Larva, cocoon, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 42.  
 1876. Larva, cocoon, pupa, (figs.) *G. H. Perkins*. 3d Rept. Vermont Board Agr., p. 583.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 260.  
 1877. Larva, cocoon, pupa. *Packard*. Half-hours with Ins., p. 191.  
 1877. Larva, pupa, (fig.) *Packard*. Ins. Inj. West, Hayden's Rept., p. 794.  
 1877. Larva, cocoon, pupa, (fig.) *B. Gott*. Rept. Entom. Soc. Ontario, p. 46.  
 1878. Larva, cocoon, pupa, (fig.) *S. S. Rathvon*. Agr. Pennsylv., p. 605.  
 1879. Larva, pupa, (fig.) *H. Cutting*. Rept. N. Hampshire Board Agr., p. 24.  
 1880. Larva, cocoon, pupa, (figs.) *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 151.  
 1882. Life history, (brief.) *Bethune*. 12th Rept. Entom. Soc. Ontario, p. 76.  
 1882. Larva, (col'd fig.) *W. F. Kirby*. Europ. Butt. and Moths, p. 413, pl. 62.  
 1883. Larva, cocoon, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 129.  
 1883. Larva, cocoon, pupa, (figs.) *S. S. Rathvon*. Agr. Pennsylv., p. 50.  
 1885. Egg, larva, cocoon. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 442.  
 1885. Larva. *Lintner*. Rept. Massachusetts Board Agr., p. 184.  
 1885. Larva, cocoon, pupa, (figs.) *A. J. Cook*. 24th Rept. Michigan Board Agr., p. 171.  
 1877. Larva, pupa, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Canad., p. 19.  
 1888. Larva, pupa, (figs.) *J. Fletcher*. Rept. Bot. Entom. Canad., p. 19.  
 1888. Life history, (col'd figs.) *L. O. Howard*. Rept. Entom. Dept. Agr., p. 68, pl. 2.

FEEDS on the fruit of *Pyrus*, (Apple.)

**Carpocapsa saltitans.** Westwood.

1876. Larva, pupa. *Riley*. Amer. Natural., vol. 10, p. 216.

1888. Larva, pupa, (figs.) *Lintner*. 4th Rept. N. York State Entom., p. 151.  
FEEDS in seed-pods of *Euphorbiaceous* plant.

## TINEIDÆ.

**Anaphora agrotipennella.** Grote.

1876. Larva, pupa. *Miss M. E. Murtfeldt*. Canad. Entom., vol. 8, p. 185.

**Solenobia walshella.** Clemens.

1861. Larva, (brief.) *Clemens*, (quotes Walsh in lit.) Proc. Entom. Soc. Philad., vol. 1, p. 132.

1872. Larva, cocoon. *Clemens*. Tineina of N. Amer. (Stainton), p. 182.

FOOD PLANT. *Lichens*.

**Xylesthia pruniramiella.** Clemens.

1859. Larva. *Clemens*. Proc. Acad. N. Sc., Philad., September.

1872. Larva. *Clemens*. Tineina of N. Amer. (Stainton), p. 54.

FEEDS on woody nodules of plum trees.

**Tinea tapetzella.** Linn.

1857. Larva, case. *Chenu—Demarets*. Encyc. Hist. Nat. Papillons, vol. 2, p. 289.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 290.

1859. Larva. *Hampreys*. Gener. Brit. Moths, p. 167.

1864. Larva, cocoon. *Jaeger*. Life N. Amer. Ins., p. 186.

1872. Larva, cocoon, (figs.) *L. Figuier*. Insect world, p. 280.

1877. Larva, cocoon, (fig.) *Packard*. Half-hours with Insects, p. 311.

FEEDS on woolen fabrics.

**Tinea pellionella.** Linn.

1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 361.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 293.

1859. Egg, larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., September.

1867. Larva, case, pupa, (fig.) *Packard*, (as *T. flavifrontella*.) Amer. Naturalist, vol. 1, p. 423.

1872. Egg, larva. *Clemens*. Tineina of N. Amer. (Stainton), p. 51.

1873. Larva, case, pupa, (fig.) *J. Williams*, (as *T. flavifrontella*.) Rept. Entom. Soc. Ontario, p. 27.

1873. Larva, pupa. *A. J. Cook*, (as *T. flavifrontalis*.) 12th Rept. Michigan Board Agr., p. 151.

1885. Larva, case, pupa. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 439.

FEEDS on woolen fabrics, feathers, etc.

**Tinea biselliella.** Hummel.

1859. Larva, (brief.) *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 293.

1859. Egg, larva. *Clemens*, (as *T. carnariella*.) Proc. Acad. Nat. Sc. Philad., September.

1872. Egg, larva. *Clemens*. Tineina N. Amer. (Stainton), p. 52.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 265.

FEEDS on hair, feathers, etc.

**Tinea granella.** Linn.

1837. Life history. *Koller*. Inj. Insects (London's edit.), p. 111.

1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 366.

1842. Larva, pupa, (figs.) *Curtis*. Journ. Royal Agric. Soc. England, p. 65.

1852. Life history, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 390.

1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 256.

1857. Life history. *Chenu—Demarets*. Encyc. Hist. Nat. Papillons, vol. 2, p. 290.

1859. Larva, (brief.) *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 291.

1862. Egg, larva, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 494.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 266.

1877. Larva. *Packard*. Inj. Ins. West, Hayden's Rept., p. 715.

1883. Larva, (fig.) *T. J. Edge*. Agr. Pennsylv.



1885. Egg, larva, pupa, (figs.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 439.

FEEDS ON corn in granaries.

**Tinea dorsitrigella.** Clemens.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 262.

FEEDS ON woolen fabrics, etc.

**Eudarcia simulatricella.** Clemens.

1873. Larva, case. *F. T. Chambers*, (as *T. eunitariella*.) Canad. Entom., vol. 5, p. 85.

**Incurvaria acerfoliella.** Fitch.

1856. Larva. *Fitch*. 2d Rept. Ins. N. York, p. 269.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 114.

1885. Larva. *J. Fletcher*. Rept. Entom. Dept. Agr. Ontario, p. 31.

FOOD PLANT. *Acer*.

**Hyponomeuta evonymella.** Chambers.

1872. Larva. *Chambers*. Canad. Entom., vol. 4, p. 42.

FOOD PLANT. *Euonymus atropurpureus*.

**Conuba yuccasella.** Riley.

1873. Life history, (figs.) *Riley*. 5th Missouri Rept., p. 150.

1873. Larva, pupa, (figs.) *Packard*, (quotes *Riley*.) Amer. Naturalist, vol. 7, p. 477.

1874. Pupa, (fig.) *Riley*. 6th Missouri Rept., p. 131.

FOOD PLANT. *Yucca*.

**Prodoxus decipiens.** Riley.

1880. Larva, case, pupa. *Riley*. Amer. Entom., vol. 1, 2d ser., p. 143.

**Plutella cruciferarum.** Zeller.= **limbipennella.** Clem.

1856. Larva, case, pupa, (figs.) *Fitch*, (as *C. brassicella*.) 1st Rept. Ins. N. York, p. 172.

1871. Larva, case, (figs.) *T. Glover*. Rept. U. S. Dept. Agr., p. 82.

1872. Larva, pupa, (figs.) *T. Glover*. Trans. N. York Agr. Soc., p. 82.

1877. Larva, case, (fig.) *Packard*. Half-hours with Insects, p. 59.

1877. Larva, case, pupa. *Packard*, (as *P. xylostella*.) Inj. Ins. West, Hayden's Rept., p. 751.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 267.

1879. Larva, pupa. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 17, Append., p. 52.

1885. Larva, cocoon. *Fernald*, (as *P. xylostella*.) Kingsley's Stand. N. Hist., vol. 2, p. 440.

FOOD PLANT. *Cruciferae*.

**Depressaria heracliana.** De Geer.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 329.

1869. Larva. *Bethune*, (as *D. ontariella*.) Canad. Entom., vol. 2, p. 1.

1880. Larva, cocoon, pupa. *A. J. Cook*. 19th Rept. Michigan Board Agr., p. 275.

1883. Larva. *Hy. Edwards*. Papilio, vol. 3, p. 24.

1888. Larva, pupa, (figs.) *Riley*. Ins. Life, vol. 1, p. 94.

FEEDS in stems of *Umbelliferae*.

**Depressaria hilarella.** Zeller.

1883. Larva. *Coquillett*. Papilio, vol. 3, p. 98.

FOOD PLANT. *Sanicula*.

**Depressaria grotella.** Robinson.

1883. Larva. *Coquillett*. Papilio, vol. 3, p. 98.

FOOD PLANT. *Corylus americana*.

**Depressaria afrodorrella.** Clemens.

1883. Larva. *Coquillett*. Papilio, vol. 3, p. 98.

FOOD PLANT. *Bidens frondosa*.

**Depressaria pulvipennella.** Clemens.1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 97.FOOD PLANT. *Solidago*.**Depressaria robinella.** Packard.1881. Larva, (brief.) *Packard*. *Ins. Inj. Forest Trees*, p. 98.FOOD PLANT. *Robinia*.**Adrasteia quercifoliella.** Chambers.1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 207.FOOD PLANT. *Quercus*.**Cryptolechia quercicella.** Clemens.1860. Larva. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, June.1872. Larva. *Clemens*. *Tineina N. Amer. (Stainton)*, p. 150.1872. Larva. *Chambers*, (as *H. faginella*). *Canad. Entom.*, vol. 4, p. 132.FOOD PLANT. *Quercus*.**Cryptolechia tentoriferella.** Clemens.1860. Larva, cocoon, pupa. *Clemens*. *Proc. Acad. N. Sc. Philad.*, June.1872. Larva, cocoon, pupa. *Clemens*. *Tineina N. Amer. (Stainton)*, p. 150.FOOD PLANTS. *Quercus*, *Cerasus*, *Carya*.**Gelechia robinella.** Fitch.1858. Larva. *Fitch*, (as *Anacampsis robinella*.) 5th Rept. *Ins. N. York*, p. 834.FOOD PLANT. *Robinia*.**Gelechia solaniella.** Chambers.1873. Larva. *Chambers*. *Canad. Entom.*, vol. 5, p. 176.1878. Larva, cocoon. *Chambers*, (quotes *Miss Murtfeldt* in lit.) *Canad. Entom.*, vol. 10, p. 51.FOOD PLANT. *Solanum carolinense*.**Gelechia querciella.** Chambers.1872. Larva. *Chambers*, (as *Dep. quer.*) *Canad. Entom.*, vol. 4, p. 128.FOOD PLANT. *Quercus*.**Gelechia juncidella.** Clemens.1871. Larva, case, pupa. *Miss Murtfeldt*, (as *Dep. dubitella*.) *Canad. Entom.*, vol. 6, p. 221.FOOD PLANT. *Ambrosia*.**Gelechia cercerisella.** Chambers.1872. Larva. *Chambers*, (as *Depr. cerc.*) *Canad. Entom.*, vol. 4, p. 108.FOOD PLANT. *Cercis canadensis*.**Gelechia platanella.** Chambers.1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 146.FOOD PLANT. *Platanus occidentalis*.**Gelechia gallægenitella.** Clemens.1864. Larva. *Clemens*. *Proc. Entom. Soc. Philad.*, vol. 2, p.1872. Larva. *Clemens*. *Tineina, N. Amer. (Stainton)*, p. 243.

FEEDS on oak-galls.

**Gelechia cerealella.** Olivier.1768. Larval stages, habits. *Landon Carter*. *Trans. Amer. Philos. Soc.*, vol. 1.1833. Larva. *E. Ruffin*. *Farmers' Register*.1846. Life history, (figs.) *Rd. Owen*. *The Cultivator*, July and November.1847. Larva. *E. Ruffin*. *Amer. Agr.*, pp. 52, 93.1852. Life history, (brief.) *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 392.1854. Larva. *Emmons*. *N. Hist. N. York*, vol. 5, p. 254.1861. Life history. *Fitch*. 1st Rept. *Ins. N. York*, p. 814.1862. Egg, larva. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 501.1864. Larva. *Jaeger*. *Life N. Amer. Ins.*, p. 184.1867. Larva. *Tenney*. *Nat. Hist.*, p. 411.1871. Larva. *Bethune*. *Rept. Entom. Soc. Ontario*, p. 401.1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 266.

1877. Larva, (fig.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 714.

1885. Life history, (figs.) *Lintner*. 2d Rept. N. York State Entom., p. 103.

FEEDS on grain of wheat, barley, etc.

**Gelechia agrimoniella.** Clemens.

1860. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., May.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 112.

1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 98.

FOOD PLANT. *Agrimonia eupatoria*.

**Gelechia rhoifruetella.** Clemens.

1860. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., May.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 114.

1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 99.

FOOD PLANTS. *Rhus*, *Populus*.

**Gelechia fungivorella.** Clemens.

1864. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 2, p.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 262.

FEEDS on galls of *Salix*.

**Gelechia salicifungella.** Clemens.

1864. Larva. Proc. Entom. Soc. Philad., vol. 2, p.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 262.

FEEDS on galls of *Salix*.

**Gelechia scutellariella.** Chambers.

1873. Larva. *Chambers*. *Canad. Entom.*, vol. 5, p. 175.

FOOD PLANT. *Scutellaria*.

**Gelechia rubensella.** Chambers.

1874. Larva. *Miss Murtfeldt*. *Canad. Entom.*, vol. 6, p. 221.

FOOD PLANT. *Quercus*.

**Gelechia ambrosiella.** Chambers.

1875. Larva. *Chambers*. *Cincinnati Quart. Jour. Sc.*, p. 240.

FOOD PLANT. *Ambrosia*.

**Gelechia pseudacaciella.** Chambers.

1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 107.

1879. Larva. *J. H. Comstock*. Rept. U. S. Dept. Agr., p. 253.

1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 65.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 99.

FOOD PLANT. *Robinia pseudacacia*.

**Gelechia pinifoliella.** Chambers.

1879. Egg, larva, pupa, (figs.) *Comstock*. Rept. U. S. Dept. Agr., p. 240.

1881. Larva, pupa, (figs.) *Packard*, (quotes *Comstock*.) Ins. Inj. Forest Trees, p. 208.

1883. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 59.

FOOD PLANT. *Pinus rigida*.

**Gelechia robinifoliella.** Chambers.

1879. Larva, pupa. *Comstock*. Rept. U. S. Dept. Agr., p. 225.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 99.

FOOD PLANT. *Robinia*.

**Gelechia physaliella.** Chambers.

1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 173.

FOOD PLANT. *Physalis ramosa*.

**Gelechia quinqueannulella.** Chambers.

1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 192.

FOOD PLANT. *Quercus tinctoria*.

**Gelechia quercinigræella.** Chambers.

1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 171.

FOOD PLANT. *Quercus nigra*.

- Gelechia quercivorella.** Chambers.  
1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 173.  
FOOD PLANT. *Quercus*.
- Gelechia discococella.** Chambers.  
1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 98.  
FOOD PLANT. *Polygonum*.
- Gelechia obliquistrigella.** Chambers.  
1885. Larva, pupa. *Packard*. *Bulletin No. 12, U. S. Dept. Agr.*, p. 21.  
FOOD PLANT. Buds of *Abies*.
- Gelechia trististrigella.** Walsingham.  
1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 99.  
FOOD PLANT. *Corylus*.
- Gelechia prunifoliella.** Chambers.  
1873. Larva. *Chambers*, (as *Evippe prunif.*) *Canad. Entom.*, vol. 5, p. 186.  
FOOD PLANT. *Prunus*.
- Gelechia gallæsolidaginis.** Riley.  
1869. Life history, (figs.) *Riley*. *1st Missouri Rept.*, p. 173.  
FEEDS in galls of *Solidago*.
- Gelechia abietisella.** Packard.  
1884. Larva. *Packard*. *Amer. Naturalist*, vol. 18, p. 296.
- Gelechia gallæasterella.** Kellicott.  
1878. Larva, pupa. *Kellicott*. *Canad. Entom.*, vol. 10, p. 203.
- Gelechia flavocortella.** Clemens.  
1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 153.  
FOOD PLANT. *Helianthus*.
- Gelechia beneficentella.** Murtfeldt.  
1881. Larva, pupa. *Mary E. Murtfeldt*. *Canad. Entom.*, vol. 13, p. 215.  
FOOD PLANT. *Solanum carolinense*.
- Gelechia cinerella.** Murtfeldt.  
1881. Larva, cocoon. *Mary E. Murtfeldt*. *Canad. Entom.*, vol. 13, p. 244.  
FOOD PLANT. *Solanum carolinense*.
- Gelechia formosella.** Murtfeldt.  
1881. Larva, cocoon. *Mary E. Murtfeldt*. *Canad. Entom.*, vol. 13, p. 244.  
FOOD PLANT. Laurel oak, (*Quercus*.)
- Gelechia chambersella.** Murtfeldt.  
1881. Larva, cocoon. *Mary E. Murtfeldt*. *Canad. Entom.*, vol. 13, p. 243.  
FOOD PLANT. *Ambrosia*.
- Trypanisma prudens.** Clemens.  
1860. Larva, pupa. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, May.  
1872. Larva, pupa. *Clemens*. *Tineina N. Amer.* (Stainton), p. 126.  
FOOD PLANT. *Quercus*.
- Menesta tortriciformella.** Clemens.  
1875. Larva, cocoon. *Chambers*, (as *Hyale corylicella*.) *Cincinnati Quart. Jour. Sc.*, p. 242.  
FOOD PLANT. *Corylus*.
- Anarsia lineatella.** Zeller.  
1860. Larva. *Clemens*, (as *A. pruniella*.) *Proc. Acad. Nat. Sc. Philad.*, May.  
1872. Larva. *Clemens*. *Tineina N. Amer.* (Stainton), p. 128.  
1878. Larval stages. *Lintner*. *Rept. N. York State Agr. Soc.*, p. 69.  
1879. Larva. *J. H. Comstock*. *Rept. U. S. Dept. Agr.*, p. 255.  
1883. Larva, (fig.) *S. A. Forbes*. *Trans. Wisconsin Agr. Soc.*, vol. 21, p. 26.  
1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 321.  
FOOD PLANTS. *Persica*, *Fragaria*.
- Ypsolophus querciella.** Chambers.  
1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 223.  
FOOD PLANT. *Quercus*.

**Ypsolophus caryæfoliella.** Chambers.1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 224.FOOD PLANT. *Carya alba*.**Ypsolophus pometellus.** Harris, (and vars.)1853. Larva, pupa. *Harris*. *Jour. N. York State Agr. Soc.*, p. 103.1851. Larva. *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 254.1856. Larva. *Fitch*. 2d Rept. *Ins. N. York*, p. 231.1857. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 345.1872. Larva. *Chambers*, (as *Y. quercipomonella*.) *Canad. Entom.*, vol. 4, p. 223.1877. Larva. *Packard*. Half-hours with *Insects*, p. 183.1882. Larva, (brief.) *Walsingham*. *Trans. Amer. Entom. Soc.*, vol. 10, p. 187.FOOD PLANT. *Pyrus*. (Oak-galls. *Fitch*.)**Nothris setosella.** Clemens.1872. Larva. *Chambers*, (as *Yps. eupatoriella*.) *Canad. Entom.*, vol. 4, p. 221.FOOD PLANT. *Eupatorium*.**Ncthris trinotella.** Coquillett.1883. Larva. *Coquillett*. *Papilio*, vol. 3, p. 10.FOOD PLANT. *Corylus*.**Nothris citrifoliella.** Chambers.1879. Larva. *J. H. Comstock*. *Rept. U. S. Dept. Agr.*, p. 205.1883. Larva, pupa. *Saunders*. *Ins. Inj. Fruits*, p. 382.1885. Larva. *Hubbard*, (quotes *Comstock*.) *Ins. Inj. Orange*, p. 154.FOOD PLANT. *Citrus*.**Blastobasis glandulella.** Riley.1872. Larva. *Riley*. *Canad. Entom.*, vol. 4, p. 19.1872. Larva, pupa, (figs.) *Riley*. 4th *Missouri Rept.*, p. 144.1881. Larva, (fig.) *Packard*, (quotes *Riley*.) *Ins. Inj. Forest Trees*, p. 53.

FEEDS in acorns.

**Blastobasis citricolella.** Chambers.1879. Larva. *J. H. Comstock*. *Rept. Dept. Agr.*, p. 206.FEEDS in fruit of *Orange*.**Blastobasis coccivorella.** Chambers.1879. Larva. *J. H. Comstock*. *Rept. U. S. Dept. Agr.*, p. 244.FEEDS on insects of the family *Coccide*.**Lithariapteryx abroniella.** Chambers.1876. Larva. *Chambers*. *Canad. Entom.*, vol. 8, p. 219.FOOD PLANT. *Ambrosia fragrans*.**Butatis fuscicomella.** Clemens.1860. Egg. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, May.1872. Egg. *Clemens*. *Tineina N. Amer.* (*Stainton*), p. 126.**Butatis matutella** (?). Clemens.1874. Larva. *Chambers*. *Canad. Entom.*, vol. 6, p. 9.FOOD PLANTS. *Ambrosia*, etc.**Antispila viticordifoliella.** Clemens.1860. Larva. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, June.1872. Larva. *Clemens*. *Tineina N. Amer.* (*Stainton*), p. 142.1879. Case, (brief.) *Chambers*. *Canad. Entom.*, vol. 11, p. 126.1880. Larva. *Chambers*. *Psyche*, vol. 3, pp. 63, 149.FOOD PLANT. *Vitis*.**Antispila isabella.** Clemens.1860. Larva. *Clemens*. *Proc. Acad. Nat. Sc. Phila.*, June.1872. Larva. *Clemens*. *Tineina N. Amer.* (*Stainton*), p. 142.1879. Case, (brief.) *Chambers*. *Canad. Entom.*, vol. 11, p. 126.FOOD PLANT. *Vitis*.**Antispila nyssæfoliella.** Clemens.1860. Larva, cocoon. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, January.

1872. Larva, cocoon. *Clemens*. *Tineina* N. Amer. (Stainton), pp. 20, 102.

1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 63.

FOOD PLANT. *Nyssa multiflora*.

***Antispila cornifoliella*. Clemens.**

1860. Larva. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, January.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 103.

1879. Case, (brief.) *Chambers*. *Canad. Entom.*, vol. 11, p. 126.

1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 149.

FOOD PLANT. *Cornus florida*.

***Antispila ampelopsifoliella*. Chambers.**

1874. Larva. *Chambers*. *Canad. Entom.*, vol. 6, p. 169.

1879. Case, (brief.) *Chambers*. *Canad. Entom.*, vol. 11, p. 126.

1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 149.

FOOD PLANT. *Ampelopsis*.

***Antispila hydrangæella*. Chambers.**

1874. Larva. *Chambers*. *Canad. Entom.*, vol. 6, p. 170.

1879. Case, (brief.) *Chambers*. *Canad. Entom.*, vol. 11, p. 126.

FOOD PLANT. *Hydrangæa nivea*.

***Aspidisca juglandiella*. Chambers.**

1874. Larva. *Chambers*. *Canad. Entom.*, vol. 6, p. 151.

FOOD PLANT. *Juglans*.

***Aspidisca lucifluella*. Clemens.**

1860. Larva. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, June.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 143.

1879. Case, (fig.) *W. S. Barnard*. *Proc. Ass. Adv. Sc.*, vol. 28, p. 476.

1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 64.

FOOD PLANT. *Carya*.

***Aspidisca saliciella*. Chambers.**

1861. Larva. *Clemens*. *Proc. Acad. Nat. Sc. Philad.*, November.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 171.

1880. Egg, larva. *Chambers*. *Psyche*, vol. 3, p. 147.

FOOD PLANT. *Salix*.

***Aspidisca splendoriferella*. Clemens.**

1860. *Clemens*. *Proc. Acad. Nat. Sc.*, Philad., January.

1861. Larva. *Clemens*, (as *A. pruinella*.) *Proc. Acad. Nat. Sc. Philad.*, November.

1869. Larva, (brief.) *Packard*, (as *L. saccatella*.) *Guide to Study of Ins.*, p. 355.

1871. Larva, case. *Chambers*. *Canad. Entom.*, vol. 3, p. 223.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), pp. 105, 171.

1874. Larva. *Chambers*. *Canad. Entom.*, vol. 6, p. 149.

1879. Case, (fig.) *W. S. Barnard*. *Proc. Amer. Ass. Adv. Sc.*, vol. 28, p. 477.

1879. Larva, case, pupa, (figs.) *Comstock*. *Rept. U. S. Dept. Agr.*, p. 210, pl. 2.

1883. Egg, larva, case, (figs.) *Saunders*. *Ins. Inj. Fruits*, pp. 116, 120.

FOOD PLANT. *Pyrus*.

***Argyresthia undulatella*. Chambers.**

1880. Egg. *Chambers*. *Psyche*, vol. 3, p. 66.

***Gracilaria stigmatella*. Fabr.**

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 376.

1872. Larva. *Chambers*, (as *G. purpuriella*.) *Canad. Entom.*, vol. 4, p. 28.

1881. Life history. *Chambers*. *Canad. Entom.*, vol. 13, p. 25.

1886. Larva, pupa. *Packard*, (as *G. purpuriella*.) *Rept. U. S. Dept. Agr.*, p. 333.

FOOD PLANTS. *Salix*, *Populus*.

***Gracilaria salicifoliella*. Chambers.**

1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 26.

FOOD PLANT. *Salix*.

**Gracilaria superbifrontella.** Clemens.1860. Larva. *Clemens*. Proc. Acad. Nat. Sc., Philad., January.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 91.FOOD PLANT. *Hamamelis*.**Gracilaria erigeronella.** Chambers.1872. Larva. *Chambers*, (as *G. plantaginisella*.) *Canad. Entom.*, vol. 4, p. 11.FOOD PLANTS. *Plantago*, *Erigeron*.**Gracilaria juglandisnigrælla.** Chambers.1872. Larva. *Chambers*. *Canad. Entom.*, vol. 4, p. 29.FOOD PLANT. *Juglans*.**Gracilaria negundella.** Chambers.1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 66.FOOD PLANT. *Negundo*.**Gracilaria blandella.** Clemens.1873. Larva. *Chambers*. *Canad. Entom.*, vol. 5, p. 13.FOOD PLANT. *Juglans*.**Gracilaria veustella.** Clemens.1873. Larva. *Chambers*, (as *G. eupatoriella*.) *Canad. Entom.*, vol. 5, p. 46.FOOD PLANT. *Eupatorium*.**Gracilaria lespedezæfoliella.** Clemens.1860. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., June.1863. Larva. *Clemens*, (as *G. robinella*.) Proc. Entom. Soc. Philad., vol. 2, p. 4.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), pp. 145, 207.1880. Larva, (brief.) *Chambers*. *Amer. Entom.*, vol. 1, 2d ser., p. 61.1881. Larva, (brief.) *Packard*. *Ins. Inj. Forest Trees*, p. 98.FOOD PLANTS. *Lepedeza*, *Robinia*.**Ornix cratægifoliella.** Clemens.1860. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., January.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 94.1873. Larva. *Chambers*. *Canad. Entom.*, vol. 5, p. 49.FOOD PLANT. *Cratægus tomentosa*.**Ornix geminatella.** Packard.1869. Larva, case, pupa, (figs.) *Packard*, (as *Lithoc. gem.*) *Guide to Study of Ins.*, p. 353, pl. 8.1877. Larva. *Packard*. *Half-hours with Insects*, p. 186.1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 150.FOOD PLANT. *Pyrus*.**Ornix quadripunctella.** Clemens.1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 86.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 177.FOOD PLANT. *Amelanchier canadensis*.**Ornix prunivorella.** Chambers.1873. Larva. *Chambers*. *Canad. Entom.*, vol. 5, p. 50.FOOD PLANT. *Prunus*.**Ornix inusitatumella.** Chambers.1873. Larva. *Chambers*. *Canad. Entom.*, vol. 5, p. 48.FOOD PLANT. *Cratægus*.**Coleophora malivorella.** Riley.1878. Larva, (fig.) *Riley*. Rept. U. S. Dept. Agr., p. 48.1879. Larva, pupa, (fig.) *Lintner*. Rept. N. York State Agr. Soc., p. 52.1880. Larva. *Coquillett*, (quotes *Riley*.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 156.1883. Egg, larva, case, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 115.FOOD PLANT. *Pyrus malus*.**Coleophora vernoniella.** Chambers.1878. Larva, case. *Chambers*. *Canad. Entom.*, vol. 10, p. 114.FOOD PLANT. *Vernonia*.

- Coleophora querciella.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 1, p. 80.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 168.  
 FOOD PLANT. *Quercus.*
- Coleophora rosacella.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 2, p. 426.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 251.  
 FOOD PLANT. *Rosa.*
- Coleophora rosæfoliella.** Clemens.  
 1864. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 2, p. 426.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 251.  
 FOOD PLANT. *Rosa.*
- Coleophora caryæfoliella.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 1, p. 78.  
 1872. Larva, case. *Clemens.* Tineina N. Amer., p. 166.  
 1878. Larva, case. *Chambers.* Canad. Entom. vol. 10, p. 113.  
 FOOD PLANT. *Carya.*
- Coleophora ostryæ.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 1, p. 79.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 167.  
 FOOD PLANT. *Ostrya virginica.*
- Coleophora corylifoliella.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 1, p. 79.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 166.  
 FOOD PLANT. *Corylus.*
- Coleophora tiliæfoliella.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 1, p. 80.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 168.  
 FOOD PLANT. *Tilia.*
- Coleophora viburniella.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 1, p. 79.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 167.  
 FOOD PLANT. *Viburnum.*
- Coleophora pruniella.** Clemens.  
 1861. Larva, case. *Clemens.* Proc. Entom. Soc. Philad., vol. 1, p. 79.  
 1872. Larva, case. *Clemens.* Tineina N. Amer. (Stainton), p. 167.  
 FOOD PLANT. *Prunus.*
- Coleophora glaucella.** Walsingham.  
 1882. Case, (fig.) *Walsingham.* Trans. Entom. Soc. London, p. 433, pl. 17.  
 FOOD PLANT. *Arctostaphylos glauca.*
- Coleophora viridicuprella.** Walsingham.  
 1882. Case, (fig.) *Walsingham.* Trans. Entom. Soc. London, p. 432, pl. 17.  
 FOOD PLANTS. *Graminea, Juncus.*
- Coleophora wyethiæ.** Walsingham.  
 1882. Case, (fig.) *Walsingham.* Trans. Entom. Soc. London, p. 434, pl. 17.  
 FOOD PLANT. *Wyethia angustifolia.*
- Coleophora discostriata.** Walsingham.  
 1882. Case, (fig.) *Walsingham.* Trans. Entom. Soc. London, p. 435, pl. 17.  
 FOOD PLANT. *Quercus.*
- Coleophora lynosyridella.** Walsingham.  
 1882. Case, (fig.) *Walsingham.* Trans. Entom. Soc. London, p. 437, pl. 17.  
 FOOD PLANT. *Lynosoris viscidiflora.*
- Coleophora castinipella.** Walsingham.  
 1882. Case, (fig.) *Walsingham.* Trans. Entom. Soc. London, p. 441, pl. 17.  
 FOOD PLANT. *Salix.*



**Coleophora rufolutrella.** Chambers.1882. Case, (fig.) *Walsingham*. Trans. Entom. Soc. London, p. 431, pl. 17.FOOD PLANT. *Prunus americana*.**Coleophora cornella.** Walsingham.1882. Case, (fig.) *Walsingham*. Trans. Entom. Soc. London, p. 432, pl. 17.FOOD PLANT. *Cornus pubescens*.**Coleophora viscidiflorella.** Walsingham.1882. Case, (fig.) *Walsingham*. Trans. Entom. Soc. London, p. 439, pl. 17.FOOD PLANT. *Lynosyris viscidiflora*.**Coleophora octagonella.** Walsingham.1882. Case, (fig.) *Walsingham*. Trans. Entom. Soc. London, p. 431, pl. 17.FOOD PLANT. *Persea carolinensis*.**Coleotechnites citriella.** Chambers.1879. Larva, case. *Comstock*. Rept. U. S. Dept. Agr., p. 206.FOOD PLANT. *Citrus*, (Orange.)**Bedellia somnulentella.** Zeller.1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths., vol. 2, p. 395.1862. Life history. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 147.1872. Life history. *Clemens*. Tineina N. Amer. (Stainton), p. 189.FOOD PLANTS. *Courolvulus*, *Ipomea*.**Batrachedra salicipemella.** Clemens.1865. Life history. *Clemens*, (quotes Walsh in lit.) Proc. Entom. Soc. Philad., vol. 5, p. 143.1872. Life history. *Clemens*, (quotes Walsh in lit.) Tineina N. Amer. (Stainton), p. 267.FEEDS in galls of *Salix*.**Laverna gleditschiella.** Chambers.1876. Larva. *Chambers*. Canad. Entom., vol. 8, p. 137.1880. Egg. *Chambers*. Psyche, vol. 3, p. 66.FOOD PLANT. *Gleditschia*.**Laverna sabalella.** Chambers.1879. Larva, case, pupa, (fig.) *Comstock*. Rept. U. S. Dept. Agr., p. 209, pl. 2.FOOD PLANT. *Palmetto*.**Laverna murtfeldtiella.** Chambers.1879. Larva, cocoon. *Chambers*, (quotes Miss Murtfeldt in lit.) Canad. Entom., vol. 11, p. 6.FOOD PLANT. *Enothera*.**Laverna cephalanthiella.** Chambers.1879. Larva, mine. *Chambers*. Canad. Entom., vol. 11, p. 7.FOOD PLANT. *Cephalanthus*.**Laverna circumscriptella.** Zeller.1878. Larva. *Chambers*, (quotes Miss Murtfeldt in lit.) Canad. Entom., vol. 10, p. 239.FOOD PLANT. *Enothera*.**Walshia amorphella.** Clemens.1864. Larva, (brief.) *Clemens*, (quotes Walsh in lit.) Proc. Entom. Soc. Philad., vol. 2, p. 416.1870. Larva, gall, (fig.) *Riley*. 2d Missouri Rept., p. 132.1872. Larva, (brief.) *Clemens*, (quotes Walsh in lit.) Tineina N. Amer. (Stainton), p. 241.FOOD PLANT. *Amorpha fruticosa*, (forming galls.)**Chrysocorys\* erythriella.** Clemens.1860. Larva, cocoon, pupa. *Clemens*. Proc. Acad. Nat. Sc. Philad., May.1872. Larva, cocoon, pupa. *Clemens*. Tineina N. Amer. (Stainton), p. 132.FEEDS on racemes of *Rhus*.

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\*See also page 136.

- Elachista brachelytrifoliella.** Clemens.  
 1861. Larva. *Clemens.* Proc. Entom. Soc. Philad., vol. 2, p. 425.  
 1872. Larva. *Clemens.* Tineina N. Amer. (Stainton), p. 249.  
 FOOD PLANT. *Brachelytrum aristatum.*
- Cycloplasis panicifoliella.** Clemens.  
 1861. Larva. *Clemens.* Proc. Entom. Soc. Philad., vol. 2, p. 422.  
 1872. Larva. *Clemens.* Tineina N. Amer. (Stainton), p. 248.  
 FOOD PLANT. *Panicum clandestinum.*
- Aeaea ostryæella.** Chambers.  
 1874. Larva. *Chambers.* Canad. Entom., vol. 6, p. 74.  
 FOOD PLANT. *Ostrya virginica.*
- Aeaea purpuriella.** Chambers.  
 1880. Larva. *Chambers.* Psyche, vol. 3, p. 64.  
 FOOD PLANT. *Robinia pseudacacia.*
- Tischeria solidaginifoliella.** Clemens.  
 1859. Pupa, cocoon. *Clemens.* Proc. Acad. Nat. Sc. Philad., November.  
 1872. Pupa, cocoon. *Clemens.* Tineina N. Amer. (Stainton), p. 81.  
 FOOD PLANT. *Solidago.*
- Tischeria zelleriella.** Clemens.  
 1859. Larva. *Clemens.* Proc. Acad. Nat. Sc. Philad., November.  
 1872. Larva. *Clemens.* Tineina N. Amer. (Stainton), p. 81.  
 FOOD PLANT. *Quercus.*
- Tischeria citrinipenella.** Clemens.  
 1859. Larva. *Clemens.* Proc. Acad. Nat. Sc., Philad., November.  
 1872. Larva. *Clemens.* Tineina N. Amer. (Stainton), p. 82.  
 FOOD PLANT. *Quercus.*
- Tischeria fuscomarginella.** Chambers.  
 1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 110.  
 FOOD PLANT. *Quercus alba.*
- Tischeria tinctoriella.** Chambers.  
 1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 108.  
 FOOD PLANT. *Castanea Americana.*
- Tischeria badiiella.** Chambers.  
 1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 109.  
 FOOD PLANT. *Quercus alba.*
- Tischeria quercivorella.** Chambers.  
 1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 110.  
 FOOD PLANTS. *Quercus, nigra, etc.*
- Tischeria castaneæella.** Chambers.  
 1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 111.  
 FOOD PLANT. *Castanea americana.*
- Tischeria ambrosiæella.** Chambers.  
 1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 113.  
 FOOD PLANT. *Ambrosia.*
- Tischeria heliopsisella.** Chambers.  
 1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, page 113.  
 FOOD PLANT. *Heliopsis lavis.*
- Tischeria quercitella.** Clemens.  
 1863. Larva, cocoon. *Clemens.* Proc. Entom. Soc., Philad., vol. 2, p. 13.  
 1872. Larva, cocoon. *Clemens.* Tineina N. Amer. (Stainton), p. 221.  
 FOOD PLANT. *Quercus.*
- Tischeria malifoliella.** Clemens.  
 1860. Larva. *Clemens.* Proc. Acad. Nat. Sc. Philad., June.  
 1872. Larva. *Clemens.* Tineina N. Amer. (Stainton), p. 144.  
 1883. Larva, pupa. *Saunders.* Ins. Iuj. Fruits, p. 114.  
 FOOD PLANT. *Pyrus malus.*

**Lithocolletis robinella.** Clemens.1859. Larva, pupa. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1871. Larva. *Chambers*. Canad. Entom., vol. 3, pp. 54, 86.1872. Larva, pupa. *Clemens*. Tineina N. Amer. (Stainton), pp. 12, 66.1880. Larva, (brief.) *Chambers*. Amer. Entom., vol. 1, 2d series, p. 61.1881. Larva. *Packard*, (quotes Clemens.) Ins. Inj. Forest Trees, p. 99.FOOD PLANT. *Robinia*.**Lithocolletis ulmella.** Chambers.1871. Larva. *Chambers*. Canad. Entom., vol. 3, p. 149.FOOD PLANT. *Ulmus americana*.**Lithocolletis helianthivorella.** Chambers.1875. Mine. *Chambers*. Cincinnati Quart. Jour. Sc., vol. 2, p. 100.FOOD PLANT. *Helianthus*.**Lithocolletis mariæella.** Chambers.= *trifasciella*. Haworth. (?)1875. Larva, pupa, cocoon. *Chambers*. Cincinnati Quart. Jour. Sc., vol. 2, p. 99.FOOD PLANT. *Symphoricarpos vulgaris*.**Lithocolletis quercitella.** Chambers.1875. Larva, (brief.) *Chambers*. Cincinnati Quart. Jour. Sc., vol. 2, p. 102.FOOD PLANT. *Quercus nigra*.**Lithocolletis albanotella.** Chambers.1875. Larva, (brief.) *Chambers*. Cincinnati Quart. Jour. Sc., vol. 2, p. 101.FOOD PLANT. *Quercus nigra*.**Lithocolletis aceriella.** Clemens.1859. Larva, cocoon. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva, cocoon. *Clemens*. Tineina N. Amer. (Stainton), p. 75.FOOD PLANTS. *Acer*. *Hamamelis*.**Lithocolletis guttifinitella.** Clemens.1859. Larva, cocoon. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva, cocoon. *Clemens*. Tineina N. Amer. (Stainton), p. 76.FOOD PLANT. *Rhus toxicodendron*.**Lithocolletis pomioliella.** Zeller.= *cratægella*. Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1860. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., June.1872. Larva. *Clemens*. Tineina N. Amer. (Stainton), pp. 77, 111.FOOD PLANTS. *Pyrus*, *Cratægus*.**Lithocolletis fitchella.** Clemens.= *quercifoliella*. Fitch.1859. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 827.1879. Larva, pupa. *Comstock*. Rept. U. S. Dept. Agr., p. 231.1879. Mine. *Chambers*. Canad. Entom., vol. 11, p. 90.1881. Larva. *Packard*, (quotes Comstock.) Ins. Inj. Forest Trees, p. 52.FOOD PLANT. *Quercus*.**Lithocolletis hamadryadella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva. *Clemens*. Tineina N. Amer. (Stainton), p. 77.1879. Larva, cocoon, pupa, (figs.) *Comstock*. Rept. U. S. Dept. Agr., p. 226.1881. Larva. *Packard*, (quotes Comstock.) Ins. Inj. Forest Trees, p. 51.FOOD PLANT. *Quercus*.**Lithocolletis obscuricostella.** Clemens.1859. Pupa, (brief.) *Clemens*. Proc. Acad. Nat. Sc., Philad., November.1872. Pupa, (brief.) *Clemens*. Tineina N. Amer. (Stainton), p. 71.FOOD PLANT. *Ostrya virginica*.**Lithocolletis ostryæfoliella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc., Philad., November.1872. Larva. *Clemens*. Tineina N. Amer. (Stainton), p. 72.1879. Mine, (brief.) *Chambers*. Canad. Entom., vol. 11, p. 91.FOOD PLANT. *Ostrya virginica*.

**Lithocolletis lucetiella.** Clemens.1859. Larva, cocoon. *Clemens*. Proc. Acad. Nat. Sc., Philad., November.1872. Larva, cocoon. *Clemens*. *Tineina* N. Amer. (Stainton), p. 73.FOOD PLANT. *Tilia americana*.**Lithocolletis obstrictella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc., Philad., November.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 73.FOOD PLANT. *Quercus*.**Lithocolletis caryæfoliella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc., Philad., November.1861. Larva. *Clemens*, (as *L. juglandiella*.) Proc. Entom. Soc. Philad., vol. 1,  
p. 81.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), pp. 74, 170.FOOD PLANT. *Carya*.**Lithocolletis tubiferella.** Clemens.1860. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., June.1872. *Clemens*. *Tineina* N. Amer. (Stainton), p. 140.FOOD PLANT. *Quercus*.**Lithocolletis salicifoliella.** Clemens.1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 81.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 169.FOOD PLANT. *Salix*.**Lithocolletis ornatella.** Chambers.1880. Larva, (brief.) *Chambers*. Amer. Entom., vol. 1, 2d series, p. 60.FOOD PLANT. *Robinia*.**Lithocolletis ambrosiæella.** Chambers.1871. Larva. *Chambers*. Canad. Entom., vol. 3, p. 127.1875. Mine. *Chambers*. Cincinnati Quart. Jour. Sc., vol. 2, p. 101.FOOD PLANT. *Ambrosia*.**Lithocolletis desmodiella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 68.FOOD PLANT. *Desmodium*.**Lithocolletis lucidicostella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 66.FOOD PLANT. *Acer saccharinum*.**Lithocolletis ceriferella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 69.FOOD PLANT. *Quercus*.**Lithocolletis basistrigella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 69.FOOD PLANT. *Quercus*.**Lithocolletis argentifimbriella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 70.FOOD PLANT. *Quercus*.**Lithocolletis fuscocostella.** Chambers.1875. Larva, (brief.) Mine. *Chambers*. Cincinnati Quart. Jour. Sc., vol. 2, p.  
102.FOOD PLANT. *Quercus*.**Lithocolletis unifasciella.** Chambers.1875. Mine. *Chambers*. Cincinnati Quart. Jour. Sc., vol. 2, p. 103.FOOD PLANT. *Quercus tinctoria*.

- Lithocolletis castaneæella.** Chambers.  
1875. Larva, (brief.) *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 104.  
FOOD PLANT. *Castanea americana.*
- Lithocolletis clemensella.** Chambers.  
1879. Mine, (brief.) *Chambers.* Canad. Entom., vol. 11, p. 91.  
FOOD PLANT. *Acer.*
- Lithocolletis cerealella.**  
1885. Egg, larva. *Fernald.* Kingsley's Stand. Nat. Hist., vol. 2, p. 440.
- Lithocolletis gregariella.** Murtfeldt.  
1881. Larva, cocoon, pupa. *Mary E. Murtfeldt.* Canad. Entom., vol. 13, p. 246.  
FOOD PLANT. *Phuscolus pauciflorus.*
- Lithocolletis cincinnatiella.** Chambers.  
1871. Larva. *Chambers.* Canad. Entom., vol. 3, p. 147.  
1877. Larva, (fig.) *Chambers.* Psyche, vol. 2, p. 83.  
FOOD PLANT. *Quercus.*
- Lithocolletis celtifoliella.** *Chambers.*  
1871. Larva. *Chambers.* Canad. Entom., vol. 3, p. 129.  
FOOD PLANT. *Celtis.*  
NOTE.—The five species next following were described by Dr. Fitch under the generic name of *Argyromiges.*
- Lithocolletis querci-albella.** Fitch.  
1858. Larva. *Fitch.* 5th Rept. Ins. N. York, p. 828.  
FOOD PLANT. *Quercus alba.*
- Lithocolletis pseudacaciella.** Fitch.  
1858. Larva. *Fitch.* 5th Rept. Ins. N. York, p. 836.  
FOOD PLANT. *Robinia.*
- Lithocolletis uhlerella.** Fitch.  
1858. Larva. *Fitch.* 5th Rept. Ins. N. York, p. 836.  
FOOD PLANT. *Robinia.*
- Lithocolletis ostensackenella.** Fitch.  
1858. Larva. *Fitch.* 5th Rept. Ins. N. York, p. 838.  
FOOD PLANT. *Robinia.*
- Lithocolletis morrisella.** Fitch.  
1858. Larva. *Fitch.* 5th Rept. Ins. N. York, p. 838.  
FOOD PLANT. *Robinia.*
- Marmara salicitella.** Clemens.  
1863. Larva. *Clemens.* Proc. Entom. Soc. Philad., vol. 2, p. 7.  
1872. Larva. *Clemens.* Tineina N. Amer. (Stainton), p. 212.  
FOOD PLANT. *Salix.*
- Leucanthiza amphicarpeæfoliella.** Clemens.  
1859. Larva. *Clemens.* Proc. Acad. Nat. Sc. Philad., November.  
1872. Larva. *Clemens.* Tineina N. Amer. (Stainton), p. 85.  
FOOD PLANT. *Amphicarpaea monoica.*
- Phyllocnistis populiella.** Chambers.  
1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 106.  
FOOD PLANT. *Populus.*
- Phyllocnistis smilacicella.** Chambers.  
1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 107.  
FOOD PLANT. *Smilax glabra.*
- Phyllocnistis liquidambarisella.** Chambers.  
1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 106.  
FOOD PLANT. *Liquidambar.*
- Phyllocnistis ampelopsiella.** Chambers.  
1875. Mine. *Chambers.* Cincinnati Quart. Jour. Sc., vol. 2, p. 107.  
FOOD PLANT. *Ampelopsis.*

**Phyllocnistis liriodendronella.** Clemens.1863. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 2, p. 13.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 220.FOOD PLANT. *Liriodendron tulipifera*.**Phyllocnistis vitigenella.** Clemens.1859. Larva. *Clemens*. Proc. Acad. Nat. Sc. Philad., November.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), pp. 25, 84.FOOD PLANT. *Vitis cordifolia*.**Cemiosstoma albella.** Chambers.1871. Larva, cocoon. *Chambers*. *Canad. Entom.*, vol. 3, p. 24.FOOD PLANT. *Populus*.**Bucculatrix pomifoliella.** Clemens.1860. Larva, cocoon. *Clemens*. Proc. Acad. Nat. Sc. Philad., June.1872. Larva, cocoon. *Clemens*. *Tineina* N. Amer. (Stainton), p. 146.1872. Larva, pupa, cocoon, (fig.) *Riley*. 4th Missouri Rept., p. 49.1876. Larva. *G. H. Perkins*, (quotes *Riley*). 2d Rept. Vermont Board Agr., p. 597.1880. Cocoon, (fig.) *Riley*. *Amer. Entom.*, vol. 1, 2d series, p. 23.1880. Larva, pupa. *Riley*. *Amer. Entom.*, vol. 1, 2d series, p. 23.1881. Larva. *Packard*, (quotes *Clemens*.) *Ins. Inj. Forest Trees*, p. 256.1883. Larva, cocoon, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 118.FOOD PLANTS. *Pyrus malus*, *Ambrosia*.**Bucculatrix thuiella.** Packard.1871. Larva, cocoon. *Packard*. Rept. Board Agr. Mass., p. 373.1877. Larva, cocoon, (fig.) *Packard*. *Half-hours with Insects*, p. 187.1881. Larva, cocoon, (fig.) *Packard*. *Ins. Inj. Forest Trees*, p. 256.FOOD PLANT. *Thuja occidentalis*.**Bucculatrix trifasciella.** Clemens.1865. Cocoon. *Clemens*. Proc. Entom. Soc. Philad., vol. 5, p. 147.1872. Cocoon. *Clemens*. *Tineina* N. Amer. (Stainton), p. 272.**Bucculatrix ambrosiæfoliella.** Chambers.1882. Larva. *Chambers*. *Canad. Entom.*, vol. 14, p. 153.FOOD PLANT. *Ambrosia*.**Nepticula saginella.** Clemens.1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 85.1865. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 5, p. 146.1872. Larva, cocoon. *Clemens*. *Tineina* N. Amer. (Stainton), pp. 175, 271.FOOD PLANT. *Quercus*.**Nepticula platanella.** Clemens.1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 83.1862. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 133.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), pp. 173, 192.FOOD PLANT. *Platanus*.**Nepticula rubifoliella.** Clemens.1860. Larva, cocoon. *Clemens*. Proc. Acad. Nat. Sc. Philad., June.1872. Larva, cocoon. *Clemens*. *Tineina* N. Amer. (Stainton), p. 152.FOOD PLANT. *Rubus*.**Nepticula fuscotibiella.** Clemens.1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 136.FOOD PLANT. *Salix*.**Nepticula coryfoliella.** Clemens.1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 83.1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 172.FOOD PLANT. *Corylus*.**Nepticula ostryæfoliella.** Clemens.1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 83.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 172.

FOOD PLANT. *Ostrya virginica*.

**Nepticula virginiella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 83.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 172.

FOOD PLANT. *Ostrya virginica*.

**Nepticula cratægifoliella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 83.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 173.

FOOD PLANT. *Cratægnus*.

**Nepticula juglandifoliella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 84.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 173.

FOOD PLANT. *Juglans*.

**Nepticula caryæfoliella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 84.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 174.

FOOD PLANT. *Carya*.

**Nepticula villosella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 84.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 174.

FOOD PLANT. *Rubus villosus*.

**Nepticula amelanchierella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 84.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 174.

FOOD PLANT. *Amelanchier canadensis*.

**Nepticula (?) prunifoliella.** Clemens.

1861. Mine. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 84.

1872. Mine. *Clemens*. *Tineina* N. Amer. (Stainton), p. 174.

FOOD PLANT. *Prunus*. Dr. Clemens thinks this mine may be the work of a dipterous insect.

**Nepticula anguinella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 85.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 175.

FOOD PLANT. *Quercus*.

**Nepticula platea.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 85.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 175.

FOOD PLANT. *Quercus*.

**Nepticula rosæfoliella.** Clemens.

1861. Larva. *Clemens*. Proc. Entom. Soc. Philad., vol. 1, p. 85.

1872. Larva. *Clemens*. *Tineina* N. Amer. (Stainton), p. 176.

FOOD PLANT. *Rosa*.

**Nepticula serotinæella.** Chambers.

1873. Larva. *Chambers*. *Canad. Entom.*, vol. 5, p. 126.

FOOD PLANT. *Prunus serotina*.

**Nepticula nyssæfoliella.** Clemens.

1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 66.

**Nepticula castaneæfoliella.** Chambers.

1875. Mine. *Chambers*. *Cincinnati Quart. Jour. Sc.*, vol. 2, p. 117.

FOOD PLANT. *Castanea americana*.

**Nepticula pteliacella.** Chambers.

1880. Larva. *Chambers*. *Psyche*, vol. 3, p. 137.

FOOD PLANT. *Ptelia trifoliata*.

**Micropteryx pomivorella.** Packard.

1870. Larva. *Packard*. *Inj. Ins.*, new or little known, p. 6.

1877. Larva, cocoon. *Packard*. Half-hours with Insects, p. 188.

FOOD PLANT. *Pyrus malus*, (Apple.)

NOTE.—There is considerable doubt as to the position of the two following genera, but as they are placed by many authors among the Tineidae, I give the references to them.

**Choreutes silphiella.** Grote.

1881. Larva. *Grote*, (quotes Coquillett in lit.) *Papilio*, vol. 1, p. 40.

FOOD PLANT. *Silphium integrifolium*.

**Brenthia pavonacella.** Clemens.

1878. Larva, cocoon. *Chambers*. *Canad. Entom.*, vol. 10, p. 76.

FOOD PLANT. *Amphicarpaea monoica*.

The three species of Tineidae following were described by Dr. Clemens from the larva. The imagines are unknown.

**Catastega timidella.** Clemens.

1861. Larva. *Clemens*. *Proc. Entom. Soc. Philad.*, vol. 1, p. 177.

**Catastega hamameliella.** Clemens.

1861. Larva. *Clemens*. *Proc. Entom. Soc. Philad.* vol. 1, p. 178.

**Catastega aceriella.** Clemens.

1861. Larva. *Clemens*. *Proc. Entom. Soc. Philad.*, vol. 1, p. 178.

**PTEROPHORIDÆ.**

**Chrysocorys\* felicella.** Walsingham.

1880. Larva, cocoon, pupa, (figs.) *Walsingham*. *Pterop. Cal. Oregon*, p. 3, pl. 1.

FOOD PLANT. *Orthocarpus*.

**Platyptilus cardui.** Zeller.

1869. Larva, pupa, (fig.) *Riley*, (as *P. carduidactylus*.) 1st Missouri Rept., p. 180.

1880. Larva, (brief.) *Walsingham*. *Pterop. Cal. Oregon*, p. 8.

1881. Larva, pupa, (brief.) *Kellicott*. *Bull. Buffalo Soc. N. Hist.*, vol. 4, p. 47.

FOOD PLANT. *Cirsium lancolatum*.

**Platyptilus orthocarpi.** Walsingham.

1880. Larva, (brief.) *Walsingham*. *Pterop. Cal. Oregon*, p. 12.

FOOD PLANT. *Orthocarpus*.

**Oxyptilus periscelidactylus.** Fitch, (Pterophorus of authors.)

1851. Larva, pupa. *Fitch*. 1st Rept. Ins. N. York, p. 140.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 402.

1868. Larva. *Packard*. *Amer. Naturalist*, vol. 2, pp. 220, 333.

1869. Larva, pupa, (figs.) *Riley*. 1st Missouri Rept., p. 137.

1869. Larva, pupa, (figs.) *Packard*. *Guide to Study of Ins.*, p. 356, pl. 8.

1871. Larva, pupa, (figs.) *Riley*. 3d Missouri Rept., p. 66.

1871. Larva, pupa, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 358.

1873. Larva, pupa, (figs.) *Saunders*. *Canad. Entom.*, vol. 5, p. 99.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 268.

1878. Larva, pupa, (figs.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 274.

1881. Larva. *W. W. Goldsmith*, (quotes Riley.) *Kentucky Bureau Agr.*, p. 256.

1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 268.

1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 137.

FOOD PLANT. *Vitis*.

**Oxyptilus nigrociliatus.** Zeller.

1886. Pupa. *Packard*. *Rept. U. S. Dept. Agr.*, p. 326.

**Oedematophorus griseescens.** Walsingham.

1880. Larva, (brief.) *Walsingham*. *Pterop. Cal. Oregon*, p. 35.

FOOD PLANT. *Artemisia*.

**Oedematophorus cretidactylus.** Fitch.

1881. Larva, pupa. *Kellicott*. *Bull. Buffalo Soc. N. Hist.*, vol. 4, p. 49.

FOOD PLANT. *Eupatorium purpureum*.



**Oedematophorus occidentalis.** Walsingham.1880. Larva, (brief.) *Walsingham*. Pterop. Cal. Oregon, p. 39.FOOD PLANT. A species of Sunflower, (*Helianthus*.)**Oedematophorus inquinatus.** Zeller.1882. Larva. *Coquillett*. Papilio, vol. 2, p. 61.FOOD PLANT. *Ambrosia*.**Oedematophorus ambrosiæ.** Murtfeldt.1880. Larva, pupa. *Mary E. Murtfeldt*. Amer. Entom., 2d ser., p. 236.FOOD PLANT. *Ambrosia*.**Pterophorus monodactylus.** Linn.1880. Larva, (brief.) *Walsingham*. Pterop. Cal. Oregon, p. 40.**Lioptilus homodactylus.** Walker.1881. Larva, pupa. *Kellicott*. Bull. Buffalo Soc. N. Hist., vol. 4, p. 49.1882. Larva, pupa. *Coquillett*. Papilio, vol. 2, p. 62.FOOD PLANTS. *Eupatorium purpureum*, *Solidago*.**Lioptilus helianthi.** Walsingham.1880. Larva, (brief.) *Walsingham*. Pterop. Cal. Oregon, p. 54.FOOD PLANT. Species of *Helianthus*.**Lioptilus sericidactylus.** Murtfeldt.1880. Larva, pupa. *Mary E. Murtfeldt*. Amer. Entom., vol. 1, 2d ser., p. 235.FOOD PLANT. *Fernonia noveboracensis*.**Lioptilus kellicottii.** Fish.1881. Larva, pupa, (brief.) *Kellicott*. Bull. Buffalo Soc. N. Hist., vol. 4, p. 51.FOOD PLANT. *Solidago*.**Aciptilus montanus.** Walsingham.1881. Larva, pupa. *Kellicott*. Bull. Buffalo Soc. N. Hist., vol. 4, p. 51.FOOD PLANT. *Solidago*.



## APPENDIX.

Species not distinguishable by modern authors:

### NOCTUIDÆ.

**Hoporina hesperidago.** Guen.

1856. Larva. *Guen.*, (after Abbot MS.) *Spec. Gener. Noct.* 3, p. 393.

FOOD PLANT. *Ostrya virginica.*

**Hypogramma andromeda.** Guen.

1856. Larva, (col'd fig.) *Guen.*, (after Abbot MS.) *Spec. Gener. Noct.* 3, p. 36, pl. 2.

FOOD PLANT. *Andromeda arborea.*

**Nænia typica.** L.

1869. Larva. *Bethune.* *Canad. Entom.*, vol. 1, p. 87.

(European species not known in N. Amer.)

### GEOMETRIDÆ.

**Endropia pultraria.** Guen.

1857. Larva. *Guen.* *Spec. Gener. Phalaen.*, p. 132.

**Geometra siccifolia.** Fitch.

1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 381.

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- RILEY, C. V. ----- Clover-hay Worm (*Asopia costalis*), 6th Missouri Rept., 1874.  
 Yucca Borer (*Megathymus yuccae*), 8th Missouri Rept., 1876.  
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