THE TYPE MATERIAL IN THE
J. B. SMITH AND G. D. HULST
COLLECTIONS OF LEPIDOPTERA IN THE AMERICAN
MUSEUM OF NATURAL HISTORY

FREDERICK H. RINDGE

BULLETIN
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
VOLUME 106: ARTICLE 2 NEW YORK: 1955
THE TYPE MATERIAL IN THE J. B. SMITH AND G. D. HULST COLLECTIONS OF LEPIDOPTERA
THE TYPE MATERIAL IN THE J. B. SMITH AND G. D. HULST COLLECTIONS OF LEPIDOPTERA IN THE AMERICAN MUSEUM OF NATURAL HISTORY

FREDERICK H. RINDGE

Associate Curator
Department of Insects and Spiders

BULLETIN
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
VOLUME 106 : ARTICLE 2
NEW YORK : 1955
BULLETIN OF THE AMERICAN MUSEUM OF NATURAL HISTORY

Volume 106, article 2, pages 91–172

Issued April 25, 1955

Price: $1.00 a copy
INTRODUCTION

One of the most important additions to the collection of the Department of Insects and Spiders of the American Museum of Natural History was the accession of the J. B. Smith and G. D. Hulst collections of Lepidoptera. These collections were donated by the Department of Entomology at Rutgers University, and the transfer was made possible through the generous cooperation of Dr. William H. Martin, Dean of the College of Agriculture, and Profs. Bailey B. Pepper and John B. Schmitt of the Department of Entomology of that institution. Combined, this acquisition represents one of the most valuable collections of North American Lepidoptera in existence, as it consists of 32,022 specimens, representing almost 6000 species, and over 2200 type specimens, including approximately 1200 holotypes. The majority of the type specimens are those of Smith and Hulst.

George D. Hulst (1846–1900), although he described a number of phalaenids, is better known for his work on the Geometridae and Pyralidae. The Hulst collection is one of both butterflies and moths, but is richest in his specialities. He published almost one hundred papers, mostly on descriptions of early stages and of new species of Lepidoptera. Included in this list of publications were revisions of the North American Epipaschiinae, Phycitidae, and Geometridae, which still stand as the basic works in these groups. These papers were based mainly on his collection, which was given to Rutgers and contains many types.

John B. Smith (1858–1912) came to Rutgers in 1889, after spending the preceding three years at the United States National Museum, and remained there until his death. He was the State Entomologist of New Jersey from 1894 until 1912. Smith built up the North American phalaenid collection at Rutgers until it was one of the best collections in this family in existence. As he was the leading authority on this family, he also received material for identification from different collectors, and thus more interesting specimens came to hand. Smith described a very large number of new species, and he published a great number of papers. These include not only papers with the original descriptions of new species, but a number of generic revisions and check lists. The collection at Rutgers formed the basis for the majority of these—hence its great value.


In most of the early descriptions, no mention is made as to the deposition of either the type or of the type series. A large number of the types described by Smith and Hulst are in the present collection, while others are in the collections of the American Museum of Natural History and the United States National Museum. Partial listings of the type specimens for this institution have been given by Beutenmüller (1892, Bull. Amer. Mus. Nat. Hist., vol. 4, pp. 59–64, 167–198; 1904, ibid., vol. 20, pp. 81–86) and Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, pp. 391–424).

One of the primary purposes of the present paper is to give a listing of all the type material in the Smith and Hulst collections, so that the location, number, sex, and locality for all these type specimens may be made available to other workers.

PROCEDURE

Before any specimens from this collection of Lepidoptera were incorporated into the collection of the American Museum of Natural History, each individual butterfly or moth was checked to see whether or not it was labeled with the original J. B. Smith or G. D. Hulst collection labels. If not, an appropriate label was affixed, so that future workers can recognize the specimens from these collections.

As the material was incorporated, a list of all type material was made out. The pri-
mary types have been segregated and placed in the Lepidoptera type collection, while all
cotype or paratype material has been incorporated into the general collection. The present paper is a list of these types. They are
arranged alphabetically by the specific or subspecific names within each family. The
placement within families follows McDunnough (1938–1939, Check list of the Lepi-
doptera of Canada and the United States of America, pts. 1 and 2), with one exception.
Rindge (1952, Jour. New York Ent. Soc., vol. 60, p. 172) has shown that Brephos
fletchert Smith is, in fact, a member of the genus Annaphila, so this name has been trans-
ferred from the Geometridae to the Phalaenidae.

TYPES AND LECTOTYPES

Unfortunately a number of the early work-
ers were not careful to list specifically the locality of the type, as compared with the re-
mainder of the type series, and this has never been so listed in the literature. It was not
uncommon to find a list of localities from four or six states, for example, following a
description, with no indication at all of what was considered the type locality. A rather
confusing situation in the light of present-day population studies can result, as exact locali-
ities are needed to pinpoint subspecific popu-
lation names. The present paper should help
solve many of the problems, as Smith in par-
cular was guilty of this procedure. However,
he did have his type series labeled as to
“male type,” “female type,” and “cotypes.”
It is assumed that his “male type” is equiva-
lent to the more modern term “holotype,”
with the “female type” representing the
“allotype.” However, these two terms are
not used in the text of the paper unless they
specifically appear on the type labels. The
only exception to Smith’s labels stating “male
type,” “female type,” and “cotype” was his
very early work, where every specimen in the
series was merely labeled “type.” At this time
he usually used black-bordered labels, as op-
oposed to his later use of red-bordered labels
with the improved terminology.

The type specimens of Hulst present more of a problem, as this author was notorious for
his method of labeling type specimens. Very
often the locality as given in the original
description does not agree with that on the
label on the specimen, or the locality as given
in a subsequent paper by the same author.
In addition, Hulst had the habit of label-
ing specimens as “type” when he was doing
identification work, apparently using this
word in the sense that the specimen was
typical or like the type. In this manner, one
sometimes finds four or six specimens labeled
“type,” while the original description states
that the species was described from a single
example. Needless to say, this greatly com-
icates matters with regard to the Hulst
types, and considerable care should be exer-
cised when one is dealing with these speci-
mens. Barnes and McDunnough (1916, Con-
tributions to the natural history of the Le-
169–200) did much basic work straightening
out this situation. In addition, Klots (1942,
391–424) has designated a number of lecto-
types from Hulst specimens already in the
collection of the American Museum of Natu-
ral History. In the preparation of the present
paper, the original descriptions have been
consulted, and where discrepancies appear
with regard to localities, they are so noted.

A number of the earlier authors, who have
type material represented in this collection,
also apparently labeled all the specimens in
their type series as “types.” This includes
Barnes and Kearfott, to mention only two.
Klots has already discussed the latter author
and his labeling of types (1942, Bull. Amer.
most of the Barnes specimens, it has been
assumed that Barnes distributed specimens
from his type series, but that he retained the
primary types in his own collection, now in
the United States National Museum at Wash-
ington.

The same problem also appeared with other
authors, and it is being left to subsequent
revisers of the different groups to straighten
out the problem of the primary types and
their actual designation. The present author
has not designated any lectotypes in this
paper, with the following exceptions in the
Geometridae: Chlorochlamys appellaria Pear-
sall, Apicrena calcaria Pearsall, and Therina
lugubrosa Hulst. In the first two cases, the
species were described from two specimens
each, one being deposited in the Hulst collection and the other in the collection of the American Museum of Natural History; as both specimens were before the author, the lectotype was designated. Capps apparently overlooked designating a lectotype of *lugubrosa* in his revision of the group (1943, Proc. U. S. Natl. Mus., vol. 93, pp. 115–151), so a lectotype has been chosen in the present paper.

**Genitalic Preparations**

Smith was one of the pioneers in this country in the use of the genitalia as an aid in the classification of the moths. In some instances, he examined the genitalia in place within the abdomen; in others, he made regular dissections either of the entire structure or of one of the valves in the males. A collection of 767 slides was received, all having been made by Smith, and it includes preparations of both male and female genitalia, as well as anatomical slides. This set of preparations apparently includes all the dissections used by Smith in his numerous papers, including both the descriptive and illustrated material. Usually the slides are labeled merely with the name of the moth, but sometimes locality data or a number is included. As a result it is sometimes a bit difficult to correlate the slides with the proper specimen. All the primary types have been checked for genitalic preparations and, when present, have been listed in the text. In addition, those specimens have been labeled “male (or female) genitalia mounted on slide by Smith,” and the slides have been duly labeled also.

Other workers have made genitalic dissections and mounted them on slides. Where this has been done to any type specimen, it has been noted in the text. These slides are incorporated in the genitalic slide collection of the American Museum of Natural History. Genitalic preparations have been made by J. H. McDunnough (Geometridae), H. W. Capps (Geometridae), C. Heinrich (Pyralidae), and the author (Phalaenidae, Geometridae).
ANOTATED LIST OF TYPE SPECIMENS

In the following list, the data are given as they appear on the labels of the specimens. The sex of each moth has been checked under a binocular microscope, but in a few cases it has not been possible to determine this accurately. The locality, date, and collector, if given, have been listed, with known abbreviations written out. The one exception has been instances in which the month and day could be confused, as where both are indicated by arabic numbers; in such cases, the date is given as written on the label.

SATURNIIDAE

neomexicana Brehme, Anisota
1909, Canadian Ent., vol. 41, p. 324.
Cototypes, male and female, New Mexico, June 25–26.

AMATIDAE

hampsonii Barnes, Syntomeida
1904, Canadian Ent., vol. 36, p. 165.
Cotype male, southern Arizona, July 15–30.

ARCTIIDAE

triangularis Smith, Haploa
Type female, New Jersey. According to the original description, the type locality is near Newark.

PHALAENIDAE (NOCTUIDAE)

abalas Smith, Crambodes
Type male, Cochise County, Arizona, July; type female, same data; cotype female, Cochise County, Arizona, July 2; cotypes, two females, same data, July; cotype female, no data but with No. 583.

abbea Smith, Aplectoides
Type female, Westminster, British Columbia.

abnormis Smith, Agrotis
Type female, Sierra Nevada, California.

acarnea Smith, Noctua
Type male, Banff, Alberta, July 11, 1902 (N. B. Sanson).

acessa Smith, Schinia
Type female, Kerrville, Texas.

acera Smith, Polia
Type male, Pullman, Washington (C. V. Piper).

act Smith, Orthosia
Type male, Corvallis, Oregon, September 17, 1898; type female, Pullman, Washington, October 20, 1896, Washington Experiment Station No. 635.

actona Smith, Rhizagrotis
Type male, Stockton, Utah, June 16, 1903 (Tom Spalding); type female, same data, June 23, 1903; cotypes, one male and two females, same data, April 14, 1903, June 20, July 7, 1903.

actura Smith, Pseudanarta
Type male, Wilgus, Cochise County, Arizona; type female, same data.

acutangula Smith, Stretchia
Type male, San Diego, California, November; type female, Witch Creek, California, 11-5; paratype male, San Diego, California, 11; paratype male, Witch Creek, California, 11-2; two paratype females, Witch Creek, California, 1-30, 11-14; paratype female, Pasadena, California, March 31.

acuternina Smith, Mamestra
Type male, Wellington, British Columbia, July 17, 1902; type female, Volga, South Dakota; cotype male, Wellington, British Columbia, August 24, 1902; cotype male,
Cartwright, Manitoba; cotype female, Volga, South Dakota.

**acutifrons** Smith, *Carneades*  
Type female, Oregon.

**acutus** Smith, *Conochares*  
Type female, southern Arizona, May 15–30 (Poling); cotype male, Santa Catalina Mountains, Pinal County, Arizona, April 8–15.

**adustus** Smith, *Oxycnemis*  
Type male, San Antonio, Texas.

**aetheria** Barnes and McDunnough, *Heliothis*  
Cotypes, male and female, Redington, Arizona.

**aggressa** Smith, *Orthosia*  
Type male, Gunnison, Colorado, July 9; type female, Denver, Colorado, July 8–15.

**agnata** Smith, *Mamestra*  
Types, male and female, Redington, Arizona.

**alameda** Smith, *Nonagria*  
Type female, Alameda County, California, July; cotype male, Alameda County, California, July.

**alata** Smith, *Acontia*  
Type male, Bapoquavaria Mountains, Pima County, Arizona, July 15–30, 1903 (O. C. Poling); type female, same data.

**alberta** Smith, *Hadena (Xylophasia)*  
Type male, head of Pine Creek, Calgary, Alberta, July 2, 1896 (F. H. W. Dod); type female, same data.

**albescens** Barnes and McDunnough, *Oligia (Hadena) fractilinea*  
Cotype female, Vineyard, Utah, August 26, 1909 (Tom Spalding).

**albicillatus** Smith, *Yrias*  
Type female, Colorado Desert, Yuma County, Arizona.

**albicinerea** Smith, *Rancora*  
1903, Canadian Ent., vol. 35, p. 137.  
Type male, head of Pine Creek, Calgary, Alberta, April 28, 1895 (Dod); cotype male, Boucher, Saskatchewan, end of April, 1897. According to the original description, Boucher is in Manitoba, but the locality is as given on the label.

**albimaculata** Barnes and McDunnough, *Namangana*  
Cotype male, Provo, Utah, August 1, 1909 (Tom Spalding).

**albinuda** Smith, *Scotogramma*  
Cotype female, Rama, Labrador, 1899 (A. Strecker, J. D. Sornborger).

**albipuncta** Barnes and McDunnough, *Cerma*  
Cotype male, San Diego, California, October 8–15.

**albipuncta** Smith, *Platysenta*  
Type male, Harris County, Texas; cotype male, Colorado Springs, Colorado, August 5.

**albiserrata** Smith, *Hadena (Xylophasia)*  
Type male, Pullman, Washington, September 19, 1896 (C. V. Piper), Washington Experiment Station No. 639; type female, same data.

**albisinuatus** Smith, *Simplicia*  
Type male, Cochise County, Arizona; type female, same data, July 4, 1904.

**alboplagiata** Smith, *Tristyla*  
Type female, Argus Mountains, April, 1891 (K.).
alcandola Smith, Rhychagrotis
Type female, Minnehaha, Yavapai County, Arizona, October 4.

alcesta Smith, Euxoa
Type male, Stockton, Utah, September 5, 1904; type female, same data, September 9, 1904; cotypes, two males and two females, same data, September 4, 9, 18, 1904, September 23, 1903.

aleada Smith, Faronta
Cotype female, Bragos, Texas.

alessa Smith, Schinia
Type male, southern Arizona, August 1–15 (Poling); type female, same data.

alessandra Smith, Acontia
Type male, Stockton, Utah, October; cotype male, Huachuca Mountains, Arizona.

algula Smith, Stretchia
Type male, Arrowhead Lake, British Columbia; two paratype females, same data.
allecto Smith, Hadena
Cotype male, Brandon, Manitoba; cotype male, South Dakota.

altera Smith, Tornacontia
Type male, Hot Springs, New Mexico, 7000 feet altitude; type female, southern Arizona (Poling).

alticola Smith, Agrotis
Type male and type female, Sierra Nevada, California.

altua Smith, Mamestra
Type male, Glenwood Springs, Colorado; cotype female, Glenwood Springs, Colorado, July.
aluria Smith, Taeniocampa
Type male, Chicago, Illinois, April 27.
amia Dyar, Noctua
Cotype female, Williams, Arizona, type No. 6728, United States National Museum.
amacosta Smith, Euxoa
Type male, Stockton, Utah, September 22, 1904; type female, same data, September 9, 1904; cotypes, male and female, same data, September 18, October 2, 1904.

ancilla Smith, Xyline
1904, Psyche, vol. 11, p. 57.
Type male, Cartwright, Manitoba, October 6, 1901; type female, Wellington, British Columbia, April 11.

andrena Smith, Perigea
Type male, Santa Catalina Mountains, Pinal County, Arizona, September; type female, Redington, Arizona; cotypes, two males and two females, Stockton, Utah, September 24, 26, 1903, October 2, 1904 (Tom Spalding).

andrena Smith, Perigea
Type male, San Diego, California, 11-2-08 (George H. Field).

angelica Smith, Copibryophila
Cotype male, Los Angeles County, California, October; cotypes, male and female, California.

angelica Smith, Helioles
Cotypes, two females, Los Angeles County, California, May.

angelicus Smith, Cobalus
Cotype female, Los Angeles, California.

angulata Smith, Perigonica
1890, Ent. Amer., vol. 6, p. 124.
Type male, Sierra Nevada, California.

**angulirena** Smith, **Euxoa**
Type female, Colorado (Bruce).

**aniluna** Smith, **Acontia**
Type female, Baboquavaria Mountains, Pima County, Arizona, July 15–30, 1903 (O. C. Poling); cotypes, two females, same data.

**annulimacula** Smith, **Taeniocampa**
One male, labeled “type,” without data except for 7/2.

**antapica** Smith, **Orthosia**
Type male, Corvallis, Oregon, 11-3-1899; type female, Corfield, Vancouver.

**antennata** Barnes and McDunnough, **Eriopyga**
1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 4, p. 41.
Cotype male, Redington, Arizona, photograph plate 19, No. 10 (1912, op. cit., vol. 1, no. 4).

** antennata** Smith, **Meleneta**
Type male, Huachuca Mountains, Arizona, July 30.

**anteroclara** Smith, **Leucania**
Type female, mouth of Fish Creek, Calgary, Alberta, August 11, 1892 (F. H. Wolley Dod); cotypes, four males and one female, head of Pine Creek, Calgary, Alberta, June 25, 1896, July 5, 1896, August 3, 1897; cotype male, Livingstone, Vancouver, 7-5-1896.

**antica** Smith, **Trichoclea**
Type female, Los Angeles County, California, April.

**antonito** Barnes, **Mamestra**
A male labeled “type” from south Arizona. However, the type was restricted by Barnes and McDunnough (1915, Canadian Ent., vol. 47, p. 20) to the male that was illustrated in “The Contributions to the natural history of the Lepidoptera of North America” (vol. 1, no. 4, p. 15, pl. 6, fig. 6, 1912). Accordingly this specimen must be a cotype.

**anxia** Smith, **Stylolopa**
Type male, Fort Wingate, New Mexico, July 21; type female, same data, August 5.

**apicalis** Smith, **Eucalyptra**
Type male, Hastings, Florida, June 24–30; type female, same data, September 22; cotypes, two males and three females, same data, September 21, 29, October 6.

**apicata** Smith, **Stretchia**
Type male, San Diego, California, 11.

**areloides** Barnes and McDunnough, **Tarache**
Cotype female, White Mountains, Arizona.

**argus** Smith, **Xylomiges**
Type male, Witch Creek, California, February 14; type female, Argus Mountains, April, 1891 (K.); cotype female, Argus Mountains, May, 1891 (K.).

**arida** Smith, **Acontia**
Cotypes, three males and one female, Argus Mountains, April, 1891 (K.).

**arizona** Smith, **Cucullia**
Type female, Cochise County, Arizona, July.

**arista** Smith, **Mamestra**
Type female, Glenwood Springs, Colorado, 8-1-1894 (W. Barnes).

**ascula** Smith, **Mamestra**
1905, Canadian Ent., vol. 37, p. 257.
Type male, without locality data, but dated September 14, 1904; type female, no locality data, dated September 6, 1904; co-
type female, Stockton, Utah, September 9, 1904. According to the original description, the type locality is Stockton, Utah.

*astigama* Smith, *Copicucullia*


Type male, Colorado (Bruce).

*atara* Smith, *Xyлина*


Three females from Redington, Arizona, each labeled “type.”

*atrina* Smith, *Xyлина*


Type male, Cartwright, Manitoba, October 16, 1904; type female, same data, September 27, 1904; cotype female, same data, September 26, 1904.

*atlantica* Smith, *Hydroecia*


Type male, without data.

*atomia* Smith, *Semiophora*


Type female, Lakehurst, New Jersey, September 27; cotype female, same data.

*atomaria* Smith, *Bomolocha*


Type male, Volga, South Dakota; cotype male, South Dakota.

*atricincta* Smith, *Noctua*


Type male, edge of Calgary, July 9, 1893, “type 2”; type female, same data, July 8, 1893, “type 3.”

*astriluna* Smith, *Scoleccampa*


Type female, Huachuca Mountains, Arizona.

*astrimacula* Smith, *Renia*


Type male, Hampton, New Hampshire, July 26, 1908 (S. A. Shaw); type female, Sussex County, New Jersey, August 13.

*astristrigatus* Smith, *Anytus*


Cotype male, Texas.

*atrofusca* Smith, *Carneades*


Cotype male, Pullman, Washington, July 19, 1898, Washington Experiment Station No. 446; cotype female, Glenwood Springs, Colorado, August, 1892.

*atropulverea* Smith, *Carneades*


Cotype female, Denver, Colorado, October 18.

*audentis* Smith, *Carneades*


Type female, Colorado (Bruce).

*avirida* Smith, *Bryophila*


“Type male,” Fort Collins, Colorado; this specimen is a female; type female, Cartwright, Manitoba, June 24–30.

*baboquavaria* Smith, *Oxycnemis*


Type male, Baboquavaria Mountains, Pima County, Arizona, July 15–30, 1903 (O. C. Poling); type female, same data.

*bairdii* Smith, *Noctua*


Type female, High River, Alberta (Baird).

*balteata* Smith, *Onocnemis*


Type male, Poncha Springs, Colorado, July 14.

*balteata* Smith, *Tripudia*


Cotype female, Santa Rita Mountains, Arizona, June 16, 1895 (E. A. Schwarz).

*baranca* Barnes, *Tricholita*


Type male, Kerrville, Texas; cotype female, Kerrville, Texas.

*barnesii* Smith, *Acronycta*


Cotype male, Denver, Colorado (Bruce); cotype female, Colorado (Bruce).

*barnesii* Smith, *Hadena* (*Xylophasia*)

1899, Canadian Ent., vol. 31, p. 258.
Cotype male, Glenwood Springs, Colorado, September, 1895 (W. Barnes); cotype male, South Dakota; cotype female, Yellowstone Park, Wyoming.

basiplaga Smith, *Mamestra*  
Type male, Huachuca Mountains, Arizona; type female, same data; cotype female, Huachuca Mountains, Arizona.

begallo Barnes, *Catabena*  
Cotype male, Santa Catalina Mountains, Pinal County, Arizona. According to the original description, the type locality is southern Arizona, Pima County.

belfragei Smith, *Rhynchagrotis*  
A male labeled “type,” from Texas, 4/6. As the type is in the United States National Museum (Smith, 1893, Bull. U. S. Natl. Mus., vol. 44, p. 53), this specimen may be a cotype.

bethunei Smith, *Phaeocyma*  
Type male, Tryon, North Carolina, April 19 (W. F. Fiske).

betsia Smith, *Fishia*  
Type male, Stockton, Utah, October 4, 1904.

bialba Smith, *Euxoa*  
Type male, Volga, South Dakota; cotype male, same data; cotypes, two females, Stockton, Utah, September 15, 1904, October 2, 1904.

biformata Smith, *Euxoa*  
Types, male and female, Sierra Nevada, California.

bigallis Smith, *Homopyralis*  
Type male, Huachuca Mountains, Arizona, July 30; type female, same data; cotype male, Hot Springs, New Mexico, 7000 feet altitude, September; cotype female, Yavapai County, Arizona, August 8.

binda Barnes, *Grotella*  
1907, Canadian Ent., vol. 39, p. 93.  
A male from Rio Verde Mountains, Phoenix, Arizona, August, 1893 (W. Barnes), is labeled “type” in Barnes's writing. The lectotype was designated by Barnes and Benjamin (1922, Contributions to the natural history of the Lepidoptera of North America, vol. 5, p. 16) as a specimen in the Barnes collection. There is no mention of the above locality in the original description. However, Barnes and Benjamin have a similar specimen in their revision, and they treat it as a paratype. Hence it is possible that the specimen mentioned above may also be considered a paratype.

bipartita Smith, *Anepischetos*  
Cotypes, two males, Key West, Florida.

birnata Smith, *Hadena (Luperina)*  
Type male, Newfoundland.

blandula Hulst, *Catocala*  
Two males, both labeled “type,” one from New York, the other from Vermont.

bonuscula Smith, *Pieroma*  
1898, Canadian Ent., vol. 30, p. 325.  
Cotypes, two males, Glenwood Springs, Colorado, March, 1895 (W. Barnes), April 16–23.

boretha Smith, *Chorizagrotis*  
Type male, Kaslo, British Columbia, September 6, 1902.

bostura Smith, *Taeniocampa*  
Type male, British Columbia (Cockle).

brevistriga Smith, *Euxoa*  
Type male, Colorado (Bruce); paratype male, Colorado.
brillians Ottolengui, Calocampa
Cotype male, Webster, New Hampshire, April 9.

brucei Smith, Calocampa
Type male, Colorado (Bruce).

brucei Smith, Rancora
Type male, Garfield County, Colorado, 6000 feet (Bruce).

brucei Smith, Taeniocampa
Type male, Denver, Colorado, April 20.
The genitalia have been mounted on a slide by Smith.

brunneicrista Smith, Hyppa
1902, Canadian Ent., vol. 34, p. 31.
Type male, head of Pine Creek, Calgary, Alberta, June 22, 1898 (F. H. Wolley Dod);
type female, same data, July 2, 1899.

bultata Smith, Hadena
1906, Canadian Ent., vol. 38, p. 228.
Type male, Glenwood Springs, Colorado, July 16–23; type female, same data.

buta Smith, Schinia
Type male, Los Angeles County, California.

cacola Smith, Acontia
Type male, southern Arizona, August 15;
cotype male, southern Arizona (Poling); co-
type male, Ckll. 800. According to the original
description, the locality for the last-mentioned
specimen is New Mexico.

cassarea Smith, Acronycta
Type male, Essex County, New Jersey,
May 20 (W. D. Kearfott).

calgarina Smith, Leucania
Cotypes, male and female, head of Pine
Creek, Calgary, Alberta, June 25, 1897,
July 15, 1896 (F. H. Wolley Dod).

calgarina Smith, Noctua
Type male, Calgary, Alberta, June 26, 1895.

caloramica Barnes and McDunnough, Monima
Cotypes, two females, Redington, Arizona.

calpota Smith, Leucania
Type male, Harris County, Texas; type
female, same data; cotypes, six males and
one female, same data.

camina Smith, Eupanychis
Type female, Hampton, New Hampshire,
2164, W. and F.

camina Smith, Platyperigea
Type male, Colorado (Bruce).

caminalis Smith, Hypenula
1905, Canadian Ent., vol. 37, p. 70.
Type male, Cochise County, Arizona,
July; type female, same data.

campanilis Smith, Phurys
1905, Canadian Ent., vol. 37, p. 68.
Type male, Chokaloskee, Florida.

cansa Smith, Pseudacentia
Type male, Hamilton County, Kansas,
3350 feet (F. H. Snow); type female, same
data.

capota Smith, Euxoa
Cotypes, two females, Palmerlee, Cochise
County, Arizona, July.

cariosus Smith, Carneades
Cotype male, Pullman, Washington, July
24, 1898.

carissima Hulst, Catocala cara
Types, one male and two females, Florida.
carminata Smith, Taeniocampa
1890, Ent. Amer., vol. 6, p. 121.
Type male, Colorado (Bruce).

carminatra Smith, Pseudotamila
Type male, Colorado, 6000 feet (Mason); type female, same data; cotype female, same data.

carolina Smith, Phurys
1905, Canadian Ent., vol. 37, p. 68.
Type male, North Carolina, August; type female, same data.

carolinesis Barnes and McDunnough, Lygran-thoea

castree Barnes and McDunnough, Scotogramma
1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 5, p. 11.
Cotype female, Fort Wingate, New Mexico, August 16–23.

catalina Smith, Hadena
Type female, Catalina Springs, Arizona, April 10, 1898 (E. A. Schwarz); cotype male, same data, 8-4 (Hubbard and Schwarz).

catalina Smith, Thalpochares
Type male, Yuma County, Arizona, April 19 (Hutson); type female, Tucson, Arizona, May 13–14, 1898.

centralis Smith, Xylophasia
Types, two males, Sierra Nevada, California.

cerivana Smith, Hadena
1900, Canadian Ent., vol. 32, p. 220.
Cotype male, Calgary, Alberta, June 21, 1895 (F. H. W. Dod); cotype female, Calgary, Canada, June 23, 1897; cotype female, without locality data, but dated June 20, 1897.
cervina Smith, Mamestra
Cotype male, Winnipeg, Manitoba.

cervina Smith, Perigia
Type female, Florida.

cervinea Smith, Euxoa
Type male, Bozeman, Montana, August 31, 1907; type female, Vancouver, British Columbia, August 16, 1906 (A. N. Bush); paratype male, Bozeman, Montana, August 8, 1908; paratype male, Banff, "British Columbia," August 10, 1906.

cipeta Barnes, Tricholita
Type male, Glenwood Springs, Colorado, October 1–7.

chunka Smith, Mamestra
Type male, Aweme, Manitoba, May 13, 1906 (Criddle); cotype male, Aweme, Manitoba, May 20, 1905.
ciliata Smith, Oncocnemis
Cotype female, Colorado Desert (Edwards).
cincta Smith, Kakopoda
Type male, Biscayne Bay, Florida.
cinderella Smith, Acronycta
Cotype female, without locality data.
cinderella Smith, Raphia
Type male, Los Angeles County, California; cotype male, California, May.
cinerea Smith, Epidemas
Type male, Glenwood Springs, Colorado, October, 1892 (W. Barnes); type female, same data.
cinerea Smith, Pleroma
1904, Psyche, vol. 11, p. 56.
Type male, Corvallis, Oregon, October 11, 1898.

cinerola Smith, Selicanis
   Cotype male, Glenwood Springs, Colorado, October, 1892 (W. Barnes); cotype female, Denver, Colorado, October 12.

cineropollicidus Smith, Carneades
1903, Canadian Ent., vol. 25, p. 10.
   Type male, Stockton, Utah, October; type female, same data.

circumcincta Smith, Mamestra
   Type male, Sierra Nevada, California.

cirrulucens Smith, Hydroecia
   Cotype male, without data.

cirrvadis Smith, Mamestra
   Type female, head of Pine Creek, Calgary, Alberta, July 21, 1900 (F. H. W. Dod).

citroneola Smith, Neleucania

clearmonta Smith, Euxoa
   Type male, Claremont, California (Baker); type female, same data; cotype male, same data, no collector's name.

clemens Smith, Agrotis
   Type female, California.

cockle Smith, Euxoa
   Type male, Kaslo, British Columbia (J. W. Cockle); type female, same data; cotype female, Victoria, British Columbia, July 19, 1905 (G. W. Taylor).

cognata Smith, Xylomiges
   Type male, Oregon.

colocata Smith, Carneades
   Type female, Glenwood Springs, Colorado, August, 1894 (W. Barnes).

colorado Smith, Oncocnemis
   Type male, Park County, Colorado.

colorado Smith, Phaeocyma
   Type male, Glenwood Springs, Colorado, May 1–7; type female, same locality, May; cotype male, H. G. Dyar No. 5694; cotype female, Texas.

colorado Smith, Scopelosoma
   Type male, Glenwood Springs, Colorado, October 1, 1895 (W. Barnes); cotype male, same data, April 20, 1894 (W. Barnes). There is a single slide of the male genitalia, and the type male is without an abdomen. The preparation is undoubtably that of the type, and the slide of walkeri, with which it was compared in the original description, is also present.

columbiana Smith, Feralia
   Type male, New Westminster, British Columbia, 1896.

consors Smith, Perigea
   Type female, Phoenix, Arizona (W. Barnes).

copriscus Smith, Drasteria
1900, Canadian Ent., vol. 32, p. 224.
   Cotype male, Calgary, Alberta, June 16, 1898 (F. H. W. Dod); cotype female, same data, May 29, 1898.

contagionis Smith, Carneades
   Type female, Glenwood Springs, Colorado, 8.7-1893 (W. Barnes); cotype male, Colorado, 2763.

corrodens Smith, Noctua
Type male, Pullman, Washington (C. V. Piper); cotype female, Reno, Nevada.

costiplaga Smith, Caradrina
Type male, Minnehaha, Yavapai County, Arizona, August 27; type female, Colorado Desert, Yuma County, Arizona.

crassipes Smith, Podagra
Type female, Yuma County, Arizona, March; cotype male, Yuma County, Arizona, March; cotype male, Walters Station, California, April.

cresina Smith, Melicheptria
Type female, Los Angeles County, California, April.

criddlei Smith, Euxoa
Type male, Aweme, Manitoba, September 4, 1904 (Criddle); type female, same data, August 25, 1906.

curema Smith, Phaeocyama
Type male, Centre, New York, May 14, 1877 (Dr. J. S. Bailey); type female, Pennsylvania.

curtica Smith, Taeniocampa
1890, Ent. Amer., vol. 6, p. 122.
Types, male and female, Sierra Nevada, California.

curvfascia Smith, Dryobota
Type male, Sierra Nevada, California; type female, same data.

cuta Smith, Acontia
Type female, Baboquavaria Mountains, Pima County, Arizona, July 15–30, 1903 (O. C. Poling); cotype female, same data.

dakota Smith, Carneades
Cotype male, Dakota.

davena Smith, Mamestra
Cotypes, two males and one female, Sierra Nevada, California; cotype female, Siskiyou, California, September 2.

deflecta Strecker, Catocala
Type male, Nebraska.
delicata Barnes and McDunnough, Amolita
1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 4, p. 51.
Cotypes, male and female, White Mountains, Arizona.
delorata Smith, Porosagrotis
Type male, High River, Alberta (Baird).
demutabilis Smith, Peridroma
Type female, Granite Springs, San Bernardino County, California, April 6, 1891.
dentilinea Smith, Xylica
Type female, without data, but with No. 506; cotypes, two females, Garfield County, Colorado, 6000 feet (D. Bruce), and Denver, Colorado, at light.
denvera Smith, Acronycta
Type male, Denver, Colorado; type female, same data, July 1–7.
dernarius Smith, Setagrotis
Type female, Easton, Washington.
didonea Smith, Hadena
Type female, Glenwood Springs, Colorado, August, 1892 (W. Barnes).
difusa Smith, Schinia
Type male, Colorado (Bruce).
digitalis Smith, Schinia
Type male, Dallas, Texas.
**dimidata** Smith, *Acontia*  
Type male, Redington, Arizona.

**diminuendis** Barnes and McDunnough, *Camptio-lochila*  
1918, Contributions to the natural history of the Lepidoptera of North America, vol. 4, p. 126.  
"Type" male, New Brighton, Pennsylvania, July 21, 1905 (H. D. Merrick). This is a Smith manuscript name validated by Barnes and McDunnough after Smith's death; the "type" female is in the collection of the United States National Museum. The type labels are in Smith's handwriting, and do not state that Barnes and McDunnough are the authors. A subsequent reviser of this group must settle the question of the status of the primary types for this species.

**dinalda** Smith, *Homohadena*  
Type male, W., July 19, 1897. The abbreviation is probably for Winnipeg, Manitoba.

**dionea** Smith, *Hadena (Xylophasia)*  
1899, Canadian Ent., vol. 31, p. 258.  
Cotype male, Volga, South Dakota; cotype male, South Dakota.

**discistriga** Smith, *Lythrodes*  
Type male, Walters Station, California, April. There is also a second male labeled "type" from southern Arizona, April 1-15 (Poling); this may be the specimen from the second locality given in the original description and, if so, should be considered a cotype.

**discistriga** Smith, *Platyperigaea*  
Type female, Glenwood Springs, Colorado, August, 1892 (W. Barnes).

**discolor** Smith, *Aplectoides*  
Type female, Inverness, British Columbia, July 16.

**discolor** Smith, *Cleoceris*  
Type female, Taos, New Mexico, August 20.

**disconnecta** Smith, *Acontia*  
Type male, Huachuca Mountains, Arizona.

**diacalata** Smith, *Noctua*  
1904, Canadian Ent., vol. 36, p. 149.  
Type male, head of Pine Creek, Calgary, Alberta, July 15, 1899 (F. H. W. Dod); type female, Calgary, Alberta, July 8, 1899 (F. H. W. Dod); cotypes, two males, head of Pine Creek, Calgary, Alberta, July 14, 1899, July 21, 1903 (F. H. W. Dod).

**dissimilis** Barnes and McDunnough, *Nocloa*  
Cotype male, Redington, Arizona; cotype female, Santa Catalina Mountains, Arizona.

**dives** Smith, *Homoglaea*  
Type female, Wellington, British Columbia, April 14.

**dobra** Smith, *Melicleptria*  
Type female, Doble, California, 4-3.

**dodii** Smith, *Mamestra*  
1904, Canadian Ent., vol. 36, p. 152.  
Type male, head of Pine Creek, Calgary, Alberta, August 7, 1902 (F. H. W. Dod); type female, same data, August 4, 1896; cotypes, two males, same data, June 27, 1896, June 22, 1898.

**dolens** Smith, *Setagrotis*  
Type male, Beulah, Manitoba, August 28, 1902; type female, Arrowhead Lake, British Columbia.

**dollii** Smith, *Plagiomimicus*  
Cotype male, Palmerlee, Cochise County, Arizona, August.

**drasteroides** Smith, *Caradrina*  
Type male, southern California.

**duanca** Smith, *Rhyndagrotis*  
1908, Canadian Ent., vol. 40, p. 228.
Type male, Stockton, Utah, October 2, 1904; type female, same data, September 29, 1904; cotype female, same data, September 29, 1904.

dupla Smith, Pseudanarta
Type male, South Park, Colorado.

dusca Smith, Orthosia
Type male, Brandon, Manitoba; type female, Minniota, Manitoba; cotypes, two males and two females, Minniota, Manitoba, September 12, 24, August 4; cotype female, Winnipeg, Manitoba, August 23, 1900.

ectrapela Smith, Mamestra
Type female, Agnes Lake, British Columbia, August 21, 6800 feet.
edentata Smith, Feltia
Type male, Pullman, Washington, August 13, 1898.
edictalis Smith, Carneades
Type male, Salida, Colorado, April 18, 1888 (Bruce).
edilis Smith, Homopyralis
Type male, Minnehaha, Yavapai County, Arizona, August 24; type female, Yavapai County, Arizona, August 23; cotype male, Minnehaha, Yavapai County, Arizona, August 23; cotypes, two males, Yavapai County, Arizona, June 27, 23.
edwardsii Smith, Melicleptria
Type female, Yellowstone Park, Wyoming, July, 1900 (Burrison).
elata Smith, Setagrotis
Cotype male, Colorado, 565.
elbea Smith, Raphia
Type male, Deming, New Mexico; type female, same data, July 8–15; cotypes, male and female, Deming, New Mexico, the latter dated July 8–15.
eldana Smith, Perigonica
Type male, southern Arizona, April 15–30 (Poling); paratypes, two females, same data; paratype female, Gila County, Arizona, May 15–30 (O. Poling).
eldora Smith, Acronycta
Type male, Glenwood Springs, Colorado, August 1–7; type female, same data, July 16–23; cotype female, Denver, Colorado, June 20.

electa Smith, Demas
Type female, Winnipeg, Manitoba, May 31, 1909 (J. B. Wallis).
electra Smith, Ufeus
Type female, Oregon.
elingua Smith, Manruta
Type male, Phoenix, Arizona, November 19.
elisbeta Smith, Acronycta
Type male, North Elizabeth, New Jersey, August, 1906 (H. H. Brehme).
emaculata Smith, Acronycta
Type male, Calgary, Alberta, 1394 A.H.
emarginata Smith, Xylina
endiva Smith, Tricholita
Type male, Santa Catalina Mountains, Arizona, September; type female, Yavapai County, Arizona, September 13 (O. Buchholz); paratype male, Yavapai County, Arizona, September 14 (O. Buchholz); paratype female, Fort Wingate, New Mexico, August 28.
enigra Smith, Xylophasia
1904, Psyche, vol. 11, p. 54.

Type male, head of Pine Creek, Calgary, Alberta, July 3, 1903 (F. H. Wolley Dod).

ensina Barnes, Oligia

Female, Huachuca Mountains, Arizona, labeled "type." However, the type male is illustrated by Barnes and McDunnough (1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 4, p. 15, pl. 6, fig. 14), so the present specimen cannot be the type.

epictata Smith, Euxoa

Types, male and female, southern Arizona, April 15–30; cotypes, one male and two females, same data; cotype male, same data, July 1–15; cotype female, same data, without date.

erebus Smith, Tricholita

Type male, Chiricahua Mountains, Arizona; paratype female, same data.

erica Smith, Hadena
1905, Canadian Ent., vol. 37, p. 258.

Type male, no data except June 15, 1904; type female, Stockton, Utah, July 22, 1903 (Tom Spalding); cotypes, two males and one female, Stockton, Utah, June 23, 30, 1903 (Tom Spalding); cotypes, one male and two females, no data, but dated July 1, 2, 8, 1904.

ernesta Smith, Schinia

Type male, Garfield County, Colorado, 5000 feet (Bruce).

erosa Smith, Schinia

Type male, Utah; type female, Phoenix, Arizona, September 24.

espea Smith, Schinia

Type female, Marco, Florida, September.

esta Smith, Euxoa

Type male, Wellington, British Columbia, August 14, 1903 (Theo. Bryant); type female, Wellington, British Columbia, September 13, 1902.

eudryada Smith, Acontia

Type female, southern Arizona, August 15–30 (Poling).

eut Smith, Oncocnemis

Type female, Utah Territory.

excogita Smith, Carneades

Cotype male, Glenwood Springs, Colorado, July 3, 1894 (W. Barnes); cotype female, same data, August, 1892.

exhausta Smith, Hadena

Type male, Schenectady, New York (Lintner); type female, New Windsor, New York, September 29, 1893.

exhilarata Smith, Fishia

Type male, Pullman, Washington, October 10, 1894; type female, same data, October 15, 1894; cotypes, male and female, Glenwood Springs, Colorado, September 16–23, October, 1894 (W. Barnes); cotype female, Pullman, Washington, October 10, 1894.

exserta Smith, Renia

Type male, Trenton, Ontario, August 11, 1907 (Evans).

extensa Smith, Luperina

Type male, Regina, July 28, 1902 (T. N. Willing).

extranea Smith, Oncocnemis

Type male, Colorado (Bruce).

exuberans Smith, Noctua

Cotype male, Glenwood Springs, Colorado, July, 1895 (W. Barnes).
factoris Smith, *Carneades*
Cotype female, Glenwood Springs, Colorado, 7-10, 1894 (W. Barnes); cotype female, same data, August, 1892.

falerina Smith, *Carneades*
Type male, Glenwood Springs, Colorado, August, 1894.

falles Smith, *Aplectoides*
Type male, Calgary, Alberta, July 2, 1896.

fascia Smith, *Cerma*
Type female, Doble, California, August 1.

fasciata Smith, *Copipanolis*
Two males, both labeled “type,” one without data, the other labeled “Texas.”

felicita Smith, *Baptarma*
Type male, Yuma County, Arizona, April 14; type female, same data; cotype female, same data.

ferens Smith, *Xylophasia*
Type male, head of Pine Creek, Calgary, Alberta, July 20, 1902 (F. H. Wolley Dod).

ferida Smith, *Hadena*
Type female, Newfoundland.

fermata Smith, *Perigonica*
Types, male and female, San Diego, California, March; paratypes, two males, same data.

ferricasta Smith, *Schinia*
Cotype male, Huachuca Mountains, Arizona; cotype male, Baboquivaria Mountains, Pima County, Arizona, July 15–30, 1903 (O. C. Poling).

ferricola Smith, *Leucania*
Type male, Cochise County, Arizona, July.

ferruginea Smith, *Anticarsia*
Type female, Florida.

fervida Barnes and McDunnough, *Scotogramma*
Cotypes, male and female, Fort Wingate, New Mexico, July 16–23.

filiaria Smith, *Egryrion*
Type female, Biscayne Bay, Florida.

fiiliis Smith, *Setagrotis*
Type male, Pullman, Washington, August 21, 1897 (C. V. Piper).

finitima Smith, *Pleonectyptera*
Two males, both labeled “type,” one from Los Angeles County, California, October; the other, from Argus Mountains, April, 1891 (K.), through C. V. Riley.

flagrantis Smith, *Onocnemis*
Type male, Argus Mountains, April, 1891 (K.), through C. V. Riley.

flanda Smith, *Anarta*
Types, male and female, Newfoundland; cotypes, five males and five females, same data.

flaviannula Smith, *Taeniocampa*
Cotype male, Glenwood Springs, Colorado, April 20, 1894 (W. Barnes).

flavicosta Smith, *Conacontia*
Cotype male, Hot Springs, New Mexico, 7000 feet altitude; cotypes, two males, Montana; cotype male, Colorado (Bruce);
cotype female, no data, ex collection G. D. Hulst.

**flavidenta** Smith, *Melicleptria*
Type male, Utah, July, 1900 (Barnes).

**flavistriga** Smith, *Perigea*
Type female, Lethbridge, Alberta, July 11, 1906 (T. N. Willing).

**flavoscapula** Smith, *Carneades*
Cotype male, New Mexico.

**fletcheri** Smith, *Brephos*
Type male, Goldstream, British Columbia, March 23, 1902 (E. M. Anderson); male genitalia mounted on slide No. 3447 by F. H. Rindge.

**fletcheri** Smith, *Xylina*
1904, Psyche, vol. 11, p. 56.
Types, male and female, Ottawa, Ontario, October, 1903.

**floramina** Smith, *Euxoa*
Type male, Stockton, Utah, September 14, 1904; type female, same data, September 15, 1904; cotypes, two males and two females, same data, September 24, 1903, September 14, 25, 1904.

**floridana** Smith, *Tetanolita*
A male, labeled "type," from Archer, Florida, 7-3-82 (A. Koebeler). However, the types are in the United States National Museum, so the present specimen must be a cotype.

**flosca** Smith, *Himella*
1906, Canadian Ent., vol. 38, p. 231.
Types, male and female, Huachucra Mountains, Arizona; cotype male, same data.

**flutia** Smith, *Euxoa*
Type female, California; paratype female, Sierra Nevada, California.

**foeminus** Smith, *Carneades*
Type male, Glenwood Springs, Colorado, August, 1895 (W. Barnes); type female, Pullman, Washington, August 12, 1899 (C. V. Piper); cotype female, Sierra Nevada, California; cotype female, Pullman, Washington, July 24, 1898, Washington Experiment Station No. 383; cotype female, Calgary, Alberta (Dod).

**foeminalis** Smith, *Carneades*
Cotype male, Garfield County, Colorado (Bruce).

**formicra** Smith, *Orthosia*
Type male, southern California.

**fractilina** Smith, *Thalpochares*
Type male, no data; type female, New Brighton, Pennsylvania, August 14, 1903 (H. D. Merrick); cotype male, same data, August 12, 1904.

**fractura** Smith, *Taeniocampa*
Type male, Huachucra Mountains, Arizona; cotype female, same data.

**francisca** Smith, *Scotogramma*
Type male, San Francisco, California, 10-4-08 (F. X. Williams).

**fraterna** Smith, *Camperometra*
Type female, Catalina Springs, Arizona, May 5 (E. A. Schwarz); cotype female, Arizona.

**frigida** Smith, *Acronycta*
Cotype female, Sierra Nevada, California.

**fringata** Smith, *Taeniocampa*
Types, male and female, Monterey County, California, March; two cotype males, same data.
fulata Smith, Tetanolita
Type male, New Brighton, Pennsylvania, September 19, 1901 (H. D. Merrick); type female, Quincy, Illinois, September 1–15 (Poling); cotype male, Highspire, Pennsylvania, June 22.

fulda Smith, Carneades
Cotype female, Alameda County, California, September.

fulicalis Smith, Chytolita
Type male, Tennessee, 8-1.

fuligiosa Smith, Stibadium
Type male, Walters Station, California, April 20.

fuliminans Smith, Perigonica
1890, Ent. Amer., vol. 6, p. 124.
Type female, Colorado (D. Bruce).

fumata Smith, Spragueia
Type male, Verdi, Nevada, June 20–30 (A. H. Vachell); type female, same data, June 1–10; cotypes, two males, same data, June 1–10, June 29–30.

furcata Smith, Hydroecia
"Type female," Volga, South Dakota. According to the original description, Smith had five males when he described this species, so the status of this specimen is dubious.

furtiva Smith, Feralia
Type female, Sudbury, Ontario, 1891.

fusimacula Smith, Oxycnemis
Type male, Yuma County, Arizona, March; cotypes, two females, Walters Station, California, April. The original description gives the type locality as Quartzsite in Yuma County.

galena Smith, Viridemas
Type male, Huachuca Mountains, Arizona, July 30.

gatei Smith, Mamestra
Type male, Fort Wingate, New Mexico, September 6; type female, same data, September 10; cotypes, three males and two females, same data, September 5–21.

gemina Smith, Moma
Type female, Cartwright, Manitoba, 5-7-99.

gerdia Smith, Onocnemis
Type male, Baboquivaria Mountains, Pima County, Arizona.

gertana Smith, Mamestra
Type male, San Diego, California, March; type female, same data; paratypes, four males and two females, same data.

gigas Smith, Orthodes
Type male, southern Arizona (Poling); type female, same data; cotype male, Huachuca Mountains, Arizona.

greta Smith, Tetanolita
Type male, San Diego, California, September 23, 1908 (Geo. H. Field).

grisata Smith, Semiophora
Type female, Lakehurst, New Jersey, September 27.

griseata Smith, Mamestra
Type male, Hall Valley, Colorado.

gussata Smith, Mamestra
Type male, Calgary, Alberta, May 7 (Dod); this specimen is labeled "type two."

gustis Smith, Oxycnemis
Type male, southern Arizona, August 1–15 (Poling).

hampa Smith, Anarta
Type male, New Hampshire; type female, no data; cotype male, White Mountains (Slosson).

hanhami Smith, Fishia
Type male, Victoria, British Columbia, September 17, 1903; type female, same data, September 29, 1903.

hanhami Barnes and McDunnough, Polia (Mamestrə)
Cotype male, Quamichan Lake, Vancouver Island, British Columbia, June 25, 1908; cotypes, one male and two females, Duncans, Vancouver Island, British Columbia, June 12, 14, 17, 1910 (Hanham).

helata Smith, Phaecocyma
Type male, New Hampshire; cotype male, New York 363 (D. B.); cotype female, Amherst, Massachusetts (through C. V. Riley). The genitalia of the type male were mounted on a slide and are figured (1908, ibid., vol. 35, pl. 32, fig. 10).

henrietta Smith, Carneades
Cotype male, Santa Cruz Mountains, California; cotypes, male and female, Alameda County, California, September.

heterodoxa Smith, Leucania
Type male, Laggan Station, North West Territory (Bean).

heuloa Smith, Bomolocha
1905, Canadian Ent., vol. 37, p. 69.
Type male, Cochise County, Arizona, July.

holoberba Smith, Carneades
Cotype female, Calgary, Alberta, July 6, 1896.

huachuca Smith, Conacontia
Type male, Huachuca Mountains, Arizona.

hudsoni Smith, Feltia
1903, Canadian Ent., vol. 35, p. 130.
Type male, head of Pine Creek, Calgary, Alberta, August 7, 1901 (F. H. Wolley Dod); type female, same data, August 15, 1901; cotype female, same data, August 16, 1901.

hueco Barnes, Mamestrə
Cotype male, Huachuca Mountains, Arizona.

huita Smith, Acontia
Type male, Huachuca Mountains, Arizona; type female, same data, August 1–7; cotype female, Huachuca Mountains, Arizona. In addition there is a specimen from Kerrville, Texas, that appears to have been labeled as a cotype by Smith, but the word “cotype” has been cut out of the label.

hulstii Smith, Ufeus
Type male, Stockton, Utah, July 22, 1903 (Tom Spalding).

humeralis Smith, Eucalyptra
Type male, Hastings, Florida; type female, same data, September 30; cotypes, 10 males, same data, some of the specimens labeled April and June 24–30; cotype male, North Carolina, August.

humerata Smith, Erastria
Type male, New Brighton, Pennsylvania, July 20, 1905 (H. D. Merrick); cotypes, four males, same data, July 11, 23, 27, 1905.

hutsoni Smith, Renia
Type male, southern Arizona (Poling); type female, Minnehaha, Yavapai County, Arizona, August 20; cotypes, four males and two females, Minnehaha, Yavapai County, Arizona, August 18, 19, 20, 26.
hutsoni Smith, Stibadium
Type male, Yuma County, Arizona, March 23; type female, Walters Station, California, April 20.

hutsonii Smith, Thalpochares
Type male, Yuma County, Arizona, March 23. A second male is present, labeled “type female,” but these words have been crossed out on the label.

illia Smith, Acronycta
Cototype male, Denver, Colorado, at light (D. Bruce).

illustri Smith, Schinia
1904, Psyche, vol. 11, p. 60.
Type male, Yuma County, Arizona, March 23. A second male is present, labeled “type female,” but these words have been crossed out on the label.

illustre Smith, Schinia
Type female, Glenwood Springs, Colorado, July 16–23.

illustre Smith, Xylophasia
Type male, High River, Alberta (Thos. Baird).

imbuna Smith, Mamestra
Type male, Lucerne County, Pennsylvania, April; type female, same data; cotype male, same data.

immaculalis Hulst, Botis
Type male, Montana, Hayden Ex., 1872; the type lacks its abdomen. According to the original description, the species was described from two females. There is another specimen, a female, without locality data.

immuna Smith, Erastria

inattenta Smith, Everetagrotis
Type male, head of Pine Creek, Calgary, Alberta, July 10, 1899 (F. H. Wolley Dod); cotype male, same data, July 14, 1899; type male, Pullman, Washington, June 9, 1898, Washington Experiment Station No. 320.

inconstans Smith, Acronymycta
Type male, without locality data. According to the original description, the type locality is Cartwright, Manitoba, and there is a note by Smith in the collection to this effect.

increa Smith, Copicucullia
Type male, Claremont, California (Motz); type female, same data.

incubita Smith, Carneades
Cototypes, one male and two females, Pullman, Washington, August 6, 21, 1898 (C. V. Piper).

indela Smith, Agroperina
Type male, Yellowstone Park, Wyoming; type female, same data; paratypes two males, same data, one dated July 8–15; paratype male, Montana; paratype female, Bozeman, Montana, July 21, 1908.

indensa Smith, Euxoa
Type male, Brandon, Manitoba, August 14, 1897; type female, Volga, South Dakota.

indiana Smith, Heliolonche
Type male, Hessville, Indiana, May 30, 1908 (A. Kwist); type female, same data, June 13, 1908; cotypes, male and female, same data, June 6, 1908.

indicta Smith, Cucullia
Type female, head of Pine Creek, Calgary, Alberta, July 29, 1896 (F. H. Wolley Dod).
indra Smith, Taeniocampa
Type male, Minnehaha, Yavapai County, Arizona, September 10; type female, same locality, October 2; cotypes, three males and five females, same data, September 25, October 2.

indurata Smith, Xylomiges
Type female, Colorado.

infanta Smith, Demas
Type male, Pennsylvania, 5-2; paratype female, Johnson City, Tennessee, May.

infava Smith, Taeniocampa
Type male, Washington Territory; paratype male, Vancouver, British Columbia, April 6, 1903. The type male has the genitalia mounted on a slide.

infusa Smith, Carneades
Cotype male, Black Hills.

infuscata Smith, Scotogramma
Cotype female, Colorado (Bruce).

ingenua Smith, Charadra
Type male, Durango, Colorado, June 8–15; cotype female, Glenwood Springs, Colorado, July 1–7.

inherita Smith, Taeniocampa
Type male, Vancouver, British Columbia, March 20, 1896 (Livingston); type female, British Columbia; paratype male, Corvallis, Oregon, March 31, 1900.

innota Smith, Luperina
Type female, Arangie, Idaho.

insinuata Smith, Orrhodia
Type female, Pullman, Washington, May 9, 1903; cotype female, same data, May 9, 1903.

insolita Smith, Plusia
A male from Calgary, Alberta, July (Dod), labeled “type 2.” According to the original description, this species was described from two females.

instruta Smith, Fishia
Type male, De Clair, Manitoba, September 3; cotypes, two males, same data, September 15, 18.

insuda Smith, Phaeocyma
Type male, Minnehaha, Yavapai County, Arizona, August 25; type female, same data, August 11; cotypes, three males and three females, Yavapai County, Arizona, July 14–27.

intensalis Smith, Epizeuxis
Type male, Minnehaha, Yavapai County, Arizona, August 19; type female, Yavapai County, Arizona, July 20; cotype male, southern California (Poling); cotype male, southern Arizona, June 15–30 (Poling); cotype male, Minnehaha, Yavapai County, Arizona, August 19; cotype male, Yavapai County, Arizona, August 2.

intentata Smith, Mamestra
Cotype female, Colorado, No. 2693.

interoceanica Smith, Hydroecia
Cotype male, Winnipeg, Manitoba.

interruptus Smith, Conocharis
Type male, southern Arizona, April 1–15 (Poling); type female, Yuma County, Arizona, March; cotypes, two females, Argus Mountains, April, 1891 (K.); cotype female, Phoenix, Arizona, March 12; cotype female, Walters Station, California, April.

intrabilis Smith, Schinia
Type male, Death Valley, April, 1891 (K.), through C. V. Riley.
intruda Smith, Oncocnemis
Type male, Deming, New Mexico, September 1–7.

intrusa Smith, Carneades
Type female, Sierra Nevada, California.

invalida Smith, Mamestra
Type female, Sierra Nevada, California.

irentis Smith, Yrias
Type male, Cochise County, Arizona, July; type female, same data.

itata Smith, Xylena
Cotype female, Glenwood Springs, Colorado, April 30, 1894 (W. Barnes).

julia Barnes and McDunnough, Campylochila
1918, Contributions to the natural history of the Lepidoptera of North America, vol. 4, p. 126.
"Type male," New Brighton, Pennsylvania, July 8, 1905 (H. D. Merrick); "type female," Arizona; "cotypes," five males, New Brighton, Pennsylvania, July 11, 1905, July 14, 15, 20, 1906 (H. D. Merrick). This is a Smith manuscript name that was validated by Barnes and McDunnough after Smith's death; there are four "cotypes" in the collection of the United States National Museum. The type labels are in Smith's handwriting and do not give Barnes and McDunnough as the authors. A subsequent reviser of this group must settle the question of the status of the primary types for this species.

kasloa Smith, Melicleptria
Type female, Kaslo, British Columbia, June 7, 1902.

keela Smith, Orthodes
Type female, Palmerlee, Cochise County, Arizona, August.

laerta Smith, Anarta
Type male, Silver Lake, Utah, July 13 (H. Skinner); type female, Utah, July 15; cotype male, Utah, July 15.

laetabilis Smith, Hadena
1899, Canadian Ent., vol. 31, p. 263.
Cotype male, Santa Fe, New Mexico, July (Cockerell), No. 1657.

laetifica Smith, Acronycta
Cotype male, New Jersey; cotype female, Florida.

laevigata Smith, Hadenella
Cotype male, Colorado (Bruce).

larga Smith, Noctua
Type female, Palmerlee, Cochise County, Arizona, August; cotype male, Huachuca Mountains, Arizona, June 16.

largera Smith, Phaeocyma
Type male, Vancouver Island, May 8, 1888 (G. W. Taylor).

lateclava Smith, Chytmonix
Type male, Pullman, Washington, August 14, 1897 (C. V. Piper); type female, same data, August 31, 1897.

laticollis Smith, Oncocnemis
Type female, Stockton, Utah, September 4, 1904.

lenola Smith, Euxoa
Type male, Glenwood Springs, Colorado, August, 1895 (W. Barnes); type female, same data, August, 1892; paratype female, same data, August, 1894; paratype female, Colorado, 1743; paratype male, Hot Springs, New Mexico, 7000 feet altitude.

leomegara Smith, Mamestra
Type male, Grand Lake, Newfoundland, August 28; type female, same data.
lepetita Smith, Acronycta
Type male, Esper Ranch, Brownsville, Texas.

leucorena Smith, Caradrina
Cotype female, Los Angeles County, California, September; cotypes, two females, California (Coquillet).

levitans Smith, Leptina
Type male, Durham, New Hampshire (W. & F.); type female, Ontario, Canada (A. H. Kilman).

libedis Smith, Acontia
Cotype female, Hot Springs, New Mexico, 7000 feet altitude.

ligae Smith, Schinia
Type female, Argus Mountains, April, 1891 (K.), through C. V. Riley.

limitata Smith, Leucania
Type male, Texas, June.

lineosa Smith, Agroperina
Type male, W. Man. (probably an abbreviation for Winnipeg, Manitoba); type female, Winnipeg, Manitoba; paratype male, Minot, Manitoba, July 27; paratype male, Calgary, Alberta, July 4, 1894 (F. H. Wolley Dod); paratype male, Calgary, Alberta, July 16–23.

liturata Smith, Acronycta
Cotypes, two males, Garfield County, Colorado, 7000 feet altitude (Bruce).

livalis Smith, Aplectoides
Type male, Newfoundland.

longipalpata Hulst, Mycterophora
Type female, Soda Springs, Siskiyou County, California, July 19.

lousia Smith, Pseudoconctia
1908, Ann. New York Acad. Sci., vol. 18, p. 120.
Type male, Sabine Parish, Louisiana (G. Coverdale).

lucina Smith, Mamestra
Type male, British Columbia; cotype female, Winnipeg, Manitoba, August 1.

luctuosa Hulst, Catabapta
Two males, one female, all labeled "type," from Indiana.

lunata Smith, Apamea
Type male, Alameda County, California, June.

lunata Smith, Ursogastria
Type male, Huachuc Mountains, Arizona.

lunolacta Smith, Mamestra
Type female, Pullman, Washington (C. V. Piper); cotype female, Idaho.

lutalba Smith, Bomolocho
Types, male and female, both without data. According to the original description, the type locality is Cartwright, Manitoba.

lutea Smith, Diallagma
Cotype female, Florida; cotype female, Florida, 9-3-82.

luteodiscus Smith, Copicucullia
Type female, Deming, New Mexico, September 1–7.

luteola Smith, Scotogramma
Two males, both labeled type, Laggan, British Columbia, above 7000 feet, July 22, August 1, 1892.
luteomedia Smith, Aleptina
Type male, southern Arizona, August 1–15 (Poling); type female, Yavapai County, Arizona, May 22.

luteopallens Smith, Leucania
Type male, Long Island; cotype male, same data; cotype female, Archer, Florida, March, 1882; cotype female, Torrington, Connecticut; cotype female, Anglesea, New Jersey, April 4; cotype male, New Hampshire; cotype male, Webster, New Hampshire.

lutina Smith, Leucania
Type female, Biscayne Bay, Florida. The type label says Leucania velutina Smith (1900, Proc. U. S. Natl. Mus., vol. 22, p. 480), but this name was preoccupied, so Smith renamed his species.

lutoso Andrews, Orthosia
1877, Canadian Ent., vol. 9, p. 99.
Type female, labeled as follows: "2435, type of n. sp., W. V. Andrews; type of O. lutoso Andrews received from Mr. R. F. Pearsall who got it from Akhurst out of the Andrews collection." In addition a second female bearing No. 2435 and "Orthosia lutoso out of the Andrews collection from Mr. Akhurst through Pearsall."

luxuriosa Smith, Tripodia
Cotype female, Arizona.

macera Smith, Hadena
Cotype female, Cartwright, Manitoba, 11-7-99.

maca Smith, Taeniocampa
Type male, Witch Creek, California, January 30; cotype female, same data, February 1.

macoptica Smith, Schinia
Type female, southern Arizona (Poling).

macula Smith, Metoponia
Two males, Hot Springs, New Mexico, 7000 feet altitude, and New Mexico, both labeled "type."

maculata Smith, Agrotiphila
Type male, British Columbia.

maestosa Hulst, Catabapta
Two males from Texas, labeled "type."

maimes Smith, Carneades
Type male, head of Pine Creek, Calgary, Alberta, August 13, 1901 (F. H. Wolley Dod); type female, same data, August 16, 1901; cotypes, one male and one female, same data, August 18, 1895, August 16, 1901; cotype male, edge of Calgary, Alberta, August 13, 1893; cotype female, mouth of Fish Creek, Calgary, Alberta, August 15, 1893 (F. H. Wolley Dod); cotype female, Calgary, Alberta, August 10, 1894 (F. H. Wolley Dod); cotype female, Brandon, Manitoba.

major Smith, Acontia
Cotype female, Colorado.

mala Smith, Copicucullia
Type male, Witch Creek, California, August 12, 1906.

malora Smith, Taeniocampa
Types, male and female, Calgary, Alberta, April 24; paratype male, same data.

manitoba Beutemüller, Catocala
A male labeled "type" from Winnipeg, Manitoba. This locality is not mentioned in the original description, although type specimens are stated to be in the Rutgers collection.

mansueta Smith, Acronycta
Cotype male, Sierra Nevada, California; cotype female, Nevada County, California.
Barnes, Stibadium
Cotype female, San Antonio, Texas.

Cerma Smith, Marina
Type male, southern Arizona (Poling).

Papaipema Bird, maritima
Cotypes, male and female, Rye, New York, bred September 30, 1908.

Acronycta marmorata Smith, 1892
Cotype male, Folsom, California, 5-1-1885, from Dept. Agr.

Leucania masculinus Smith, Carneades
Type male, Silverbow County, Montana, August 28, 1900, elevation 5800 feet (R. A. Cooley).

Taeniocampa mcrorna Smith, 1898,
Cotype male, Folsom, California, 5-1-1885, August 11, 1902 (Poling); type female, same data, August 8, 1902; cotype female, same data, August 4, 1902; cotype male, without data, but dated August 30, 1902, and it is probably from the same locality as above; cotype male, Kerrville, Texas.

Acronycta mellitula Hulst, Catocala minuta
Type male, no locality data.

Mamestra meodana Smith, Mamestra
Type male, Calgary, Alberta, June 16–23; type female, same data; cotypes, two males and one female, same data, June 16–23, July 1–7; cotypes, two males, Pullman, Washington, May 20, 1898, June 2, 1903; cotypes, male and female, Yellowstone Park, Wyoming, July 8–15; cotype female, Arrowhead Lake, British Columbia, July 8–15; cotype female, no data, but with No. 532.

Mamestra merceda Smith, Xyлина
1904, Psyche, vol. 11, p. 58.
Type female, Cartwright, Manitoba, November 1, 1903.

Epizeuxis merricki Smith, Epizeuxis
Type male, Chicago, Illinois, 7-12-02 (A. Kwiat); type female, New Brighton, Pennsylvania, July 25, 1904 (H. D. Merrick).

Mamestra mertena Smith, Calocampa
Type male, Pullman, Washington, April 21, 1903; cotypes, two males, same data, April 25, 1903, May 9, 1903; cotype male, Washington Territory, April 7, 1893; cotype male, Olympia, Washington.

Mamestra meskei Smith, Acontia
Cotype male, Texas.

Epizeuxis meta Smith, Rhynchagrotis
Type female, Pullman, Washington (C. V. Piper); cotype female, San Francisco County, California.
miscella Smith, Phaeocyma
Type male, Florida; type female, Virginia, Cornell University lot 172, Sub. F'lks collection; cotype female, same data as type female; cotype female, no data. The legs and the genitalia of the type male were mounted on two slides, and the latter are figured (1908, ibid., vol. 35, pl. 32, fig. 8).

metata Smith, Acronycta
Type female, Colorado (Bruce).

migrata Smith, Luperina
1903, Jour. New York Ent. Soc., vol. 11, p. 188.
Type female, Stockton, Utah.

minimalis Barnes and McDunnough, Blepina
Cotype female, Baboquivara Mountains, Pima County, Arizona, July 16–23.

miniota Smith, Xylophasia
Type male, Miniota, Manitoba, June 22; type female, same data, June 12.

minor Smith, Campometra
Cotype female, Arizona.

minorata Smith, Antiblemma
Cotype male, Florida, April.

minorata Smith, Eucalyptra
Type male, Hastings, Florida, October 4.

minorata Smith, Leucania
Type male, Oregon.

miona Smith, Annaphila
Type female, Plumas County, California, June; female genitalia mounted on slide No. 2308 by F. H. Rindge.

moxa Smith, Hadena
Type female, Texas, 20-9 (Belfrage).

mitis Smith, Carneades
Type female, Hot Springs, New Mexico. The only locality mentioned in the original description is Glenwood Springs, Colorado. However, Smith had two males and one female before him, and the present specimen may be the latter.

modesta Barnes and McDunnough, Prochloridea
Cotype female, Fort Wingate, New Mexico, July 1–7.

modesta Smith, Hypena
Two females, both labeled "type," Los Angeles County, California, April and July.

montara Smith, Mamestra
Type male, Claremont, California (Metz); cotype male, same data.

monteclara Smith, Noctua
Type male, Claremont, California (Baker).

monticola Hulst, Mycterophora
Type male, Sierra Nevada, California.

morana Smith, Mamestra
Type male, Yellowstone Park, Wyoming; type female, same data, July 8–15; paratype male, same data; paratype male, Washington; paratype female, Colorado, 7-8.

morsa Smith, Perigea
Type male, Brownsville, Texas, June (F. H. Snow); type female, same data.

mortualis Barnes and McDunnough, Renia
1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 5, p. 28.
Cotype female, Huachuca Mountains, Arizona, August 8–15.

moxa Smith, Euxoa
Type male, Glenwood Springs, Colorado.
musa Smith, Feltia
Type male, Newfoundland.

mustelina Smith, Xylomiges rubrica
Type male, Pullman, Washington, May 8, 1903; type female, same data, May 1, 1903; paratypes, male and female, same data, May 1, 8, 1903.

mycteropaeta Hulst, Magdalena
Type male, Black Hills. There is a second male labeled "type," from Colorado (Bruce), but this is not mentioned in the original description.

naevulus Smith, Carneades
Cotypes, two males and two females, Placer County, California, September.

nana Barnes and McDunnough, Cerma
Cotype male, San Diego, California.

nasar Smith, Xyrina
Cotype male, Redington, Arizona; cotype female, Arizona.

nefasia Smith, Rhynchagrotis
Type male, Fort Wingate, New Mexico, July 27; type female, same data, August 1; cotypes, two males and one female, same data, July 29, August 20, September 20; cotypes, two males and two females, Yavapai County, Arizona, May 27, June 19, July 9.

neagalis Barnes and McDunnough, Scotogamama
1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 5, p. 29.
Cotype female, Palmerlee, Arizona.

eugesusa Smith, Mamestra
Cotype male, mouth of Fish Creek, Calgary, Alberta, May 1, 1895 (F. H. W. Dod); cotype female, same data, May 14, 1898.

neocula Smith, Acontia
Cotype male, Hot Springs, New Mexico, 7000 feet altitude; cotype female, no data except collection G. D. Hulst; cotypes, male and female, Texas.

neomexicana Smith, Carneades
Type male, Hot Springs, New Mexico, 7000 feet altitude, August.

neotelia Smith, Carneades
Cotype male, Pullman, Washington (C. V. Piper).

neoterica Smith, Mamestra
Type female, Winnipeg, Manitoba.

neptis Smith, Leucania
Type female, Fort Collins, Colorado, August 13, 1895; cotype male, same data.

nesaea Smith, Omia
Type female, Argus Mountains, April, 1891 (K.), through C. V. Riley.

nesilens Smith, Euxoa
Type male, Brandon, Manitoba; type female, head of Pine Creek, Calgary, Alberta, July 6, 1898 (F. H. W. Dod); cotypes, male and female, Calgary, Alberta, July 12 (Dod).

nevada Barnes and McDunnough, Scotogamama
Cotype male, Esmereldla County, Nevada.

nevada Smith, Carneades
Cotypes, two males, Nevada.

nicalis Smith, Xylomiges
Type male, Pullman, Washington, April 23, 1903; type female, same data, May 1, 1903; cotypes, three males and two females, same data, April 23, 1903, May 1, 1903.
niger Smith, Rhynchagrotis  
Type male, Pullman, Washington, May 31, 1897 (R. W. Doane); type female, Moscow, Idaho, July 14, 1898 (C. V. Piper).

nigerrima Smith, Oncocnemis  
Type male, Colorado Desert, Yuma County, Arizona.

nigra Smith, Peridroma  
Type female, Colorado, 9-2-88 (Bruce); this is the specimen illustrated.

nigrocaput Smith, Oncocnemis  
Type female, Colorado (Bruce).

nigrofascia Hulst, Leucania  
Type female, Florida. The original description gives the type locality as Tallahassee, Florida.

nipana Smith, Mamestra  
Type female, southern Arizona (Poling); cotype female, same data, June 1–15; cotype female, Baboquivari Mountains, Pima County, Arizona, July 15–30, 1903 (Poling).

nita Smith, Oncocnemis  
Type male, San Diego, California, October 26, 1908 (W. S. Wright); type female, same locality, 11-7-1908 (Geo. H. Field).

nivealis Smith, Eucalyptia  
Type male, Iowa City, June 23, 1898 (Wickham).

niveicolis Smith, Acontia  
Type male, Walters Station, California, April.

niveicosta Smith, Neleucania  
Type male, Glenwood Springs, Colorado, August, 1892 (W. Barnes); cotype male, same data, August 8–15.

noctuidalis Dyar, Pleonectyptera  
Cotype male, Oracle, Arizona, 6-9-03 (Oslar), type No. 10295 United States National Museum; cotype female, same data but without any date.

norda Smith, Phaeocyma  
Type male, Kaslo, British Columbia, May 19; type female, same data; cotypes, male and female, same data, May 27, 30.

nordica Smith, Carneades  
Cotype female, Olds, British Columbia.

nova Smith, Trichoclea  
Type male, Tucson, Arizona, March 17; cotype male, Mesila Park, New Mexico, March, 1900 (Norarewberry). There is a single slide of the male genitalia, and the type male is without an abdomen. It is probable that the preparation is from the type, as no other specimens were lacking abdomens.

nubilata Smith, Taeniocampa  
Type male, Glenwood Springs, Colorado, May 12, 1893 (W. Barnes); type female, same data, May 10, 1894; paratype female, Garfield County, Colorado, 6000 feet. The type male has the genitalia mounted on a slide.

nugatis Smith, Mamestra  
Cotype male, Nevada.

nuicola Smith, Acontia  
Cotype male, Texas.

obesula Smith, Mamestra  
Type male, head of Pine Creek, Calgary, Alberta, July 20, 1903 (F. H. W. Dod); type female, Denver, Colorado, July 11; cotype female, head of Pine Creek, Calgary, Alberta, July 22, 1903 (F. H. W. Dod).
obtusa Smith, Carneades
Cotypes, two males and one female, Pullman, Washington (C. V. Piper), one being dated July 12, 1898.

obliqua Smith, Amolita
Type male, Hastings, Florida, April; type female, same data; cotypes, seven males, same data, March, April, September 30, October 15.

obliqua Smith, Fagitana
Type female, Florida.

obliqua Smith, Feltia
1903, Canadian Ent., vol. 35, p. 129.
Type male, head of Pine Creek, Calgary, Alberta, May 9, 1902 (F. H. W. Dod); cotype female, same data, June 16, 1898.

obnigra Smith, Mamestra
Type female, Corvallis, Oregon, 8-5-1898; cotype female, Livingston, Vancouver, July 17, 1896.

obscura Barnes and McDunnough, Protagrotis
Cotypes, two males, Reno, Nevada.

obscurior Smith, Cucullia
Type male, Colorado (Bruce).

obscurior Smith, Leucania
Type male, Cartwright, Manitoba.

obscurus Smith, Epidemas
Type male, Pullman, Washington (C. V. Piper).

obtusa Smith, Cucullia
Type male, Santa Catalina Mountains, Arizona, September; type female, southern Arizona (Poling).

obtusa Smith, Helotropha
Type male, Ashleys Ferry, Claremont, New Hampshire, September 3, 1900; type female, same data, August 17, 1901.

occluna Smith, Taeniocampa
Type male, Mesilla Park, New Mexico, May 9, 1900 (Cockerell).

ochracea Smith, Cyathissa
Types, male and female, southern Arizona (Poling). According to the original description, the type locality is Baboquivaria Mountains, Pima County, Arizona, July 15 (Poling); there are no specimens in the collection with these data on label.

olga Smith, Andropolia
Type male, Sierra Nevada, California.

olivacea Barnes and McDunnough, Grotella
Cotype male, Tucson, Arizona, July 24–31; cotype female, Deming, New Mexico.

olivacea Smith, Schinia
Type female, Beeville, Texas, October, 1895.

ona Smith, Luperina
Type male, Santa Catalina Mountains, Arizona, September; type female, southern Arizona (Poling).

orba Smith, Conacontia
Type female, Huachua Mountains, Arizona.

orbiculata Smith, Stretchia
Type male, Colorado (Bruce).

oregona Smith, Leucania
Type male, Corvallis, Oregon, 4-11-1898.

orida Smith, Mamestra
Types, male and female, Stockton, Utah, October.
ornatus Smith, Abagrotis
Type female, Kaslo, British Columbia (J. W. Cockle); cotype female, Idaho (C. V. Piper).

ortruda Smith, Mamestra
Type male, Colorado (Bruce); type female, Glenwood Springs, Colorado, August 1-7; paratype male, Glenwood Springs, Colorado, August 8-15. The abdomen and genitalia of the paratype male were mounted on slides.

othello Smith, Acronycta
Type male, San Diego, California.

pacifica Smith, Acronycta
Cotype male, Sierra Nevada, California.

pallescens Smith, Hydroecia
Cotype male, Calgary, Alberta, August 24-30.

palicada Smith, Mamestra
Cotype female, Huachuca Mountains, Arizona, July 12.

pallicincta Smith, Schinia
Type male, Utah.

pallida Smith, Cyathissa
Type female, Walters Station, California, April.

pallimela Smith, Crimona
Type female, Walters Station, California, April.

palliseca Smith, Leucania
Cotypes, two females, Denver, Colorado, April 26, October 5.

panatela Smith, Erastria
1904, Psyche, vol. 11, p. 60.
Type male, W. Man., July. The abbreviation is probably for Winnipeg, Manitoba. The type also bears blue label with 195. There is a second male from the same locality that bears Smith's label "type lot."

parallela Smith, Pleonectyptera
Type female, Huachuca Mountains, Arizona.

parcata Smith, Hadena (Xylophasia)
Type male, Yellowstone Park, Wyoming.

pardalis Smith, Yrias
Type male, Santa Rita Mountains, Arizona, 5-8000 feet, July (F. H. Snow).

paresa Smith, Campometra
1906, Canadian Ent., vol. 38, p. 236.
Type male, Redington, Arizona; type female, Yavapai County, Arizona, May 29-30; cotypes, three males and two females, Yavapai County, Arizona, May 29-30.

parta Hulst, Catocala petulans
Type female, without locality data.

partialis Smith, Epizeuxis
Type male, Yavapai County, Arizona, July 22.

parvimacula Smith, Chytonix
Type male, middle California.

parvipuncta Barnes and McDunnough, Grotella
Cotype female, Deming, New Mexico, September 1-7.

patefacta Smith, Noctua
Type female, Calgary, Alberta, July 2 (Dod). Smith's type label has the notation "type two."
pausia Smith, Hadena
1899, Canadian Ent., vol. 31, p. 262.
   Cotypes, two males, Los Angeles County, California, June (Coquillet).

pectinatus Smith, Nepheleodes
1900, Canadian Ent., vol. 32, p. 221.
   Cotype male, Corfield, Vancouver, British Columbia, S., 7–9, 1896.

pendens Smith, Leucania
1905, Canadian Ent., vol. 37, p. 66.
   Type female, Chokaloskee, Florida.

pendina Smith, Agroperina
   Type male, head of Pine Creek, Calgary, Alberta, July 22, 1896 (F. H. W. Dod); type female, Calgary, Alberta, July 8–15; paratype male, Winnipeg, Manitoba; paratype female, Brandon, Manitoba.

penumbrata Hult, Sigela
   Type male, Archer, Florida, March 21, 1882 (A. Koebele).

perolivalis Barnes and McDunnough, Namangana
   Cotype female, Redington, Arizona.

perolivalis Smith, Rhizagrotis
   Type male, head of Pine Creek, Calgary, Alberta, July 9, 1904 (F. H. Wolley Dod); type female, mouth of Fish Creek, Calgary, Alberta, July 14, 1894 (F. H. Wolley Dod).

pestula Smith, Euxoa
1904, Canadian Ent., vol. 36, p. 150.
   Type male, head of Pine Creek, Calgary, Alberta, July 4, 1904 (F. H. Wolley Dod); type female, same data; cotypes, male and female, same data, July 1, 2, 1904.

petita Smith, Mamestra
   Type male, Seattle, Washington; cotype female, Corfield, Vancouver.

phila Smith, Cucullia
   Type male, Philadelphia, Pennsylvania.

pina Smith, Acontia
   Type male, Babacuivera Mountains, Pima County, Arizona.

pindar Smith, Carneades
   Cotype male, Bluff, Utah, 1898 (Mrs. H. M. Peabody).

plagiata Smith, Nocloa
   Type male, Arizona.

plebeia Smith, Noctua
   Cotype male, California.

polingi Barnes and Benjamin, Rhizagrotis
1922, Contributions to the natural history of the Lepidoptera of North America, vol. 5, p. 41.
   Paratype female, Dixieland, Imperial County, California, March 1–15, 1922 (O. C. Poling).

pomona Smith, Xylena
   Type male, Olympia, Washington.

poncha Smith, Euxoa
   Type male, Poncha Springs, Colorado, July 12, 1898; type female, Colorado, 1494.

praecuta Smith, Platyperigea
   Type female, Glenwood Springs, Colorado, September, 1892 (W. Barnes).

proba Smith, Taenioecampa
   Type male, Alameda County, California, January. The genitalia were mounted on a slide by Smith.

protea Smith, Campometra
   Type male, Yavapai County, Arizona, May 30; type female, same data, May 22; cotypes, nine males and three females, same data, May 23, 25, 28, 29, 31, June 21, 24; cotype male, southern Arizona, June 15–30 (Poling).
**pudorata** Smith, *Onconemis*  
Type male, British Columbia. According to the original description, the type locality is Agnes Lake, Laggan, "British Columbia," 6700 feet.

**pugionis** Smith, *Carneades*  
Cotype male, Colorado, 1440.

**pulchella** Smith, *Xanthia*  
1900, *Canadian Ent.*, vol. 32, p. 223.  
Type male, Livingston, Vancouver, September 14, 1896, No. 501.

**pulverea** Smith, *Narthecophora*  
Cotype male, Tucson, Arizona, July 19 (E. A. Schwarz); cotype female, same data, July 20.

**pulverosalis** Smith, *Renia*  
Type female, Glenwood Springs, Colorado, September, 1892 (W. Barnes).

**pulverulenta** Smith, *Perigea*  
"Type" male, Colorado; "type" female, Arizona. Franclemont (1941, *Canadian Ent.*, vol. 73, p. 133) chose a lectotype which is in the collection of the United States National Museum; hence these specimens are cotypes.

**puncticosta** Smith, *Erasia*  
Type male, New Brighton, Pennsylvania, August 3, 1903 (H. D. Merrick); cotypes, three males, same data, July 22, 24, 29, 1905.

**punctilinea** Smith, *Perigonica*  
Type male, no data except April 15–30; type female, southern Arizona, April 15–30 (Poling); cotypes, male and female, same data as for type female.

**punctirena** Smith, *Cosmia*  
1900, *Canadian Ent.*, vol. 32, p. 222.  
Cotype male, Cartwright, Manitoba; cotype male, Glenwood Springs, Colorado, September, 1895 (W. Barnes).

**punctivena** Smith, *Capnodes*  
Type female, Charlotte Harbor, Florida.

**punctivena** Smith, *Cadarina*  
Type female, Colorado (Bruce).

**punitalis** Smith, *Pleoneuctyptera*  
Type male, Palmerlee, Arizona; type female, same data; cotype male, Durango, Colorado, July 8–15; cotype female, Hot Springs, New Mexico, 7000 feet altitude, August.

**pura** Barnes and McDunnough, *Oslaria*  
Cotypes, two females, Christmas, Gila County, Arizona.

**pura** Hulst, *Catocala*  
Type male, Colorado.

**quadrata** Smith, *Mamestra*  
Type male, Placer County, California, June; type female, same data.

**quadrate** Smith, *Cyathissa*  
Type female, San Bernardino Ranch, Cochise County, Arizona, 3750 feet, August (F. H. Snow).

**quadriplaga** Smith, *Acontia*  
Cotypes, two females, Texas.

**quadristigma** Smith, *Himella*  
Two cotype females, Bluff, Utah, 1898 (Mrs. H. M. Peabody).

**quinquefasciata** Smith, *Taeniocampa*  
Type male, Vancouver, British Columbia, March 31, 1903; type female, Massett, Q. C. I., April 28, 1894; cotype male, Pullman, Washington, April 19, 1898.

**quinta** Smith, *Euxoa*  
Type male, Kaslo, British Columbia, July 10, 1905; type female, same data, June 1, 1906; cotype male, High River, Alberta (Thos. Baird). McDunnough (1950, Bull. Amer. Mus. Nat. Hist., vol. 95, p. 370) is in error in the citing of the type material, as the localities are reversed.

**rabiata Smith, Euoxa**
Type male, South Dakota; paratype male, Volga, South Dakota; paratype male, Colorado; paratype male, no data except collection S. T. Kemp.

**radiatus Smith, Lythrodes**
Type female, Colorado Desert, Yuma County, Arizona; cotype female, same data.

**rectalis Smith, Setagrotis**
Cotype male, Nevada.

**rayata Smith, Homohadena**
Type female, Kerrville, Texas.

**rectifascia Smith, Dryobata**
Type male, Sierra Nevada, California.

**rectiflava Smith, Himella**
Type male, Huachuca Mountains, Arizona, July 30.

**regina Smith, Oncocnemis**
Type male, Regina, North West Territory, 1886.

**rena Smith, Agrotis**
Type male, Sierra Nevada, California.

**reniformis Smith, Isogona**
Type male, Harris County, Texas; type female, Hockley, Texas, April 1–10; cotype male, Harris County, Texas; cotype male, Hockley, Texas, April 1–10; cotype female, Texas.

**reniformis Smith, Schinia**
Cotype male, Denver, Colorado, June 25; cotypes, male and female, Colorado (Bruce).

**rectalis Smith, Heliodes**
Type female, Butte County, California (Coquillett).

**rectalis Smith, Heliodes**
Type male, Esper Ranch, Brownsville, Texas.

**rigida Smith, Renia**
1905, Canadian Ent., vol. 37, p. 70.
Type male, Oak Creek Canyon, Arizona, 6000 feet, August (F. H. Snow).

**rigida Smith, Siavana**
Type male, Huachuca Mountains, Arizona.

**rivulosa Smith, Nocloa**
Type male, Yuma County, Arizona, March 23.

**robustior Smith, Feltia**
Cotype male, Brandon, Manitoba, September 1, 1898. One of the valves of the
male genitalia has been mounted on a slide, and the slide is labeled "male type."

**rorulenta** Smith, *Xylophasia*
Type female, head of Pine Creek, Calgary, Alberta, July 17, 1903 (F. H. Wolley Dod); cotype male, Winnipeg, Manitoba; cotype male, New York; cotype female, Denver, Colorado, May 29; cotype female, head of Pine Creek, Calgary, Alberta, July 2, 1896 (F. H. Wolley Dod).

**rosea** Smith, *Onocnemis*
Type male, southern Arizona, April 1–15 (Poling); cotype male, Colorado Desert.

**roseola** Smith, *Amolita*
Type male, Hastings, Florida, March; cotypes, two males, same data.

**rubiiata** Smith, *Phaeocyma*
Type male, Arizona; type female, same data; cotype male, Phoenix, Arizona, 1–25; cotype male, no data. Three legs and the genitalia of the type female were mounted on two slides, and the latter are figured (1908, *ibid.*, vol. 35, pl. 35, fig. 9).

**rubida** Barnes and McDunnough, *Namangana suffusa*
Cotype male, San Diego, California.

**rubiginosa** Bird, *Papaipema*

**rubripallens** Smith, *Leuconana*
Type male, Glenwood Springs, Colorado, June 24–30; cotype female, same data, August 24–30.

**runata** Smith, *Hadena (Xylophasia)*
Cotype male, W., June 20, 1897; cotypes, one male and two females, Winnipeg, Manitoba, one of the latter dated June 25, 1897.

**sabulosa** Smith, *Meliceleptria*
Type female, Doble, California, April 19.

**saleppa** Smith, *Taenioampa*
Type male, Wellington, British Columbia, April 14, 1903; type female, Wellington, British Columbia.

**sambo** Smith, *Rhynchagrotis*
Type male, with small round label, July 29, 1905; type female, with same kind of label, August 1, 1907. This is the kind of label used by Cockle, and these two specimens probably came from him; these two types are probably from Kaslo, British Columbia. Cotypes, two females, both with small round label, August 1, 30, 1907. In addition to these specimens, there is one other that is labeled Kaslo, British Columbia (Cockle).

**santa Hulest, Catocala*
Type male, without locality data.

**sanina** Smith, *Onocnemis*
Type male, Gunnison, Colorado, July 9; type female, same data; cotypes, two females, same data.

**sara** Smith, *Schinia*
Type female, Wilgus, Cochise County, Arizona.

**sareta** Smith, *Mamestra*
Type male, Minnehaha, Yavapai County, Arizona, October 3; type female, same data, October 2; cotypes, three males and two females, same data, September 3–October 4; cotype male, Huachuca Mountains, Arizona.
scarletina Smith, *Palada*
Cotype male, California.

schwarzii Smith, *Acontia*
Type female, Catalina Springs, Arizona, July 24 (E. A. Schwarz).

secundalis Smith, *Pleonectyptera*
Type male, Plumas County, California, June 1; type female, Los Angeles, California (Coquillet).

dedilis Smith, *Scotogramma*
Cotype female, Colorado (Bruce).

segregata Smith, *Carneades*
Type male, Colorado (Bruce).

segura Barnes, *Isogona*
A male, labeled “type,” from southern Arizona, July 16–30 (Poling). The original description states that the types are from the Baboquivari Mountains, Arizona; the type female is illustrated by Barnes and McDunnough (1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 4, p. 28, pl. 12, fig. 21). It is doubtful that the present specimen is the holotype, as it is probably in the Barnes collection in the United States National Museum, so it should probably be considered no more than a cotype.

semiatra Smith, *Acontia*
Type male, Yuma County, Arizona, March; type female, same data. According to the original description, the type locality is Quartzsite in Yuma County.

semicollaris Smith, *Oncocnemis*
Type female, Peachland, British Columbia, July, 1907 (J. B. Wallis).

semifascia Smith, *Chytonix*
Type female, Garfield County, Colorado, 6000 feet (Bruce).

semivealis Hulst, *Orobenia*
Type female, Arizona.

senilis Smith, *Hydroecia*
Type male, Colorado (Bruce).

serano Smith, *Peridroma*
Type female, Chiricahua Mountains, Arizona; cotype female, same data.

serena Smith, *Pleonectyptera*
Type male, San Diego, California, 8-1, 1910 (George H. Field); paratypes, male and female, same data, 6-9, 1908, and 9-29, 1908; paratypes, two males, Plumas County, California, May 1; paratype female, California, 140 (Coquillet).

serrata Smith, *Trichopolia*
Cotype male, Texas.

servitus Smith, *Carneades*
Type male, Colorado (Bruce). McDunnough (1949, Amer. Mus. Novitates, no. 1394, p. 8) is in error in saying that this specimen is a female.

sexata Smith, *Melicleptria*
Type male, Aweme, Manitoba, July 21, 1904 (Criddle); type female, same data, July 27, 1904.

similana Smith, *Acronycta*
Type male, Chicago, Illinois, June 15, 1904.

similaris Barnes, *Admetovis*
Cotype female, Arizona, April 1–7.

similaris Smith, *Cucullia*
Type male, Platte Canyon, Colorado, on flowers, 6500 feet (D. Bruce).

**simplicia** Smith, Oncocnemis
Type male, Colorado Desert.

**slossoniae** Hulst, Mycterophora
1898, Canadian Ent., vol. 30, p. 120.
Type male, Franconia, New Hampshire, September or October. The original description states White Mountains, New Hampshire, from Mrs. Slosson.

**snowi** Smith, Parora
Type male, Brownsville, Texas, July.

**socorro** Barnes, Rhizagrotis
1904, Canadian Ent., vol. 36, p. 171.
Cotypes, male and female, Huachuca Mountains, Arizona.

**sora** Smith, Hadena (Xylophasia)
1903, Canadian Ent., vol. 35, p. 133.
Type male, head of Pine Creek, Calgary, Alberta, July 2, 1896 (F. H. W. Dod).

**sordida** Smith, Chorizagrotis
Type male, Kaslo, British Columbia, September 6, 1902; type female, Kaslo, British Columbia.

**sotnia** Smith, Euxoa
Type male, Stockton, Utah, September 24, 1904; type female, same data, September 22, 1904; cotypes, one male and three females, same data, September 5, 9, 22, 25, 1904.

**spaldingi** Smith, Hyppa
Type female, Stockton, Utah, June 30, 1907 (Tom Spalding).

**speratina** Smith, Acronycta sperata
Type male, Denver, Colorado; cotype female, same data, July 8–15.

**spreta** Smith, Noctua
Type male, Hastings, Florida; type female, same data.

**squa** Smith, Anarta
Types, male and female, Greenland.

**stabilis** Smith, Homohadena
Type male, Calgary, July 18, 1894. This specimen is labeled “type 3.”

**stena** Smith, Thyreion
Type male, Colorado, 556. According to the original description, the localities were Golden and Fort Collins.

**stigmata** Smith, Miodera
Type male, Witch Creek, California, 1-12; cotypes, four males, same data, 11-1, 1-15, 1-19, 2-3.

**stigmatalis** Smith, Carneades
Cotypes, two males, Glenwood Springs, Colorado, August, 1892, 1894 (W. Barnes).

**stramines** Smith, Orthosia
Type male, Glenwood Springs, Colorado, October 16–23.

**strigalis** Smith, Yrias
Type male, Arizona; type female, same data.

**strigata** Smith, Eucalyptera
Type male, Hackley, Texas, September 1–10; type female, same data; cotypes, two males and three females, same data, May 29, September 1–10.

**strigulata** Smith, Acronycta
Cotypes, two males, Colorado (Bruce).

**strigulataria** Smith, Erastria
Type female, Florida. The forewings are attached to a card, as there is no body at all.
Smygialis Smith, Eucalyptra
Type male, southern Arizona (Poling).

Stylata Smith, Cerapoda
Type male, Colorado (Bruce); type female, same data.

Suavis Barnes and McDunnough, Leucania
1912, Canadian Ent., vol. 42, p. 52.
Cotype female, White Mountains, Arizona.

Subatra Smith, Meliccleptia
Type male, Gallatin County, Montana, 7–10, 1900, 9400 feet elevation (E. Koch); type female, Mt. Rainier, Washington, Washington Experiment Station No. 631.

Subciternalis Hulst, Orobena
Type male, Arizona.

Subjugata Dyar, Peridroma
1904, Canadian Ent., vol. 36, p. 31.
Cotypes, one male and two females, Kaslo, British Columbia.

Submissa Smith, Andropolia
Type female, Provo, Utah, August 8, 1909 (Tom Spalding); paratypes, three females, same data.

Substrigata Smith, Noctua
Type male, edge of Calgary, August 4, 1893. Smith’s type label says “type 3.”

Subtermina Smith, Synedoida
Cotype female, San Diego County, California.

Sudena Smith, Charadra
Types, male and female, Miami, Florida.

Suffusa Barnes and McDunnough, Namangana
Cotype female, Santa Catalina Mountains, Arizona, September.

Suffusalis Smith, Epizeuxis
Type female, Santa Rita Mountains, Arizona, June 16, 1898 (E. A. Schwarz).

Susquesa Smith, Hadena
Type male, southern Arizona (Poling); type female, Redington, Arizona.

Tantiva Smith, Xylomiges
Type male, southern Arizona (Poling); type female, Kerrville, Texas.

Tartarea Smith, Acrolyctia
Type male, head of Pine Creek, Calgary, Alberta, June 23, 1898 (F. H. Wolley Dod).

Tartacea Smith, Epizeuxis
Type male, Regina, Asba., August 5, 1904 (T. N. Willing).

Tela Smith, Hadena
Cotypes, male and female, Rio Verde Mountains, Phoenix, Arizona, September, 1893 (W. Barnes).

Teltowa Smith, Anytus
Type male, Elizabeth, New Jersey, 9-9; type female, Vineland, New Jersey, August 29; paratype female, Hampton, New Hampshire, September 29, 1908 (S. A. Shaw).

Tenalis Smith, Pleonectyptera
Type male, Yuma County, Arizona, August 19; type female, Minnehaha, Yavapai County, Arizona, August 18; cotype female, Minnehaha, Yavapai County, Arizona, August 26.

Tenisca Smith, Mamestra
1955

RINDGE: TYPE MATERIAL OF LEPIDOPTERA

Type male, Bozeman, Montana, August 21, 1907; type female, Stockton, Utah, September 15, 1904; cotype male, Bozeman, Montana, September 6, 1907; cotypes, two males and one female, Stockton, Utah, September 5, 8, 14, 1904. The type male has the genitalia mounted on slide No. 14.

tenuescens Smith, Acontia
Type female, Lake Worth, Florida.

teplia Smith, Euxoa
Type male, Colorado (Bruce); type female, Stockton, Utah, September 14, 1904.

terminalis Smith, Yrias
Type male, Yavapai County, Arizona, May 25; type female, same data, May 20.

terrenus Smith, Carneades
Cotypes, male and female, Pullman, Washington, July 12, 1898; Washington Experiment Station No. 344; cotypes, two males, eastern Washington (C. V. Piper).

terrifica Smith, Setagrotis
Type male, Colorado (Bruce).

territorialis Smith, Carneades
Cotype male, Salida, Colorado, 7-10-1898.

tertia Smith, Nephelodes
Type male, Winnipeg, Manitoba, August 18, 1900; type female, same data, August 16, 1900.

tetera Smith, Leucania
Type male, southern Arizona (Poling).

texana Smith, Parora
Cotype female, Brownsville, Texas, June 11, 1895.

texana Smith, Perigea
Cotype male, Round Mountain, Texas; cotypes, three males, Brazos County, Texas.

tilosalis Smith, Renia
Type male, New Brighton, Pennsylvania, July 23, 1902 (H. D. Merrick); type female, same data, August 2, 1903; cotypes, male and female, same data, July 24, 25, 1902; cotype male, Oak Ridge, New Jersey, 8-7-04.
tobia Smith, Schinia
Type female, Phoenix, Arizona, September 16–23.

tonitra Smith, Acronycta
Type male, St. Louis, Missouri, June 15 (H. McElhose); type female, same data, July 21, 1904.
torrida Smith, Xylina
Cotype male, Pullman, Washington, March 7, 1895 (C. V. Piper).

transversata Smith, Acronycta
Cotype male, Colorado.

tricolor Barnes, Grotella
A male from the Baboquavaria Mountains, Pima County, Arizona, July 15–30, 1903 (Poling), is labeled "type." However, a lectotype was designated by Barnes and Benjamin (1922, Contributions to the natural history of the Lepidoptera of North America, vol. 5, p. 17). Hence the present specimen can be no more than a paratype, as it may be the specimen from Pima County listed in the original description.

trifascia Smith, Taeniocampa
Type male, Colorado (Bruce).

trigona Smith, Luperina
Type male, Smith County, Tennessee, August 6; cotype male, same data, August 21.
triola Smith, Melicleta
Type male, without data; type female, Los Angeles County, California.

tripartita Smith, Tornaonta
Type female, Wilgus, Cochise County, Arizona.

tristis Smith, Acronycta
Type male, "No. 1275, see Dimmock's Entomological notes (in MS)"; paratypes, two males, Cohasset, Massachusetts, July 4; paratype female, Johnson City, Tennessee, July; paratype female, Canada, 8-15.

tronellus Smith, Carneades
1903, Canadian Ent., vol. 35, p. 11.
Type male, Stockton, Utah, October.

trumani Smith, Noctua
1903, Canadian Ent., vol. 35, p. 128.
Type male, Volga, South Dakota; type female, same data. There is a male specimen from the same locality that is labeled "male genitalic type."

truva Smith, Euxoa
Type male, Colorado (Bruce); type female, Poncha Springs, Colorado, July 12, 1898.

tuana Smith, Mamestra
Type male, Huachua Mountains, Arizona; type female, same data.

tufa Smith, Mamestra
Type male, Stockton, Utah, August 30, 1904.

turpis Smith, Acronycta
Type male, Provo, Utah, July 24, 1908 (Tom Spalding).

uintara Smith, Antitype
Type male, Witch Creek, California, January 18; paratypes, three males, San Diego, California, March, November; paratypes, four males, Witch Creek, California, February 3, 14, and 15.

ulalume Strecker, Catocala
1878, Lepidoptera Rhopalocera Heterocera, p. 132.
A male, from Texas, labeled "from original type."

ulamora Smith, Tricholita
Type male, San Diego, California, October 20, 1908 (George H. Field).

uliginosa Smith, Mamestra
Types, male and female, Kerrville, Texas.

umboata Smith, Eucalypta
Type male, Hastings, Florida, June 24–30; cotypes, five males, same date, April.

unicincta Smith, Hadena
Cotype female, Soda Springs, California, August 24.

unimoda Smith, Hydroecia
Type male, Colorado (Bruce).

unita Smith, Xylophasia
1904, Psyche, vol. 11, p. 54.
Type female, head of Pine Creek, Calgary, Alberta, June 26, 1897 (F. H. Wolley Dod).

ura Smith, Euxoa
1905, Canadian Ent., vol. 37, p. 203.
Type male, Stockton, Utah, September 26, 1903 (Tom Spalding); type female, same date, September 22, 1904; cotype female, same data, October 2, 1904.

uramina Smith, Euxoa
1905, Canadian Ent., vol. 37, p. 204.
Type male, Stockton, Utah, September 13, 1903 (Tom Spalding); type female, same date, September 18, 1903.

ursina Smith, Lathosea
Cotypes, two males, Glenwood Springs, Colorado, March 27, 1893 (W. Barnes).
ursina Smith, Merolonche
Cotype male, Colorado (Bruce).

u-scripta Smith, Mamestra
Type male, Sierra Nevada, California.

vanidicus Smith, Carneades
Cotypes, two males, Phoenix, Arizona, November 5, 19.

variabilis Barnes and McDunnough, Namangana
Cotype male, San Diego, California.

variegata Smith, Annaphila
Type male, Placer County, California, 2500 feet, male genitalia mounted on slide No. 2363 by F. H. Rindge; type female, same data, female genitalia mounted on slide No. 2310 by F. H. Rindge; cotypes, two males and three females, same data.

vau-orbicularis Smith, Mamestra
Type male, Corvallis, Oregon, June 21, 1900.

vega Smith, Bomolocha
Cotypes, two males, southern California. According to the original description, the species is from Las Vegas, New Mexico (Balter), and Lower California (Barnes). However, the labels on these two specimens are of the type used by Barnes.

venata Smith, Taeniocampa
1890, Ent. Amer., vol. 6, p. 123.
Type male, New York.

venatus Smith, Lythrodes
Type male, Santa Fe, New Mexico, July (Cockerell).

venosa Smith, Cosmia
Type male, Corvallis, Oregon, 6-12-98; cotype, two females, same data, 6-29-1896, 6-8-98.

verberata Smith, Orthosia
Type male, head of Pine Creek, Calgary, Alberta, September 17, 1903 (F. H. Wolley Dod); type female, same data, September 27, 1903.

verecunda Hulst, Catocala
Type male, Montana. There is a female labeled “type” from the Black Hills, but this locality is not mentioned in the original description.

vertina Smith, Xyliina
1904, Psyche, vol. 11, p. 58.
Type male, Corvallis, Oregon, 10-8-1896.

vestitura Smith, Euxoa
1905, Canadian Ent., vol. 37, p. 201.
Type male, St. John, New Brunswick, August 15, 1899; type female, same data, August 7, 1899; cotypes, three males, same data, August 15, 1899, August 17, 1900.

vinela Smith, Fishia
Type male, Glenwood Springs, Colorado, October, 1894 (W. Barnes); cotype male, Denver, Colorado, October 10.

viridimedia Smith, Bryophila
1905, Jour. New York Ent. Soc., vol. 13, p. 188.
Type male, Cochise County, Arizona, June 24.

viriditincta Smith, Oncocnemis
Type female, McLean, British Columbia, August 21.

votiva Hulst, Catocala verrilliana
Three males, labeled type, from Arizona.

winnipeg Smith, Xyliina
Cotype male, Winnipeg, Manitoba.

yakima Smith, Mamestra
Cotype female, Yakima, Washington (C. V. Piper).

**yavapai Smith, Phaeocyma**
Type male, Yavapai County, Arizona, July 22; type female, same data; cotype male, same data, July 13; cotype female, Minnehaha, Yavapai County, Arizona, August 11; cotype male, Glenwood Springs, Colorado, June 8–15. The legs and the genitalia of the type male were mounted on two slides, and the latter are figured (1908, *ibid.*, vol. 35, pl. 33, fig. 6). The genitalia of the female type were mounted, and they are illustrated on plate 35, fig. 11. In addition, the legs and genitalia of the cotype female from Minnehaha were also mounted on two slides.

**youngi Smith, Semioniophora**
1902, Canadian Ent., vol. 34, p. 29.
Type male, Mer Bleue, Ontario, August 19, 1901; type female, same locality, August 30, 1899.

**yuma Smith, Oxynemisis**
Type male, Colorado Desert, Yuma County, Arizona; type female, same data; cotype male, Kerrville, Texas, May 24–30; cotype male, southern Arizona (Poling); cotypes, five females, Colorado Desert, Yuma County, Arizona; cotype female, Gila County, Arizona, June, 1902 (O. C. Poling).

**zembla Smith, Euxoa**
Type male, Stockton, Utah, October 8, 1904; type female, same data, October 2, 1904; cotype female, same data, no date.

**LASICAMPIDAE**

**coronada** Barnes, Gloveria
Cotype male, without data.

**THYATIRIDAE**

**pennsylvanica** Smith, Euthyatira
Type male, New Brighton, Pennsylvania, 5-3-01 (H. D. Merrick); cotype female, Pennsylvania, 4-29.

**GEOMETRIDAE**

**abacta** Hulst, Mesoleuca
1898, Canadian Ent., vol. 30, p. 117.
Type male, Arizona.

**abjectarius** Hulst, Tornos rubiginosarius
Type male, Texas. The male genitalia have been mounted on slide No. 3719 by F. H. Rindge.

**addendaria** Grossbeck, Alcis
Cotype male, Stockton, Utah, July 12, 1907.

**aemulata** Hulst, Leptomeris
Type female, Charlotte Harbor, Florida, March.

**affiliata** Pearsall, Stamnodes
1911, Canadian Ent., vol. 43, p. 252.
Cotype male, San Diego, California, December 3, 1910 (L. E. Ricksecker).

**alaskae** Hulst, Coenocalpe
Type male, Alaska.

**albidula** Hulst, Cingulis
Type female, Florida (Mrs. Slosson).

**albidula** Hulst, Stenaspiletes
A male labeled "type" from Colorado (Bruce). However, according to the original description, the type is in the United States National Museum collection, so the present specimen becomes a cotype.

**albiserpentata** Pearsall, Pigia
Two female cotypes, Yavapai County, Arizona, May 29, 30.

**alticola** Hulst, Meris
Type female, Colorado (Bruce). Female genitalia on slide No. 7, June 14, 1946, H. W. Capps.
amorata Hulst, Hydriomena
1900, Canadian Ent., vol. 32, p. 104.
Types, male and female, Santa Cruz Mountains, California.

cancelleta Hulst, Acidalia
1887, Ent. Amer., vol. 21, p. 186.
A male labeled “type” from Hot Springs, New Mexico, 7000 feet altitude, August. Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 172) have discussed this so-called “type” and say that it is spurious.

anfractata Hulst, Eutrapela
There are two males, both labeled “type,” one from California, the other from Santa Fe, New Mexico, July (Cockerell). According to the original description, this species was described from two males and one female from Arizona, so the status of the two specimens labeled “type” is somewhat dubious.

animata Pearsall, Marmopteryx
A male from Doble, California, July, is labeled “cotype.” This locality is not mentioned in the original description, but two other specimens labeled “cotype” are in the collection of the American Museum of Natural History. One of these is from Walters Station, California, April, while the other is labeled “Nevada.”

annellata Hulst, Marmopteryx
Type male, Havilah, California, 7694; type female, Washington Territory.

annettearia Haimbach, Haematopsis grataria
Cotype male, Cincinnati, Ohio, July 25, 1905 (Annette F. Braun).

annulata Hulst, Tephroclystis
Type female, without locality data “but probably from California.”

appellaria Pearsall, Chlorochlamys
1911, Canadian Ent., vol. 43, p. 206.
A male labeled “type” from Yuma County, Arizona, August 19. However, the other specimen from which this species was described is also labeled “type male” and is in the collection of the American Museum of Natural History. The specimen from the Pearsall collection is hereby designated as the lectotype.

argillaria Hulst, Metanema
1886, Ent. Amer., vol. 1, p. 204.
A male labeled “type” from California. This is a spurious type, as the type locality is Arizona and the specimen is in the Neumegen collection.

arizonaria Grote, Chloraspilates
Type male, Arizona.

arrogaria Hulst, Eurymene
1886, Ent. Amer., vol. 1, p. 208.
Type male, New York. This specimen was designated the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 186).

atrescens Hulst, Nacophora quernaria
1898, Canadian Ent., vol. 30, p. 162.
Type male, London, Ontario.

atrocicolorata Hulst, Azelina hubnerata
1886, Ent. Amer., vol. 1, p. 205.
Type female, Florida. This specimen was designated as the lectotype by Grossbeck (1910, Proc. U. S. Natl. Mus., vol. 38, p. 365). There is also a male present, from New Hampshire and labeled “type,” but it is spurious.

atrolinaria Hulst, Boarmia
Type female, Kentucky.

aulularia Grote, Lychinosia
Type male, Arizona.

auriferaria Hulst, Phrygionis
1887, Ent. Amer., vol. 2, p. 188.
A male labeled “type” from Indian River, Florida. However, this is a spurious type, as
the type is stated to be in the Holland collection.

**australis** Hulst, *Eois*
Type male, Florida. There is a slide of the male genitalia made by J. McDunnough that belongs to this type.

**baltearia** Hulst, *Rumia*
Type male, Minnesota.

**barnesi** Hulst, *Gonodontis*
Type male, Glenwood Springs, Colorado, October, 1892 (W. Barnes).

**behrensaria** Hulst, *Aspilates*
A male labeled “type” from Colorado. The lectotype was designated by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 179) as a specimen in the collection of the Illinois Natural History Survey. The present specimen may be considered a cotype.

**bifilata** Hulst, *Lozogramma*
A female labeled “type” from Colorado. The lectotype has been designated as a specimen in the United States National Museum (Rindge, 1949, Bull. Amer. Mus. Nat. Hist., vol. 94, p. 262). Accordingly, the present specimen may be considered a cotype.

**bivittata** Hulst, *Tephroclystis*
Type female, Mendocino, California, June 18, 1884. The genitalia have been mounted on a slide by J. McDunnough.

**bolteri** Hulst, *Tracheops*
Type male, Las Vegas, New Mexico.

**bolterii** Hulst, *Tephroclystis*
1900, Canadian Ent., vol. 32, p. 102.
Type female, Texas. The genitalia have been mounted on a slide by J. McDunnough.

**borealis** Hulst, *Deilinia*
Type male, edge of Calgary, Alberta, July 1, 1894. The genitalia have been mounted on slide No. 1549 by F. H. Rindge.

**borealis** Hulst, *Tephroclystis*
Type female, Winnipeg, Manitoba (Hingham). This last word was probably meant to be Hanham. The genitalia have been mounted on a slide by J. McDunnough.

**borealis** Hulst, *Xanthorhoe*
Type male, Alaska.

**bruceata** Hulst, *Cheimotobia*
There are two males and one female bearing Hulst's type label. All of them are from Brockport, New York (D. Bruce).

**brunneilinearia** Grossbeck, *Metanema*
Type male, Verdi, Nevada.

**brunneipennis** Hulst, *Nycterosea*
Type male, Alameda County, California (Riley).

**brunneolineata** Hulst, *Eugonobapta*

**caelaria** Hulst, *Angerona crocataria*
1886, Ent. Amer., vol. 1, p. 208.
A male labeled “type” from Colorado. Swett (1918, Lepidopterist, vol. 2, p. 42) restricts the type of this species to a specimen labeled “Long Island, New York,” that was in the collection of the Brooklyn Institute of Arts and Sciences, and he further states that the Colorado specimen is not conspecific with the one from Long Island.

**caesiaria** Hulst, *Semiothisa*
Type female, northern Illinois.
calcaria Pearsall, Apicrena

1911, Canadian Ent., vol. 43, p. 205.

A female labeled “type” from Colorado Desert, Yuma County, Arizona, April 12. However, the other specimen from which this species was described is also labeled “type female” and is in the collection of the American Museum of Natural History. The specimen from the Pearsall collection is hereby designated as the lectotype.

canavestita Pearsall, Philopsis


Cotype male, Doble, California, July.

carata Hulst, Aspilates

1887, Ent. Amer., vol. 2, p. 211.

Type male, Florida.

carosa Hulst, Pterotaea


Type female, California. According to the original description, the type locality is Soda Springs, California, August.

carlotta Hulst, Nacophora


Type male, Florida (Slosson).

carnearia Hulst, Tephrasia


A male labeled “type” from Sierra Nevada, California. However, the lectotype was designated as a Henry Edwards specimen in the collection of the American Museum of Natural History (Rindge, 1949, Bull. Amer. Mus. Nat. Hist., vol. 94, p. 276), so the present specimen may be considered a cotype.

cavillaria Hulst, Tetracis

1886, Ent. Amer., vol. 1, p. 203.

Type male, Arizona.

celataria Hulst, Tephrasia


cervinicolor Hulst, Deilinia behrensaria


cestata Hulst, Tephroclystis


Type female, California. The genitalia have been mounted on a slide by J. D. McDunnough.

cinctarius Hulst, Tornos rubiginosarius


Type female, Florida. The female genitalia have been mounted on slide No. 3572 by F. H. Rindge.

cinereola Hulst, Diasticis


Type female, Glenwood Springs, Colorado, August, 1892 (W. Barnes).

coenonymphata Hulst, Coenocalpe

1900, Canadian Ent., vol. 32, p. 104.

Type male, Yosemite, California.

coloradata Hulst, Erannis


Type male, Glenwood Springs, Colorado, October, 1892 (W. Barnes).

coloradensis Hulst, Sympherta


Type male, Colorado (Bruce).

coloradensis Hulst, Tephroclystis


Type male, Colorado. The genitalia have been mounted on a slide by J. McDunnough.

colorata Grote, Semiothisa

1883, Canadian Ent., vol. 15, p. 7.

Type male, Arizona.

cornata Grossbeck, Sciagraphia


Cotype female, Yavapai County, Arizona, May 22.

configurata Hulst, Seldosema


Type male, Colorado.
conformata Pearsall, Eupithecia  

Co
type female, without data but with “No. 5430.”

coniferaria Packard, Aplodes  

A female from Maine labeled “type.”

constans Hulst, Eugonobapta  
1898, Canadian Ent., vol. 30, p. 216.

Type male, Prescott, Arizona, August, 1896 (Kunze).

cootaria Hulst, Thamnonoma  

Type female, Texas. This specimen was designated as the lectotype by Barnes and McDunnough (1917, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 236).

correllatum Hulst, Selidosema  

Type male, Colorado.

costiguttata Hulst, Hydriomena  

Type male, California, No. 280. According to the original description, this is a Henry Edwards number. In the Henry Edwards catalogue under 280 is the following: “San Mateo County, California, April, collected in pastures by Henry Edwards.”

crassata Hulst, Diastictis  

Type female, with the locality data Hastings, Florida, June. According to the original description, the type locality is Colorado. However, the specimen with the type label agrees with the original description.

cretata Hulst, Tephroclystis  

Type male, Colorado (Bruce).

cristifera Hulst, Phaeoura  

Type male, Colorado (Bruce).

croceraria Hulst, Aspliates  
1887, Ent. Amer., vol. 2, p. 211.

Type female, without data. According to the original description, the type locality is Texas.

crossii Hulst, Eois  
1900, Canadian Ent., vol. 32, p. 105.

Type male, without locality data. According to the original description, the specimen was from Florida. There is a slide of the male genitalia by J. McDunnough that may belong to this specimen.

curvilinea Hulst, Hydriomena  

Type female, Vancouver Island, No. 5524.

danbyi Hulst, Jubarella  

Type male, Rossland, British Columbia, May 2 (Danby).

danbyi Hulst, Paraptera  

Type male, Victoria, British Columbia, December 5, 1893 (Danby). There are two females bearing type labels as follows: “Victoria, British Columbia, December 6, 1893 (Danby),” and “W.H.D.2.”

dataria Grote, Cymatophora (Boamira)  

Type male, Arizona.

dataria Hulst, Acidalia  

Type male, California.

decptata Hulst, Diastictis  

Type female, New York.

decoloraria Hulst, Endropia  
1886, Ent. Amer., vol. 1, p. 207.

A male labeled “type” from New York. According to the original description, the species was described from two males without data, the specimens being in the collections of Graef and Tepper.

decorata Hulst, Diastictis  

Type male, Platte Canyon, Colorado, June 23, 1891 (W. Barnes).
dejecta Hulst, Alcis
 Type male, Los Angeles County, California.

delecata Hulst, Semiothisa
 A female from Arizona is labeled "type." According to the original description, the species was described from a male from Colorado, so this Arizona specimen is spurious.

deleta Hulst, Cymatophora
 Type female, Webster, New Hampshire (Goodhue).

delicata Grossbeck, Coenocalpe
 Cotypes, male and female, Stockton, Utah, September 12.

delicata Hulst, Eois
 Type female, Las Cruces, New Mexico.

delictatum Hulst, Selidosema
1900, Canadian Ent., vol. 32, p. 106.
 Type male, California, 6-7 (Kemp). According to the original description, the type locality is Wilson's Peak, California, September 26.

denticulata Hulst, Phigalia
 Type male, Texas.

denticulodes Hulst, Diastictis
 Type male, Colorado. There is another male labeled "type" from New York, but it is spurious.

desperaria Hulst, Aspilates
 Type male, Arizona. The type genitalia have been mounted on slide No. 1559 by F. H. Rindge. A second male, also labeled "type," from Prescott, Arizona, is present.

desperata Hulst, Prorella
 Type male, Texas, October. The original description says Blanco County, Texas.

dissimilis Hulst, Phengommataea
 Type male, Glenwood Springs, Colorado, October 1-7.

dissociarius Hulst, Tornos
 Type male, California.

dissonaria Hulst, Alcis
 Type male, Colorado.

diva Hulst, Plataea
 Type female, Argus Mountains, April, 1891 (K.).

dryadata Hulst, Marmopteryx
 Type male, Colorado.

edorata Hulst, Agia
 Type male, Mitchell County, North Carolina, July, 1892 (P. Laurent).

ectrapelaria Grossbeck, Gonodontis
 Cotype male, Stockton, Utah, August 8, 1907 (Tom Spalding).

edenata Swett, Hydriomena
 "Type" female, Monterey County, California. According to Barnes and McDunnough (1917, Contributions to the natural history of the Lepidoptera of North America, vol. 4, p. 31), the type female is in the Museum of Comparative Zoology, so the present specimen must be a cotype.

edna Hulst, Tephroclystis
 Type male, Colorado (Bruce).

edwardsata Hulst, Tetracis
1886, Ent. Amer., vol. 1, p. 203.
 Type female, Soda Springs, Siskiyou County, California, July 21.

effascinaria Hulst, Drepanodes
1886, Ent. Amer., vol. 1, p. 205.
 Type female, South Carolina.
electa Hulst, Aethyctera
Type male, Siskiyou County, California. The male genitalia have been mounted on slide No. 1553 by F. H. Rindge.

elimaria Hulst, Acidalia
Type male, Florida. The male genitalia have been mounted on slide No. 1557 by F. H. Rindge. According to the original description, the type locality is Colorado, and the species was described from four males in the Hulst collection. There is another male labeled as *quadrifasciata* Packard, typical, from Colorado (Bruce).

ella Hulst, Charommataea
Type male, Blanco County, central Texas, November; type female, San Antonio, Texas (Rautenberg).

ella Hulst, Diastictis
Type female, Washington Territory. The female genitalia have been mounted on slide No. 1610 by F. H. Rindge.

ellatina Hulst, Charommataea ella
Type male, San Antonio, Texas (Rautenberg), bearing type label “ella” but agreeing with the original description of *ellatina*.

elongata Hulst, Coenocharis
Type female, Texas. Grossbeck (1912, Bull. Amer. Mus. Nat. Hist., vol. 31, p. 387) restricted this name to Texas specimen. There is also a male type present labeled “Arizona.”

elsinora Hulst, Orthofidonia
Type female, Elsinor, California, March 28, 1899 (Dietz).

ephelidaria Hulst, Heterolocha
1886, Ent. Amer., vol. 2, p. 120.
Type female, Colorado. According to the original description, the type locality is Nevada. There is a second female, from Nevada, labeled “type,” but this is not conspecific with the above.

eremiata Hulst, Eois
There is a male from Texas labeled “type.” However, according to the original description, the species was described from Arizona, and types are stated to be in the collections of Graef and Neumoegen. The present specimen is probably a spurious type.

escaria Grote, Tornos
Type female, Arizona.

ethela Hulst, Mesoleuca
Type male, Sierra Nevada, California.

eupetheciaria Grote, Tornos
Type female, Arizona.

evagaria Hulst, Cymatophora
1900, Canadian Ent., vol. 32, p. 106.
Type male, St. Cloud, Minnesota.

famulata Hulst, Lozogramma
Type male, Canada. According to the original description, the type locality is Hamilton, Canada (J. A. Moffat).

fascioferaria Hulst, Thamnonoma
Type female, Colorado (Bruce).

faustinaria Strecker, Sicya
1899, Lepidoptera Rhopalocera Heterocera, suppl. 2, p. 7.
A female from Latrobe, Pennsylvania, labeled as being one of the original types.

fautoria Hulst, Tephrosia
Type male, California, 1396. This is a Henry Edwards specimen, and the data for this number in his catalogue are Santa Clara County, California, June (Hy. Edwards).

fernaldaria Hulst, Boarmia
Type male, Kentucky. According to the original description, the type locality is Maine.

**floridensis** Holland, Hulst, 1892

Type female, June 6. According to the original description, the type locality is Colorado.


Type male, Florida.


Type male, Colorado.


Type male, without locality data.


Type male, Colorado (Bruce). The genitalia have been mounted on a slide by J. McDunnough.


Cotype male, Yavapai County, Arizona, May 31, and cotype female, same data, May 29.

**flavivenata** Hulst, Sciagraphia 1898, Canadian Ent., vol. 30, p. 163.

Type male, Quebec, Canada, May 18, 1892 (Hanham).


Type male, Florida.


Type male, Florida.


Type female, south Florida (Rautenberg).

**floridensis** Holland, Sphacelodes 1884, Papilio, vol. 4, p. 72.

A male labeled "type" from Indian River, Florida.


Type male, Colorado (Bruce).


Type male, Sabine, Texas.


Type female, Colorado (Bruce).


Type male, northern Illinois.


A female from Utah, labeled "type." However, the lectotype was designated by Barnes and McDunnough (1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 4, p. 33). The Utah female may be considered a cotype.


Type male, South Abington, Massachusetts, August 10, 1880 (J. E. Bates). There is also a second specimen bearing a *fumosa* type label from Amherst, Massachusetts, but this specimen is not mentioned in the original description.


Type male, Colorado.


Type male, Colton, California, February 26, 1888.


Type male, Summit, Sierra Nevada, California. This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 172).
fuscata Hulst, Synaxis
Type male, Glenwood Springs, Colorado, September 16-23.

galbanaria Hulst, Caberodes
1886, Ent. Amer., vol. 1, p. 204.
Type female, Arizona.

georgii Hulst, Plemyria
Two males, both labeled "type," one from Nevada County, California, September (Riley), the other "W.M." Barnes and McDunnough (1917, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 226) designated a lectotype from the Hulst material as a specimen from Nevada. However, no such specimen is present, and it is supposed that this was in error for Nevada County, California.

gertuda Hulst, Phengommataea
Type male, Cusack Ranch, Willow Creek, Colorado.

giganteus Grossbeck, Pero
Cotype female, Colorado.

gillettei Hulst, Eucymatoge
Type male, Colorado, 2693.

glacialis Hulst, Xanthorhoe
1898, Canadian Ent., vol. 30, p. 119.
A female labeled "type" from Alaska. However, according to the original description, the type is in the United States National Museum collection, so the present specimen is at best a cotype.

gracia Hulst, Mercisca
Type female, Colorado (Bruce). There is a second specimen labeled "type," a male from Glenwood Springs, Colorado, July, 1895 (W. Barnes). However, this locality is not mentioned in the original description.

graefiaria Hulst, Lozogramma
Type male, Arizona.

graeif Hulst, Acanthophora
Type male, Texas.

graeif Hulst, Eucymatoge
Type female, "M. H." (Graef). This is probably an abbreviation for Mt. Hood, which is the locality mentioned in the original description.

grandiosa Hulst, Hydriomena
A male bears a type label. However, the type is in the United States National Museum collection, No. 3927. The present specimen from the Hulst collection is probably the one mentioned in the discussion following the original description.

grandipennis Hulst, Ersephila
Type male, Colorado (Bruce); type female, same data. Also present is a female from Glenwood Springs, Colorado, April 20, 1895 (W. Barnes), that is labeled "type," but this specimen is not mentioned in the original description.

grandis Hulst, Eucymatoge
Type female, "W. T." (Cook). The original description gives the type locality as Washington.

graphidaria Hulst, Semiothisa
Type female, Texas. This specimen was designated as the lectotype by Barnes and McDunnough (1917, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 239).

grassata Hulst, Macaria
Type female, Florida. It should be noted that the type locality in the original description is Colorado, as mentioned by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 182).
hyalina Hulst, Pero
Cotype male, Eureka, Utah, May 12, 1901 (Tom Spalding), and cotype female, same data, May 13, 1910.

guttata Hulst, Alcis
Two males, both labeled “type,” one from western Pennsylvania, June 26, the other without data. It is possible that the latter specimen is the one from New York mentioned in the original description.

hanhami Hulst, Eois
1898, Canadian Ent., vol. 30, p. 158.
Two males, both labeled “type,” from Winnipeg, Manitoba. There is a slide of the male genitalia by J. McDunnough that may have been made from one of these specimens.

hebetata Hulst, Phasianae
1881, Bull. Brooklyn Ent. Soc., vol. 4, p. 34.
Type male, Colorado.

helena Hulst, Diastucis
Type female, Brooklyn, New York, September, 1892 (Miss Jackson).

helveolaria Hulst, Endropia
Type male, Colorado.

herbicola Hulst, Hydriomena
Two males, both labeled “type,” Havilah, California, Henry Edwards No. 7671.

hilliata Hulst, Eois
Type male, Rockledge, Florida, April, 1884 (W. W. Hill). There is a genitalic slide made by J. McDunnough that is labeled as having been made from this type.

hilumaria Hulst, Endropia
Type male, Colorado (Bruce).

hyalina Hulst, Eudule
Type male, Senator, Arizona, September 9, 1896.

hyperborea Hulst, Rachela
Type male, Alert Island, Alaska.

ida Hulst, Caripeta
Type female, Colorado (Bruce). The female genitalia have been mounted on slide No. 1608 by F. H. Rindge.

ilocata Hulst, Xanthorhoe
Type female, Alaska. This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 176). A second specimen from Alaska is also labeled “type,” but it is not conspecific.

illustraria Hulst, Geometra
1886, Ent. Amer., vol. 2, p. 121.
Type male, California.

implorata Hulst, Tephroclystis
Type female, Havilah, California. The genitalia have been mounted on a slide by J. McDunnough.

incongruaria Hulst, Metanema
Type female, Canada. According to the original description, the type locality is Hamilton, Canada.

inconspicua Hulst, Chloroclystis
Type female, California, No. 1380.

indefinata Grossbeck, Hydriomena
Type male, Soda Springs, Siskiyou County, California, May 25.

indistincta Hulst, Ersephila
1898, Canadian Ent., vol. 30, p. 119.
Type male, Washington Territory. There is a second male, labeled “type,” from Glenwood Springs, Colorado, April 8, 1893 (W. Barnes).
inferior Hulst, Gymnocelis
Type female, California.

inornata Hulst, Stergmataea
Type female, Colorado (Bruce).

inornata Hulst, Tephroclystis
Type female, Mitchell County, North Carolina, July, 1892.

inquinaria Hulst, Semiothisa
Type male, California.

insolabilis Hulst, Tephroclystis
Type female, Arizona. The genitalia have been mounted on a slide by J. McDunnough.

interruptaria Grote, Tornos
A female from Havilah, California, labeled "type." This is a spurious type.

inviolata Hulst, Stenaspilates
Type female, Phoenix, Arizona, May 30.

jaspidiaria Hulst, Eucrostis
Type male, Charlotte Harbor, Florida.

julia Hulst, Sympherta
Two males, both labeled "type"; one is labeled "W.M.," the other Easton, Washington (through C. V. Riley). In addition there is another male from Sudbury, Ontario, 1891 (J. D. Evans), which may be the specimen mentioned in the original description from this locality, although it does not bear a type label.

kempi Hulst, Plagodis
Type female, western Pennsylvania, July 26. According to the original description, the type locality is Beaver County, Pennsylvania.

kunzei Hulst, Neoterpes ephelidaria
Type male, Prescott, Arizona, July 28, 1896. Type female, Senator, Arizona, August 17, 1896 (Kunze). Also present are two females without locality data, labeled "type."

kunzei Hulst, Spodoptera
Two females, both labeled "type," one from Prescott, Arizona, August, 1896 (Kunze), female genitalia mounted on slide No. 1614 by F. H. Rindge, the other from Senator, Arizona, August 20, 1896 (Kunze), female genitalia mounted on slide No. 1616 by F. H. Rindge.

labeculata Hulst, Eois
Type male, Arizona.

lachrymosa Hulst, Tephroclystis
1900, Canadian Ent., vol. 32, p. 103.
Type male, Marion County, Oregon.

laeta Hulst, Therina
Type male, New Mexico. Male genitalia on slide No. 4, June 14, 1946, H. W. Capps.

laetula Hulst, Nyctiphanta
Type male, Arizona.

lalata Hulst, Alcis
Type male, San Francisco Mountains, Arizona, July 26, 1897, 8–10,000 feet. This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 184).

lanceolata Hulst, Eois
Three specimens, labeled "type," from Arizona and New Mexico. According to the original description, the type is from the Argus Mountains, California, and it is in the collection of the United States National Museum. The present three specimens must therefore be considered as spurious.
latipennis Hulst, Alcis
  Type male, Easton, Washington.

latipennis Hulst, Rachela
  Type male, California, No. 3519.

latipennis Hulst, Tephroclystis
  Type male, Quebec, Canada (Hanham), No. 956. This specimen was selected by Grossbeck (1907, Ent. News, vol. 18, p. 347) as the lectotype.

lentaria Hulst, Endropia
1886, Ent. Amer., vol. 1, p. 207.
  Type male, Florida.

leucata Hulst, Tephroclystis
  Type female, Montana.

lineata Hulst, Aethyctera
  Type male, Glenwood Springs, Colorado, August, 1895 (W. Barnes).

litaria Hulst, Aspilates
1887, Ent. Amer., vol. 2, p. 211.
  A male labeled "type" from Colorado (Bruce). The lectotype was designated by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 178) as a specimen in the United States National Museum.

longiciliata Hulst, Paleacrita
1898, Canadian Ent., vol. 30, p. 113.
  Type male, Palo Alto, California, May (W. Barnes).

longidens Hulst, Tephroclystis
  Type female, Colorado (Bruce).

longula Hulst, Xanthorhoe
1898, Canadian Ent., vol. 30, p. 119.
  A female labeled "type" from Alaska. According to the original description, the type is in the United States National Museum, so the present specimen is at best a cotype.

louisa Hulst, Synchlera
1898, Canadian Ent., vol. 30, p. 159.
  A female labeled "type" from Cocoanut Grove, Florida (E. A. Schwarz). Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 196) have restricted the type to the male specimen in the United States National Museum collection and have said that the female in the Hulst collection is not conspecific with the male.

lugubrosa Hulst, Therina
1900, Canadian Ent., vol. 32, p. 106.
  Type male, Rossland, British Columbia, September 11 (Danby). Male genitalia on slide No. 6, June 14, 1946, H. W. Capps. There is a second male with the same data, also labeled "type." The former specimen is hereby designated as the lectotype, so the second male becomes a lectoparatype.

luridula Hulst, Alcis
  Type female, Florida (Mrs. Slosson).

luteolata Hulst, Cidaria
  Type male, Colorado.

luteolata Hulst, Phylace
  Type male, Hot Springs, New Mexico, 7000 feet altitude.

maculifascia Hulst, Sciagraphia
  Type male, Dakota; type female, without data. According to the original description, the type locality is South Dakota.

maestosa Hulst, Tephroclystis
  Type female, Colorado (Bruce). The genitalia have been mounted on a slide by J. McDunnough.

magdalena Hulst, Melemaea
  Type male, Colorado (Bruce).
manubiaria Hulst, Endropia
1886, Ent. Amer., vol. 1, p. 207.
Type male, Colorado.

maricopa Hulst, Diastictis
Type female, Arizona.

marmoratus Grossbeck, Pero
Cotype female, New Jersey.

mellitaria Hulst, Tetracis
Type female, Summit, Sierra Nevada, California. This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 188).

mendicata Hulst, Semiothisa
Type female, Prescott, Arizona.

metanemaria Hulst, Semiothisa
1887, Ent. Amer., vol. 2, p. 188.
Type male, Arizona.

micropterata Hulst, Eois
Type male, Hastings, Florida, May. There is a slide made by J. McDunnough labeled Hastings, Florida, that may have been made from this type.

minima Hulst, Cabreraedes
Type male, Arizona. Male genitalia on slide No. 3, June 14, 1946, H. W. Capps.

minima Hulst, Nacophora
Type female, Colorado (Bruce).

minoraria Hulst, Endropia bilinearia
Type male, New Jersey.

minuta Hulst, Diastictis
A female from Texas, labeled "type." However, Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 183) restrict the type to a specimen in the Neumoegen collection.

minuta Hulst, Gymnocelis
Two males, both labeled "type," from the Argus Mountains, April, 1891 (K.).

minutaria Hulst, Acidalia
Type female, Florida.

miranda Hulst, Pentopoda
Type male, Texas. According to the original description, the specimen is from Blanco County.

misturata Hulst, Tephroclystis
Type male, California. The original description says Soda Springs, California, and Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 177) designated this the lectotype. The specimen mentioned in the original description from Hot Springs, New Mexico, 7000 feet altitude, September, is also present but is in very poor condition.

mollisaria Hulst, Endropia bilinearia
Type male, Colorado.

morbosa Hulst, Episemasia
Type male, Florida.

morensata Hulst, Nannia
Type female, Wisconsin.

morosata Hulst, Chesiadodes
Type male, Sierra Nevada, California.

morrisata Hulst, Marmopteryx
Type female, Prescott, Arizona.
morsicaria Hulst, Tetracis  
1886, Ent. Amer., vol. 1, p. 203.  
Type male, Texas.

mulleolata Hulst, Cidaria  
Type male, Washington Territory. According to the original description, the type locality was Colorado, but Barnes and McDunnough (1917, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 208; 1918, op. cit., vol. 4, p. 137) have reviewed this problem, and the present specimen is considered to be the type.

multilineata Hulst, Pigia  
1887, Ent. Amer., vol. 2, p. 188.  
Types, male and female, Arizona.

multiscrita Hulst, Tephroclystis  

multistrigata Hulst, Tephroclystis  
Type female, Glenwood Springs, Colorado, August, 1892. The genitalia have been mounted on a slide by J. McDunnough.

multivagata Hulst, Scotosia  
Type male, Colorado. In addition there is a female labeled “type” from northern Ontario, Canada. According to the original description, the type locality is Colorado, so this female is a spurious type.

muricolor Hulst, Selidosema  
Type male, Hazelton, Pennsylvania (Dietz). There is a second specimen labeled “type” with the same data, but it is very badly damaged.

muricolor Hulst, Stenaspilates  
Type male, San Antonio, Texas (Rautenberg).

nebulosa Hulst, Tephroclystis  
Lectotype female, New York (Bruce), designated by Barnes and McDunnough (1918, Contributions to the natural history of the Lepidoptera of North America, vol. 4, p. 144). Cotypes, two females, Texas, April.

nemorella Hulst, Xanthorhoe  
Type male, Aleutian Islands (Skinner). This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 176). A second specimen from Sauzalito, California, January, is also present.

neo-mexicana Hulst, Hydriomena  
Lectotype female, Las Cruces, New Mexico, 600 (Cockerell), designated by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 177). In addition, the following specimens bear type labels: one male, Blanco County, central Texas, September; two females, Texas, May; and one female without locality data.

nevadaria Hulst, Rhaphidodemas  
Type male, Colorado (Bruce).

nevadaria Hulst, Tephrosia  
Type male, Sierra Nevada, California, No. 3507. The male genitalia have been mounted on slide No. 1551 by F. H. Rindge.

nigrescens Hulst, Plagodis keutzingeri  
Type male, Brockport, New York (D. Bruce); type female, same data.

nigrescens Hulst, Philereme  
1890, Canadian Ent., vol. 32, p. 104.  
Type male, Marion County, Oregon.

nigrescens Hulst, Selidosema  
Type female, San Antonio, Texas (Rauten-
The female genitalia have been mounted on slide No. 1612 by F. H. Rindge.

**nigrodiscalis** Hulst, *Leptomeris*
1898, Canadian Ent., vol. 30, p. 158.
Type female (?), Maine.

**nimbicolor** Hulst, *Eois*
Type male, Florida, April.

**nimbicolor** Hulst, *Tephroclystis*
Type male, Calgary, Alberta, 1894. The genitalia have been mounted on a slide by J. McDunnough.

**nimbosa** Hulst, *Tephroclystis*
Type female, Arizona. The genitalia have been mounted on a slide by J. McDunnough.

**niveifascia** Hulst, *Tephroclystis*
Type female, Santa Fe, New Mexico, July (Cockerell), 3907.

**niveifasciata** Hulst, *Mesoleuca*
There is a female labeled "type" from Fordham, New York, April 26, 1885 (George Gade). However, the type is in the United States National Museum, and this locality is not mentioned in the original description, so the present specimen is probably spurious.

**nocitocolata** Hulst, *Cidaria*
Type male, Colorado.

**notataria** Hulst, *Tetracis trianguliferaria*
1886, Ent. Amer., vol. 1, p. 203.
Type female, Colorado.

**novellata** Hulst, *Metanema*
1886, Ent. Amer., vol. 1, p. 204.
A female labeled "type" from Prescott, Arizona, with female genitalia on slide No. 1, June 14, 1946, H. W. Capps. The holotype is in the collection of the United States National Museum, and this Prescott specimen may or may not have been one of the original types.

**oblentaria** Grote, *Tetracis*
1883, Canadian Ent., vol. 15, p. 126.
Type male, Arizona.

**obliqua** Hulst, *Aplodes*
Type male, Colorado (Bruce).

**obluridata** Hulst, *Acidalia*
Type female, Rockledge, Florida, April 16, 1884 (W. W. Hill).

**obscurata** Hulst, *Zenophileps*
Type male, Siskiyou County, California.

**obscurior** Hulst, *Tephroclystis*
Type male, Colorado (Bruce). The genitalia have been mounted on a slide by J. McDunnough.

**occantaria** Hulst, *Endropia*
1886, Ent. Amer., vol. 1, p. 207.
A female labeled "type" from Washington Territory. This is probably spurious, because the type locality is said to be Nevada with types being in the collections of Graef and Tepper.

**occidens** Hulst, *Hydriomena*
A female labeled "type" from Oregon (Koebele). The type is No. 3922 in the United States National Museum collection.

**occidentalis** Hulst, *Rachela*
Type male, Victor, British Columbia, December 6, 1893 (Danby). There are two females labeled "type" with the same data, but they are dated December 13, 1893.

**ocellaria** Grossbeck, *Gonodontis*
Cotype male, Minnehaha, Arizona, October 3.
ochreata Hulst, Eugonobapta
1898, Canadian Ent., vol. 30, p. 216.
Type male, Senator, Arizona, August 20, 1896 (Kunze).

ochreatus Hulst, Ennomos
Type female, Colorado.

octolineata Hulst, Semiothisa
A female from Arizona labeled "type." According to the original description, the type is a male and is in the Neumoegen collection.

odontata Hulst, Marmopteryx
Type female, Colorado. Another female labeled "type" is present from Nevada. However, this locality was not mentioned in the original description, so the present specimen must be regarded as spurious.

opacaria Hulst, Cidaria
Type female, Colorado.

ophiusus Rindge, Exelis
Paratypes, one male and two females, Texas, one of them dated May.

opuscularia Hulst, Aspilates
A male from Arizona labeled "type," with male genitalia mounted on slide No. 1561 by F. H. Rindge. However, this type is spurious because the original description states that the species was described from one male from California in the Holland collection.

ornata Hulst, Tephroclystis
Type female, Glenwood Springs, Colorado, August, 1892 (W. Barnes).

osculata Hulst, Enchoria
Type male, without data.

oxygramma Hulst, Coenocalpe
Type male, Havilah, California.

packardaria Hulst, Hemerophila
Type male, Havilah, California.

pallescens Hulst, Selidosema
Type female, California.

pallida Hulst, Eois
Type male, Texas. According to the original description, the specimen is from Blanco County.

pallida Hulst, Diastictis
Type without locality data. According to the original description, the specimen was from Colorado. It is now in rather battered condition, with the head and abdomen missing and wings glued on.

pallulata Hulst, Tetracis
1887, Ent. Amer., vol. 2, p. 211.
Type male, Crater Lake, Oregon, September 27, 1886, altitude 7100 feet, on bark of pine (J. C. Merrill).

parvularia Hulst, Eois
Two females, both labeled "type," from Texas.

peplarioides Hulst, Marmarea
A male labeled "type" from the San Francisco Mountains, Arizona, July 23, 1897, 8–10,000 feet altitude. However, McDunnough (1949, Amer. Mus. Novitates, no. 1393, p. 5) discussed this specimen and designated a lectotype in the collection of the American Museum of Natural History. Accordingly, the present specimen is a spurious type.

perangulata Hulst, Enypia
Types, two females from Colorado (Bruce).

perangulata Hulst, Selenia
Type female, Colorado (Bruce).
perfalcea Smith, Deilinia
1903, Check list, p. 73, no. 3915.
Types, two females, Soda Springs, Siskiyou County, California, April 30, May 16. This is apparently a Hulst manuscript name that Smith validated in his “Check list.”

perfusca Hulst, Tephroclystis
Two females, labeled “type,” from Easton, Washington. The specimen from Utah was designated lectotype by Taylor (1908, Canadian Ent., vol. 40, p. 58), so these two specimens may be considered cotypes.

pergracilis Hulst, Synelys
1900, Canadian Ent., vol. 32, p. 105.
Type male, without locality data. According to the original description, the type locality is south Florida.

perizomaria Hulst, Drepanodes
1886, Ent. Amer., vol. 1, p. 205.
Type female, Montana.

perolivata Hulst, Catopyrrha coloraria
Type male, without locality data. The male genitalia have been mounted on slide No. 1545 by F. H. Rindge. According to the original description, the type locality is Texas.

persimilis Hulst, Scopula
1898, Canadian Ent., vol. 30, p. 158.
Type male, Ontario.

perumbraria Hulst, Synglochis
Type female, San Bernardino County, California. A second female is present labeled “Colorado Desert.”

perolivata Hulst, Thamnonoma
Type male, Colorado.

pictipennata Hulst, Macaria
1898, Canadian Ent., vol. 30, p. 162.
Type female, Senator, Arizona.

placentenery Hulst, Ephyra
Type female, Blanco County, central Texas, November.

plumogararia Hulst, Boarmia?
A male labeled “type” from Glenwood Springs, Colorado, 4-5-1893 (W. Barnes). This is a spurious type, as the species was described from California.

polaris Hulst, Psychophora sabini
Type male, Polaris Bay.

polygrammata Hulst, Coenocalpe
Three specimens, all females and all labeled “type”: Colorado (Bruce); Argus Mountains, April, 1891 (K.); Salida, Colorado, May 31, 1888.

pulveraria Hulst, Deilinia
Two males, both labeled “type,” from Rossland, British Columbia, April 18 (Danby). These specimens have been designated lectoparatypes by Rindge (1949, Bull. Amer. Mus. Nat. Hist., vol. 94, p. 270).

punctata Hulst, Therina
Type male, Glenwood Springs, Colorado, October 1-7.

punctomaculata Hulst, Cleora
Type male, Vancouver Island.

purpurissata Grossbeck, Eupithecia
Type male, Monterey County, California.

quaesitata Hulst, Acidalia
Type male, Colorado.

rachelae Hulst, Apocheima
Type male, Colorado (Bruce).

radiosaria Hulst, Azelina
Type female, Arizona.
rectifascia Hulst, Diastictis  

A single female from Easton, Washington, labeled “type.” According to the original description, this species was described from a single female, which has been designated as type No. 3909 in the United States National Museum collection (Rindge, 1949, Bull. Amer. Mus. Nat. Hist., vol. 94, p. 247).

remorata Grossbeck, Gymnocelis  

Type male, Yuma County, Arizona, April 12; type female, same data, April 20; cotypes, one male, five females, same data, April 12, 13.

respersata Hulst, Macaria  

Type male, Colorado.

roseotincta Hulst, Leptomeris  

Type female, Florida, April.

rubrotincta Hulst, Slossonia  

A male labeled “type” from Los Angeles County, California, July. However, the type is in the United States National Museum collection, so the present specimen cannot be other than a cotype.

rufescens Hulst, Eois  

Type female, Austin, Texas.

saltusaria Hulst, Eucrostis  

Type female, Indian River, Florida.

scintillaria Hulst, Eois  

Type female, Florida.

semiatrata Hulst, Cidaria  

Type male, Washington Territory. According to the original description, the type locality should be Colorado, but McDunnough (1943, Canadian Ent., vol. 75, p. 211) has already commented on this matter and has accepted the present specimen as the type.

semipectinata Hulst, Monotaxis  
1898, Canadian Ent., vol. 30, p. 120.

Type female, Arizona.

sericeata Hulst, Diastictis  

Two females, both labeled “type,” one from Colorado Desert, the other from Senator, Arizona, September 9, 1896.

sex-punctata Bates, Semiothisa  
1886, Canadian Ent., vol. 18, p. 75.

Type female, Nevada. According to the original description, the type locality is Elko, Nevada, 10,000 feet.

sierrae Hulst, Tephroclystis  

Type female, Colorado (Bruce).

simplicaria Grote, Tetracis  

Type male, Arizona.

simulata Hulst, Semiothisa  
1887, Ent. Amer., vol. 2, p. 188.

A female from Arizona, labeled “type.” Barnes and McDunnough (191!6, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 182) restrict the type to a male in the Graef collection, so the present specimen is at best a cotype.

skinnerata Grossbeck, Euphenolia  

Type male, Carr Canyon, Huachuca Mountains, Cochise County, Arizona, August 1905 (H. Skinner).

smithii Grossbeck, Stenaspliistes  

Type female, Doble, California, August 1.

smithii Pearsall, Graefia  

Cotypes, six males, Walters Station, California, April. Also present is a cotype from Colorado Desert, Yuma County, Arizona, although this locality is not mentioned in the original description.

snoviaria Hulst, Heterolocha?  
Type male, New Mexico (F. H. Snow).

**Solamata** Hulst, *Deilinina*


Type male, Winnipeg, Manitoba, July 22, 1898 (A. W. Hanham). The male genitalia have been mounted on slide No. 1547 by F. H. Rindge.

**Somniaria** Hulst, *Ellopia*

1886, Ent. Amer., vol. 1, p. 208.

Type female, Washington Territory. Female genitalia on slide No. 5, June 14, 1946, H. W. Capps.

**Sparsimacula** Hulst, *Hydriomena*


Type female, California, 230.

**Speciosa** Hulst, *Diasticis*


Type female, Hot Springs, New Mexico, 7000 feet altitude.

**Speciosa** Hulst, *Neolexia*


Type male, Calgary, Alberta.

**Speciosa** Hulst, *Paleacrita*

1898, Canadian Ent., vol. 30, p. 113.

Type male, Glenwood Springs, Colorado, 4-3-1893 (W. Barnes).

**Spododia** Hulst, *Alcis*


Type male, without locality data. According to the original description, the type locality is Colorado.

**Spodopterata** Hulst, *Sciagraphia*

1898, Canadian Ent., vol. 30, p. 162.

Type female, Glenwood Springs, Colorado, August, 1892 (W. Barnes).

**Sponsata** Grote, *Marmopteryx*


A male from Colorado, labeled “type.” This, however, is very doubtful, as the type locality is given as Las Vegas, New Mexico, and the word “type” on Grote’s label was obviously written at a later date in a different type of ink.

**Stablata** Hulst, *Tephrocystis*


Type male, Colorado.

**Suavata** Hulst, *Eois*


A male labeled “type” from Palm Beach, Florida (Dyar). However, the type is No. 4964 in the collection of the United States National Museum, so the present specimen may be considered a cotype.

**Subacuta** Hulst, *Diasticis*


Type female, Colorado (Bruce). This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 180).

**Subalbaria** Hulst, *Diasticis*


Two males, both labeled “type,” from Colorado.

**Subcolorata** Hulst, *Tephrocystis*


Type male, San Francisco Mountains, Arizona, 8–10,000 feet altitude, July 20, 1897. This specimen was selected by Grossbeck (1907, Ent. News, vol. 18, p. 344) as the lectotype. The specimen from Arizona, August, is also present and it is a female.

**Subfalcata** Hulst, *Diasticis*


Type female, Platte Canyon, Colorado, June 23, 1891 (W. Barnes). This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 183). A second female, labeled “type,” from Glenwood Springs, Colorado, September, 1892 (W. Barnes), is also present, but it is not conspecific with the lectotype.

**Sublacteolata** Hulst, *Semiothisa*


Type male, Dayton, Ohio (Pilate).

**Subochrearia** Hulst, *Caberodes*

Tenebrosata Hulst, Eois

According to the original description, this species was described from one male in the collection of Graef. In the Hulst collection there are two males, both labeled "type," one from Colorado, the other from Salida, Colorado, 6-10-1888. Both these specimens are probably spurious types.

Subpunctata Hulst, Metanema

Type female, California.

Substriataria Hulst, Spodolepsis

Type female, New Hampshire (Mrs. Slosson).

Swetii Grossbeck, Eupithecia

Cotype male, Sharon, Massachusetts, May 1.

Syzygiaria Hulst, Drepanodes
1886, Ent. Amer., vol. 2, p. 121.

Type male, Florida, April 15, 1880.

Tabulata Hulst, Talledega

Type male, Alert Island. According to the original description, this is from Alaska; however, on the specimen there is a small label in pencil that says "Me."

Taylorata Hulst, Anthelia

Type male, without locality data. According to the original description, the type locality is Victoria, British Columbia.

Tenebrescens Hulst, Tephroclystis
1900, Canadian Ent., vol. 32, p. 103.

Type female, Texas, March 20.

Tenebrosata Hulst, Semiothisa

Type male, Arizona.

tenuata Hulst, Eupithecia

Type female, Colorado.

teperarata Hulst, Nemoria

A female, labeled "type," from Florida. The original description gives the type localities as Georgia and North Carolina, the specimens being in the collections of Edwards and Tepper. The present specimen is probably a spurious type.

texana Hulst, Synchloga

Type male, Austin, Texas.

texanaria Hulst, Tephrosia

Type male, without locality data. According to the original description, the type locality is Texas.

Umbriferata Hulst, Semiothisa

Type male, Soda Springs, Siskiyou County, California, July 10.

Umbripennis Hulst, Somatolophia

Type male, Colorado.

Unicolor Hulst, Tephroclystis

Type female, Soda Springs, Siskiyou County, California, September 1. This specimen was designated as the lectotype by McDunnough (1944, Canadian Ent., vol. 76, p. 53).

Unicoloraria Hulst, Rumia ochrearia
1886, Ent. Amer., vol. 1, p. 208.

Type male, Arizona.

Vancouverensis Hulst, Erannis defoliaria

Type male, Victoria, British Columbia, November 27, 1893 (Danby); type female, same data.

Vellivolata Hulst, Macaria
1881, Bull. Brooklyn Ent. Soc., vol. 4, p. 34.

A male, labeled "type," from Florida, 5-6-
1880. However, the species was described from a single female, which is in the Neumoegen collection.

**vestalis** Hulst, *Ripula*
Type male, south Florida (Mrs. Slosson).

**virginalis** Hulst, *Cymatophora*
Type male, Newark, New Jersey. The genitalia have been mounted on a slide by J. McDunnough.

**virginaria** Hulst, *Ripula*
Type male, Indian River, Florida, No. 7731.

**viridicaria** Hulst, *Aplodes*
Type male, Colorado.

**viridipallens** Hulst, *Synchloa*
Type male, Colorado. The male genitalia have been mounted on slide No. 1563 by F. H. Rindge.

**viridipennis** Hulst, *Eucrostis*
Type female, Colorado (Bruce).

**viridipurpurea** Hulst, *Synchloa*
1898, Canadian Ent., vol. 30, p. 159.
Type female, Charlotte Harbor, Florida.

**volucraria** Hulst, *Xanthorhoe*
Type male, Colorado.

**volucrata** Hulst, *Acidalia*
Type male, Missouri.

**wrightiaria** Hulst, *Boarmia*
Type male, southern California. According to the original description, the type locality is San Bernardino, California. This specimen was designated as the lectotype by Grossbeck (1909, Canadian Ent., vol. 4, p. 194). Also present is a female labeled “type,” but the original description calls for four males, so this female is to be considered as spurious.

**xylina** Hulst, *Neolexia*
Type male, New York. This specimen was designated as lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 175).

**xysteraria** Hulst, *Racheospilina*
1886, Ent. Amer., vol. 2, p. 121.
Type female, without locality data. According to the original description, the locality is Florida.

**zygotaria** Hulst, *Aplodes*
1886, Ent. Amer., vol. 2, p. 121.
Type female, Texas.

**EPIPLEMIDAE**

**slossoniae** Hulst, *Philagraula*
Type male, Florida (Mrs. Slosson).

**LIMACODIDAE**

**oropeso** Barnes, *Limacodes*
Cotypes, three males and one female, Yuma County, Arizona, August 19, 22.

**ZYGAENIDAE**

**yampai** Barnes, *Triprocris*
A female, labeled “type,” from the Baboquivara Mountains, Pima County, Arizona, July 16–23. The type female is illustrated in Barnes and McDunnough (1912, Contributions to the natural history of the Lepidoptera of North America, vol. 1, no. 4, p. 55, pl. 26, fig. 16), so the above specimen should be considered a cotype.

**PYRALIDAE**

**actualis** Hulst, *Nepopteryx*
Type male, Colorado. Male genitalia mounted on slide No. 4143, June 13, 1946, C. Heinrich.

**adelalis** Kearfott, *Symphysa*
Cotype female, Anglesea, New Jersey, August 5, 1902 (W. D. Kearfott), K. 253.

*albulatalia* Grote, Toripalpus
1887, Ent. Amer., vol. 3, p. 129.
Type male, southern California, June.

*aeneela* Hulst, *Pyra*
1895, Canadian Ent., vol. 27, p. 56.
Type female, Colorado (Bruce). Female genitalia mounted on slide No. 3183, June 13, 1946, C. Heinrich.

*afflicella* Hulst, *Salebria*
Type male, Montclair, New Jersey, August 9, 1899 (W. D. Kearfott). Male genitalia mounted on slide No. 3154, June 13, 1946, C. Heinrich. Type female, Elizabeth, New Jersey, August 7. Female genitalia mounted on slide No. 3155, June 13, 1946, C. Heinrich.

*alatella* Hulst, *Acrobasis*
Type male, Napa County, California. Male genitalia mounted on slide No. 3129, June 13, 1946, C. Heinrich.

*albipenella* Hulst, *Pempelia*
1887, Ent. Amer., vol. 3, p. 133.
Type male, southern California.

*albocapitella* Hulst, *Acrobasis*
Type male, Canada.

*albocostalialis* Hulst, *Ephestia*
Type male, No. 5929, California.

*albocostella* Hulst, *Maricopa*
1900, Canadian Ent., vol. 32, p. 176.
Two males, labeled "type," from Anglesea, New Jersey, August 21. One of these has the male genitalia mounted on slide No. 3219, June 14, 1946, C. Heinrich.

*albovittella* Hulst, *Pinipestis*
Type male, Colorado (Bruce). Male genitalia mounted on slide No. 3144, June 13, 1946, C. Heinrich.

*aliculella* Hulst, *Myelois*
Types, two males, Arizona, June. One of these has the male genitalia mounted on slide No. 3162, June 13, 1946, C. Heinrich. Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 197) restricted the type of this species to these specimens, so the lectotype subsequently designated by Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 419) is invalid.

*alitellas* Hulst, *Glyrophides*
A female without locality data is labeled "type."

*amatella* Hulst, *Nephopteryx*
Type male, Florida. According to the original description, this species was described from a female.

*anniculialis* Hulst, *Asopia*
Type male, Colorado.

*aoplasterella* Hulst, *Tioga*
1888, Ent. Amer., vol. 4, p. 113.
Type female, Colorado (Bruce).

*ardiferella* Hulst, *Altoona*
1888, Ent. Amer., vol. 4, p. 118.
A female labeled "type" from Colorado, July. Female genitalia mounted on slide No. 3229, June 14, 1946, C. Heinrich. This specimen is a doubtful type, and its status was discussed by Barnes and McDunnough (1917, Contributions to the natural history of the Lepidoptera of North America, vol. 4, p. 176).

*argentoneurvella* Hulst, *Eufernaldia*
Type male, Santa Rita Mountains, Arizona, June 13, 1898 (E. A. Schwarz).

*arizonella* Hulst, *Heterographis*
A male labeled "type," Catalina Springs, Arizona, April 12, 1898 (E. A. Schwarz). Male genitalia mounted on slide No. 3204, June 14, 1946, C. Heinrich. The type is listed
in the original description as being in the United States National Museum.

_atriella_ Hulst, _Megasis_


Type male, Colorado. Male genitalia mounted on slide No. 3185, June 13, 1946, C. Heinrich. Type female, Colorado (Cockerell). Female genitalia mounted on slide No. 3186, June 13, 1946, C. Heinrich.

_atrifascialis_ Hulst, _Tetralopha_


A male, labeled “type” from Blanco County, central Texas. Male genitalia mounted on slide No. 3177, June 13, 1946, C. Heinrich.

_aureolalis_ Hulst, _Eurycreon_


A female from Arizona labeled “type.” According to the original description, this species was described from a single male from Arizona, and this specimen is in the collection of the American Museum of Natural History.

_australella_ Hulst, _Selagia_


Type female, Blanco County, central Texas. Female genitalia mounted on slide No. 3177, June 13, 1946, C. Heinrich.

_australis_ Hulst, _Hydrocampa_


Type male, Florida, May.

_baccatalis_ Hulst, _Loxostege_

1892, Canadian Ent., vol. 24, p. 63.

Type male, Blanco County, central Texas, October. There is a second male labeled “type” from the same locality but dated September, which lacks both secondaries and the abdomen.

_baptisiella_ Fernald, _Tetralopha_


Type male, 235-N., 5-8-82. According to the original description, this species was described from two males and two females from Missouri and New York, raised by Miss Murtfeldt.

*bethrensellus* Fernald, _Crambus_


Type male, California, September 17. Beneath the type label is the following notation by A. B. Klots, April, 1937: “probably the type of _biotanatalis_ Hulst, but may be as labeled.” Later Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 419) states that the unique type of _biotanatalis_ is in the collection of the American Museum of Natural History.

_bella_ Hulst, _Zophodia_

1892, Canadian Ent., vol. 24, p. 61.

Type female, Massachusetts. Female genitalia mounted on slide No. 3196, June 13, 1946, C. Heinrich.

_bellulalis_ Hulst, _Botis_


Type male, Texas, May.

_betulella_ Hulst, _Acrobasis_


Two females, both labeled “type,” from New York, July. One of the specimens has the female genitalia mounted on slide No. 3135, June 13, 1946, C. Heinrich.

_bicolorrella_ Hulst, _Atascosa_


Type male, Blanco County, central Texas, August. Male genitalia mounted on slide No. 3222, June 14, 1946, C. Heinrich.

_bifasciella_ Hulst, _Nephopteryx_


Type male, No. 7818, Arizona. Male genitalia mounted on slide No. 3163, June 13, 1946, C. Heinrich.

_bistriatella_ Hulst, _Cayuga_


Type male, Colorado. Male genitalia mounted on slide No. 3224, June 14, 1946, C. Heinrich. According to the original description, the type locality is San Bernardino, California.

_bistriatella_ Hulst, _Dioryctria_


The specimen bearing the type label is a male from Iowa, June 6, 1886 (H. S. Saunders). Below the type label is a note by Mc-
Dunnough saying "this is probably the true type of *leucophaeella* Hulst," to which Heinrich has added "No."

**bistriatella** Hulst, *Pyla*  
1895, Canadian Ent., vol. 27, p. 54.  
Type male, Yosemite, California. Male genitalia mounted on slide No. 3179, June 13, 1946, C. Heinrich.

**bolterellus** Fernald, *Crambus*  
Type male, Texas.

**bonifatella** Hulst, *Spermatophthora (?)*  
Type male, Colorado.

**bonusculalis** Hulst, *Crambus*  
Type male, Waverley, Massachusetts. According to the original description, this species was described from two females.

**brucei** Hulst, *Dioryctria*  
1895, Canadian Ent., vol. 27, p. 55.  
Three males labeled "type," from Colorado (Bruce). One has the male genitalia mounted on slide No. 3147, June 13, 1946, C. Heinrich.

**bububattalis** Hulst, *Botis*  
Type female, Colorado (Bruce).

**cacabella** Hulst, *Pinipestis*  
1887, Ent. Amer., vol. 3, p. 133.  
Type male, without locality data. Male genitalia mounted on slide No. 3172, June 13, 1946, C. Heinrich. According to the original description, the type locality is New York.

**caliginella** Hulst, *Nephoteryx*  
The Hulst type label is on a female from California. According to the original description, the type was from Arizona, and McDunnough has labeled this specimen as the true type of *caliginella*. The female genitalia have been mounted on slide No. 3139, June 13, 1946, C. Heinrich.

**callipeplella** Hulst, *Tetralopha*  
1888, Ent. Amer., vol. 4, p. 114.  
A male, labeled "type," from Yuma County, Arizona, May. According to the original description, this species was described from Texas. In the series under this name in the collection are four specimens from Blanco County, central Texas, plus another specimen labeled "New Hampshire" that may or may not be conspecific.

**candidella** Hulst, *Homoeosoma*  
1888, Ent. Amer., vol. 4, p. 118.  
Type male, No. 7821, Arizona.

**canescentella** Hulst, *Meroptera*  
Type male, Texas.

**carbonella** Hulst, *Daspygya*  
1888, Ent. Amer., vol. 4, p. 117.  
Type female, March. Female genitalia mounted on slide No. 3176, June 13, 1946, C. Heinrich. According to the original description, the type locality is Texas.

**carneella** Hulst, *Nephoteryx*  
Type male, without locality data. Male genitalia mounted on slide No. 3166, June 13, 1946, C. Heinrich.

**castanealis** Hulst, *Orobenia*  
Type female, Texas.

**celtidella** Hulst, *Salebria*  
Type male, New York.

**cestalis** Hulst, *Anerastia*  
Type male, Colorado Desert. According to the original description, this species was described from one female from Colorado.

**cinereella** Hulst, *Sarata*  
1900, Canadian Ent., vol. 32, p. 172.  
Type male, Salida, Colorado, 4-5-88. Male genitalia mounted on slide No. 3191, June 13, 1946, C. Heinrich.

**cirroferella** Hulst, *Acrobasis*  
1892, Canadian Ent., vol. 24, p. 60.  
Type male, Austin, central Texas.
coeligenalis Hulst, Megastes
Type male, Indian River, Florida.

coloradella Hulst, Eurythmia
1900, Canadian Ent., vol. 32, p. 175.
Type male, Colorado (Bruce). Male genitalia mounted on slide No. 3213, June 14, 1946, C. Heinrich.

coloradellus Fernald, Crambus
1893, Canadian Ent., vol. 25, p. 95.
Type male, Colorado.

comacornella Hulst, Acrocaula
Type male, Blanco County, central Texas. Male genitalia mounted on slide No. 3132, June 13, 1946, C. Heinrich.

comptoniella Hulst, Acrobasis
Two females, both labeled "type," from Long Island, June. One of these has the female genitalia mounted on slide No. 3134, June 13, 1946, C. Heinrich.

confusalis Hulst, Botis
Type male, Texas, No. 5566.

confusalis Hulst, Desmia
Type male, Indian River, Florida.

constantella Hulst, Passadena
1900, Canadian Ent., vol. 32, p. 171.
A male, labeled "type," from the Argus Mountains, April, 1891 (K.), through C. V. Riley. Male genitalia mounted on slide No. 3169, June 13, 1946, C. Heinrich. According to the original description, the type is in the United States National Museum.

croceella Hulst, Sciota
1888, Ent. Amer., vol. 4, p. 115.
Type male, Blanco County, central Texas. Male genitalia mounted on slide No. 3150, June 13, 1946, C. Heinrich.

culiculalis Hulst, Asopia
Type female, Florida. Also present are two females from Texas, July, August, that are labeled "type." Someone has crossed out the word "type" on the label of these two specimens.

cuneolalis Hulst, Crambus
Type male, without locality data. According to the original description, the type locality is Texas.

cupidinella Hulst, Bandera
1888, Ent. Amer., vol. 4, p. 118.
Two males, labeled "type," from Hot Springs, New Mexico, 7000 feet altitude, August, September. The former has the male genitalia mounted on slide No. 3226, June 14, 1946, C. Heinrich. Colorado is given as the type locality in the original description.

cypridalis Hulst, Crambus
Type male, Utah.

decimerella Hulst, Lipographis
1888, Ent. Amer., vol. 4, p. 117.
Type female, Blanco County, central Texas, July. Female genitalia mounted on slide No. 3164, June 13, 1946, C. Heinrich.

decorella Hulst, Paralipsa
1892, Canadian Ent., vol. 24, p. 63.
Type male, Buffalo, New York.

delassalis Hulst, Nephopteryx
Type female, No. 3016, Nevada. Female genitalia mounted on slide No. 3171, June 13, 1946, C. Heinrich. There is a second specimen labeled "type" from Hot Springs, New Mexico, 7000 feet altitude, August, but this is a spurious type as the species was described from the single Nevada specimen.

delectella Hulst, Salebrinia
1895, Canadian Ent., vol. 27, p. 57.
Type female, Colorado (Bruce). Female genitalia mounted on slide No. 3156, June 13, 1946, C. Heinrich.

dentilineella Hulst, Jocara (Toripalpus)
A female, labeled "type," from Catalina Springs, Arizona, April 4, 1898 (E. A. Schwarz). According to the original description, the type is in the United States National Museum, so the present specimen may be considered a cotyotype.

differentialis Fernald, Diatraea
1888, Ent. Amer., vol. 4, p. 120.


dotalis Hulst, Anerastia

Three males, labeled "type," from Phoenix, Arizona, June. One of these specimens has the male genitalia mounted on slide No. 3216, June 14, 1946, C. Heinrich. According to the original description, this species was described from one female from Arizona.

dryadella Hulst, Ocala
1892, Canadian Ent., vol. 24, p. 61.

Type male, Charlotte Harbor, Florida, March. Male genitalia mounted on slide No. 3208, June 14, 1946, C. Heinrich.

dulciella Hulst, Myelois
1900, Canadian Ent., vol. 32, p. 176.


edentella Hulst, Dannemora

Type male, Florida, April. Male genitalia mounted on slide No. 3209, June 14, 1946, C. Heinrich.

edwardsialis Hulst, Megaphycis


electalis Hulst, Aglossa

A male, labeled "type," from Arizona, No. 7811. Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 420) has designated the male in the collection of the American Museum of Natural History as the lectotype, so the present specimen becomes a lectoparatype.

electella Hulst, Anerastia
1887, Ent. Amer., vol. 3, p. 137.

Three males, labeled "type," Blanco County, central Texas, April, June. The specimen labeled "April" has the male genitalia mounted on slide No. 3211, June 14, 1946, C. Heinrich.

elegantella Hulst, Myelois

Type male, Seattle, Washington.

ella Hulst, Ephesia

Type male, Florida. Male genitalia mounted on slide No. 3225, June 14, 1946, C. Heinrich.

entheais Hulst, Tetralopha

Type female, Kentucky.

euphemella Hulst, Katona
1888, Ent. Amer., vol. 4, p. 113.

Type female, Blanco County, central Texas, May.

excantalis Hulst, Anerastia

Type female, No. 2953, California. Female genitalia mounted on slide No. 3184, June 13, 1946, C. Heinrich.

extorralis Hulst, Crambus

Type male, Florida, April. There is a second male labeled "type" from Texas, August, but this specimen is not mentioned in the original description, so it should be considered spurious.

fasciella Fernald, Scirpophaga

Type male, Florida.
fasciolalis Hulst, Pinipestis


Type male, Spencers Bridge, British Columbia. Male genitalia mounted on slide No. 3149, June 13, 1946, C. Heinrich. According to the original description, the type locality was Nevada.

fariella Hulst, Tacoma

1888, Ent. Amer., vol. 4, p. 115.

Two males, both labeled "type," from Blanco County, central Texas, one of the specimens dated May.

fernaldialis Hulst, Megaphycis


Type female, Arizona. Female genitalia mounted on slide No. 3194, June 13, 1946, C. Heinrich.

festalis Hulst, Botis


Type female, Arizona.

filoella Hulst, Nephopteryx

1888, Ent. Amer., vol. 4, p. 117.

Type male, March. According to the original description, the type locality is Texas.

flavicostella Fernald, Scirpophaga


Type male, Florida.

floridalis Hulst, Stenurges


Three females, labeled "type," one labeled "Florida, April," one from Indian River, Florida, the other without locality data. According to the original description, this species was described from one male from Indian River, Florida.

floridella Hulst, Benta


A specimen labeled "cotype from Palm Beach, Florida, collection Dr. H. G. Dyar, No. 15718." This specimen lacks the abdomen and the secondaries.

floridellus Hulst, Elasmopalpus


Type male, Florida, April. Male genitalia mounted on slide No. 3175, June 13, 1946, C. Heinrich. According to the original description, the species was taken at Charlotte Harbor, Florida.

floscella Hulst, Atascosa


Type male, Blanco County, central Texas.

formosella Hulst, Tetralopha

1900, Canadian Ent., vol. 32, p. 169.

A female, labeled "type," and "5120, July 27, 1891." There is a short word or abbreviation after "5120," but it is illegible. According to the original description, the type is in the United States National Museum, so the present specimen may be considered a cotype.

fosterella Hulst, Pima

1888, Ent. Amer., vol. 4, p. 114.

Type female, No. 43. Female genitalia mounted on slide No. 3182, June 13, 1946, C. Heinrich. According to the original description, the type locality is Colorado.

franconiella Hulst, Euzophera


Type male, Franconia, New Hampshire (Mrs. Slosson). Male genitalia mounted on slide No. 3197, June 13, 1946, C. Heinrich.

fructetella Hulst, Myeloid


Two females, both labeled "type," from Blanco County, central Texas, June. One of these has the female genitalia mounted on slide No. 3137, June 13, 1946, C. Heinrich.

fuliginosalis Fernald, Lipoecosma

1888, Ent. Amer., vol. 4, p. 37.

A female without locality data labeled "type."

fumoferalis Hulst, Botis


A male labeled "type" from California. Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 420) designated the lectotype as a male from Siskiyou County, California, in the collection of the American Museum of Natural History, so the present specimen may be a lectoparatype. However, according to the original description, this species was de-
scribed from three males and one female from both California and Arizona. Klots (*loc. cit.*) lists two males and one female as being from the type series in the collection of the American Museum of Natural History, and these three specimens are all from California. The example from the Hulst collection is the fourth specimen, and none of these is from Arizona.

*fusosella* Hulst, *Honora*  
Type female, Newark, New Jersey, July 23. Female genitalia mounted on slide No. 3207, June 14, 1946, C. Heinrich.

*furfurella* Hulst, *Nephoteryx*  
Type male, Florida.

*fuscatella* Hulst, *Honora*  
1888, Ent. Amer., vol. 4, p. 118.  
Type male, Blanco County, central Texas, May.

*gaudiella* Hulst, *Statina*  
Type male, Blanco County, central Texas, September.

*gausapalis* Hulst, *Crambus*  
Type male, Sierra Nevada, California, No. 5924.

*gemmatella* Hulst, *Spermatopthora*  
Type male, Illinois. Male genitalia mounted on slide No. 3223, June 14, 1946, C. Heinrich.

*georgiella* Hulst, *Salebria*  
1895, Canadian Ent., vol. 27, p. 57.  

*gilvibasella* Hulst, *Nephoteryx*  
Type female, Blanco County, central Texas. Female genitalia mounted on slide No. 3151, June 13, 1946, C. Heinrich.

*glaucatella* Hulst, *Honora*  
1888, Ent. Amer., vol. 4, p. 117.  
Type male, Blanco County, central Texas.

*gleditschiella* Fernald, *Pempelia*  
Type male, No. 7827, New York, No. 179, pupa found on ground, In. June 1, 1880.

*graciella* Hulst, *Spermatopthora*  
Type female, Blanco County, central Texas, July. Female genitalia mounted on slide No. 3195, June 13, 1946, C. Heinrich.

*gracilalis* Hulst, *Botis*  
Type female, Texas.

*gracilella* Hulst, *Canarsia*  
Two males, both labeled "type," Montclair, New Jersey, July 10, 1899, August 13, 1899 (W. D. Kearlott).

*grapis* Hulst, *Aglossa*  
Type female, Colorado.

*gulosalis* Hulst, *Botis*  
Type male, New York.

*gulosella* Hulst, *Acrobasis*  
Type female, Hot Springs, New Mexico, 7000 feet altitude, August. Female genitalia mounted on slide No. 3192, June 13, 1946, C. Heinrich.

*gyralis* Hulst, *Botis*  
Type male, Colorado. According to the original description, this species was described from three males and one female from New York, Colorado, and Nova Scotia. In addition to the specimen with the type label there are a female from New York and a male from Nova Scotia. Whether or not these two specimens were the ones mentioned in the original description is not known.
gyralis Hulst, Hydrocampa

A male from Florida labeled "type." Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 420) has designated the male from Georgia in the collection of the American Museum of Natural History as the lectotype, so the present specimen becomes a lectotype.

haedulalis Hulst, Botis

Type female, Texas.

hapsella Hulst, Nephopteryx

Type female, Florida. Female genitalia mounted on slide No. 3174, June 13, 1946, C. Heinrich.

hariolalis Hulst, Botis

Type male, Florida.

hebescella Hulst, Acrobasis

Type female, on oak, Jersey Pines, June 23. Female genitalia mounted on slide No. 3136, June 13, 1946, C. Heinrich.

hulstii Cockerell, Laetilia coccidivora

Type male, Las Cruces, New Mexico (Cockerell). Male genitalia mounted on slide No. 3201, June 14, 1946, C. Heinrich. This specimen was labeled "type" by Heinrich, 1946.

hystriculella Hulst, Acrobasis

Type female, Texas. Female genitalia mounted on slide No. 3131, June 13, 1946, C. Heinrich.

illibella Hulst, Anerastia

Type female, Blanco County, central Texas, November. Female genitalia mounted on slide No. 3227, June 14, 1946, C. Heinrich.

immundella Hulst, Myelois

Type male, Texas.

impressalis Hulst, Homeosoma

Two males, labeled "type," from Colorado. One of these has the male genitalia mounted on slide No. 3210, June 14, 1946, C. Heinrich. In the original description, the type locality was given as Nevada.

incanella Hulst, Epischnia
1895, Canadian Ent., vol. 27, p. 56.

A male, labeled "type," from Colorado (Gillette). According to the original description, this species was described from two females collected by Bruce in Colorado.

incongruella Hulst, Urula
1900, Canadian Ent., vol. 32, p. 175.

A male and a female labeled "type" from Phoenix, Arizona, June 4, 15. The female has the genitalia mounted on slide No. 3218, June 14, 1946, C. Heinrich. The type is stated to be in the United States National Museum, so the present specimens are probably co-types.

incoruscella Hulst, Pyla
1895, Canadian Ent., vol. 27, p. 56.

Type male, Colorado (Bruce). Male genitalia mounted on slide No. 3180, June 13, 1946, C. Heinrich.

incurstalis Hulst, Toripalpus
1887, Ent. Amer., vol. 3, p. 130.

Type male, without locality data. According to the original description, the type locality was Colorado.

indentalis Grote, Prorasea

A female labeled "type" from Montana. According to the original description, the type locality is Washington Territory, and the type is stated to be in the Grote collection.

inornatalis Fernald, Botis
1885, Canadian Ent., vol. 17, p. 57.

A female from Texas labeled "type." Ac-
cording to the original description, this species was collected in Florida and sent to Fernald by Hulst.

inornatellum Hulst, Euzophera
1900, Canadian Ent., vol. 32, p. 173.

Type female, Anglesea, New Jersey, May 28. Female genitalia mounted on slide No. 3200, June 13, 1946, C. Heinrich.

invictalis Hulst, Botis

Type male, British Columbia. According to the original description, this species was described from a single male from Washington Territory.

junctolineella Hulst, Melitara
1900, Canadian Ent., vol. 32, p. 173.

Type male, Texas. Male genitalia mounted on slide No. 3193, June 13, 1946, C. Heinrich. This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 199). There is also a female present from Colorado (Bruce) that is labeled "type," which may be the specimen mentioned in the original description from that locality.

labeculalis Hulst, Botis

Type female, Arizona.

lacteella Hulst, Salebría
1900, Canadian Ent., vol. 32, p. 171.

Type female, Blanco County, central Texas, September. Female genitalia mounted on slide No. 3160, June 13, 1946, C. Heinrich.

lallatalis Hulst, Nephopteryx

Type female, Nevada. Female genitalia mounted on slide No. 3146, June 13, 1946, C. Heinrich.

lepidalis Hulst, Prorasea

A male labeled "type" from Huntley, M. T., May 18, 1886 (J. C. M. coll.). This may be the specimen mentioned in the original description from Montana. The lectotype was designated by Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 420), so the present specimen becomes a lectoparatype.

leucophaeella Hulst, Myelois
1892, Canadian Ent., vol. 24, p. 60.

The specimen bearing Hulst's type label is merely labeled "Gillette." Below this is a note by McDunnough saying "spurious type," but Heinrich has added "no." The female genitalia have been mounted on slide No. 3128, June 13, 1946, C. Heinrich.

levalis Hulst, Botis

Type male, Florida.

levigatella Hulst, Salebría
1892, Canadian Ent., vol. 24, p. 61.

Type female, without locality data. Female genitalia mounted on slide No. 3153, June 13, 1946, C. Heinrich. According to the original description, the type localities were Amherst, Massachusetts, and Wisconsin.

longipennella Hulst, Zophodia
1888, Ent. Amer., vol. 4, p. 118.

Type male, Blanco County, central Texas, June.

lulualis Hulst, Botis

A male labeled "type" from Anticosti Island, No. 5242. Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 420) has designated the lectotype as the male from California, so the present specimen becomes a lectoparatype.

luniferella Hulst, Oneida
1895, Canadian Ent., vol. 27, p. 53.

Types, three males and one female, Colorado (Bruce). One of these males is without locality data, and another male does not have the collector's name on it.

lunulalis Hulst, Toripalpus
1887, Ent. Amer., vol. 3, p. 130.

Type female, Canada. Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 192) have discussed the discrepancy in the locality as given on the specimen and in the original description.
Further, they designated this female specimen as the lectotype.


A male labeled "type" with the locality data 343 M. 9/7-92. According to the original description, this species was described from 10 specimens from Texas and Missouri.


Type male, Texas, October.


A male labeled "type" from Arizona. Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 420) has designated the lectotype from a specimen in the collection of the American Museum of Natural History, so the present specimen becomes a lectoparatype.


Type male, Salida, Colorado, 6-10-88 (W. S. Foster).


Type male, Florida, April.

**metallicella** Hulst, *Pyla* 1895, Canadian Ent., vol. 27, p. 54.

Type male, Colorado (Bruce). Male genitalia mounted on slide No. 3178, June 13, 1946, C. Heinrich.


Type male, Yavapai County, Arizona, May 21; cotype male, same data, May 30.


Type male, Blanco County, central Texas. Female genitalia mounted on slide No. 3127, June 13, 1946, C. Heinrich.


Type male, Newton Highlnds, Massachussetts (W. Barnes).


Type female, No. 6241, Sierra Nevada, California. Female genitalia mounted on slide No. 3206, June 14, 1946, C. Heinrich.


A female labeled "type" from Napa County, California. According to the original description, the type locality is the Sierra Nevada Mountains, California.


Type female, Florida.


Type male, California.


Type male, Hot Springs, New Mexico, 7000 feet altitude, September.


Type female, Florida.


Type female, Blanco County, central Texas. According to the original description, the type locality is Pennsylvania.


Paratypes, four males, Verdi, Nevada, June 1–10, June 20–30 (A. H. Vachell).


Type male, Summit, Sierra Nevada, California.


Type male, Charlotte Harbor, Florida, March.

The specimen with Hulst’s type label is a male from Yuma, Arizona. A second specimen from Blanco County, central Texas, is also present, which has been labeled “true type” by someone in pencil; this specimen is a female. According to the original description, the type locality is Los Angeles, California.

**nigricans** Hulst, *Salebria*
1900, Canadian Ent., vol. 32, p. 171.

Type female, Phoenix, Arizona, June 1. Female genitalia mounted on slide No. 3157, June 13, 1946, C. Heinrich.

**nigrocinereella** Hulst, *Macrotheca*
1900, Canadian Ent., vol. 32, p. 176.

A male, labeled “type,” from Texas, July 7, 1891. According to the original description, the type is in the United States National Museum, so the present specimen is probably a cotype.

**nigromaculella** Hulst, *Aurora*

A male, labeled “type,” from Hot Springs, New Mexico, 7000 feet altitude, September. According to the original description, the type locality is the Santa Rita Mountains, Arizona, and the type is in the United States National Museum.

**nigrosignella** Hulst, *Acrobasis*

Type male, Texas, April. Male genitalia mounted on slide No. 3133, June 13, 1946, C. Heinrich.

**ninguidalis** Hulst, *Scoparia*

A female from Pennsylvania labeled “type.” However, according to the original description, the type is a male from Arizona. Dyar (1929, Proc. U. S. Natl. Mus., vol. 74, art. 24, p. 5) states that the type is in the United States National Museum collection, hence the present specimen must be considered as spurious.

**niviella** Hulst, *Lipographis*
1888, Ent. Amer., vol. 4, p. 117.

Type male, Colorado.

**nodosella** Hulst, *Wekiva*

Type male, Florida.

**nominatalis** Hulst, *Scoparia*

Type female, Vancouver Island, No. 5957.

**nubilella** Hulst, *Monoptilota*
1900, Canadian Ent., vol. 32, p. 171.

A male labeled “type,” Florida. Male genitalia mounted on slide No. 3142, June 13, 1946, C. Heinrich. However, the type is in the United States National Museum, so the present specimen may be considered a cotype.

**nymphaeella** Hulst, *Diviana*

Type male, Charlotte Harbor, Florida, March.

**oblactalis** Hulst, *Botis*

Type male, Texas. According to the original description, this species was described from two males from Arizona.

**obnigralis** Hulst, *Botis*

Type female, Sierra Nevada, California, No. 3013.

**obnupsella** Hulst, *Myelois*

Type male, Canada. This specimen was designated as the lectotype by Barnes and McDunnough (1916, Contributions to the natural history of the Lepidoptera of North America, vol. 3, p. 193).

**obsipella** Hulst, *Honora*
1888, Ent. Amer., vol. 4, p. 118.

Type female, Colorado. Female genitalia mounted on slide No. 3173, June 13, 1946, C. Heinrich. According to the original description, this species was described from Texas.

**occidentalis** Hulst, *Asopia*

Type female, Colorado. According to the original description, this species was described from two males.
octomaculalis Fernald, Diathrusta
Type male, without locality data. According to the original description, the type localities are Pennsylvania, New York, and Ontario.

octosignalis Hulst, Botis
A male labeled "type" from California. Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 421) has designated the lectotype as a male in the collection of the American Museum of Natural History, so the present specimen becomes a lectoparatype.

odosella Hulst, Nephopteryx
Type male, Blanco County, central Texas. Male genitalia mounted on slide No. 3165, June 13, 1946, C. Heinrich.

ofumalis Hulst, Botis
Type female, San Diego, California.

olbiella Hulst, Mona
Two males, both labeled "type," Salida, Colorado, July 3, 6, 1888 (W. S. Foster), the former with male genitalia mounted on slide No. 3203, June 14, 1946, C. Heinrich.

olivalis Hulst, Tetralopha
Type male, Colorado.

olivella Hulst, Anorista
1888, Ent. Amer., vol. 4, p. 117.
Type male, southern California. According to the original description, the type locality is Needles, California.

opacella Hulst, Anerastia
Type male, Blanco County, central Texas. Male genitalia mounted on slide No. 3221, June 14, 1946, C. Heinrich.

opalescalis Hulst, Schoenobius
A male, labeled "type," Salida, Colorado, 4-6-88. According to the original description, the type locality is Arizona.

oratalis Hulst, Euidiptis
Type male, Louisiana.

oreadella Hulst, Uinta
A male, labeled "type," from Texas, June. According to the original description, the type locality is Colorado.

ostricolorella Hulst, Euzophera
Type male, New York.

dallidipenella Hulst, Volusia
1895, Canadian Ent., vol. 27, p. 56.
Type female, Colorado (Bruce). Female genitalia mounted on slide No. 3215, June 14, 1946, C. Heinrich.

dallulella Hulst, Stenoptycha
1887, Ent. Amer., vol. 3, p. 137.
Type female, Colorado. Female genitalia mounted on slide No. 3199, June 13, 1946, C. Heinrich.

pelviculella Hulst, Moodna
Type male, Hazleton, Pennsylvania (Dr. Dietz). Male genitalia mounted on slide No. 3214, June 14, 1946, C. Heinrich. According to the original description, the type locality is Newburgh, New York.

perfuscalis Hulst, Nephopteryx
Type female, No. 269, California. Female genitalia mounted on slide No. 3190, June 13, 1946, C. Heinrich.

perfuscalis Hulst, Zinckenia
Type male, Florida.

dergilvalis Hulst, Botis
A male, labeled "type," from Colorado. According to the original description, this species was described from three females from Arizona.
pergratialis Hulst, *Nephopteryx*
Type male, Florida.

perlepidella Hulst, *Chipeta*
Type female, Florida. Female genitalia mounted on slide No. 3228, June 14, 1946, C. Heinrich.

perplexalis Fernald, *Eurycreon*
1885, Canadian Ent., vol. 17, p. 57.
A male with the Fernald type label, from New York. According to the original description, the type locality is Texas. Also included with the type are two specimens, a male from Blanco County, central Texas, and a female labeled “Texas.”

pilalis Hulst, *Botis*
Type male, without locality data. The type locality is given as Indian River, Florida, in the original description.

plumosipalalis Fernald, *Botis*
1888, Ent. Amer., vol. 4, p. 37.
Type male, Colorado.

pneumatella Hulst, *Stenoptycha*
1887, Ent. Amer., vol. 3, p. 137.
Type female, without locality data. Female genitalia mounted on slide No. 3202, June 14, 1946, C. Heinrich.

polingi Kearfott, *Crambus*
Cotypes, two males, southern Arizona, August 1–15 (Poling).

proprialis Fernald, *Hydrocampa*
1888, Ent. Amer., vol. 4, p. 37.
Type male, Texas, May.

psychialis Hulst, *Botis*
A female from Texas labeled “type.” Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 421) has designated a female from Texas in the collection of the American Museum of Natural History as the lectotype. According to the original description, Hulst had two females, one from Georgia, the other from Texas. This leaves the status of the present specimen rather dubious.

purpurella Hulst, *Salebria*
1892, Canadian Ent., vol. 24, p. 61.
Type female, New Mexico. Female genitalia mounted on slide No. 3167, June 13, 1946, C. Heinrich.

quantulella Hulst, *Pemphelia*
Type male, Blanco County, central Texas, March.

refotalis Hulst, *Crambus*
Type male, Colorado.

refugalis Hulst, *Scoparia*
Type male, Marin County, California.

reluctalis Hulst, *Orobena*

rhypodella Hulst, *Glyptoteles*
1887, Ent. Amer., vol. 3, p. 137.
Type female, without locality data, but with No. 42. Female genitalia mounted on slide No. 3148, June 13, 1946, C. Heinrich. According to the original description, this species was described from one male from Oregon.

rogatalis Hulst, *Botis*
Type male, Texas, October. According to the original description, the species was described from one female.

roseopennalis Hulst, *Botis*
A male from North Carolina labeled “type.” Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 422) designated the lectotype of this species as a specimen from Arizona in the collection of the American Museum of
Natural History, so the North Carolina specimen becomes a lectoparatype.

**roseopenella Hulst, Volusia**

Type male, Florida, March. Male genitalia mounted on slide No. 3220, June 14, 1946, C. Heinrich. According to the original description, the type locality is Volusia County, Florida.

**rubribasella Hulst, Etiella**

Type female, Florida, May. Female genitalia mounted on slide No. 3188, June 13, 1946, C. Heinrich.

**saganella Hulst, Ragonotia**

Type female, Colorado, May. Female genitalia mounted on slide No. 3217, June 14, 1946, C. Heinrich.

**salutalis Hulst, Botis**
Type male, Oregon.

**scitulella Hulst, Mineola**
1900, Canadian Ent., vol. 32, p. 169.

Two females, both labeled "type," from Colorado, one of them having been caught by Bruce. The other specimen has the female genitalia mounted on slide No. 3138, June 13, 1946, C. Heinrich.

**scurralis Hulst, Botis**

A male labeled "type" from Arizona. Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 422) has designated the lectotype as a male in the collection of the American Museum of Natural History, so the present specimen becomes a lectoparatype.

**semiobscurella Hulst, Salebría**

Types, male and female, Blanco County, central Texas, the male being dated May and the female with genitalia mounted on slide No. 3161, June 13, 1946, C. Heinrich.

**simplicelus** Kearfott, *Crambus*
Paratype male, Washington County, Arkansas, July–August (A. J. Brown).

**slossonella Hulst, Salebría**

Type female, Miami, Florida, February–March (Mrs. Slosson). Female genitalia mounted on slide No. 3159, June 13, 1946, C. Heinrich.

**slossonii Hulst, Benta**
1895, Canadian Ent., vol. 27, p. 53.

Two females, both labeled "type," one from Miami, Florida, February–March (Mrs. Slosson), the other from Charlotte Harbor, Florida, March. According to the original description, this species was described from a single female from south Florida collected by Mrs. Slosson.

**subosseella Hulst, Lipographis**

Type male, Bahama. Male genitalia mounted on slide No. 3187, June 13, 1946, C. Heinrich.

**subruflula Hulst, Nephopteryx**

Type female, without locality data, but with No. 61. Female genitalia mounted on slide No. 3141, June 13, 1946, C. Heinrich. According to the original description, the type locality is Florida.

**succandidalis Hulst, Botis**
Type male, Black Hills.

**saleolaris Hulst, Toripalpus**
Type female, Colorado.

**tarmitalis Hulst, Pempelia**
Type male, Colorado. Male genitalia mounted on slide No. 3170, June 13, 1946, C. Heinrich.

**tenebroseella Hulst, Nephopteryx**
Type female, Texas. Female genitalia mounted on slide No. 3152, June 13, 1946, C. Heinrich.

texanella Hulst, Myelois
1892, Canadian Ent., vol. 24, p. 60.
Type male, Blanco County, central Texas.

texanella Hulst, Psorosa
Type male, Blanco County, central Texas. Male genitalia mounted on slide No. 3205, June 14, 1946, C. Heinrich.

thallophilalis Hulst, Botis
A female from Montana labeled "type." Klots (1942, Bull. Amer. Mus. Nat. Hist., vol. 79, p. 422) has designated the female from California as the lectotype, so the Montana specimen becomes a lectoparatype.

tiftella Hulst, Wanda
1888, Ent. Amer., vol. 4, p. 114.
Type male, Blanco County, central Texas, July.

trichusalis Hulst, Crambus
Type male, Colorado.

umbripennis Hulst, Pinipestis
1895, Canadian Ent., vol. 27, p. 57.
Type male, Colorado (Bruce). Male genitalia mounted on slide No. 3146, June 13, 1946, C. Heinrich.

uncanalis Hulst, Nephopteryx

The male bearing Hulst's type label is on a specimen labeled "No. 3838, Nevada." McDunnough has added the label "probably the type of impressale Hulst." A second specimen is present from Custer County, Colorado, which McDunnough has labeled "probably the type of uncanale Hulst," and this specimen has the female genitalia mounted on slide No. 3212, June 14, 1946, C. Heinrich. This latter specimen agrees with the locality data given in the original description.

unicolorella Hulst, Dioryctria
Type male, June 23, 1886 (H. S. Saunders). According to the original description, the type locality is Washington, D. C.

uxorculalis Hulst, Botis
Type female, Sierra Nevada, California, No. 4460. According to the original description, this species was described from three males.

vachellellus Kearfott, Crambus
Cotype male, Verdi, Nevada, July 1–10 (A. H. Vachell). There is a second male with the same data, but it is not labeled "cotype."

villosella Hulst, Etiella
1887, Ent. Amer., vol. 3, p. 133.
Type male, Colorado. Male genitalia mounted on slide No. 3189, June 13, 1946, C. Heinrich.

xeniolalis Hulst, Isopteryx
Type male, Texas, March. There is also a female from Texas, September, labeled "type," but according to the original description this species was described from a single male.

yavapai Kearfott, Eugrotea
Cotype female, Yavapai County, Arizona.

zeiatella Hulst, Myelois
Type male, Blanco County, central Texas. Male genitalia mounted on slide No. 3140, June 13, 1946, C. Heinrich. According to the original description, the type localities are New York and Canada.

OLETHREUTIDAE
offectalis Hulst, Crambus
Type female, Colorado.
GLYPHIPTERYGIDAE

gemmalis Hulst, Chalcoela

Type male, California. According to the original description, the type locality is the Sierra Nevada Mountains, California.

AEGERIIDAE

albicoma Hulst, Bembecia marginata

Type female, Long Island. According to the original description, the type locality is Brooklyn. Engelhardt (1946, Bull. U. S. Natl. Mus., no. 190, p. 194) restricted the type of this species to the male in the collection of the American Museum of Natural History.

XYLORYCTIDAE

tsugensis Kearfott, Ptochoryctis

Cotypes, male and female, Rutherford, New Jersey, May 12, bred from hemlock imported from Japan. The second specimen is dated May 9, and is labeled “bred from Tsuga sieboldi (Japan).”