

Article XIII.—LIST OF TYPES OF LEPIDOPTERA IN THE EDWARDS COLLECTION OF INSECTS.

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The object of the present paper is to place on record a list of the types of Lepidoptera in the collection of insects formed by the late Henry Edwards, which is now the property of the Museum. The collection consists of about 250,000 specimens and about 25,000 species, representing all the orders, and gathered in various parts of the globe. It is especially rich in Australian species, and in North American species from the Pacific Coast. A large number of Lepidoptera from this country were described by Mr. Edwards, and most of his types are in the collection, as well as many types of species described by other writers. The following list enumerates 465 species, which, together with the list¹ of 70 types from the Grote and Robinson collection, already recorded, aggregates 535 species of Lepidoptera, the types of which are now in the Museum collection. *Catocala angusii* Gr., *Catocala residua* Gr., *Attacus cinctus* Tepper, mentioned in the present list, are from the collection of insects recently donated to the Museum by James Angus, Esq.; and *Euclea elliotii* Pears. is from the Elliot collection, otherwise all are in the Edwards collection.

PAPILIONIDÆ.

Papilio pergamus Hy. Edw., Proc. Cal. Acad. Sc., Vol. V, p. 423.—One male, Santa Barbara, Cal.

Parnassius clodius var. **menetriesii** Hy. Edw., Proc. Cal. Acad. Sc., Vol. VII, p. 164.—Male and female, Sierra Nevada, Cal.

Parnassius smintheus var. **hermodur** Hy. Edw., Papilio, Vol. I, p. 4.—Two females, Southern Colorado.

Parnassius eversmanni var. **thor** Hy. Edw., Papilio, Vol. I, p. 2.—One female, Yukon River, Alaska.

¹ Bull. Am. Mus. Nat. Hist., Vol. IV, pp. 59-64.

Anthocharis ausonides var. **coloradensis** *Hy. Edw.*, *Papilio*, Vol. I, p. 50.—Male and female, Colorado.

Colias harfordii *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Feb. 5, 1877.—Five males, California.

Colias chrysomelas *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Feb. 5, 1877.—Two males, Napa Co., Cal.

Colias barbara *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Feb. 5, 1877.—Two females, Santa Barbara, Cal. (= *C. harfordii*, ♀.)

Colias eurydice var. **amorphæ** *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Vol. VII, p. 169.—One male, Mendocino Co., Cal.

Colias moina *Strk.*, *Bull. Brooklyn Ent. Soc.*, Vol. III, p. 34.—Two females, Labrador.

Colias interior var. **laurentina** *Scud.*, *Proc. Boston Soc. Nat. Hist.*, Vol. XVIII, p. 189.—One female, Cape Breton Island.

NYMPHALIDÆ.

Argynnis liliana *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Vol. VII, p. 170.—Three males, two females, Napa Co., Cal.

Argynnis columbia *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Dec. 17, 1877.—Two males, British Columbia.

Argynnis bischoffii *Edw.*, *Trans. Am. Ent. Soc.*, Vol. III, p. 189.—One female, Alaska.

Argynnis opis *Edw.*, *Trans. Am. Ent. Soc.*, Vol. V, p. 105.—One female, British Columbia.

Argynnis monticola var. **purpurascens** *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Vol. VII, p. 170.—Three males, two females, Mt. Shasta, Cal.

Melitæa rubicunda *Hy. Edw.*, *Papilio*, Vol. I, p. 52.—Four males, three females, Sierra Nevada, Cal.

Melitæa chalcon var. **dwinellei** *Hy. Edw.*, *Papilio*, Vol. I, p. 51.—Four examples, Shasta Co., Cal.

Melitæa nubigena var. **wheeleri** *Hy. Edw.*, *Papilio*, Vol. I, p. 52.—Male and female, Southern Nevada.

Melitæa leanira var. **obsoleta** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 171.—Four examples, Marin Co., Cal.

Limenitis lorquinii var. **eavesii** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 172.—One example, Virginia City, Nevada.

Cœnonympha californica var. **eryngii** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 172.—Three examples, Mt. Shasta, Cal.

Cœnonympha californica var. **pulla** *Hy. Edw.*, Papilio, Vol. I, p. 51.—One male, San Mateo, Cal.

LYCÆNIDÆ.

Thecla melinus var. **pudica** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 172.—One male, Contra Costa Co., Cal.

Thecla putnami *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 143.—One specimen, in poor condition, Utah.

Thecla spadix *Hy. Edw.*, Papilio, Vol. I, p. 53.—Two females, Tehachepi Pass, Southern California.

Thecla sæpium var. **fulvescens** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 172.—Two examples, Havilah, Cal. One example, Tehachepi Pass, Cal.

Thecla nelsoni var. **exoleta** *Hy. Edw.*, Papilio, Vol. I, p. 53.—Two females, Big Tree, Calaveras Co., Cal.

Thecla nelsoni var. **muiri** *Hy. Edw.*, Papilio, Vol. I, p. 53.—Male and female, Mendocino Co., Cal.

Thecla adenostomatis *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 144.—Two examples, Tehachepi Pass, Southern California.

Thecla irus var. **mossii** *Hy. Edw.*, Papilio, Vol. I, p. 54.—One male, Vancouver Island.

Lycæna clara *Hy. Edw.*, Proc. Cal. Acad. Sc., Dec. 17, 1877.—Three examples, Tehachepi Pass, Southern California.

Lycæna speciosa *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 173.—One male, Havilah, Kern Co., Cal.

SPHINGIDÆ.

Hemaris cynoglossum *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 88.—Three examples, California.

Hemaris rubens *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 88.—One male, Oregon.

Euproserpinus euterpe *Hy. Edw.*, Ent. Am., Vol. IV, p. 25.—One male, Southern California.

Smerinthus ophthalmicus var. **pallidulus** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 91.—Four examples, California.

Triptogon modesta var. **occidentalis** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 92.—One female, California.

Phlegethontius cingulata var. **decolora** *Hy. Edw.*, Papilio, Vol. II, p. 11.—One male, Indian River, Florida.

Sphinx chersis var. **oreodaphne** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 93.—Male and female, St. Helena, Napa Co., California.

Sphinx perelegans *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 109.—One male, one female, Santa Clara Co., California.

Sphinx vancouverensis *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 111.—One male, Big Tree, Cal. One female, Oregon.

Sphinx libocedrus *Hy. Edw.*, Papilio, Vol. I, p. 115.—One male, Prescott, Arizona.

Protoparce dilucida *Hy. Edw.*, Ent. Am., Vol. III, p. 89.—Four examples, Jalapa, Mexico.

Diludia languinosa *Hy. Edw.*, Ent. Am., Vol. III, p. 89.—Four examples, Jalapa, Mexico.

Isognathus inclitus *Hy. Edw.*, Ent. Am., Vol. III, p. 90.—Three examples, Jalapa, Mexico.

Chœrocampa turbata *Hy. Edw.*, Ent. Am., Vol. III, p. 89.—Three examples, Jalapa, Mexico.

ÆGERIDÆ.

Melittia snowii *Hy. Edw.*, Papilio, Vol. II, p. 53.—One male, Kansas.

Melittia gloriosa *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 71.—One female, California.

Melittia bergii *Hy. Edw.*, Papilio, Vol. III, p. 157.—One female, Buenos Ayres, S. A.

Larunda solituda *Hy. Edw.*, Papilio, Vol. I, p. 182.—One female, Western Kansas.

Trochilium simulans *Grote*, Bull. Brooklyn Ent. Soc., Vol. III, p. 78.—One female, Northern Illinois.

Trochilium pacificum *Hy. Edw.*, Papilio, Vol. I, p. 180.—Male and female, California.

Bembecia flavipes *Hulst*, Bull. Brooklyn Ent. Soc., Vol. III, p. 76 (= *B. marginata* Harr.).—One male, one female, Long Island, N. Y.

Sciapteron robinæ *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 72.—Three males, Virginia City, Nevada. One female, California.

Sciapteron admirandus *Hy. Edw.*, Papilio, Vol. II, p. 54.—One male, Texas.

Sciapteron denotata *Hy. Edw.*, Papilio, Vol. II, p. 55.—One male, two females, Montana.

Fatua palmii *Hy. Edw.*, Can. Ent., Vol. XIX, p. 145.—One female, Enterprise, Florida.

Harmonia morrisonii *Hy. Edw.*, Papilio, Vol. II, p. 54.—One male, Montana. One female, Missouri.

Albuna rubescens *Hulst*, Bull. Brooklyn Ent. Soc., Vol. III, p. 76 (= *A. hylotomiformis* Walk.).—One female, Colorado.

Albuna tanacetii *Hy. Edw.*, Papilio, Vol. I, p. 188.—Four females, Colorado, Vancouver and California.

Albuna artemisiæ *Hy. Edw.*, Papilio, Vol. I, p. 187.—One male, Sierra Nevada, Cal.

Albuna montana *Hy. Edw.*, Papilio, Vol. I, p. 188.—Three females, Colorado.

Albuna vancouverensis *Hy. Edw.*, Papilio, Vol. I, p. 188.—Four males, three females, Colorado and Vancouver Island.

Albuna coloradensis *Hy. Edw.*, Papilio, Vol. I, p. 189.—One female, Colorado.

Albuna torva *Hy. Edw.*, Papilio, Vol. I, p. 189.—One female, Vancouver Island.

Albuna resplendens *Hy. Edw.*, Papilio, Vol. I, p. 186.—One male, California.

Albuna rutilans *Hy. Edw.*, Papilio, Vol. I, p. 186.—One female, Virginia City, Nevada.

Albuna rileyana *Hy. Edw.*, Papilio, Vol. I, p. 187.—One female, Cadet, Missouri.

Sannina exitiosa var. **fitchii** *Hy. Edw.*, Papilio, Vol. II, p. 55.—One female, Florida.

Ægeria inusitata *Hy. Edw.*, Papilio, Vol. I, p. 201.—One male, Andover, Mass.

Ægeria quercus *Hy. Edw.*, Papilio, Vol. II, p. 98.—One male, Fort Grant, Arizona.

Ægeria prosopis *Hy. Edw.*, Papilio, Vol. II, p. 99.—One male, Fort Grant, Arizona.

Ægeria bolteri *Hy. Edw.*, Papilio, Vol. III, p. 155.—One male, Northern Illinois.

Ægeria flava *Hy. Edw.*, Papilio, Vol. I, p. 189.—One female, Colon, Isthmus of Panama.

Ægeria aurata *Hy. Edw.*, Papilio, Vol. I, p. 190.—One male, Panama.

Ægeria novaroensis *Behrens*, Papilio, Vol. I, p. 199.—One male, one female, Soda Springs, Cal.

Ægeria lustrans *Grote*, Can. Ent., Vol. XII, p. 213.—One female, Ohio.

Ægeria saxifragæ *Hy. Edw.*, Papilio, Vol. I, p. 190.—One male, Colorado.

Ægeria henshawii *Hy. Edw.*, Papilio, Vol. II, p. 56.—One female, Mingan Island, Labrador.

Ægeria corni *Hy. Edw.*, Papilio, Vol. I, p. 190.—One male, Massachusetts.

Ægeria verecunda *Hy. Edw.*, Papilio, Vol. I, p. 190.—Two females, Colorado.

Ægeria lupini *Hy. Edw.*, Papilio, Vol. I, p. 192.—Three males, three females, California.

Ægeria impropria *Hy. Edw.*, Papilio, Vol. I, p. 193.—One male, Sierra Nevada, Cal.

Ægeria sexfasciata *Hy. Edw.*, Papilio, Vol. I, p. 193.—One male, Dallas, Texas.

Ægeria corusca *Hy. Edw.*, Papilio, Vol. I, p. 193.—Two males, Texas.

Ægeria consimilis *Hy. Edw.*, Papilio, Vol. I, p. 194.—One male, Dorchester, Mass.

Ægeria hyperici *Hy. Edw.*, Papilio, Vol. I, p. 195.—Two females, West Virginia.

Ægeria eupatorii *Hy. Edw.*, Papilio, Vol. I, p. 193.—One male, Astoria, Long Island, N. Y.

Ægeria kœbeleii *Hy. Edw.*, Papilio, Vol. I, p. 196.—One male, Tallahassee, Florida.

Ægeria washingtonia *Hy. Edw.*, Papilio, Vol. I, p. 197.—One male, Washington.

Ægeria neglecta *Hy. Edw.*, Papilio, Vol. I, p. 197.—One male, Olympia, Wash.

Ægeria imperfecta *Hy. Edw.*, Papilio, Vol. I, p. 198.—One male, Colorado.

Ægeria hemizonæ *Hy. Edw.*, Papilio, Vol. I, p. 198.—Three females, Nevada and California.

Ægeria senecioides *Hy. Edw.*, Papilio, Vol. I, p. 198.—One male, California.

Ægeria opalescens *Hy. Edw.*, Papilio, Vol. I, p. 199.—Two males, Colorado and Nevada.

Ægeria gilix *Hy. Edw.*, Papilio, Vol. I, p. 200.—One female, Colorado.

Ægeria mimuli *Hy. Edw.*, Papilio, Vol. I, p. 200.—One male, Colorado.

Ægeria madariæ *Hy. Edw.*, Papilio, Vol. I, p. 201.—One male, one female, California.

Ægeria albicornis *Hy. Edw.*, Papilio, Vol. I, p. 201.—One female, Centre, New York.

Ægeria auropurpurea *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 72.—One male, Texas.

Pyrrhotænia polygona *Hy. Edw.*, Papilio, Vol. I, p. 202.—One male, San Miguel, Cal.

Pyrrhotænia fragariæ *Hy. Edw.*, Papilio, Vol. I, p. 202.—Two examples, Colorado.

Pyrrhotænia helianthi *Hy. Edw.*, Papilio, Vol. I, p. 203.—One female, Soda Springs, Cal.

Pyrrhotænia achillæ *Hy. Edw.*, Papilio, Vol. I, p. 203.—One male, San Rafael, Cal.

Pyrrhotænia eremocarpi *Hy. Edw.*, Papilio, Vol. I, p. 203.—One male, Sierra Nevada, Cal.

Pyrrhotænia meadii *Hy. Edw.*, Papilio, Vol. I, p. 204.—Two males, Lake Tahoe, Cal.

Pyrrhotænia orthocarpi *Hy. Edw.*, Papilio, Vol. I, p. 204.—Three males, Washoe Lake, Nevada.

Pyrrhotænia behrensii *Hy. Edw.*, Papilio, Vol. II, p. 123.—Three males, Soda Springs, Cal.

Pyrrhotænia wittfeldii *Hy. Edw.*, Papilio, Vol. III, p. 156.—Two females, Indian River, Florida.

Pyrrhotænia animosa *Hy. Edw.*, Papilio, Vol. III, p. 156.—One male, one female, Arizona.

Pyrrhotænia elda *Hy. Edw.*, Ent. Am., Vol. I, p. 49.—Two females, Siskiyou Co., Cal.

Pyrrhotænia floridensis *Grote*, Can. Ent., Vol. VII, p. 14.—One male, Enterprise, Florida.

Carmenta sanborni *Hy. Edw.*, Papilio, Vol. I, p. 185.—One female, Andover, Mass.

Carmenta nigella *Hulst*, Bull. Brooklyn Ent. Soc., Vol. III, p. 75.—One male, Western New York.

Zenodoxus heucheræ *Hy. Edw.*, Papilio, Vol. I, p. 205.—Four examples, Sierra Nevada, Cal.

Zenodoxus potentillæ *Hy. Edw.*, Papilio, Vol. I, p. 205.—Three examples, Sierra Nevada, Cal.

Zenodoxus canescens *Hy. Edw.*, Papilio, Vol. I, p. 205.—One female, Arkansas.

Zenodoxus maculipes *G. & R.*, Trans. Am. Ent. Soc., Vol. II, p. 184.—One female, Texas.

ZYGÆNIDÆ.

Alypia matuta *Hy. Edw.*, Papilio, Vol. III, p. 33.—One male, Colorado.

Alypia wittfeldii *Hy. Edw.*, Papilio, Vol. III, p. 34.—Two males, one female, Indian River, Florida.

Alypia similis *Stretch*, Zygæ. & Bomb. N. Am., Vol. I, p. 14.—One female, California.

Alypia similis* var. *conjuncta *Hy. Edw.*, Papilio, Vol. III, p. 34.—One male, Contra Costa Co., Cal.

Alypia brannani *Stretch*, Zygæ. & Bomb. N. Am., Vol. I, p. 8.—One male, Sierra Nevada, Cal.

Pseudalypia crotchii *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 111.—One female, San Diego, Cal.

Scepsis mathewi *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 184.—Three examples, Vancouver Island.

Scepsis gravis *Hy. Edw.*, Ent. Am., Vol. II, p. 8.—Three specimens, Mendocino Co., Cal.

Scepsis fulvicollis var. **pallens** *Hy. Edw.*, Ent. Am., Vol. II, p. 8.—Four examples, Denver, Colorado.

Scepsis edwardsii *Grote*, Papilio, Vol. I, p. 4.—Male and female, Indian River, Florida.

Ctenucha walsinghamii *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 112 (= *C. rubroscapis* Menet.).—One female, Fort Crook, Oregon.

Ctenucha imitata *Hy. Edw.*, Ent. Am., Vol. III, p. 91.—Three males, Jalapa, Mexico.

Ctenucha scepsiformis *Hy. Edw.*, Ent. Am., Vol. III, p. 91.—Four males, Jalapa, Mexico.

Ctenucha proxima *Hy. Edw.*, Papilio, Vol. IV, p. 14.—One female, Jalapa, Mexico.

Ctenucha modulata *Hy. Edw.*, Papilio, Vol. IV, p. 14.—One female, Jalapa, Mexico.

Ctenucha pyrrhoura *Hulst*, Bull. Brooklyn Ent. Soc., Vol. III, p. 77 (= *C. harrisii* Bd.).—One male, Colorado.

Lycomorpha notha *Hy. Edw.*, Ent. Am., Vol. I, p. 128.—One male, Jalapa, Mexico.

Lycomorpha sinuata *Hy. Edw.*, Ent. Am., Vol. I, p. 128.—One female, Jalapa, Mexico.

Lycomorpha angusta *Hy. Edw.*, Ent. Am., Vol. III, p. 91.—One male, Jalapa, Mexico.

Lycomorpha marginata *Hy. Edw.*, Papilio, Vol. IV, p. 13.—One male, Mexico.

Lycomorpha coccinea *Hy. Edw.*, Ent. Am., Vol. II, p. 9.—Two females, Arizona.

Gnophæla vermiculata var. **continua** *Hy. Edw.*, Papilio, Vol. I, p. 80.—Two examples, Colorado.

Gnophæla disjuncta *Hy. Edw.*, Ent. Am., Vol. I, p. 128.—One female, Jalapa, Mexico.

Anatolmis fulgens *Hy. Edw.*, Papilio, Vol. I, p. 116.—One male, Prescott, Arizona.

Triprocris basalis *Hy. Edw.*, Ent. Am., Vol. III, p. 91.—Six examples, Jalapa, Mexico.

Triprocris aversus *Hy. Edw.*, Papilio, Vol. IV, p. 13.—One male, Jalapa, Mexico.

Penthetria majuscula *Hy. Edw.*, Papilio, Vol. I, p. 80.—One male, Georgia.

Penthetria parvula *Hy. Edw.*, Papilio, Vol. I, p. 80.—One male, Indian River, Florida.

Eusemia schausii *Hy. Edw.*, Ent. Am., Vol. III, p. 90.—Three examples, Jalapa, Mexico.

BOMBYCIDÆ.

Erias obliquata *Hy. Edw.*, Ent. Am., Vol. II, p. 9.—One male, Neuces River, Texas.

Sarrothripa columbiana *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 184.—Two examples, Vancouver Island.

Nola anfracta *Hy. Edw.*, Papilio, Vol. I, p. 12.—One male, Yosemite Valley, Cal.

Hypoprepia plumbea *Hy. Edw.*, Ent. Am., Vol. II, p. 9.—One male, one female, Minneapolis, Minn.

Clemensia irrorata *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 185.—One female, Vancouver Island.

Lithosia candida *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 185.—One female, Vancouver Island.

Crocota ostenta Hy. Edw., Papilio, Vol. I, p. 12.—One male, Prescott, Arizona.

Arctia incorrupta Hy. Edw., Papilio, Vol. I, p. 38.—Three males, Prescott, Arizona. One male, Oregon.

Arctia achaia var. **barda** Hy. Edw., Papilio, Vol. I, p. 39.—Two males, Northern California and Dalles, Oregon.

Arctia brucei Hy. Edw., Ent. Am., Vol. III, p. 183.—Male and female, Colorado.

Arctia superba Stretch, Zygæ. & Bomb. N. Am., Vol. I, p. 227.—One male, Vancouver Island.

Antarctia pteridis Hy. Edw., Proc. Cal. Acad. Sc., Vol. V, p. 264.—One male, Vancouver Island. (= *A. punctata*.)

Antarctia punctata var. **proba** Hy. Edw., Papilio, Vol. I, p. 39.—Male and female, Sierra Nevada, Cal.

Daritis thetis var. **howardi** Hy. Edw., Ent. Am., Vol. II, p. 165.—One male, New Mexico.

Euprepia opulenta Hy. Edw., Papilio, Vol. I, p. 38.—One male, Yukon River, Alaska.

Euprepia caja var. **utahensis** Hy. Edw., Ent. Am., Vol. II, p. 166.—Thirteen examples, Salt Lake, Utah.

Nemeophila selywnii Hy. Edw., Can. Ent., Vol. XVII, p. 65.—One male, Vancouver Island.

Kodiosoma fulva Stretch, Zygæ. & Bomb. N. Am., Vol. I, p. 67.—One male, California.

Nelphe carolina Hy. Edw., Ent. Am., Vol. II, p. 166.—One male, Indian River, Florida.

Halisidota maculata var. **alni** Hy. Edw., Proc. Cal. Acad. Sc., Vol. VII, p. 129.—Two females, Mt. Shasta, Cal.

Halisidota davisii Hy. Edw., Proc. Cal. Acad. Sc., Vol. V, p. 365.—One male, Arizona.

Halisidota ingens Hy. Edw., Papilio, Vol. I, p. 39.—One female, Prescott, Arizona.

Halisidota laqueata *Hy. Edw.*, Ent. Am., Vol. II, p. 166.—
One female, Texas.

Halisidota propinqua *Hy. Edw.*, Papilio, Vol. IV, p. 76.—
One male, Jalapa, Mexico.

Euhalisidota aperta *Hy. Edw.*, Papilio, Vol. IV, p. 77.—
One male, Jalapa, Mexico.

Euhalisidota lurida *Hy. Edw.*, Ent. Am., Vol. III, p. 91.—
Male and female, Jalapa, Mexico.

Robinsonia perfecta *Hy. Edw.*, Papilio, Vol. IV, p. 60.—
Male and female, Jalapa, Mexico.

Euchætès inopinatus *Hy. Edw.*, Papilio, Vol. II, p. 13.—
One male, Indian River, Florida.

Euchætès yosemite *Hy. Edw.*, Papilio, Vol. III, p. 146.—
One male, two females, Yosemite Valley, Cal.

Euchætès sceansiformis *Graef*, Ent. Am., Vol. III, p. 43.—
One male, Texas.

Euchætès fumidus *Hy. Edw.*, Papilio, Vol. IV, p. 61.—
Male and female, Jalapa, Mexico.

Euchætès immanis *Hy. Edw.*, Papilio, Vol. IV, p. 75.—
Male and female, Jalapa, Mexico.

Euchætès emendatus *Hy. Edw.*, Papilio, Vol. IV, p. 61.—
Two males, one female, Jalapa, Mexico.

Orgyia badia *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V,
p. 188.—Male and female, Vancouver Island. (= *O. antiqua* L.)

Orgyia gulosa *Hy. Edw.*, Papilio, Vol. I, p. 61.—Male and
female, California.

Orgyia cana *Hy. Edw.*, Papilio, Vol. I, p. 62.—Two males,
Havilah, Cal.

Orgyia leucostigma var. *obliviosa* *Hy. Edw.*, Ent. Am.,
Vol. II, p. 13.—Three males, two females, New Jersey.

Euclea elliotii *Pears*, Ent. Am., Vol. II, p. 209.—One male,
New York.

Limacodes beutenmuelleri *Hy. Edw.*, Can. Ent., Vol. XIX, p. 145.—One female, Enterprise, Florida.

Limacodes parallela *Hy. Edw.*, Ent. Am., Vol. II, p. 10.—One male, Indian River, Florida.

Lagóa superba *Hy. Edw.*, Papilio, Vol. IV, p. 79.—Male and female, Jalapa, Mexico.

Psyche fragmentella *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 142.—Larval cases. (Imago unknown.)

Psyche coniferella *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 142.—Larval cases. (Imago unknown.)

Oiketicus davidsonii *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII, p. 142.—Larval cases. (Imago unknown.)

Pseudopsyche exigua *Hy. Edw.*, Papilio, Vol. II, p. 125.—One male, Arizona.

Nadata behrensii *Hy. Edw.*, Ent. Am., Vol. I, p. 49.—Male and female, California.

Ichthyura brucei *Hy. Edw.*, Ent. Am., Vol. I, p. 17.—One male, Colorado.

Ichthyura luculenta *Hy. Edw.*, Ent. Am., Vol. II, p. 10.—Two males, Northern Indiana.

Ichthyura jocosa *Hy. Edw.*, Ent. Am., Vol. II, p. 10.—One female, Indian River, Florida.

Ichthyura bifiria *Hy. Edw.*, Ent. Am., Vol. II, p. 167.—One male, Soda Springs, Cal.

Apatelodes torrefacta var. **floridana** *Hy. Edw.*, Ent. Am., Vol. II, p. 13.—One male, Indian River, Florida.

Apatelodes vivax *Hy. Edw.*, Papilio, Vol. IV, p. 77.—Male and female, Jalapa, Mexico.

Apatelodes diffidens *Hy. Edw.*, Ent. Am., Vol. III, p. 92.—Male and female, Jalapa, Mexico.

Gluphisia wrightii *Hy. Edw.*, Ent. Am., Vol. II, p. 11.—One female, San Bernardino, Cal.

Gluphisia ridenda *Hy. Edw.*, Ent. Am., Vol. II, p. 12.—
Three males, Denver, Colorado.

Gluphisia rupta *Hy. Edw.*, Ent. Am., Vol. II, p. 12.—One
male, Denver, Colorado.

Gluphisia albofascia *Hy. Edw.*, Ent. Am., Vol. II, p. 12.—
Two males, Salt Lake City, Utah.

Gluphisia formosa *Hy. Edw.*, Ent. Am., Vol. II, p. 12.—
Three males, Salt Lake City, Utah.

Gluphisia severa *Hy. Edw.*, Ent. Am., Vol. II, p. 167.—One
female, Soda Springs, Cal.

Notodonta notaria *Hy. Edw.*, Ent. Am., Vol. I, p. 17
(=*Lophopteryx elegans* Strk.).—Four specimens, Colorado.

Lophodonta plumosa *Hy. Edw.*, Ent. Am., Vol. II, p. 14.—
One male, Denver, Colorado.

Pheosia portlandia *Hy. Edw.*, Ent. Am., Vol. II, p. 168.—
Male and female, Portland, Oregon.

Ædemasia perangulata *Hy. Edw.*, Papilio, Vol. II, p. 125.—
One male, Colorado.

Ædemasia salicis *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VII,
p. 121.—One male, Mt. Shasta, Cal.

Coelodasys conspecta *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol.
V, p. 366.—One male, Napa Co., California.

Ianassa lignicolor var. **coloradensis** *Hy. Edw.*, Ent. Am.,
Vol. I, p. 17.—Three examples, Salt Lake City, Utah.

Ianassa laciniosa *Hy. Edw.*, Ent. Am., Vol. I, p. 129.—Male
and female, Jalapa, Mexico.

Attacus cinctus *Tepper*, Bull. Brooklyn Ent. Soc., Vol. V,
p. 65.—One female, Southern Arizona.

Hemileuca maia var. **lucina** *Hy. Edw.*, Ent. Am., Vol. II,
p. 14.—Three males, two females, Maine.

Hyperchiria zephyria *Grote*, *Tran. Kan. Acad. Sc.*, Vol. VIII, p. 147.—One female, near Hot Springs, Las Vegas, New Mexico.

Hyperchiria schausii *Hy. Edw.*, *Papilio*, Vol. IV, p. 16.—Male and female, Jalapa, Mexico.

Euleucophæus tricolor *Pack.*, *Rep. Peab. Acad. Sc.*, April, 1872.—One male, New Mexico.

Euleucophæus sororius *Hy. Edw.*, *Papilio*, Vol. I, p. 100.—One female, La Paz, Lower California.

Thauma ribesii *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Vol. V, p. 265.—One female, Vancouver Island.

Gloveria arizonensis *Pack.*, *Papilio*, Vol. IV, p. 107.—One male, Arizona.

Gloveria olivacea *Hy. Edw.*, *Papilio*, Vol. IV, p. 108.—Two males, two females, Jalapa, Mexico.

Clisiocampa thoracica *Stretch*, *Papilio*, Vol. I, p. 68.—One male, California.

Bombyx habitus *Hy. Edw.*, *Ent. Am.*, Vol. III, p. 91.—One male, Jalapa, Mexico.

Hepialus mcglashanii *Hy. Edw.*, *Ent. Am.*, Vol. II, p. 14.—Three examples, Truckee, Cal.

Hepialus mathewi *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Vol. V, p. 265.—Male and female, Vancouver Island.

Hepialus rectus *Hy. Edw.*, *Papilio*, Vol. I, p. 35.—One female, Contra Costa Co., Cal.

Hepialus anceps *Hy. Edw.*, *Papilio*, Vol. I, p. 36.—Three examples, Mendocino Co., Cal.

Hepialus inutilis *Hy. Edw.*, *Papilio*, Vol. I, p. 36.—Male and female, Summit, Sierra Nevada, Cal.

Hepialus modestus *Hy. Edw.*, *Proc. Cal. Acad. Sc.*, Vol. V, p. 112.—One male, San Miguel, Cal.

Hepialus tacomæ *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 365.—One specimen, Tacoma, Washington.

Hepialus furcatus *Grote*, Can. Ent., Vol. XX, p. 30 (= *H. gracilis* Gr.).—One male, Colorado.

Hepialus montana *Stretch*, *Zygæ.* & Bomb. N. Am., Vol. I, p. 105.—One female, Sierra Nevada, Cal.

Phassus triangularis *Hy. Edw.*, Ent. Am., Vol. I, p. 129.—Two females, Jalapa, Mexico.

NOCTUIDÆ.

Bombycia improvisa *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 189 (as *Cymatophora improvisa*).—One male, Washington.

Bombycia tearlei *Hy. Edw.*, Ent. Am., Vol. II, p. 11 (as *Gluphisia tearlei*).—One female, Truckee, Sierra Nevada, Cal.

Raphia pallula *Hy. Edw.*, Ent. Am., Vol. II, p. 168.—Two females, Soda Springs, Siskiyou Co., Cal.

Bryophila viridata *Harv.*, Can. Ent., Vol. VIII, p. 275 (as *Jaspidia viridata*).

Diphthera spissa *Hy. Edw.*, Ent. Am., Vol. III, p. 92.—Male and female, Jalapa, Mexico.

Diphthera spissa var. **pollux** *Hy. Edw.*, Ent. Am., Vol. III, p. 92.—One male, Jalapa, Mexico.

Cerma olivacea *Smith*, Trans. Am. Ent. Soc., Vol. XVIII, p. 103.—One male, Sierra Nevada, Cal.

Dicopis damalis *Grote*, Bull. U. S. Geol. Surv., Vol. V, p. 208.—One male, Havilah, Cal.

Acronycta lupini *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. I, p. 79.—One female, California.

Acronycta spini *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. III, p. 78.—Male and female, Lone Mountains, Cal.

Acronycta felina *Grote*, Bull. U. S. Geol. Surv., Vol. V, p. 208.—One female, Summit, Sierra Nevada, Cal.

Acronycta americana var. **obscura** *Hy. Edw.*, Ent. Am., Vol. II, p. 169.—Four examples, Kansas City, Mo.

Copablepharon album *Harv.*, Can. Ent., Vol. VIII, p. 35.—One example, Oregon.

Agrotis havilæ *Grote*, Bull. U. S. Geol. Surv. (Hayden), Vol. VI, p. 157.—Three examples, Southern California.

Agrotis milleri *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. III, p. 78.—One female, Sierra Nevada, Cal.

Agrotis euroides *Grote*, Proc. Acad. Nat. Sc. Phila., 1874, p. 202.—One female, California.

Agrotis vancouverensis *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. I, p. 134.—One example, Vancouver Island.

Agrotis niveivenosa *Grote*, Bull. U. S. Geol. Surv. (Hayden), Vol. V, p. 206.—One female, Colorado.

Agrotis oblongistigma *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 454.—One example, Montana.

Agrotis remota *Smith*, Trans. Am. Ent. Soc., Vol. XVII, p. 48.—Two examples, Sierra Nevada, Cal.

Agrotis rena *Smith*, Trans. Am. Ent. Soc., Vol. XVII, p. 53.—Three examples, Sierra Nevada, Cal.

Agrotis nostra *Smith*, Trans. Am. Ent. Soc., Vol. XVII, p. 55.—Four examples, Sierra Nevada, Cal.

Agrotis lutulentus *Smith*, Trans. Am. Ent. Soc., Vol. XVII, p. 50.—Two males, Sierra Nevada, Cal.

Agrotis alticola *Smith*, Trans. Am. Ent. Soc., Vol. XVII, p. 51.—Three specimens, Sierra Nevada, Cal.

Agrotis pallidicollis *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. III, p. 79 (as *A. cinereicollis*).—One female, California.

Agrotis brunneigera *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. III, p. 80.—One female, Vancouver Island.

Mamestra comis *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. III, p. 85.—One male, Vancouver Island.

Mamestra minorata *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 467.—One male, Havilah, Cal.

Mamestra lepidula *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 463.—One female, Texas.

Mamestra rubrica var. **subapicalis** *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 462.—One female, Havilah, Cal.

Mamestra u-scripta *Smith*, Proc. U. S. Nat. Mus., Vol. XIV, p. 228.—Three examples, Sierra Nevada, Cal.

Mamestra invalida *Smith*, Proc. U. S. Nat. Mus., Vol. XIV, p. 225.—Three examples, Sierra Nevada, Cal.

Mamestra circumcincta *Smith*, Proc. U. S. Nat. Mus., Vol. XIV, p. 253.—One male, two females, Sierra Nevada, Cal.

Hadena violacea *Grote*, Bull. U. S. Geol. Surv. (Hayden), Vol. VI, p. 261.—One example, Mt. Shasta District, Cal.

Hadena cinefacta *Grote*, Papilio, Vol. I, p. 77.—One female, Southern California.

Hadena uncinata *Smith*, MSS.—Male and female, Sierra Nevada, Cal.

Hadena centralis *Smith*, Proc. U. S. Nat. Mus., Vol. XIII, p. 441.—Three examples, Sierra Nevada, Cal.

Hadena rectifascia *Smith*, Trans. Am. Ent. Soc., Vol. XVIII, p. 108 (as *Dryobota rectifascia*).—Two examples, Sierra Nevada, Cal.

Hadena latifascia *Smith*, Trans. Am. Ent. Soc., Vol. XVIII, p. 108 (= *Homohadena elda* ♂ French).—Male and female, Sierra Nevada, Cal.

Hadena dunbari *Harv.*, Can. Ent., Vol. VIII, p. 52.—One female, Vancouver Island.

Pseudanarta flava var. **crocea** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 133.—Three females, Dalles, Oregon.

Perigea niveirena *Harv.*, Can. Ent., Vol. VIII, p. 53.—One female, Vancouver Island.

Perigea fasciata *Hy. Edw.*, Ent. Am., Vol. II, p. 169.—Six specimens, Colorado Desert.

Scotogramma stretchii *Hy. Edw.*, Can. Ent., Vol. XIX, p. 146.—Two examples, Colorado Desert.

Homohadena deserta *Smith*, Proc. U. S. Nat. Mus., Vol. XIII, p. 402.—One example, Colorado Desert.

Perigonica angulata *Smith*, Ent. Am., Vol. VI, p. 124.—Male and female, Sierra Nevada, Cal.

Perigrapha prima *Smith*, Trans. Am. Ent. Soc., Vol. XVIII, p. 119.—One female, Sierra Nevada, Cal.

Perigrapha plusiiformis *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. V, p. 267 (as *Stretchia plusiæformis*).—One male, Nevada.

Perigrapha inferior *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 477.—One male, Havilah, Cal.

Oncocnemis mirificalis *Grote*, Bull. U. S. Geol. Surv. (Hayden), Vol. V, p. 207.—One female, Nevada.

Oncocnemis simplex *Smith*, Insect Life, Vol. I, p. 20.—One example, Ashley Valley, Utah.

Aporophyla yosemite *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. I, p. 113 (as *Cucullia yosemite*).

Apamea lunata *Smith*, Trans. Am. Ent. Soc., Vol. XVIII, p. 110.—One example, Mt. Shasta District, Cal.

Tæniocampa pulchella *Harv.*, Can. Ent., Vol. VIII, p. 54.—One female, California.

Tæniocampa subterminata *Smith*, Proc. U. S. Nat. Mus., Vol. X, 476.—One female, New York.

Tæniocampa pectinata *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 475.—One male, Havilah, Cal.

Tæniocampa curtica *Smith*, Ent. Am., Vol. VI, p. 122.—Male and female, Sierra Nevada, Cal.

Orthodes irrorata *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 478.—One male, Washington.

Trichoclea edwardsii *Smith*, Proc. U. S. Nat. Mus., Vol. X, p. 460.—One male, California.

Lithophane carbonaria *Harv.*, Can. Ent., Vol. VIII, p. 55.—One female, California.

Lithophane contenta *Grote*, Can. Ent., Vol. XII, p. 216.—One example, California.

Lithophane oregonensis *Harv.*, Can. Ent., Vol. VIII, p. 55.—One female, Oregon.

Lithophane washingtonia *Grote*, Papilio, Vol. III, p. 74.—One male, Soda Springs, Mt. Shasta, Cal.

Lithophane gausapata *Grote*, Papilio, Vol. III, p. 77.—One example, Soda Springs, Mt. Shasta, Cal.

Cleophane eulepis *Grote*, Bull. Buff. Soc. Nat. Hist., Vol. III, p. 86.—One female, Oregon.

Deva morigera *Hy. Edw.*, Ent. Am., Vol. II, p. 169.—One female, Colorado.

Deva palligera *Grote*, Papilio, Vol. I, p. 35.—One specimen, Sierra Nevada, Cal.

Plusia celsa *Hy. Edw.*, Papilio, Vol. I, p. 101.—One female, Mt. Hood, Oregon.

Plusia californica var. *russea* *Hy. Edw.*, Ent. Am., Vol. II, p. 170.—Two females, Colorado and California.

Plusia vaccinii *Hy. Edw.*, Ent. Am., Vol. II, p. 170.—One female, Mt. Washington, New Hampshire.

Plusia howardi *Hy. Edw.*, Proc. Cal. Acad. Sc., March 5, 1877.—One example, Prescott, Arizona.

Plusia scapularis *Hy. Edw.*, Papilio, Vol. II, p. 127.—One example, Washington.

Pleroma obliquata *Smith*, Trans. Am. Ent. Soc., Vol. XVIII, p. 114.—One female, Sierra Nevada, Cal.

Anarta kelloggii *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 133. One female, Sierra Nevada, Cal.

Triocnemis saporis *Grote*, Papilio, Vol. I, p. 77.—One example, Southern California.

Euros proprius *Hy. Edw.*, Papilio, Vol. I, p. 19.—One female, Mt. Shasta District, Cal.

Melicleptria exalta *Hy. Edw.*, Papilio, Vol. IV, p. 124.—One male, San Antonio, Texas.

Melicleptria fasciata *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 134.—Two examples, Placer Co., California.

Melicleptria elaborata *Hy. Edw.*, Papilio, Vol. I, p. 21.—One example, Colorado.

Melicleptria belladonna *Hy. Edw.*, Papilio, Vol. I, p. 20.—One female, Southern Utah.

Melicleptria oregonica *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 135.—Three examples, Sierra Nevada, Cal. One example, Colorado.

Lygranthœcia walsinghami *Hy. Edw.*, Papilio, Vol. I, p. 20.—Male and female, Klamath Lake, Oregon.

Adonisea pulchripennis var. **languida** *Hy. Edw.*, Papilio, Vol. I, p. 20.—One male, Havilah, Cal.

Xanthothrix ranunculi *Hy. Edw.*, Proc. Cal. Acad. Sc., July 1, 1878.—Five examples, Havilah, Kern Co., Cal.

Xanthothrix neumœgeni *Hy. Edw.*, Papilio, Vol. I, p. 101.—Two specimens, Santa Barbara Co., Cal.

Tarache arizonæ *Hy. Edw.*, Proc. Cal. Acad. Sc., July 1, 1878 (as *Thalpochares arizonæ*).—Two examples, Prescott, Arizona.

Tarache sedata *Hy. Edw.*, Papilio, Vol. I, p. 23.—One specimen, Prescott, Arizona.

Annaphila superba *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 139.—Two specimens, Napa and Marin Co., Cal.

Annaphila domina *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 138.—One female, San Mateo Co., Cal.

Annaphila aurantiaca *Hy. Edw.*, Papilio, Vol. I, p. 23.—One example, Geysers, Cal.

Annaphila germana *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 138.—One female, Napa Co., Cal.

Annaphila salicis *Hy. Edw.*, Papilio, Vol. I, p. 23.—One example, Oregon.

Annaphila pustulata *Hy. Edw.*, Papilio, Vol. I, p. 23.—One female, Prescott, Arizona.

Annaphila lithosina *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 137.—One example, Havilah, Cal.

Tripudia opipara *Hy. Edw.*, Papilio, Vol. I, p. 117 (as *Oribates opiparus*).—One male, Texas.

Tripudia limbata *Hy. Edw.*, Papilio, Vol. I, p. 22 (as *Oribates limbatus*).—Two examples, Mazatlan, Mexico.

Gyros muirii *Hy. Edw.*, Papilio, Vol. I, p. 22 (as *Oribates muirii*).—Two specimens, Havilah, Cal.

Axenus arvalis var. **amplus** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 136.—Two examples, Klamath Lake, Oregon.

Axenus arvalis var. **ochraceus** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 136.—One female, San Diego, Cal.

Fruva acerba *Hy. Edw.*, Papilio, Vol. I, p. 24.—Two examples, Sonoma Co., Cal.

Fruva accepta *Hy. Edw.*, Papilio, Vol. I, p. 24.—Male and female, Tallahassee, Florida.

Fruva modesta *Hy. Edw.*, Papilio, Vol. IV, p. 124.—Two examples, California.

Fruva deleta *Hy. Edw.*, Papilio, Vol. IV, p. 124.—One male, Virginia City, Nevada.

Litocala sexsignata var. **deserta** *Hy. Edw.*, Papilio, Vol. I, p. 25.—Two males, two females, Colorado and Arizona.

Syneda sesposita *Hy. Edw.*, Papilio, Vol. I, p. 25.—One male, Southern Colorado.

Syneda faceta *Hy. Edw.*, Papilio, Vol. I, p. 119.—One male, Indian River, Florida.

Syneda mirifica *Hy. Edw.*, Proc. Cal. Acad. Sc., July 1, 1878.—Two examples, Virginia City, Nevada.

Syneda hastingsii *Hy. Edw.*, Proc. Cal. Acad. Sc., July 1, 1878.—One example, Dalles, Oregon.

Syneda hastingsii var. **perpallida** *Hy. Edw.*, Papilio, Vol. I, p. 25.—One female, Summit, Sierra Nevada, Cal.

Syneda saxeae *Hy. Edw.* (= *S. allenii*), Papilio, Vol. I, p. 26.—One specimen, Colorado.

Cirrhobolina tetrica *Hy. Edw.*, Proc. Cal. Acad. Sc., July 1, 1878.—One male, Sacramento, Cal.

Synedoida inepta *Hy. Edw.*, Papilio, Vol. I, p. 27.—One female, Southern Colorado.

Synedoida biformata *Hy. Edw.*, Proc. Cal. Acad. Sc., July 1, 1878.—Two males, Havilah, Kern Co., Cal.

Synedoida scrupulosa *Hy. Edw.*, Proc. Cal. Acad. Sc., July 1, 1878.—One male, two females, Havilah, Kern Co., Cal.

Synedoida morbosa *Hy. Edw.*, Papilio, Vol. I, p. 27.—Male and female, Southern Colorado. One male, Prescott, Arizona.

Synedoida sabulosa *Hy. Edw.*, Papilio, Vol. I, p. 26.—One female, Southern Colorado.

Catocala amica var. **nerissa** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 61.—One specimen, Southwestern Texas.

Catocala dulciola *Grote*, Papilio, Vol. I, p. 5.—One female, Dayton, Ohio.

Catocala badia var. **phoebe** *Hy. Edw.*, Papilio, Vol. IV, p. 125.—Two examples, New Hampshire.

Catocala neogama var. **snowiana** *Grote*, New Check List Noct., p. 41, 1876.—One female, Kansas.

Catocala andromache *Hy. Edw.*, Ent. Am., Vol. I, p. 50.—One male, San Bernardino, Cal.

Catocala fratercula var. **jacquenetta** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 60.—One female, Albany, New York.

Catocala fratercula var. **hero** *Hy. Edw.*, Papilio, Vol. IV, p. 125.—Two examples, Florida.

Catocala cordelia *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 59 (= *C. amasia*).—One male, Tallahassee, Florida.

Catocala ultronia var. **celia** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 58.—Four examples, Indian River, Florida.

Catocala ultronia var. **mopsa** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 57.—Two examples, Florida.

Catocala ultronia var. **adriana** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 57.—One example, New York.

Catocala verrillana var. **violenta** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 58 (as *C. violenta*).—One example, Southern Colorado.

Catocala stretchii var. **hippolyta** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 211 (as *C. hippolyta*).—One male, San Mateo Co., Cal.

Catocala cassandra *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 214.—One female, Guadalajara, Mexico.

Catocala stretchii var. **portia** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. II, p. 94 (as *C. portia*).—One male, Lake Tahoe, Cal.

Catocala jessica *Hy. Edw.*, Proc. Cal. Acad. Sc., January 15, 1877 (= *C. stretchii* Behr.).—Two examples, Havilah, Kern Co., Cal.

Catocala mariana *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 210.—One male, Vancouver Island.

Catocala mariana var. **francisca** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 57.—Two males, Humboldt Co., Cal.

Catocala hermia *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. II, p. 93.—One female, Colorado.

Catocala irene var. **virgilia** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 56.—Three males, one female, Mendocino Co., Cal.

Catocala irene var. **valeria** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 56.—One female, Arizona.

Catocala irene var. **volumnia** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 56.—One example, Mendocino Co., Cal.

Catocala elda *Behrens*, Can. Ent., Vol. XIX, p. 199.—One female, Portland, Oregon.

Catocala rosalia *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 55.—One example, Albany, N. Y.

Catocala miranda *Hy. Edw.*, Papilio, Vol. I, p. 118.—One male, Washington, D. C.

Catocala cara var. **silvia** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 57.

Catocala augusta *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 184.—One female, San Diego, Cal.

Catocala luciana *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 211.—Three examples, Colorado.

Catocala californica var. **cleopatra** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 209 (as *C. cleopatra*).—One male, Contra Costa Co., Cal.

Catocala californica var. **perdita** *Hy. Edw.*, Proc. Cal. Acad. Sc., Vol. VI, p. 211 (as *C. perdita*).—Two examples, San Mateo Co., Cal.

Catocala relictia var. **phrynia** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 54.—One male, Albany, N. Y.

Catocala relictia var. **bianca** *Hy. Edw.*, Bull. Brooklyn Ent. Soc., Vol. III, p. 54.—Male and female, Albany, N. Y.

Catocala lacrymosa var. **emilia** *Hy. Edw.*, Papilio, Vol. I, p. 117.—One female, Long Island, N. Y.

Catocala angusii *Gr.*, Can. Ent., Vol. VIII, p. 229.—One male, West Farms, New York City.

Catocala residua *Gr.*, Proc. Boston Soc. Nat. Hist., Vol. XVI, p. 242.—Male and female, West Farms, New York City.

Antiblemma guttula *Hy. Edw.*, Papilio, Vol. II, p. 129.—One example, Georgia.

Phoberia indiscreta *Hy. Edw.*, Ent. Am. Vol. II, p. 170.—One female, Havilah, Cal.

Pleonectyptera obliquialis *Hy. Edw.*, Ent. Am., Vol. II, p. 171.—One example, Texas.

Homoptera rubi *Hy. Edw.*, Papilio, Vol. I, p. 28.—Male and female, Havilah, Cal.

GEOMETRIDÆ.

Azelina australata *Hulst*, Ent. Am., Vol. I, p. 205.—One male, Indian River, Florida.

Tetracis mellitularia *Hulst*, Ent. Am., Vol. I, p. 202.—Two females, Sierra Nevada, Cal.

Anaploides festaria *Hulst*, Ent. Am., Vol. II, p. 121.—One male, San Francisco, Cal.

Geometra illustraria *Hulst*, Ent. Am., Vol. II, p. 121.—One female, California.

Eucrostis saltusaria *Hulst*, Ent. Am., Vol. II, p. 122.—One female, Indian River, Florida.

Eucrostis jaspidiaria *Hulst*, Ent. Am., Vol. II, p. 122.—One male, Indian River, Florida.

Acidalia 5-lineata var. **fuscata** *Hulst*, Ent. Am., Vol. II, p. 187.—One female, Summit, Sierra Co., Cal.

Marmopteryx annellata *Hulst*, Ent. Am., Vol. II, p. 191.—One female, Havilah, Cal.

Marmopteryx morrisata *Hulst*, Ent. Am., Vol. II, p. 190.—One female, Nevada.

Semiothisa umbriferata *Hulst*, Ent. Am., Vol. II, p. 189.—One male, California.

Halia tripunctaria *Pack.*, Proc. Boston Soc. Nat. Hist., Vol. XVI, p. 26.—One female, California.

Tephrosia carnearia *Hulst*, Ent. Am., Vol. III, p. 216.—Male and female, Havilah, Cal.

Tephrosia celataria *Hulst*, Ent. Am., Vol. III, p. 216.—One male, Havilah, Cal.

Tephrosia fautaria *Hulst*, Ent. Am., Vol. III, p. 216.—One female, California.

Boarmia furfuraria *Hulst*, Ent. Am., Vol. III, p. 214.—One male, California.

Boarmia plumogeraria *Hulst*, Ent. Am., Vol. III, p. 216.—One male, California.

Scotosia meadii *Pack.*, Sixth Rep. Peab. Acad. Sc., p. 41 (as *Scotosia meadii*).—One female, Colorado.

Lobophora montanata *Pack.*, Sixth Rep. Peab. Acad. Sc., p. 40.—One example, Colorado.

Cidaria nocticolata *Hulst*, Bull. Brooklyn Ent. Soc., Vol. IV, p. 26.—One female, Colorado.

Cidaria opacaria *Hulst*, Bull. Brooklyn Ent. Soc., Vol. IV, p. 27.—One male, Colorado.

Phrygonis auriferaria *Hulst*, Ent. Am., Vol. II, p. 188.—One example, Florida.

Hemerophila packardaria *Hulst*, Ent. Am., Vol. III, p. 217.—One male, California.

Aspilates behrensaria *Hulst*, Ent. Am., Vol. II, p. 210.—One male, Knight Valley, Cal.

Eois ferrugata var. ***russata*** *Hulst*, Ent. Am., Vol. II, p. 187.—One male, New York.

Cleoria punctomacularia *Hulst*, Ent. Am., Vol. III, p. 214.—One male, Vancouver Island.

Triphosa dubitata var. **pustularia** *Hy. Edw.*, Ent. Am., Vol. I, p. 50.—One female, Soda Springs, Cal.

Triphosa badiaria *Hy. Edw.*, Ent. Am., Vol. I, p. 50.—One female, Shasta Co., Cal.

Caterva elegantaria *Hy. Edw.*, Papilio, Vol. I, p. 121.—Male and female, Prescott, Arizona.

Gorytodes personaria *Hy. Edw.*, Papilio, Vol. I, p. 120.—One male, Sierra Nevada, Cal.

PYRALIDÆ.

Prorasea lepidalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 146.—One male, Colorado.

Prorasea brunneogrisea *Hy. Edw.*, Ent. Am., Vol. II, p. 171.—One male, Prescott, Arizona.

Aglossa electalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 146.—One example, Arizona.

Chalcœla gemmalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 148.—One example, Sierra Nevada, Cal.

Emprepes magnalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 147.—One female, Arizona.

Botys uxorcualis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 153.—One example, Sierra Nevada, Cal.

Botys bellulalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 149.—One example, Texas.

Botys psychicalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 149.—One example, Texas.

Botys roseopennalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 148.—One example, Arizona.

Botys pergivalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 151.—One female, Arizona.

Botys fumoferalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 154.—One female, Sierra Nevada, Cal.

Botys monulalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 154.—One female, Sierra Nevada, Cal.

Botys thalophilalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 154.—One female, California.

Botys scurralis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 155.—One female, Arizona.

Botys festalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 153.—One female, Prescott, Arizona.

Botys lulualis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 150.—One female, Soda Springs, Cal.

Botys succandidalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 153.—One example, Texas.

Botys octosignalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 153.—One example, California.

Botys levalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 152.—One specimen, Florida.

Botys penitalis *Grote*, Can. Ent., Vol. VIII, p. 98.—One female, Kansas.

Botys unifascialis *Pack.*, Ann. Lyc. Nat. Hist., N. Y., Vol. X, p. 261.—One example, California.

Eurycreon aureolalus *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 156.—One female, Colorado.

Orobena reluctalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 156.—One example, Arizona.

Glyphodes alitalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 157.—One example, Indian River, Florida.

Metrea ostreonalis *Grote*, Papilio, Vol. II, p. 73.—One female, Connecticut.

Metrea argentalis *Hy. Edw.*, Papilio, Vol. IV, p. 19.—One example, Jalapa, Mexico.

Hydrocampa gyalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 159.—One example, Georgia.

Tetralophus atrifascialis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 73.—One example, Indian River, Florida.

Nephoteryx lallatalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 161.—One example, Florida.

Nephoteryx bifasciella *Hulst*, Ent. Am., Vol. III, p. 132.—One example, Arizona.

Megaphycis edwardsialis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 163.—One female, Nevada.

Acrobasis alatella *Hulst*, Ent. Am., Vol. III, p. 135.—One example, Napa Co., Cal.

Acrobasis hystriculella *Hulst*, Ent. Am., Vol. III, p. 135.—One female, Texas.

Spermatophthora montinatatella *Hulst*, Ent. Am., Vol. III, p. 134.—One example, Sierra Nevada, Cal.

Mylois zelatella *Hulst*, Ent. Am., Vol. III, p. 136.—One example, New York.

Mylois aliculella *Hulst*, Ent. Am., Vol. III, p. 135.—Male and female, Arizona.

Stenoptycha pallulella *Hulst*, Ent. Am., Vol. III, p. 137.—One example, North Carolina.

Ephestia opalescella *Hulst*, Ent. Am., Vol. III, p. 138.—One example, California.

Anerastia electella *Hulst*, Ent. Am., Vol. III, p. 137.—One male, Texas.

Crambus biothanatalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 166.—One example, California.

Crambus comptulatalis *Hulst*, Trans. Am. Ent. Soc., Vol. XIII, p. 167.—One example, Vancouver Island.

PTEROPHORIDÆ.

Lioptilis grandis *Fish*, Can. Ent., Vol. XIII, p. 141.—One example, California.

Ædemataphorus gratiosa *Fish*, Can. Ent., Vol. XIII, p. 73.—One male, Sierra Nevada, Cal.

Ædemataphorus lugubris *Fish*, Can. Ent., Vol. XIII, p. 140.—One female, California.

Platyptilis edwardsii *Fish*, Can. Ent., Vol. XIII, p. 72.—Male and female, Boston, Mass.