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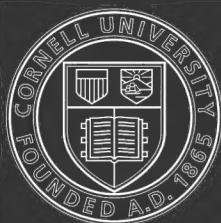
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U. S. DEPARTMENT OF AGRICULTURE.

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CATALOGUE OF PUBLICATIONS

RELATING TO

ENTOMOLOGY

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## LETTER OF TRANSMITTAL.

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U. S. DEPARTMENT OF AGRICULTURE,  
LIBRARY,

*Washington, D. C., June 19, 1905.*

SIR: I have the honor to transmit herewith and to recommend for publication as Bulletin No. 55 of the Library of the Department a manuscript entitled "Catalogue of Publications relating to Entomology in the Library of the U. S. Department of Agriculture." The collection herein catalogued numbers 5,600 titles. Separates from entomological periodicals have not been included. This bulletin is the third contribution toward a subject catalogue of the Library.

Respectfully,

J. A. CLARK,  
*Librarian.*

Hon. JAMES WILSON,  
*Secretary of Agriculture.*

General entomology .....	8	Arctic regions .....	142
Textbooks .....	18	Asia .....	143
Popular entomology .....	20	Australasia .....	143
Geographical distribution .....	21	Europe .....	144
Nomenclature .....	22	Oceanica .....	149
Aquatic insects .....	22	Hymenoptera:	
Cave insects .....	23	Bibliography .....	150
Medical entomology .....	23	General .....	150
Fossil insects. Bibliography .....	24	Fauna:	
Fossil insects .....	24	United States .....	153
Galls (Cecidiæ) .....	29	Foreign .....	154
Insects and flowers .....	31	Families .....	160
Carnivorous plants .....	33	Coleoptera:	
Caprification .....	34	Bibliography .....	182
Birds and insects .....	34	General .....	182
Entomogenous fungi .....	35	Fauna:	
Anatomy and physiology .....	38	United States .....	187
Habits and psychology .....	46	Foreign .....	191
Mimicry and cryptic resemblances .....	47	Families .....	203
Entomotaxy .....	48	Diptera:	
Biography of entomologists .....	50	Bibliography .....	238
Miscellaneous .....	53	General .....	238
Entomology, economic:		Fauna:	
American .....	55	United States .....	243
Foreign .....	63	Foreign .....	244
Insecticides .....	74	Families .....	249
Legislation .....	79	Siphonaptera .....	275
Parasitic insects .....	79	Orthoptera:	
Special crops .....	81	General .....	276
		Fauna:	

Hemiptera:	Page.	Myriapoda:	Page.
General.....	362	General.....	441
Fauna:		Fauna:	
United States .....	365	United States .....	442
Foreign.....	365	Foreign.....	443
Families .....	368	Families .....	444
Neuroptera:		Arachnida:	
General.....	424	General.....	448
Fauna:		Fauna:	
United States .....	425	United States .....	449
Foreign.....	425	Foreign.....	450
Families .....	427	Families .....	451
Mallophaga .....	438	Serial publications.....	474
Thysanura .....	439	Index of families .....	489
Collembola .....	440	Author index .....	493

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## BIBLIOGRAPHY.

**Banks, Nathan.** Bibliography of the more important contributions to American economic entomology. Part 6-8. The more important writings published between June 30, 1888, and January 1, 1905. Washington, 1898-1905.

3 pts. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. [Publication])

Earlier parts completed by Samuel Henshaw.

**Banks, Nathan.** List of works on North American entomology. Washington, 1900.

95 pp. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 24)

**Bethune, Charles James Stewart.** . . . Bibliography of Canadian entomology for the year 1900-03. Toronto, 1901-04.

4 nos. 25<sup>cm</sup>.

From the Transactions of the Royal society of Canada. 2d series—1901-1902, vol. VII, section IV; 1902-1903, vol. VIII, section IV; 1903-1904, vol. IX, section IV; 1904-1905, vol. X, section IV.

**Daday, Jenő.** A magyar állattani irodalom ismertetése 1881<sup>ől</sup> 1890<sup>ig</sup> bezárólag tekintettel a külföldi állattani irodalom magyar vonatkozású termékeire is. Összeállította Dr. Daday Jenő. . . . Budapest, Kiadja a Kir. Magyar természettudományi társulat, 1891.

vii, 307 p. . 26<sup>cm</sup>.

**Dimmock, George.** The writings of Samuel Hubbard Scudder. Comp. and ed. by George Dimmock. Cambridge, Mass., Published by the editor, 1879.

28 p. 24<sup>cm</sup>. (Dimmock's special bibliography, no. 3)

**Durrant, John Hartley.** List, with references, of Lord Walsingham's separata in the library of Nat. Mus. Washington. [n. p., 1899?]

1 p. l., 8 numb. l. 20<sup>cm</sup>.

Manuscript.

**Forbes, Stephen Alfred.** . . . An analytical list of the entomological writings of Wm. Le Baron, M. D., second state entomologist of Illinois. 1850-1874. [Springfield, Ill., 1891]

36 p. front. (port.) 22<sup>cm</sup>. (Appendix to the Seventeenth report of the State entomologist of Illinois)

**Glover, Townend.** Manuscript notes from my journal, or, Entomological index, to names, &c., in agricultural reports, with list of vegetable and animal substances injured or destroyed by insects, &c. . . . Washington, Written by Townend Glover; transferred to and printed from stone by J. C. Entwisle, 1877.

Agr 3—1253

1 p. l., 103 l. 30<sup>cm</sup>.

**Hagen, Hermann August.** *Bibliotheca entomologica. Die litteratur über das ganze gebiet der entomologie, bis zum jahre 1862.* Von Dr. Hermann August Hagen . . . Leipzig, W. Engelmann, 1862-63. 2—19247

2 v. 23 $\frac{1}{2}$ cm.

Alphabetical by authors, with a classified subject index.

Additions and corrections: Kraatz, G. *Ergänzungen und nachträge zu Hagen's Bibliotheca entomologica.* 1. stück. (*In Berliner entomologische zeitschrift*, 1874, 18. jahrg., p. 209-226) Schmidt-Göbel, N. H. (*In Deutsche entomologische zeitschrift*, 1876, 20. jahrg., p. 145-160) Dalla Torre, K. W. von. *Addenda und corrigenda* III. (*In Entomologische nachrichten*, 1881, 7. jahrg., p. 45-48, 163-170)

**Henshaw, Samuel.** *Bibliography of the more important contributions to American economic entomology. Part 1-5.* Washington, 1890-96.

5 pts. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. [Publication])

CONTENTS.—pt. 1-3. The more important writings of Benjamin Dann Walsh and Charles Valentine Riley.—pt. 4-5. The more important writings of government and state entomologists, and of other contributors to the literature of American economic entomology.

Later parts comp. by Nathan Banks.

**Henshaw, Samuel.** *Entomological writings of Dr. Alpheus Spring Packard.* Washington, 1887.

49 pp. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 16)

**Henshaw, Samuel.** . . . *The entomological writings of George H. Horn.* Comp. by Samuel Henshaw. Ed. by George Dimmock. Cambridge, Mass., Published by the editor, 1879.

1 p. l., 6 p. 24 $\frac{1}{2}$ cm. (Dimmock's special bibliography, no. 2)

**Henshaw, Samuel.** . . . *The entomological writings of John L. Le Conte.* Comp. by Samuel Henshaw. Ed. by George Dimmock. Cambridge, Mass., Published by the editor, 1878.

1 p. l., 11 p. 24 $\frac{1}{2}$ cm. (Dimmock's special bibliography, no. 1)

**Janet, Charles.** *Notice sur les travaux scientifiques présentés par M. Charles Janet à l'Académie des sciences au concours de 1896 pour le prix Thore.* [Lille, 1897?]

94 p. illus. 24 $\frac{1}{2}$ cm.

**List of publications by instructors and students in the Entomological laboratory, Leland Stanford junior university, from May, 1894, to May, 1901.** [Stanford university, 1901]

[7] p. 20 $\frac{1}{2}$ cm.

Caption title.

**London, Entomological society of—Library.** *Catalogue of the Library of the Entomological society of London.* Ed. by G. C. Champion . . . assisted by R. McLachlan, F. R. S., and D. Sharp, F. R. S. London, Printed for the Society by Simmons and Botten, 1893.

2 p. l., 312 p. 23cm.

— — *Supplementary catalogue . . .* Ed. by G. C. Champion . . . assisted by W. F. H. Blandford, F. Z. S., and R. McLachlan, F. R. S. London, Printed for the Society by R. Clay and sons, 1900.

2 p. l., 147 p. 23cm.

**Notice sur les travaux scientifiques de M. Paul Marchal, né à Paris le 27 septembre 1862 . . .** Paris, Typographie Firmin-Didot et cie [1899]

50, [1] p. illus. 27 $\frac{1}{2}$ cm.

**Osten Sacken, Karl Robert Romanovich, baron von.** *Verzeichniss der entomologischen schriften von Camillo Rondani (als nachtrag und fortsetzung zu dem betreffenden artikel in H. A. Hagen's Bibliotheca entomologica) . . .* [Wien, 1881]

8 p. 22cm.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1881> besonders abgedruckt [p. 337-344]

— — *Berichtigungen und zusätze.* [Wien, 1884]

2 p. 22cm.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1884> besonders abgedruckt [p. 117-118]

**Osten Sacken, Karl Robert Romanovich, baron von.** Verzeichniss der entomologischen schriften von Hermann Löw. (Als nachtrag und fortsetzung des betreffenden artikels in H. A. Hagen's Bibliotheca entomologica) . . . [Wien, 1884] 10 p. 22 $\frac{1}{2}$ <sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1884> besonders abgedruckt [p. 455-464]

**Percheron, Achille Remy.** Bibliographie entomologique, comprenant l'indication par ordre alphabétique de noms d'auteurs: 1° des ouvrages entomologiques publiés en France et à l'étranger, depuis les temps les plus reculés jusques et y compris l'année 1834; 2° des monographies et mémoires contenus dans les recueils, journaux et collections académiques françaises et étrangères; accompagnée de notices sur les ouvrages périodiques, les dictionnaires et les mémoires des sociétés savantes; suivie d'une table méthodique et chronologique des matières; par A. Percheron . . . Paris, J.-B. Baillière, 1837. 4—16814  
2 v. 21 $\frac{1}{2}$ <sup>em</sup>.

The principal writings of Dr. Charles Valentine Riley . . . [n. p., 1893?] 9 p. 22 $\frac{1}{2}$ <sup>em</sup>.

**Scudder, Samuel Hubbard.** . . . The entomological libraries of the United States. By Samuel Hubbard Scudder . . . Republished from the Bulletin of the library of Harvard university, number 14. [Jan. 1880] Cambridge, Mass., University press: J. Wilson and son, 1880. 2—21318  
cover-title, 6 p. 25<sup>em</sup>. (Harvard university. Library. Bibliographical contributions, no. 11)

**Tepper, J. Gottlieb Otto.** List of principal papers, &c. By J. G. O. Tepper . . . [Adelaide, Vardon & Pritchard, printers, 1894?] 4 p. 22<sup>em</sup>.

**United States—Dept. of agriculture—Division of entomology.** Enumeration of the published synopses, catalogues, and lists of North American insects; together with other information intended to assist the student of American entomology. Washington, 1888.

77 p. 23<sup>em</sup>. (*Its Bulletin* 19)

**Van Duzee, Edward P.** Entomological writings by E. P. Van Duzee. [n. p., n. d.]

3 l. 21 x 16 $\frac{1}{2}$ <sup>em</sup>.

Typewritten list of works.

**Yves, Aimé.** Notice sur les ouvrages scientifiques de M. Ernest Olivier . . . par MM. Yves et Francis Pérot. Montluçon, Imprimerie du "Centre médical," 1896.

8 p. 25<sup>em</sup>.

## DICTIONARIES.

**Brooklyn entomological society.** Explanation of terms used in entomology . . . Brooklyn, N. Y., 1883.

1 p. l., 37, [1] p. 22<sup>em</sup>.

From the Bulletin of the Brooklyn entomological society.

**Encyclopédie méthodique.** Histoire naturelle. Tome 4[-10] Insectes. Paris, Panckoucke; [etc., etc.] 1789-1825 [1828]

7 v. in 15. 27<sup>em</sup>. and atlas of 397 (*i. e.* 398) pl. (1 double) 30<sup>em</sup>.

Plates, accompanied by 142, 83 p. of explanatory text, bound in 4 v.

For further particulars of publication, etc., see Catalogue of the British museum (natural history), p. 527.

CONTENTS.—4 (tome 1 of Insectes). Discours préliminaire et plan du dictionnaire des insectes, par M. Mauduyt. Introduction [and A-Bom], par M. Olivier. 1789.—5-8. Bom-Pap, par M. Olivier. 1790-1811 [1812].—9. Papillon, par M. Latreille et M. Godart. 1819[-24].—10. Pap-Z, par MM. Latreille, Le Peletier de Saint-Fargeau, Serville et Guérin. 1825[-28]

**Müller, Julius.** Terminologia entomologica. Ein handbuch sowohl für den angehenden entomologen als auch für den fachmann. Nach dem neuesten standpunkte dieser wissenschaft bearb. von Julius Müller . . . 2. aufl. Brünn, C. Winkler, 1872.

vi, 306 p. 33 pl. (1 col.) 19<sup>cm</sup>.

### GENERAL ENTOMOLOGY.

**Aldrovandus, Ulysses.** De animalibus insectis libri septem, cum singulorum iconibus ad vivum expressis. Autore Ulysses Aldrovando . . . Cum indice copiosissimo . . . Bonon., apud I. B. Bellagambam, 1602.

5 p. l., 767, 43 p. illus., 1 port. 35<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

Engr. t.-p.

**Boitard, Pierre.** Manuel d'entomologie, ou Histoire naturelle des insectes, contenant la synonymie et la description de la plus grande partie des espèces d'Europe et des espèces exotiques les plus remarquables; par M. Boitard . . . Paris, Roret, 1828.

Agr 4—200

2 v. 14<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

**Bouché, Peter Friedrich.** Beiträge zur insectenkunde, von P. Fr. Bouché. (Bei der Akademie eingegangen im november und december 1833). . . [Halle, 1835?]

16 p. 30<sup>cm</sup>.

Acta Acad. Cæs. Leop. Carol. nat. cur. vol. XVII. P. I.

**Bouvier, Eugène Louis.** Instructions pour la recherche des animaux articulés, par MM. E.-L. Bouvier & Ch. Brongniart. (Leçons faites au Muséum d'histoire naturelle) Autun, 1896.

2 p. l., 63 p. illus. 25<sup>cm</sup>.

"Extrait du Bulletin de la Société d'histoire naturelle d'Autun, t. 9 (année 1896)"

CONTENTS.—Introduction.—1. ptie. Myriapodes, arachnides et crustacés.—2. ptie. Insectes.

**Brauer, Friedrich.** Systematisch-zoologische studien . . . [Wien, 1885]

cover-title, 177 p. col. pl. 24<sup>cm</sup>.

Aus dem xci. bande der Sitzb. der Kais. Akad. der wissensch. I. abth. Mai-heft. Jahrgang 1885.

Bibliography: p. 143-147.

CONTENTS.—1. System und stammbaum.—2. Die unvermittelten reihen in der classe der insecten.—3. Betrachtungen über täuschende und wahre systematische ähnlichkeiten zur beurtheilung der stellung der apioceriden und pupiparen und über den werth der alten und neuen eintheilung der dipteren.

**Brehm, Alfred Edmund.** . . . Merveilles de la nature. Les insectes, les myriopodes, les arachnides et les crustacés. Éd. française, par J. Künckel d'Hercule . . . Paris, J.-B. Baillièrre et fils [pref. 1882]

Agr 3—1244

2 v. illus., xxxvi pl. 29<sup>1</sup>/<sub>4</sub><sup>cm</sup>. (Les merveilles de la nature, l'homme et les animaux, par A. E. Brehm [v. 7-8])

[Vol. 2] has title: . . . Merveilles de la nature; Les insectes, les myriopodes, les arachnides.

**Buonanni, Filippo.** Observationes circa viventia, que in rebus non viventibus reperiuntur. Cum micrographia curiosa sive rerum minutissimarum observationibus, quæ ope microscopij recognitæ ad vivum exprimuntur. His accesserunt aliquot animalium testaceorum icones non aucta in lucem editæ. Omnia curiosorum naturæ exploratorum utilitati et iucunditati expressa et oblata . . . a patre Philippo Bonanni . . . Romæ, sumptibus F. A. Galleri [etc.] 1699.

xx, 342 p., 1 l., 106 p., 1 l. front., 59 pl. (partly fold.) 23<sup>cm</sup>.

**Burmeister, Hermann Carl Conrad.** De insectorum systemate naturali. Halis Saxonum, Typis Grunertorum patris filiique [1829]

Agr 3—148

2 p. l., 40, [3] p. fold. tab. 19<sup>cm</sup>.

Inaug.-dis.—Halle.



**Burmeister, Hermann Carl Conrad.** Genera quædam insectorum. Iconibus illustravit et descripsit Hermannus Burmeister . . . Vol. 1 . . . Berolini, sumptibus A. Burmeister, 1838-46.

unp. 40 pl. (partly col.) 23<sup>cm</sup>.

No more published.

Issued in 7 parts. Title-page published with part 1-2 reads: Genera insectorum. Iconibus illustravit et descripsit Hermannus Burmeister . . . Vol. I. Rhynchota. Berolini, Burmeister et Stange, 1838.

**Burmeister, Hermann Carl Conrad.** Handbuch der entomologie, von Hermann Burmeister. Berlin, G. Reimer, 1832-55. Agr 3-1130

5 v. in 8. 4 fold tab. 21<sup>cm</sup> and atlas of 22, 4 p., 20 pl. (5 col.) 25<sup>cm</sup>.

Vol. 2-5 pub. by C. F. Enslin.

CONTENTS.—1. *bd.* Allgemeine entomologie. 1832.—2. *bd.* Besondere entomologie. 1. abth. Schnabelkerfe. Rhynchota. 1835.—2. abth. Kaukerfe. Gymnognatha. (1. hälfte; vulgo Orthoptera.) 1838.—3. abth. Kaukerfe. Gymnognatha. (2. hälfte; vulgo Neuroptera.) 1839.—3. *bd.* Besondere entomologie, fortsetzung. Coleoptera Lamellicornia Melitophila. 1842.—4. *bd.* Besondere entomologie, fortsetzung. 1. abth. Coleoptera Lamellicornia Anthobia et Phyllophaga Systelochela. 1844. 2. abth. Coleoptera, Lamellicornia Phyllophaga Chænochela. 1855.—5. *bd.* Besondere entomologie, fortsetzung. Coleoptera Lamellicornia Xylophila et Pectinicornia. 1847.

**Castelnau, Francis L. de Laporte, comte de.** Études entomologiques, ou Description d'insectes nouveaux, et observations sur la synonymie; par F. L. de Laporte, comte de Castelnau . . . 1. partie. Carnassiers. Paris, Méquignon-Marvis père et fils, 1835. Agr 3-149

1 p. l., 159 p. 4 col. pl. 21<sup>cm</sup>.

**Castelnau, Francis L. de Laporte, comte de.** Histoire naturelle des insectes coléoptères, par M. le comte de Castelnau . . . avec une introduction renfermant l'anatomie et la physiologie des animaux articulés, par M. Brullé . . . Paris, P. Duménil, 1840.

3 v. plates. 21<sup>cm</sup>. (*Half-title:* Histoire naturelle des animaux articulés, annélides, crustacés, arachnides, myriapodes et insectes.)

Vol. 3 has title: Histoire naturelle des insectes, orthoptères, névroptères, hémiptères, hyménoptères, lépidoptères et diptères, par M. Émile Blanchard . . .

**Charpentier, Toussaint de.** Horæ entomologicæ, adjectis tabulis, novem coloratis, auctore Toussaint de Charpentier . . . Wratislaviæ, Apud A. Gosohorsky, 1825.

xvi, 255 p., 3 l. ix pl. (partly col.) 28<sup>cm</sup>.

"Notanda": p. [vii]-xi.

**Dallas, William Sweetland.** Elements of entomology: an outline of the natural history and classification of British insects. By William S. Dallas, F. L. S. London, J. van Voorst, 1857. Agr 4-957

vi p., 1 l., 424 p. illus. 20<sup>cm</sup>.

**Dalman, Johann Wilhelm.** Analecta entomologica, auctore Joh. Wilh. Dalman . . . Holmiæ, typis Lindhianis, 1823.

1 p. l., vii, 104; [4] p. iv pl. 26<sup>cm</sup>.

**Dalman, Johann Wilhelm.** . . . Ephemeridæ entomologicae. i. Holmiæ, typis P. A. Norstedt, 1824.

2 p. l., 36 p. 22<sup>cm</sup>.

**Drury, Dru.** Illustrations of exotic entomology, containing upwards of six hundred and fifty figures and descriptions of foreign insects, interspersed with remarks and reflections on their nature and properties. By Dru Drury. A new ed. brought down to the present state of the science, with the systematic characters of each species, synonyms, indexes, and other additional matter. By J. O. Westwood . . . London, H. G. Bohn, 1837. Agr 3-333

3 v. in 1. 29<sup>cm</sup> and atlas of L (*i. e.* 51) pl. (50 col.) 32<sup>cm</sup>.

**Duméril, André Marie Constant.** Considérations générales sur la classe des insectes. Par André-Marie-Constant Duméril . . . Paris, F. G. Levrault, 1823.

xii, 272 p. 60 col. pl. 22<sup>cm</sup>.

**Duméril, André Marie Constant.** Entomologie analytique. Histoire générale, classification naturelle et méthodique des insectes à l'aide de tableaux synoptiques, par A.-M.-C. Duméril . . . Paris, Typographie de F. Didot frères fils et c<sup>ie</sup>, 1860.

2 v. illus., fold. tab. 27½<sup>cm</sup>.

Agr 4—342

Paged continuously; v. 1: 2 p. 1., xxii, 664 p.; v. 2: 2 p. 1., [665]—1339 p.

Extrait des Mémoires de l'Académie des sciences, t. xxxi.

**Duméril, André Marie Constant.** Exposition d'une méthode naturelle pour l'étude et la classification des insectes, présentée à la Société philomatique le 3 brumaire an 9; par C. Duméril . . . [Paris, 1801]

Agr 4—272

1 p. 1., 20 p. tables. 21½<sup>cm</sup>.

**Duncan, James.** . . . Entomology. Introduction to entomology. By James Duncan . . . London, H. G. Bohn, 1860.

Agr 3—47

4 p. 1., [17]—331 p. front. (port.) illus., 35 (*i. e.* 36) pl. (partly col.) 17½<sup>cm</sup>. (The naturalist's library.

Ed. by Sir William Jardine . . . [Reprint] vol. xxviii)

Engr. half t.-p.

Reprint of his Introduction to entomology. 1840.

"Memoir of Swammerdam": p. [17]—58.

"Memoir of de Geer": p. 59—66.

**Duncan, James.** Introduction to entomology. Comprehending a general view of the metamorphoses, external structure, anatomy, physiology, and systematic arrangement of the class insects. Illustrated by thirty-eight coloured plates, with memoirs of Swammerdam and de Geer. By James Duncan, M. W. S. Edinburgh, W. H. Lizars; [etc., etc.] 1840.

Agr 3—48

xv, [1], [17]—331. front. (port.) illus., 35 (*i. e.* 36) pl. (partly col.) 18<sup>cm</sup>. (The naturalist's library.

Conducted by Sir William Jardine . . . [Entomology] vol. 1)

Engr. half t.-p.

**Eiselt, Johann Nepomuk.** Geschichte, systematik und literatur der insectenkunde, von den ältesten zeiten bis auf die gegenwart. Als handbuch für den jünger und als repertorium für den meister der entomologie bearbeitet von M. Dr. Johann Nep. Eiselt . . . Leipzig, Bei C. H. F. Hartmann, 1836.

Agr 3—157

viii, 255 p. 3 fold. diagr. 21<sup>cm</sup>.

**Erichson, Wilhelm Ferdinand.** Entomographien, untersuchungen in dem gebiete der entomologie, mit besonderer benutzung der königl. sammlung zu Berlin, von W. F. Erichson . . . 1. heft. Berlin, F. H. Morin, 1840.

Agr 3—158

x p., 1 l., 180 p. 11 pl. (1 col.) 21<sup>cm</sup>.

**Eschscholtz, Johann Friedrich.** Entomographien. Von J. Friedrich Eschscholtz . . . 1. lieferung. Berlin, G. Reimer, 1822.

128, iii p. 11 col. pl. 23½<sup>cm</sup>.

**Fabricius, Johan Christian.** . . . Entomologia systematica emendata et aucta, secundum classes, ordines, genera, species, adjectis synonymis, locis, observationibus descriptionibus . . . Hafniae, impensis C. G. Proft, 1792—94.

4—6287—90

4 v. in 5. 21<sup>cm</sup>.

Vol. 3—4: Impensis C. G. Proft, fil. et soc.

Vol. 3 is in two parts.

— Index alphabeticus in J. C. Fabricii Entomologiam . . . Hafniae, apud Proft et Storch, 1796.

175 p. 21<sup>cm</sup>. [With his Supplementum Entomologiae systematicae. Hafniae, 1798]

4—6287—90

— . . . Supplementum Entomologiae systematicae. Hafniae, apud Proft et Storch, 1798.

2 p. 1., 572 p. 21<sup>cm</sup>.

4—6287—90

— Index alphabeticus in J. C. Fabricii Supplementum Entomologiae systematicae . . . Hafniae, apud Proft et Storch, 1799.

52 p., 1 l. 21<sup>cm</sup>. [With his Supplementum Entomologiae systematicae. Hafniae, 1798]

4—6287—90

**Fabricius, Johan Christian.** Ioh. Christ. Fabricii . . . Genera insectorum eorumque characteres naturales secundum numerum, figuram, situm et proportionem omnium partium oris, adiecta mantissa specierum nuper detectarum. Chilonii, Litteris M. F. Bartschii [1776]

8 p. l., 310 p. 19 $\frac{1}{2}$ em.

Agr 4—37

**Fabricius, Johan Christian.** Ioh: Christ. Fabricii . . . Mantissa insectorum sistens eorum species nuper detectas adiectis characteribus genericis, differentiis specificis, emendationibus, observationibus. Hafniae, Impensis C. G. Proft, 1787.

2 v. 20 $\frac{1}{2}$ em.

**Fabricius, Johan Christian.** Ioh. Christ. Fabricii . . . Philosophia entomologica sistens scientiae fundamenta adiectis definitionibus, exemplis, observationibus, adumbrationibus. Hamburgi et Kilonii, Impensis C. E. Bohnii, 1778.

7 p. l., 178 p. 20em.

"Bibliotheca": p. [1]-17.

**Fabricius, Johan Christian.** Ioh. Christ. Fabricii . . . Species insectorum, exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin, adiectis observationibus, descriptionibus . . . Hamburgi et Kilonii, Impensis C. E. Bohnii, 1781.

2 v. 21em.

Agr 3—1250

**Fabricius, Johan Christian.** Io. Christ. Fabricii . . . Systema entomologiae, sistens insectorum classes, ordines, genera, species, adiectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiae, In officina libraria Kortii, 1775.

16 p. l., 832 p. 20em.

Bound in 2 v.

Agr 3—1180

**Fernald, Henry Torsey.** The relationships of arthropods, by H. T. Fernald . . . Baltimore, Press of I. Friedenwald, 1890.

[431]-513 p. XLVIII-L fold. pl. 23 $\frac{1}{2}$ em.

Thesis (Ph. D.)—Johns Hopkins University.

"Bibliography": p. 501-508.

"Reprinted from Studies from the Biological laboratory, Johns Hopkins University, vol. iv, no. 7."

**Geer, Carl de.** Caroli lib. bar. de Geer . . . Genera et species insectorvm e generosissimi avtoris scriptis extraxit, digessit, latine qvoad partem reddidit, et terminologiam insectorvm Linneanam addidit Anders Iahan Retzivs . . . Lipsiae, apvd S. L. Crvsivm, 1783.

2 p. l., vi, [7]-220, 32 p. 19 $\frac{1}{2}$ em.

Agr 5—152

**Geer, Carl de.** Mémoires pour servir à l'histoire des insectes. Par Charles de Geer . . . Stockholm, De l'imprimerie de L. L. Grefing, 1752-78.

7 v. in 8. plates. 25 $\frac{1}{2}$ em.

Vol. 2-7: De l'imprimerie de P. Hesselberg.

**Geoffroy, Étienne Louis.** Histoire abrégée des insectes, dans laquelle ces animaux sont rangés suivant un ordre méthodique; nouvelle éd., rev., corrigée, & augm. d'un supplément considérable, par M. Geoffroy . . . Paris, C. Volland [etc.], an VII de la République Française [1799]

2 v. xxii pl., fold. tab. 24 $\frac{1}{2}$ em.

Agr 4—207

**Guérin-Ménéville, Félix Édouard.** . . . Crustacés, arachnides et insectes, par F. C. Guérin Ménéville. [Paris, A. Bertrand, 1830]

2 p. l., xii, 9-319 p. 31em. and atlas of 27 col. pl. 49 $\frac{1}{2}$ em. (Voyage autour du monde, exécuté par ordre du roi, sur la corvette de Sa Majesté, La Coquille, pendant les années 1822, 1823, 1824 et 1825 . . . et publié . . . par M. L. I. Duperrey . . . Zoologie, par M. Lesson. Tome 2. 2. partie. 1. division)

**Guérin-Ménéville, Félix Édouard.** Genera des insectes, ou, Exposition détaillée de tous les caractères propres à chacun des genres de cette classe d'animaux; par E. Guérin et A. Percheron. 1<sup>re</sup> série. Ordres et familles. Paris, Méquignon-Marvis père et fils; [etc., etc.], 1835-38.

unp. 60 col. pl. 25em.

Published in 6 livraisons.

**Guérin-Méneville, Félix Édouard.** Iconographie du règne animal de G. Cuvier, ou, Représentation d'après nature de l'une des espèces les plus remarquables, et souvent non encore figurées, de chaque genre d'animaux. Avec un texte descriptif mis au courant de la science. Ouvrage pouvant servir d'atlas à tous les traités de zoologie, Par M. F. E. Guérin Méneville. . . Insectes. Paris, Londres, J. B. Baillière, 1829-1838 [1844].

[3]-576 p. front. (port.) 104 col. pl. 23<sup>em</sup>.

**Herbst, Johann Friedrich Wilhelm.** Kurze einleitung zur kenntniß der insekten, für ungeübte und anfänger. Berlin und Stralsund, G. A. Lange, 1784-87. 3 v. col. plates. 23<sup>em</sup>.

Added col. t.-p. in each v.: Natürliche abbildung der merkwürdigsten insecten nach ihren geschlechtern, fortgesetzt von I. F. W. Herbst, gezeichnet von D. F. Sotzmann. Berlin, G. A. Lange, 1784-86.

**The history of insects** . . . London, The Religious tract society, 1839. Agr 3-1135 xii, 192 p. front., illus., plates. 134<sup>em</sup>.

**Jardine, Sir William, ed.** The naturalist's library. Conducted by Sir William Jardine . . . Entomology . . . Edinburgh, W. H. Lizars; [etc., etc.] 1835-41.

7 v. 7 front. (port.) illus., pl. (partly col.) 18<sup>em</sup>.

Agr 3-3

Engr. half t.-p. in each volume.

CONTENTS.—v. 1. Duncan, J. Introduction to entomology. 1840.—v. 2. Duncan, J. The natural history of beetles. 1835.—v. 3. Duncan, J. The natural history of British butterflies. 1835.—v. 4. Duncan, J. The natural history of British moths. 1836.—v. 5. Duncan, J. The natural history of foreign butterflies. 1837.—v. 6. [Dunbar, W. The natural history of bees. 1839]—v. 7. Duncan, J. The natural history of exotic moths. 1841.

**Jekel, Henri.** Fabricia entomologica; recueil d'observations nouvelles sur les insectes; monographies, révisions de groupes et de genres, classifications, synonymies et rectifications, descriptions de genres nouveaux et d'espèces nouvelles, &<sup>a</sup>, par H. Jekel . . . Paris, Autographie typomorphe de H. Jekel, 1853.

Agr 4-1880

4 p. l., 249 p. fold. tab. 224<sup>em</sup>.

Issued in 3 pts., 1854-59.

Paging irregular: no. 184 bis-ter inserted.

**Kirby, William.** . . . A century of insects, including several new genera described from his cabinet. By the Rev. William Kirby . . . Read November 4, 1817. [London, 1818]

375-482 p. 3 col. pl. 274<sup>em</sup>.

Linnean society of London. Transactions, v. 12, p. 375-482.

**Kirby, William.** . . . A description of such genera and species of insects alluded to in the "Introduction to entomology" of Messrs. Kirby and Spence, as appear not to have been before sufficiently noticed or described. [London, 1825]

563-572 p. 284<sup>em</sup>.

From Transactions of the Linnean society of London. Vol. xiv.

**Kirby, William.** An introduction to entomology: or Elements of the natural history of insects: with plates. By William Kirby . . . and William Spence . . . London, Printed for Longman, Hurst, Rees, Orme, and Brown, 1818-26.

4 v. 2 front. (port.) xxx pl. (partly col.) fold. tab. 22<sup>em</sup>.

Vol. 1, 3d ed., 1818; v. 2, 2d ed., 1818; v. 3-4, [1st ed.,] 1826.

Another copy, v. 1, 4th ed., 1822; v. 2, 3d ed., 1823, v. 3-4 [1st ed.,] 1826.

**Kleemann, Christian Friedrich Carl.** Christian Friedrich Carl Kleemanns . . . Beyträge zur natur- und insecten-geschichte . . . Nürnberg, Zu finden in der Raspischen buchhandlung, 1792-93.

2 v. in 1. front. (port.) 72 col. pl. 224<sup>em</sup>.

CONTENTS.—1 th., worinnen verschiedene papilions . . . nach dem leben abgebildet worden. Als ein anhang zu den Roselischen insecten-belustigungen. 1792.—2 th. fortgesetzt von Christian Schwarz. 1798.

**Klug, Johann Christoph.** Entomologische monographieen, von Dr. Fr. Klug . . . Berlin, G. Reimer, 1824.

[iii]-xiv, [2], 242 p. x col. pl. 214<sup>em</sup>.

**Knoch, August Wilhelm.** Beiträge zur Insektengeschichte, von August Wilhelm Knoch . . . Leipzig, Im Schwickertschen verlage, 1781-83.

3 v. 19 col. pl. 22<sup>em</sup>.

**Knoch, August Wilhelm.** Neue beyträge zur Insectenkunde . . . Von August Wilhelm Knoch . . . 1. th. Leipzig, Im Schwickertschen verlage, 1801.

xii, 208 p. 9 pl. (8 col.) 22<sup>em</sup>.

**Kolbe, Hermann Julius.** Einführung in die Kenntniss der Insekten, von H. J. Kolbe . . . Berlin, F. Dümmler [1889]-93. Agr 3-1140

xii, viii, 709 p. 324 illus. 21<sup>4</sup><sup>em</sup>.

Published in 14 hefte.

"Litteratur" at ends of chapters.

**Kolenati, Friedrich August.** Meletemata entomologica, auctore D<sup>no</sup>. Friderico A. Kolenati . . . Petropoli [sumtibus Imperialis academix scientiarum] 1845-[59]

8 fasc. plates (partly col.) 23<sup>em</sup>.

Fasc. 6-8 reprinted from Bulletin de la Société impériale des naturalistes de Moscou. v. 29-32, 1856-59.

**Lacordaire, Jean Théodore.** Introduction à l'entomologie, comprenant les principes généraux de l'anatomie et de la physiologie des insectes, des détails sur leurs mœurs et un résumé des principaux systèmes de classification proposés jusqu'à ce jour pour ces animaux; par M. Th. Lacordaire . . . Paris, Librairie encyclopédique de Roret [etc.] 1834-38.

2 v. 24 pl. (3 col.) 21<sup>em</sup>.

**Latreille, Pierre André.** Considérations générales sur l'ordre naturel des animaux composant les classes des crustacés, des arachnides, et des insectes; avec un tableau méthodique de leurs genres, disposés en familles. Par P. A. Latreille . . . Paris, J. Schoell, 1810. Agr 4-211

444 p. 20<sup>4</sup><sup>em</sup>.

**Latreille, Pierre André.** Cours d'entomologie, ou de l'histoire naturelle des crustacés, des arachnides, des myriapodes et des insectes; à l'usage des élèves de l'école du Muséum d'histoire naturelle; par M. Latreille . . . 1. année . . . Paris, Roret, 1831. Agr 4-212

[vi]-xiii, 568 p. 21<sup>4</sup><sup>em</sup>. and atlas of 2 p. 1., 26 p., 1 l., 24 pl. 23<sup>4</sup><sup>em</sup>.

No more published.

**Latreille Pierre André.** . . . Genera crustaceorum et insectorum secundum ordinem naturalem in familias disposita, iconibus exemplisque plurimis explicata . . . Parisiis et Argentorati, A. Koenig, 1806-09. Agr 4-213

4 v. 16 pl. 20<sup>4</sup><sup>em</sup>.

**Latreille, Pierre André.** Histoire naturelle, générale et particulière des crustacés et des insectes. Ouvrage faisant suite aux œuvres de Leclerc de Buffon, et partie du cours complet d'histoire naturelle rédigé par C. S. Sonnini . . . Paris, De l'imprimerie de F. Dufart, an x-xiii [1802-1805]

14 v. cxii col. pl. 21<sup>4</sup><sup>em</sup>.

Plates bound separately.

Vol. 1-2, an xii [1804]; v. 3-4, an x [1802]; v. 5-6, an xi [1803]; v. 7-13, an xii [1804]; v. 14, an xiii [1805]

**Latreille, Pierre André.** Précis des caractères génériques des insectes, disposés dans un ordre naturel. Par le citoyen Latreille. Paris, Prévôt; [etc., etc.] an 5 [1796]

xiii, [1], 201, [7] p. 1 fold. tab. 20<sup>4</sup><sup>em</sup>.

Agr 3-193

**Linné, Karl von.** Caroli Linnæi Entomologia, Faunæ suevicæ descriptionibus aucta; DD. Scopoli, Geoffroy, de Geer, Fabricii, Schrank, &c. speciebus vel in systemate non enumeratis, vel nuperrime detectis, vel speciebus Galliæ australis locupletata, generum specierumque rariorum iconibus ornata; curante & augente Carolo de Villers . . . Lugduni, sumptibus Piestre et Delamolliere, 1789. Agr 4-215

4 v. xi (i. e. 12) fold pl., xi fold. tab. 21<sup>em</sup>.

**Linné, Karl von.** . . . Fundamenta entomologiæ . . . Upsaliæ, 1767 (*In his* . . . Amoenitates academicæ . . . Ed. 2. Erlangæ, 1785-90. 21<sup>em</sup>. v. 7 (1789) p. 129-159)

**Merian, Maria Sibylla.** Histoire générale des insectes de Surinam et de toute l'Europe, contenant leurs descriptions, leurs figures, leurs différentes métamorphoses, de même que les descriptions de plantes, fleurs & fruits, dont ils se nourrissent, & sur lesquels on les trouve le plus communément; avec quelques détails sur les crapauds, lézards, serpens, araignées, & autres petits animaux de Surinam, peints sur les lieux d'après nature & gravés avec soin, par Mademoiselle Marie Sybille de Merian, en deux parties in-folio, 3. ed. rev., corrigée, & considérablement augmentée, par M. Buch'oz . . . à laquelle on a joint une troisième partie qui traite des plus belles fleurs, telles que des plantes bulbeuses, lilacées, caryophyllées, &c., avec leur description exacte, leur culture, & leurs propriétés. Ouvrage intéressant pour les amateurs de l'histoire naturelle, et unique en son genre . . . Paris, L. C. Desnos, 1771.

v. 1-2. front., 119 pl. 54<sup>cm</sup>.

Tome 1 contains LXXII pl.

Tome 2 contains CLXXII figures on 47 leaves.

Wanting plate XXX of tome 1.

CONTENTS.—tome 1. Des plantes de Surinam.—tome 2. Des plantes de l'Europe.

**Motschulsky, Victor.** Études entomologiques, rédigées par Victor de Motschulsky . . . [1.]—11. année. Helsingfors, Imprimerie de la Société de littérature finnoise, 1853-62.

11 pts. in 1 v. 5 pl. 21<sup>cm</sup>.

10.—11. année; Dresde, Impr. de F. Thomass.

**Murtfeldt, Mary Esther.** Outlines of entomology. Prepared for the use of farmers and horticulturists. At the request of the secretary of the State board of agriculture and the State horticultural society of Missouri. By Mary E. Murtfeldt . . . Jefferson City, Mo., Tribune printing company, state printers and binders, 1891.

1 p. l., ii, [3]—132, iii p. illus. 23½<sup>cm</sup>.

Also in Thirty-third annual report of the State horticultural society of Missouri, 1890, p. [451]—582.

The natural history of insects . . . London, J. Murray, 1829-35. Agr 3—1143

2 v. illus. 16<sup>cm</sup>. (On cover: The family library, no. VII, LI)

**Newman, Edward.** The grammar of entomology. By Edward Newman. London, F. Westley and A. H. Davis, 1835. Agr 4—958

xvi, 304 p. illus., iv pl. (2 col.) 17<sup>cm</sup>.

**Packard, Alpheus Spring.** Dr. Brauer's views on the classification of insects . . . [Philadelphia, 1885]

999-1001 p. 22<sup>cm</sup>.

American naturalist extra, October, 1885. vol. XIX.

**Ray, John.** Historia insectorum. Autore Joanne Raio . . . Opus posthumum jussu Regiæ societatis Londinensis editum. Cui subjungitur appendix de Scarabæis britannicis, autore M. Lister . . . Londini, Impensis A. & J. Churchill, 1710. xv, 400 p. 23<sup>cm</sup>.

**Réaumur, René Antoine Ferchault de.** Mémoires pour servir à l'histoire des insectes. Par M. de Réaumur . . . Paris, De l'imprimerie royale, 1734-42. Agr 4—222

6 v. 267 pl. 26<sup>cm</sup>.

For number of volumes cf. Hagen, Bibliotheca entomologica, bd. 2, p. 64.

CONTENTS.—tome 1. Sur les chenilles et sur les papillons. 1734.—tome 2. Suite de l'histoire des chenilles & des papillons; et l'histoire des insectes ennemis des chenilles. 1736.—tome 3. Histoire des vers mineurs des feuilles, des teignes, des fausses teignes, des pucerons, des ennemis des pucerons, des faux pucerons, & l'histoire des galles des plantes, & de leurs insectes. 1737.—tome 4. Histoire des gallinsectes, des progallinsectes, & des mouches à deux ailes. 1738.—tome 5. Suite de l'histoire des mouches à deux ailes, & l'histoire de plusieurs mouches à quatre ailes, scavoir, des mouches à scies, des cigales, & des abeilles. 1740.—tome 6. Suite de l'histoire des mouches à quatre ailes, avec un supplément à celle des mouches à deux ailes. 1742.

**Rennie, James.** . . . Insect miscellanies. London, C. Knight, [etc., etc.] 1831. Agr 3—1149

xii, 414 p. illus. 17½<sup>cm</sup>. (The Library of entertaining knowledge [vol. XXIII-XXIV, published under the superintendence of the Society for the diffusion of useful knowledge])

**Riley, Charles Valentine.** Entomology . . . [n. p.] 1876.

[281]-289 p. 23<sup>m</sup>.

From Ware's valley monthly, August, 1876.

**Römer, Johann Jacob.** Genera insectorum Linnæi et Fabricii iconibus illustrata  
a Joanne Jacobo Römer. Vituduri Helvetorum, apud H. Steiner et socios, 1789.

viii, 86, [3] p. xxxvii pl. (36 col.) 29<sup>m</sup>.

Col. title vignette.

**Rösel von Rosenhof, August Johann.** Die monatlich-herausgegebenen insecten-belustigung . . . von dem vortreflichen naturforscher und berühmten mignaturmahler August Johann Rösel von Rosenhof. Mit einer vorrede, in welcher von dem nutzen der insecten gehandelt, was sie seyen gezeigt, und von der eintheilung derselben nachricht gegeben wird, von dem Röselischen eidam und mignaturmahler C. F. C. Kleemann mit vielen neuen beobachtungen und anmerkungen hin und wieder vermehrt und verbessert. Nürnberg, Zu finden bey den Röselischen erben, gedruckt bey J. J. Fleischmann, [1746-1761]

4 v. fronts. (3 col.) incl. port., col. pl. 22<sup>3</sup><sup>m</sup>.

CONTENTS.—1. th., in welchen die in sechs classen eingetheilte papilionen . . . nach dem leben abgebildet worden.—2. th., welcher acht classen verschiedener sowohl inländischer, als auch einiger ausländischer insecten enthält . . .—3. th., worinnen ausser verschiedenen, zu denen in den beiden ersten theilen enthaltenen classen, gehörigen insecten, auch mancherley arten von acht neuen classen . . . nach dem leben abgebildet vorgestellt worden . . .—4. th., in welchem ausser verschiedenen in- und ausländischen insecten, auch die hiesige grosse kreuz-spinne . . . von dem verstorbenen vortreflichen mignaturmahler, Herrn August Johann Rösel, von Rosenhof, nebst einer zuverlässigen nachricht von den lebens-umständen des seel. verfassers, beschrieben und mit anmerkungen hrsg. von C. F. C. Kleemann . . .

For supplement, see Kleemann, C. F. C. . . . Beyträge zur natur- und insecten-geschichte.

**Sahlberg, Carl Reinhold.** Periculi entomographici, species insectorum nondum descriptas proposituri, fasciculus. Auctore Car. Regin. Sahlberg . . . Cum tabuli iv aeneis. Aboæ, typis Frenckellorum, 1823. Agr 3—202

1 p. l., 82, [1] p. iv pl. 19<sup>1</sup><sup>m</sup>.

**Sajó, Karl.** Ueber entomologische beobachtungen . . . Berlin, 1898.

7 pts. 30<sup>m</sup>.

From Prometheus. jahrg. ix, pp. 641-646, 657-662, 674-679.

**Samouelle, George.** The entomologist's useful compendium; or an introduction to the knowledge of British insects, comprising the best means of obtaining and preserving them, and a description of the apparatus generally used; together with the genera of Linnæ, and the modern method of arranging the classes Crustacea, Myriapoda, spiders, mites, and insects, from their affinities and structure, according to the views of Dr. Leach . . . By George Samouelle . . . London, T. Boys, 1819.

496 p. 12 pl. (incl. front.) 20<sup>1</sup><sup>m</sup>.

Authors quoted: p. [11]-15.

— London, Longman, Hurst, Rees, Orme, Brown, and Green, 1824.

1 p. l., 496 p. 12 pl. (incl. front.) 20<sup>m</sup>.

Authors quoted: p. [11]-15.

**Schaeffer, Jacob Christian.** Jacobi Christiani Schaeffer . . . Elementa entomologica. cxxxv tabulæ ære excusæ floridisque coloribus distinctæ . . . Jacob Christian Schaeffers . . . Einleitung in die insectenkenntnis. cxxxv ausgewahlte kupfertafeln. Regensburg, gedruckt mit Weissischen schriften, 1766.

unp. cxxxv col. pl. incl. front. 27<sup>1</sup><sup>m</sup>.

Plates with three exceptions printed on both sides of leaves.

**Sharp, David.** Insects, pt. i. Introduction, Aptera, Orthoptera, Neuroptera, and a portion of Hymenoptera (Sessiliventres and Parasitica) By David Sharp . . . (In The Cambridge natural history, ed. by S. F. Harmer and A. E. Shipley. London and New York, 1895. 23<sup>m</sup>. v. 5, p. [81]-565. illus.)

**Sharp, David.** Insects, pt. II. Hymenoptera continued (Tubulifera and Aculeata), Coleoptera, Strepsiptera, Lepidoptera, Diptera, Aphaniptera, Thysanoptera, Hemiptera, Anoplura. By David Sharp . . . London, New York, Macmillan and co., limited, 1901.

xii, 626 p. illus. 23<sup>m</sup>. (*Half-title:* The Cambridge natural history, ed. by S. F. Harmer . . . and A. E. Shipley. vol. VI)  
— — Reprint, 1901.

**Smith, John Bernhard.** An essay on the classification of insects. [New York, 1897]

7 p. 26 $\frac{1}{2}$ <sup>m</sup>.

Reprinted from Science, n. s., vol. v, no. 122, pp. 671-677, April 30, 1897.

**Sopp, E. J. Burgess.** Address to the Lancashire & Cheshire entomological society delivered at the Royal institution, Liverpool, on January 14th, 1901, by vice-president E. J. Burgess Sopp . . . n. p. [1901]

14 p. 21 $\frac{1}{2}$ <sup>m</sup>.

Caption title.

Cover title: Lancashire and Cheshire entomological society. Session 1900. Annual address by vice-president E. J. Burgess Sopp . . .

**Sulzer, Johann Heinrich.** Dr. Sulzer's Abgekürzte geschichte der insecten nach dem Linneischen system. Winterthur, H. Steiner u. comp., 1776.

2 pts. in 1 v. XXXII col. pl. 27<sup>m</sup>.

Pt. 1, text; pt. 2, plates.

Engr. t.-p.

**Summers, Henry Elijah.** Insect keys [by] H. E. Summers. Orders of hexapoda. [n. p., n. d.]

unp. 22<sup>m</sup>.

**Swainson, William.** On the history and natural arrangement of insects, by William Swainson & William E. Shuckard . . . London, Longman, Brown, Green & Longman's [1840]

3 p. l., 406 p. illus. 17<sup>m</sup>.

Engr. t.-p.

**Swammerdam, Jan.** The book of nature; or, The history of insects: reduced to distinct classes, confirmed by particular instances, displayed in the anatomical analysis of many species, and illustrated with copper-plates, including the generation of the frog, the history of the ephemerus, the changes of flies, butterflies, and beetles; with the original discovery of the milk-vessels of the cuttle-fish, and many other curious particulars. By John Swammerdam, M. D. with the life of the author, by Herman Boerhaave, M. D. Tr. from the Dutch and Latin original ed., by Thomas Filoyd. Rev. and improved by notes from Reaumur and others, by John Hill, M. D. London, Printed for C. G. Seyffert, 1758.

2 p. l., xx, [8], 236, 158, lxiii, [2] p. LIII pl. 41<sup>m</sup>.

**Swammerdamm, Jan.** Johannis Swammerdamii . . . Historia insectorum generalis . . . adjicitur Dilucidatio . . . Ex Belgica Latinam fecit Henricus Christianus Henninius . . . Ed. 2. Ultrajecti, ex officina O. de Vries, 1693.

10 p. l., 212, [17] p. XIII pl. (10 fold.) fold. tab. 20 $\frac{1}{2}$ <sup>m</sup>.

**Tabular view of the orders & leading families of insects.** [London] Printed for the Society for promoting Christian knowledge [1858]

Agr 4—232

4 fold. pl. 26<sup>m</sup>.

**Taschenberg, Ernst Ludwig.** Die insekten, tausendfüssler und spinnen, von Dr. E. L. Taschenberg. Mit 277 abbildungen im text und 21 tafeln von Emil Schmidt. Leipzig, Verlag des Bibliographischen instituts, 1877.

xxx p., 1 l., 711 p. illus., 21 pl. 26<sup>m</sup>. (*Added t.-p.:* Brehm's thierleben. Allgemeine kunde des thierreichs. Grosse ausgabe. 2. umgearb. und verm. aufl. 4. abth. Wirbellose thiere. 1. bd.)

*Half-title:* Brehms thierleben. 9. bd.



**Tepper, J. Gottlieb Otto.** Insects and insect-lore, an introduction to the study of entomology. A paper before the South Australian gardeners' society, 1901 . . . Adelaide, 1902.

10, [1] p. illus. 25<sup>cm</sup>.

Reprinted from the "Garden and field."

**Tepper, J. Gottlieb Otto.** List of named insects in the South Australian museum, Adelaide, by J. G. O. Tepper . . . [n. p., 1888?–92?] Agr 4—3619

5 pts. 26–27<sup>cm</sup>.

Caption title.

**Thomson, Carl Gustaf.** Opuscula entomologica, edidit C. G. Thomson. Fasciculus primus [—XXI<sup>MUS</sup>] Lund, Tryckt i Lundbergska boktryckeriet, 1869–96.

21 pts. in 3 v. 3 pl. 22<sup>cm</sup>.

Paged continuously: 2404 p.

Imprint of fasc. 2–3: Lund, Tryckt på H. Ohlssons boktryckeri, 1870; fasc. 4–5: Berlingska boktryckeriet, 1871–73; fasc. 6–7: F. Berlings boktryckeri och stiltgjuteri, 1874–75; fasc. 8: Trelleborg, Sandberg & Jönssons boktryckeri, 1877; fasc. 9–13: Lundæ, typis expressit H. Ohlsson, 1883–89; fasc. 14–21: typis expressit E. Malmström, 1891–96.

**Thomson, James.** Archives entomologiques ou Recueil contenant des illustrations d'insectes nouveaux ou rares, par M. James Thomson . . . Paris, Au bureau du trésorier de la Société entomologique de France, 1857–58. Agr 4—1785

2 v. col. fronts., 35 pl. (28 col.) 27<sup>cm</sup>.

"Voyage au Gabon" forms v. 2.

**United States—Dept. of agriculture.** Entomologie pratique pour les fils de cultivateurs. Manière de recueillir et de conserver les insectes, tr. par Louis Quaedvlieg . . . Bruxelles, 1875.

25 p. illus. 23<sup>cm</sup>.

"Extrait du Report of the Commissioner of agriculture for the year 1868. Washington, 1869."

"Extrait du Bulletin de la Société royale linnéenne de Bruxelles."

**United States—Dept. of agriculture.** Practical entomology for farmers' sons. illus. Washington, 1869. (U. S. Agriculture, Commissioner of. Report . . . for the year 1868. p. 305–318) -

**Walckenaer, Charles Athanase, baron.** Histoire naturelle des insectes. Aptères, par M. le baron Walckenaer . . . Paris, Roret, 1837–47.

4 v. 21½<sup>cm</sup>. and atlas of 24 p., 52 pl. 24½<sup>cm</sup>. [Suites à Buffon]

Vol. 3 by Paul Gervais; v. 4 by Walckenaer & Paul Gervais.

**Waterhouse, Charles Owen.** Aid to the identification of insects. Ed. by Charles Owen Waterhouse. Lithographs by Edwin Wilson . . . London, E. W. Janson, 1880–90.

2 v. 189 col. pl. 21<sup>cm</sup>.

Issued in 30 pts.

Vol. 2, lithographs by Edwin Wilson and Maud Horman-Fisher.

**Westwood, John Obadiah.** Arcana entomologica; or, Illustrations of new, rare, and interesting insects. By J. O. Westwood . . . London, W. Smith, 1845. Agr 3—372

2 v. in 1. 95 pl. 24<sup>cm</sup>.

**Westwood, John Obadiah.** An introduction to the modern classification of insects; founded on the natural habits and corresponding organisation of the different families. By J. O. Westwood . . . London, Longman, Orme, Brown, Green, and Longmans, 1839–40. Agr 3—1155

2 v. col. front. (v. 1). illus. 23<sup>cm</sup>.

**Westwood, John Obadiah.** Thesaurus entomologicus oxoniensis; or, Illustrations of new, rare, and interesting insects, for the most part contained in the collections presented to the University of Oxford by the Rev. F. W. Hope . . . with forty plates from drawings by the author; by J. O. Westwood . . . Oxford, At the Clarendon press, 1874. Agr 3—374

xxiv, 205 p. 40 pl. (partly col.) 35½<sup>cm</sup>.

"Obituary notice of the Rev. Fred. Wm. Hope . . . by T. J. Pettigrew" . . . p. xvii–xxi.

"List of the entomological works of the Rev. F. W. Hope": p. xxii–xxiv.

**Wilson, James.** A treatise on insects, general and systematic; being the article "Entomology," from the seventh edition of the *Encyclopædia britannica* . . . By James Wilson . . . Edinburgh, A. and C. Black; [etc., etc.] 1835. Agr 4—966  
327 p. ccxx—ccxxxix pl. 28<sup>em</sup>.

"Notices regarding the principal authors in entomology, and their works": p. [5]—57.

**Wotton, Edward.** *Insectorum sive minimorum animalium theatrum: olim ab Edoardo Wottono, Conrado Gesnero, Thomaque Pennio inchoatum: tandem Tho. Moufeti Londinâtis operâ sumptibusq; maximis concinnatum, auctum, perfectum: et ad vivum expressis iconibus supra quingentis illustratum.* Londini, ex officinâ typographicâ T. Cotes, 1634. Agr 4—3631  
10 p. l., 326, [4] p. illus. 30<sup>em</sup>.  
Engr. t.-p.

**Wytzman, P., ed.** *Genera insectorum, publiés par P. Wytzman* . . . Bruxelles, P. Wytzman, 1902—05.

pt. 1—26. plates (partly col.) 33<sup>em</sup>.

CONTENTS.—1. fasc. Coleoptera, fam. Gyrinidæ, par M. Régimbart. 1902.—2. fasc. Hymenoptera, fam. Evaniidæ, par l'abbé J.-J. Kieffer. 1902.—3. fasc. Coleoptera Clavicornia, fam. Lathridiæ, par le R. P. Belon. 1902.—4. fasc. Lepidoptera Rhopalocera, fam. Papilionidæ, subfam. Leptocircinæ, par P. Wytzman. 1902.—5. fasc. Lepidoptera Rhopalocera, fam. Libytheidæ, von A. Pagenstecher. 1902.—6. fasc. Lepidoptera Rhopalocera, fam. Papilionidæ, subfam. Papilioninæ, sect. Troides Hübner, par Robert H. F. Rippon. 1902.—7. fasc. Coleoptera Lamellicornia, fam. Geotrupidæ, par A. Boucomont. 1902.—8. fasc. Coleoptera Heteromera, fam. Hylophilidæ, par M. Pic. 1902.—9—10. fasc. Hymenoptera, fam. Cynipidæ, par W. von Dalla Torre et J. J. Kieffer. 1—2. fasc. 1902.—11. fasc. Hymenoptera, fam. Mutillidæ, par Ernest André. 1903.—12—12d fasc. Coleoptera Serricornia, fam. Buprestidæ, par C. Kerremans. 4 fasc. 1902—03.—13. fasc. Coleoptera Malaco-dermata, fam. Cleridæ, von S. Schenkling. 1903.—14—14b fasc. Coleoptera Phytophaga, sect. Eupoda, fam. Sagridæ, by Martin Jacoby. 2 fasc. 1903.—15. fasc. Orthoptera, fam. Eumastacidæ, by M. Burr. 1903.—16. fasc. Lepidoptera Heterocera, fam. Epicopiidæ, by A. Janet & P. Wytzman. 1903.—17a—17d. fasc. Lepidoptera Rhopalocera, fam. Hesperidæ, par P. Mabille. 1903—04.—18c fasc. Hymenoptera, fam. Ichneumonidæ, subfam. Ichneumoninæ, par l'abbé V. Berthoumieu. 1904.—19. fasc. Hymenoptera, fam. Vespidæ, von Prof. Dr. K. W. Dalla Torre. 1904.—20. fasc. Lepidoptera Rhopalocera, fam. Nymphalidæ, subfam. Brassolinæ, par H. Stichel. 1904.—21. fasc. Coleoptera Phytophaga, fam. Donacidæ, by Martin Jacoby & H. Clavareau. 1904.—22a—b fasc. Hymenoptera, fam. Braconidæ, von Gy. v. Szépligeti. 2 fasc. 1904.—23. fasc. Coleoptera Phytophaga, fam. Crioceridæ, by M. Jacoby & H. Clavareau. 1904.—24. fasc. Heteroptera, fam. Pentatomidæ, subfam. Scutellerinæ, par H. Schouteden. 1904.—25. fasc. Isoptera, fam. Termitidæ, par Jules Desneux. 1904.—26. fasc. Diptera, fam. Culicidæ, by F. V. Theobald. 1905.

**Xambeu, Vincent.** . . . *Mœurs et métamorphoses d'insectes, par le capitaine Xambeu* . . . Lyon, A. Rey, 1892—1903.

pts. 1—12. 22<sup>em</sup>—27½<sup>em</sup>.

Place and publisher vary: 2. mémoire, Lyon, Impr. L. Jacquet; 3., 9. mémoire, Caen, Typographie-lithographie A. le Boyteux; 4. mémoire, Paris, Au siège de la Société [entomologique de France]; 8. mémoire, Moulins, Impr. É. Auclair; 12. mémoire, Paris, Au secrétariat de l'Association [française pour l'avancement des sciences]

1.—2., 5., 7., 10.—11. mémoires, extraits des Annales de la Société linnéenne de Lyon. 3., 9. mémoires, extraits de la Revue d'entomologie. 4. mémoire, extraite des Annales de la Société entomologique de France, année 1894, vol. LXIII. 6. mémoire, from Revue linnéenne. 12. mémoire, from Association française pour l'avancement des sciences.

## TEXTBOOKS.

**Bruner, Lawrence.** A preliminary introduction to the study of entomology. Together with a chapter on remedies, or methods that can be used in fighting injurious insects; insect enemies of the apple tree and its fruit, and the insect enemies of small grains. By Lawrence Bruner . . . Lincoln, Nebraska, J. North & co., printers, 1894.

322 p. illus. 22½<sup>em</sup>.

Agr 3—1129

"The first part of this book is practically the same as his [Bruner's] report for 1898 as entomologist to the [Nebraska] State board of agriculture."—Pref.

"Insect enemies of the apple tree and its fruit. Extracted from the Nebraska state horticultural report for 1894." pp. 154—223.

"The insect enemies of small grains. Extracted from the annual report of the Nebraska state board of agriculture for 1892"; pp. 360—466,

**Burmeister, Hermann Carl Conrad.** A manual of entomology, tr. from the German of Dr. Herman Burmeister. By W. E. Shuckard, M. E. S., with additions by the author, and original notes and plates by the translator. . . London, E. Churton, 1836.

Agr 4—3500

xii, 654 p. col. front., 32 pl. (7 col.) 23<sup>cm</sup>.

**Carpenter, George Herbert.** Insects, their structure & life, a primer of entomology, by George H. Carpenter. . . London, J. M. Dent & co., 1899.

xi, [1], 404 p. illus. 19<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

"References to literature:" p. [379]—392.

**Comstock, John Henry.** Insect life, an introduction to nature-study and a guide for teachers, students, and others interested in out-of-door life. By John Henry Comstock. . . with many original illustrations engraved by Anna Botsford Comstock. . . New York, D. Appleton and company, 1897.

3 p. l., 349 p. illus., vi pl. 19<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

"Books on insects:" p. 336—340.

— — — New York, D. Appleton and company, 1901.

1—8190

3 p. l., 349 p. col. front., illus., plates (partly col.) 21<sup>cm</sup>.

**Comstock, John Henry.** An introduction to entomology by John Henry Comstock. . . with many original illustrations drawn and engraved by Anna Botsford Comstock. Ithaca, N. Y., Pub. by the author, 1888.

iv, 234 p. illus. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

Preface is headed "Preface to part I" and states that other chapters will be published.

**Comstock, John Henry.** A manual for the study of insects, by John Henry Comstock and Anna Botsford Comstock. . . Ithaca, N. Y., Comstock publishing company, 1895.

x, 701 p. col. front., illus. plates. 24<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

— — — 2d ed. Ithaca, N. Y., Comstock publishing company, 1897.

vii p., 2 l., 701 p. front. illus. 24<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Hunter, Samuel John.** Elementary studies in insect life, by Samuel J. Hunter. . . Topeka, Kans., Crane & company, 1902.

2—19189

xviii, 344 p. col. front., illus., col. pl. 20<sup>cm</sup>.

**Hyatt, Alpheus.** . . . Insecta. By Alpheus Hyatt and J. M. Arms. Boston, D. C. Heath & co., 1890.

Agr 3—1136

[iii]—xxiii, 300 p. illus. XIII fold. pl., fold. diagr. 16<sup>cm</sup>. (Boston society of natural history. Guides for science-teaching. no. VIII.)

**Kirby, William Forsell.** Elementary text-book of entomology, by W. F. Kirby. . . 2d ed. revised and augmented, with 87 plates containing over 650 figures. London, S. Sonnenschein and co.; New York, Macmillan and co., 1892.

2 p. l., viii, 281 p., 1 l. front., LXXXVI pl. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Kirby, William Forsell.** The young collector's handbook to the orders of insects. By W. F. Kirby. . . London, W. S. Sonnenschein & co. [n. d.].

32 p. illus. 16<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Packard, Alpheus Spring.** Entomology for beginners, for the use of young folks, fruit-growers, farmers, and gardeners, by A. S. Packard. . . 2d ed., rev. New York, H. Holt and company, 1889.

xvi, 367 p. illus. 19<sup>cm</sup>.

"The entomologist's library": p. [326]—335.

**Packard, Alpheus Spring.** Guide to the study of insects, and a treatise on those injurious and beneficial to crops; for the use of colleges, farm-schools, and agriculturists. By A. S. Packard, jr. . . Salem, Naturalist's book agency; London, Trübner & co., 1869.

viii, 702 p. illus., 11 pl. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>

"Entomological works": p. 97—103.

— — — 2d ed. Salem, Naturalist's book agency; London, Trübner &amp; co., 1870.

viii, 702 p. front., illus., 11 pl. 23<sup>cm</sup>.

"Entomological works": p. 97—103.

**Packard, Alpheus Spring.** Guide to the study of insects, and a treatise on those injurious and beneficial to crops; for the use of colleges, farm-schools, and agriculturists. By A. S. Packard, jr. . . . 6th ed. New York, H. Holt & co.; Boston, Estes & Lauriat, 1878.

xii, 715 p. illus., 15 pl. (incl. front.) 23<sup>em</sup>.

"Entomological works": p. 97-103.

— — — 7th ed. New York, H. Holt and company, 1880.

xii, 715 p. illus., 15 pl. (incl. front.) 23<sup>em</sup>.

"Entomological works": p. 97-103.

— — — 9th ed. New York, H. Holt and company; Boston, Estes & Lauriat, 1889.

xii, 715 p. illus., 15 pl. (incl. front.) 23<sup>em</sup>.

"Entomological works": p. 97-103.

**Packard, Alpheus Spring.** A text-book of entomology, including the anatomy, physiology, embryology, and metamorphoses of insects, for use in agricultural and technical schools and colleges as well as by the working entomologist, by Alpheus S. Packard . . . New York, London, The Macmillan company, 1898.

xvii, 729 p. illus. 22<sup>em</sup>.

Bibliographies at ends of chapters.

**Rörig, Georg Friedrich Carl.** Leitfaden für das studium der insekten und entomologische unterrichtstafeln. Von Dr. G. Rörig . . Berlin, R. Friedländer & sohn, 1894.

Agr 5—234

2 p. l., 43, [1] p. viii pl. 24<sup>em</sup>.

**Woodworth, Charles William.** Laboratory manual for the course in elementary and economic entomology at the University of California, by C. W. Woodworth. Berkeley, Cal., published by the author, 1893.

Agr 3—1156

unp. 23<sup>em</sup>.

Interleaved.

## POPULAR ENTOMOLOGY.

**Badenoch, L. N.** Romance of the insect world, by L. N. Badenoch, with illustrations by Margaret J. D. Badenoch and others. . . . New York and London, Macmillan and co., 1893.

xviii, 341 p. incl. front., illus. 18<sup>em</sup>.

**Badenoch, L. N.** True tales of the insects, by L. N. Badenoch . . . with forty-four illustrations by Margaret J. D. Badenoch. New York, E. P. Dutton & co.; London, Chapman & Hall, ld., 1899.

xviii, 255 p. incl. front., illus., plates. 23<sup>em</sup>.

[**Budgen, L. M.**] Episodes of insect life. By Acheta Domestica, m. e. s. . . . London, Reeve, Benham, and Reeve, 1849-51.

3 v. col. fronts., illus. (partly col.) 20<sup>em</sup>.

[**Budgen, L. M.**] Insect life. By Acheta Domestica (m. e. s.) Ed. and rev. by the Rev. J. G. Wood . . . London, Bell and Daldy, [n. d.].

xv, 430 p., 1 l. col. illus. 22<sup>em</sup>.

**Comstock, Anna Botsford.** Ways of the six-footed, by Anna Botsford Comstock . . . Boston, Ginn & company, 1903.

3—13361

xii, 152 p. incl. illus., 1 pl. 19<sup>em</sup>.

"Illustrations by W. C. Baker and O. L. Foster, and the author."

**Figuiet, Louis.** Les insectes, par Louis Figuiet, ouvrage illustré de 592 figures dessinées d'après nature par Mesnel, E. Blanchard et Delahaye et de vingt-quatre grandes compositions par E. Bayard . . . 2. éd. Paris, L. Hachette et cie., 1869. 2 p. l., 580 p. incl. illus., plates., front. 24<sup>em</sup>. (Half-title: Tableau de la nature, ouvrage illustré à l'usage de la jeunesse. La vie et les mœurs des animaux)

**Howard, Leland Ossian.** The insect book. A popular account of the bees, wasps, ants, grasshoppers, flies and other North American insects, exclusive of the butterflies, moths and beetles, with full life histories, tables and bibliographies, by Leland O. Howard . . . New York, Doubleday, Page & company, 1901. 1—19809

xxvii p., 1 l., 429 p. col. front., illus., plates (partly col.) 26<sup>em</sup>.

Bibliography: p. 405-416.

**Life in the insect world:** or, Conversations upon insects, between an aunt and her nieces . . . Philadelphia, Lindsay & Blakiston, 1844. Agr 3—1141  
vii [9]-241 p. incl. plates., front. 17 $\frac{1}{2}$ cm.

**McCook, Henry Christopher.** Tenants of an old farm; leaves from the notebook of a naturalist. By Henry Christopher McCook . . . with an introduction by Lord Avebury (Sir John Lubbock). Illustrated from nature. Rev. ed.—10th thousand. Philadelphia, G. W. Jacobs & co.; London, Hodder & Stoughton [1902] xv, [9]-460 p. front., illus. 19cm. 3—177  
\* Original copyright, 1844.

**Packard, Alpheus Spring.** Half hours with insects. By A. S. Packard, jr. . . . Boston, Estes and Lauriat, 1877. viii, 384 p. illus., 2 pl. (1 col.) 20cm.

**Packard, Alpheus Spring.** Our common insects. A popular account of the insects of our fields, forests, gardens and houses. Illustrated with 4 plates and 268 woodcuts. By A. S. Packard, jr. . . . \* Salem, Naturalists' agency; New York, Dodd & Mead; [etc., etc.] 1873. Agr 3—1145

viii, [iii]-xvi, 17-225 p. incl. illus., front. 20cm.  
"This little volume mainly consists of a reprint of a series of essays which appeared in the "American naturalist" (vols. I-V, 1867-71)"—Pref.

— — — Boston, Estes and Lauriat [pref. 1873] Agr 3—1146  
viii, iii-xvi, 17-225 p. incl. illus., front. 20cm.

"This little volume mainly consists of a reprint of a series of essays which appeared in the "American naturalist" (vols. I-V, 1867-71)"—Pref.

**Remarkable insects.** London, Religious tract society [n. d.] Agr 3—1148  
[iii]-vi, 32, 32, 32, 32, 32 p. illus. 14cm.

**Sutherland, Harvey.** The book of bugs, by Harvey Sutherland. New York and London, Street & Smith [1902] 2—21997  
1 p. l., 223 p. illus. 19 $\frac{1}{2}$ cm.

**Weed, Clarence Moores.** Life histories of American insects, by Clarence Moores Weed . . . New York, London, The Macmillan company, 1897. xii, 272 p. incl. front. (pl. 1), illus., II-XXI pl. 13 $\frac{1}{2}$ cm.

**Weed, Clarence Moores.** Nature biographies; the lives of some every-day butterflies; moths; grasshoppers, by Clarence Moores Weed . . . with 150 photographic illustrations by the author. New York, Doubleday, Page & co., 1901. 1—13730  
x, 164 p. front., illus. 22cm.

**Weed, Clarence Moores.** Ten New England blossoms and their insect visitors, by Clarence Moores Weed . . . Boston and New York, Houghton, Mifflin and company, 1895. xi, [1], 142 p. incl. illus., plates., front. 19 $\frac{1}{2}$ cm.

## GEOGRAPHICAL DISTRIBUTION.

**Howard, Leland Ossian.** The spread of land species by the agency of man; with special reference to insects. An address by vice-president Leland O. Howard, chairman of section F, before the section of biology American association for the advancement of science, Detroit meeting, August, 1897 . . . Salem, Mass., Salem press co., 1897. 26 p. 23cm.

**Krüger, Leopold.** Insektenwanderungen zwischen Deutschland und den Vereinigten Staaten von Nordamerika und ihre wirtschaftliche bedeutung. Von Leopold Krüger. Hrsg. vom Entomologischen vereine zu Stettin. Stettin, Kommissionsverlag von R. Friedländer & sohn in Berlin, 1899. viii, 174 p. 25 $\frac{1}{2}$ cm.

**Müller, Albert.** On the dispersal of non-migratory insects by atmospheric agencies by Albert Müller . . . Basle, Printed by G. A. Bonfantini, 1877. 16 p. 21 $\frac{1}{2}$ cm.

"Reprinted from Trans. Ent. soc. Lond. 1871." Part II (May) pp. 175-186."

**Packard, Alpheus Spring.** The insect fauna of the summit of Mount Washington, as compared with that of Labrador . . . [Cambridge, Mass., 1868]

154-158 p. 25<sup>em</sup>.

From Proceedings of the American association for the advancement of science. 16th meeting 1867.

**Reich, Gottfried Christian.** Beitrag zur lehre von der geographischen verbreitung der insecten, insbesondere der käfer, von Dr. und Prof. G. C. Reich . . . (Vorgelesen in der Gesellschaft für natur- und heilkunde, am 2. April 1833) [Halle, 1833]

1 p. l., [807]-840 p. 29<sup>em</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. Vol. xvi.

**Sajó, Karl.** Das wandern der insekten . . . Berlin, 1899.

6 pts. illus. 30<sup>em</sup>.

From Prometheus. jahrg. x, p. 737-741, 758-761, 770-772, 785-789, 802-806, 817-821.

**Tutt, James William.** The migration & dispersal of insects. By J. W. Tutt. London, E. Stock, 1902.

Agr 4—285

1 p. l., 132 p. 21<sup>em</sup>.

### NOMENCLATURE.

**British association for the advancement of science.** The revised rules of zoological nomenclature, adopted by the British association in 1865, with notes by A. E. Verrill. New Haven, 1869.

cover-title, 20 p. 23½<sup>em</sup>.

From the American journal of science and arts, vol. XLVIII, July, 1869.

**Le Conte, John Lawrence.** Rules [for entomological nomenclature] to be submitted to the Entomological club of the A. A. A. S. <Ordered printed by resolution at the annual meeting for 1876> [n. p., 1876?]

6 p. 26½<sup>em</sup>.

Report signed by J. L. Le Conte, Wm. Saunders, and C. V. Riley.

**Lewis, W. Arnold.** A discussion of the law of priority in entomological nomenclature; with strictures on its modern application; and a proposal for the rejection of all disused names. By W. Arnold Lewis . . . Also containing a paper by the same, read before the British association (section D) on August 7, 1871; and a second, by the same, intended as a contribution to the discussion in the 'Entomologist's monthly magazine.' London, Williams & Norgate, 1872.

Agr 5—527

2 p. l., 86 p. 22½<sup>em</sup>.

**Scudder, Samuel Hubbard.** Historical sketch of the generic names proposed for butterflies, a contribution to systematic nomenclature, by Samuel H. Scudder . . . Salem, Naturalists' agency, 1875.

Agr 4—297

1 p. l., 91-293 p. 23<sup>em</sup>.

From the Proceedings of the American academy of arts and sciences, Boston, vol. x (2d s., vol. II)

**Walsingham, Thomas De Grey, 6th lord.** Rules for regulating nomenclature with a view to secure a strict application of the law of priority in entomological work, comp. by Lord Walsingham and John Hartley Durrant. London, New York and Bombay, Longmans, Green, and co., 1896.

18 p. 21½<sup>em</sup>.

### AQUATIC INSECTS.

**Branden, Constant van den.** Catalogue des coléoptères carnassiers aquatiques. See under Coleoptera, p. 182.

**Miall, Louis Compton.** The natural history of aquatic insects, by L. C. Miall, F. R. S., with illustrations by A. R. Hammond, F. L. S. London and New York, Macmillan and co., 1895.

ix p., 1 l., 395 p. illus. 19<sup>em</sup>.

**Needham, James George** . . . Aquatic insects in New York state; a study conducted at the entomologic field station, Ithaca, N. Y., under the direction of Ephraim Porter Felt . . . By James G. Needham . . . Alex D. MacGillivray . . . O. A. Johannsen . . . K. C. Davis . . . Albany, University of the state of New York, 1903. 3—28300

1 p. l., [199]—517 p. illus., 52 pl. (partly col.) 23<sup>cm</sup>. (New York state museum. Bulletin 68. Entomology [no.] 18.)

CONTENTS.—**pt. 1.** Needham, J. G. Station work of the summer of 1901.—**pt. 2.** Needham, J. G. Food of brook trout in Bone Pond.—**pt. 3.** Needham, J. G. Life histories of Odonata suborder Zygoptera.—**pt. 4.** Needham, J. G. Some new life histories of Diptera.—**pt. 5.** MacGillivray, A. D. Aquatic Chrysomelidæ and a table of the families of coleopterous larvæ.—**pt. 6.** Johannsen, O. A. Aquatic nematoceros Diptera.—**pt. 7.** Davis, K. C. Sialididæ of North and South America.

**Packard, Alpheus Spring.** Notes on salt-water insects, no. III. [Philadelphia, 1884.]

826-828 p. illus. 22<sup>cm</sup>.

From the American naturalist, August, 1884, vol. XVIII.

"[The] first article . . . appeared in the Proceedings of the Essex institute, Salem, VI, 1869; a second article was published in the American journal of science, I, Feb. 1871,

## CAVE INSECTS.

**Garman, Harrison.** An undescribed larva from Mammoth Cave . . . [Salem, Mass., 1891]

5, [3] p. incl. III pl. 24<sup>1/2</sup><sup>cm</sup>.

From the Bulletin of the Essex institute, vol. XXIII, nos. 4, 5, 6, 1891.

**Hubbard, Henry Guernsey.** Two days' collecting in the Mammoth Cave . . . New York, 1880.

1 p. l., 13 p. illus. 25<sup>cm</sup>.

Extracted from the American entomologist, vol. III, nos. 2 and 3, February and March, 1880.

**Lespés, Charles.** Note sur quelques insectes des grottes de l'Ariège . . . [Paris, 1857.

[278]-284 p. pl. 25<sup>cm</sup>.

From Annales des sciences naturelles. 4. série. Zoologie, tome 7.

**Packard, Alpheus Spring.** The invertebrate cave fauna of Kentucky and adjoining states. Salem, 1875.

5 p. pl. 22<sup>cm</sup>.

From the American naturalist, vol. IX, May, 1875.

**Packard, Alpheus Spring.** On the cave fauna of Indiana . . . [Salem, 1873] 98-97 p. 24<sup>1/2</sup><sup>cm</sup>.

From the Fifth annual report of the trustees of the Peabody academy of science, for the year 1872.

**Wickham, Henry Wickham.** . . . A collection of Indiana cave beetles . . . [Indianapolis] 1896.

[198]-[198] p. illus. 22<sup>1/2</sup><sup>cm</sup>.

From the 21st annual report of the Department of geology and natural resources of Indiana. 1896.

## MEDICAL ENTOMOLOGY.

**Chaumeton, François Pierre.** Essai d'entomologie médicale, présenté et soutenu à l'École spéciale de médecine de Strasbourg, le 21 floréal an XIII, à 3 heures après midi; par F. Chaumeton . . . Strasbourg, De l'impr. de Levrault, 1805.

2 p. l., 34 p. 26<sup>cm</sup>.

Agr 4—264

**Huber, Johann Christopher.** Bibliographie der klinischen entomologie. (Hexapoden, acarinen.) Von med.-rath Dr. J. Ch. Huber . . . Jena, Druck der Frommannschen buchdruckerei (Hermann Pohle) 1899-1900.

4 pts. 23<sup>cm</sup>.

CONTENTS.—**heft. 1.** Sarcopsylla, Pulex, Acanthia, Pediculidæ. 1899.—**heft. 2.** Demodex, Leptus, Dermanyssus, Argas, Ixodes, Pediculoides, Tetranychus, Tyroglyphus und diverse pseudoparasiten. 1899.—**heft. 3.** Diptera (musceiden und oestridenten), Sarcophila, Sarcophaga, Calliphora, Anthomyia,

Musca, Lucilia, Teichomyza, Compsomyia, Hypoderma, Dermatobia, Ochromyia. 1899.—heft. 4. *Sarcoptes scabiei* (von Wichmann bis 1899). Deutschland, Frankreich, England, Nordamerika, Niederlande, Scandinavien, Italien, etc.—Synonymik, etymologie, iconographie. Norwegische krätze. *Psora bestiarum*. Anhang (*symbiotes felis*) 1900.

**Johnson, Wyatt Galt.** On the medico-legal application of entomology. By Wyatt Johnston . . . and Geo. Villeneuve . . . Montreal, 1897.

10 p. folded tab. 25<sup>cm</sup>.

Reprinted from the Montreal medical journal, August, 1897.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Un nouveau cas d'application de l'entomologie à la médecine légale par MM. J. Lichtenstein, A. Moitessier et A. Jaumes. Montpellier, 1885.

7 p. 23<sup>cm</sup>.

Extrait du Montpellier médical (février 1885)

**Mégnin, Pierre i. e. Jean Pierre.** . . . La faune des cadavres; application de l'entomologie à la médecine légale, par P. Mégnin . . . Paris, G. Masson [etc.] [1894]

214 p., 11. illus. 19<sup>4</sup><sup>cm</sup>. (Encyclopédie scientifique des aide-mémoire, pub. sous la direction de M. Léauté . . .)

**Yovanovitch, Georges P.** Entomologie appliquée à la médecine légale (avec 5 planches) par le Dr. Georges P. Yovanovitch . . . Paris, Librairie Ollier-Henry, 1888.

Agr 5-48

5 p. l., 132 p. v col. pl., fold. table. 24<sup>4</sup><sup>cm</sup>.

"Bibliographie:" p. [131]-132.

## FOSSIL INSECTS. BIBLIOGRAPHY.

**Scudder, Samuel Hubbard.** . . . A bibliography of fossil insects. By Samuel H. Scudder. Republished from the Bulletin of Harvard university. Cambridge, Mass., University press, J. Wilson and son, 1882.

47 p. 23<sup>cm</sup>. (Library of Harvard university. Bibliographical contributions. Ed. by Justin Winsor, librarian. No. 13)

## FOSSIL INSECTS.

**Brongnart, Charles J. E.** . . . Note rectificative sur quelques diptères tertiaires et en particulier sur un diptère des marnes tertiaires (miocène inférieur) de Chadrat (Auvergne), la *Protomyia Oustaleti* qui devra s'appeler *Plecia Oustaleti* . . . Lille, 1878.

1 p. l. [73]-81 p. 21<sup>4</sup><sup>cm</sup>.

Extrait du Bulletin scientifique du Département du Nord. 1<sup>re</sup> année, no. 4, avril, 1878, p. 73.

**Brongnart, Charles J. E.** . . . Note sur une nouvelle espèce de diptère fossile du genre *Protomyia* (*P. Oustaleti*), trouvée à Chadrat (Auvergne) . . . [Paris, 1876]

[459]-460 p. pl. 23<sup>cm</sup>.

Extrait du Bulletin de la Société géologique de France, 3<sup>e</sup> série, t. iv.

**Brongnart, Charles J. E.** Note sur un nouveau genre d'orthoptère fossile de la famille des phasmiens provenant des terrains supra-houillers de Commeny (Allier) (*Protophasma Dumasii*) . . . [Paris, 1878]

9 p. 1 pl. 23<sup>cm</sup>.

From Annales des sciences naturelles, 6<sup>e</sup> série, zoologie, tome 7.

**Butler, Arthur Gardiner.** . . . Notes on the impression of *Palæontina oolitica* in the Jermyn street museum . . . [London] 1874.

3 p. 1 pl. 22<sup>4</sup><sup>cm</sup>.

Cover-title: On a fossil butterfly.

Extracted from the Geological Magazine, decade II, vol. I, no. 10, October, 1874.

**Butler, Arthur Gardiner.** . . . On a fossil butterfly belonging to the family Nymphalidæ, from the Stonesfield slate near Oxford, with notices of two other foreign forms from France and Croatia . . . [London] 1873.

3 p. 1 pl. 22<sup>4</sup><sup>cm</sup>.

Cover-title: Notes on fossil insects-remains and on the oldest known fossil butterfly.

Extracted from the Geological magazine, vol. X, no. 1, January, 1873.



**Deichmüller, Johannes V.** . . . Fossile insecten aus dem diatomeenschiefer von Kutschlin bei Bilin, Böhmen, von Dr. J. V. Deichmüller . . . Mit 1 tafel nr. XXI. Eingegangen bei der Akademie den 19. juli 1881. Halle, 1881.  
39 p. 1 pl. 32<sup>em</sup>. (Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher. bd. 42, nr. 6 (p. 298-331))

**Dohrn, Anton, i. e. Felix Anton.** Zur kenntniss der insecten in den primärformationen . . . [Cassel, 18-]  
[129]-184, [2] p. pl. 31½ x 24<sup>em</sup>.  
From Dunker, Meyer & Zittel's Palaeontographica, v. 16.

**Etheridge, Robert.** . . . The mesozoic and tertiary insects of New South Wales. By R. Etheridge, junr. . . and A. Sidney Olliff . . . Issued by direction of the Hon. Sydney Smith, M. P., minister for mines and agriculture. Sydney, C. Potter, government printer, 1890. Agr 4-274  
xi, 12, [2] p., 1 l. II pl. 30<sup>em</sup>. (Dept. of mines. Memoirs of the Geological survey of New South Wales . . . Palaeontology, no. 7)

**Germar, Ernst Friedrich.** Die versteinerten insecten Solenhofens. Beschrieben vom Professor Germar . . . [Halle, 1837]  
1 p. l., [189]-222 p. 3 col. pl. (1 fold.) 30½<sup>em</sup>.  
From Nova acta Academiae Caesareae Leopoldino-Carolinae Naturae curiosorum, v. XIX, p. I. Bei der Akademie eingegangen den 15. Juni 1837.

**Hagen, Hermann August.** . . . The Devonian insects of New Brunswick . . . Cambridge, 1881.  
cover-title, [275]-284 p. 24<sup>em</sup>. (Bulletin of the Museum of comparative zoology, at Harvard college. vol. VIII. no. 14)

**Hagen, Herrman August.** Die devonischen insecten . . . [Leipzig] 1885.  
5 p. 23<sup>em</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 195. 1885.

**Loew, Hermann.** . . . On the Diptera or two-winged insects of the amber-fauna. (Ueber die diptern-fauna des bernsteins): a lecture . . . at the meeting of the German naturalists in Königsberg, in 1861. [New Haven, 1864]  
20 p. 24<sup>em</sup>.  
From the Am. jour. of science and arts, vol. XXXVII, May, 1864, p. [305]-324.

**Novák, Ottomar.** . . . Fauna der cyprisschiefer des Egerer tertiärbeckens . . . [Wien] 1877.  
26 p. III pl. 24½<sup>em</sup>.  
Aus dem LXXVI. bande der Sitzb. der K. Akad. der wissensch. 1. abth. juli-heft. jahrg. 1877.

**Packard, Alpheus Spring.** The systematic position of the Archipolypoda, a group of fossil myriopods. [Philadelphia, 1883]  
326-329 p. illus. 22<sup>em</sup>.  
From the American naturalist, March, 1883, vol. XVII.

**Scudder, Samuel Hubbard.** . . . An account of some insects of unusual interest from the tertiary rocks of Colorado and Wyoming . . . Washington, 1878.  
cover-title, 519-543 p. 22<sup>em</sup>.  
At head of title: Author's edition. Department of the interior. United States geological and geographical survey . . .  
Extracted from the Bulletin of the Survey, vol. IV, no. 2.

**Scudder, Samuel Hubbard.** . . . The American tertiary Aphidæ . . . Washington, 1894.  
cover-title, 341-366 p. CII-CVI pl. 29½<sup>em</sup>.  
Extract from the Thirteenth annual report of the Director, U. S. Geological survey, 1891-92.

**Scudder, Samuel Hubbard.** . . . Canadian fossil insects . . . [n. p., 1891]-1900.  
Pt. 1-4. plates. 24<sup>em</sup>. (pt. 3-4. 25½<sup>em</sup>.)  
Pt. 4 published in Ottawa.

From Geological survey of Canada. Contributions to Canadian palaeontology, vol. II.  
CONTENTS.—1. The tertiary Hemiptera of British Columbia.—2. The Coleoptera hitherto found fossil in Canada.—3. Notes upon myriapods and arachnids found in sigillarian stumps in the Nova Scotia coal field.—4. Additions to the coleopterous fauna of the interglacial clays of the Toronto district. With an appendix by A. D. Hopkins on the scolytid borings from the same deposits.

- Scudder, Samuel Hubbard.** The cockroach of the past . . . London, 1886.  
cover-title, [205]-219, [1] p. illus. 22<sup>cm</sup>.  
Reprinted from The structure and life-history of the cockroach (*Periplaneta orientalis*) By L. C. Miall and Alfred Denny.
- Scudder, Samuel Hubbard.** . . . A contribution to our knowledge of paleozoic Arachnida . . . [Boston, 1885]  
13-22 p. 24<sup>cm</sup>.  
From Proceedings of the American academy of arts and sciences. new series, vol. XII; whole series, vol. XX.
- Scudder, Samuel Hubbard.** . . . Description d'un nouveau papillon fossile (*Satyrites reynesii*) trouvé à Aix en Provence . . . [Paris, 1872]  
7 p. pl. 21<sup>cm</sup>.  
Extrait de la Revue et magasin de zoologie. (1872)
- Scudder, Samuel Hubbard.** Description of an articulate of doubtful relationship from the tertiary beds of Florissant, Colorado . . . Washington, 1885.  
6 p. illus. 29<sup>cm</sup>.  
From National academy of sciences. v. III.
- Scudder, Samuel Hubbard.** . . . The Devonian insects of New Brunswick. By Samuel H. Scudder. Boston, Published by the society, 1880. Agr 4-294  
41 p. pl. 30<sup>cm</sup>.  
At head of title: 1880. Anniversary memoirs of the Boston society of natural history. 1880.
- Scudder, Samuel Hubbard.** . . . Dictyoneura and the allied insects of the carboniferous epoch . . . [Boston, 1885]  
167-178 p. 24<sup>cm</sup>.  
From Proceedings of the American academy of arts and sciences. New series, vol. XII; whole series, vol. XX.
- Scudder, Samuel Hubbard.** The earliest winged insects of America. A reexamination of the Devonian insects of New Brunswick in the light of criticisms and of new studies of other paleozoic types. By Samuel H. Scudder . . . Cambridge, Mass., Published by the author, 1885. Agr 4-295  
cover-title, 8 p. illus., pl. 29<sup>cm</sup>.
- Scudder, Samuel Hubbard.** . . . The effect of glaciation and of the glacial period on the present fauna of North America . . . [New Haven] 1894.  
[179]-187 p. 23<sup>cm</sup>.  
From the American journal of science, vol. XLVIII, Sept., 1894.
- Scudder, Samuel Hubbard.** Fossil butterflies. By Samuel H. Scudder. [Salem, Mass., 1875]  
6 p. l., 99 p. illus., III pl. 31<sup>cm</sup>. (Memoirs of the American association for the advancement of science. I)  
"Bibliography:" p. 1-7.
- Scudder, Samuel Hubbard.** . . . The fossil cockroaches of North America . . . [Ottawa, 1895]  
147-158 p. 30<sup>cm</sup>.  
From the Proceedings and transactions of the Royal society of Canada for the year 1894. vol. XII.
- Scudder, Samuel Hubbard.** . . . Fossil Coleoptera from the Rocky Mountain tertiaries . . . Washington, 1876.  
cover-title, [77]-87 p. 23<sup>cm</sup>.  
Extracted from Bulletin of the Geological and geographical survey of the territories. vol. II, no. 1.
- Scudder, Samuel Hubbard.** Fossil insects collected in 1877 by Mr. G. M. Dawson, in the interior of British Columbia . . . [Montreal, 1879?]  
11 p. 24<sup>cm</sup>.  
"From the Report of progress, 1877-78, Geological survey of Canada."
- Scudder, Samuel Hubbard.** . . . The fossil insects of the Green River shales . . . [Washington, 1878]  
747-776 p. 23<sup>cm</sup>.  
From the Bulletin of the United States Geological and geographical survey of the territories. vol. IV, no. 4.

**Scudder, Samuel Hubbard.** . . . Fossil Orthoptera from the Rocky Mountain  
tertiaries . . . Washington, 1876.

cover-title, [447]-449 p. 23<sup>cm</sup>.

Extracted from the Bulletin of the Geological and geographical survey of the territories, no. 6, 2d series.

**Scudder, Samuel Hubbard.** . . . The fossil white ants of Colorado : . .  
[Boston, 1884]

138-145 p. 24<sup>cm</sup>.

From the Proceedings of the American academy of arts and sciences. New series, vol. XI; whole series, vol. XIX.

**Scudder, Samuel Hubbard.** Illustrations of the carboniferous Arachnida of  
North America, of the orders Anthracomarti and Pedipalpi . . . [Boston, Pub-  
lished by the society, 1890]

448-456 p. 2 pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history, vol. IV.

**Scudder, Samuel Hubbard.** An inquiry into the zoölogical relations of the first  
discovered traces of fossil neuropterous insects in North America; with remarks on  
the difference of structure on the wings of living Neuroptera . . . [Boston, 1866?]

20 p. pl. 29<sup>4</sup><sup>cm</sup>.

From Boston society of natural history. Memoir 1.

**Scudder, Samuel Hubbard.** . . . Insect fauna of the Rhode Island coal field,  
by Samuel Hubbard Scudder. Washington, Gov't print. off., 1893.

27 p. II pl. 24<sup>cm</sup>. (*Added t.p.*: Department of the interior. Bulletin of the United States geo-  
logical survey, no. 101)

**Scudder, Samuel Hubbard.** The insects of the tertiary beds at Quesnel (British  
Columbia) . . . [Montreal, 1877]

cover-title, 15 p. 23<sup>cm</sup>.

From the Report of progress 1875-76, Geological survey of Canada.

**Scudder, Samuel Hubbard.** . . . The insects of the triassic beds at Fairplay,  
Colorado . . . [Boston, Published by the society, 1890]

457-472 p. 2 pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. IV.

**Scudder, Samuel Hubbard.** . . . New carboniferous Myriapoda from Illinois  
. . . Read May 7, 1890. [Boston, Published by the society, 1890]

417-442 p. 6 pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. IV.

**Scudder, Samuel Hubbard.** . . . New genera and species of fossil cockroaches,  
from the older American rocks . . . [Philadelphia, 1886]

34-39 p. 24<sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. 1885.

**Scudder, Samuel Hubbard.** . . . New types of cockroaches from the carbon-  
iferous deposits of the United States . . . [Boston, Published by the society, 1890]

401-415 p. 2 pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. IV.

**Scudder, Samuel Hubbard.** . . . Notes on mesozoic cockroaches . . . Phila-  
delphia, 1886]

105-115 p. 23<sup>4</sup><sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. 1885.

**Scudder, Samuel Hubbard.** . . . The oldest known insect-larva, Mormolu-  
coides articulatus, from the Connecticut River rocks . . . [Boston, Published by the  
society, 1886]

431-438 p. pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. III.

**Scudder, Samuel Hubbard.** . . . On the first discovered traces of fossil insects in the American tertiaries, and on two new Carabidæ from the interglacial deposits of Scarboro' Heights, near Toronto, Canada . . . Washington, 1877.

cover-title, 741-764 p. 23<sup>cm</sup>.

At head of title: Author's edition. Department of the interior. United States geological and geographical survey . . .

Extracted from the Bulletin of the Survey, vol. III, no. 4.

**Scudder, Samuel Hubbard.** On the fossil insects from Illinois, the Miamia and Hermeristia . . . [New Haven, 1865]

[268]-271 p. 24<sup>cm</sup>.

From the American journal of science, xI, Sept., 1865.

**Scudder, Samuel Hubbard.** . . . Palæodictyoptera: or The affinities and classification of paleozoic hexapoda . . . [Boston, Published by the society, 1885]

[319]-351 p. 4 pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. III.

**Scudder, Samuel Hubbard.** . . . Physiognomy of the American tertiary Hemiptera . . . [Boston 1889]

[562]-579 p. 24<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. xxiv, 1889.

**Scudder, Samuel Hubbard.** . . . A review of mesozoic cockroaches . . . [Boston, Published by the society, 1886]

439-485 p. 3 pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. III.

**Scudder, Samuel Hubbard.** . . . The species of Mylacris, a carboniferous genus of cockroaches . . . [Boston, Published by the society, 1884]

[299]-309 p. pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. III.

**Scudder, Samuel Hubbard.** The structure and affinities of Euphoberia Meek and Worthen, a genus of carboniferous Myriapoda . . . [New Haven, 1881]

[182]-186 p. 23½<sup>cm</sup>.

From the American journal of science, vol. xxi, March, 1881.

**Scudder, Samuel Hubbard.** . . . Systematic review of our present knowledge of fossil insects including myriapods and arachnids . . . Washington, 1886.

128 p. 25<sup>cm</sup>. (*Added t.p.*: Bulletin of the United States geological survey, no. 31)

**Scudder, Samuel Hubbard.** Systematische übersicht der fossilen myriopoden, arachnoideen und insekten . . . München und Leipzig, R. Oldenbourg, 1885.

1 p. l., [721]-831 p. illus. 23½<sup>cm</sup>.

Sonderabzug aus Zittel, Handbuch der palæontologie. 1. abth., Palæozoologie. bd. II.

**Scudder, Samuel Hubbard.** Tertiary Tipulidæ, with special reference to those of Florissant, Colorado . . . [Philadelphia, 1893]

cover-title, 83 p. IX double pl. 25<sup>cm</sup>.

A paper presented to the American philosophical society, on the occasion of the celebration of the 150th anniversary of its foundation, May 22-26, 1893.

Reprinted April 4, 1894, from Proc. Amer. philos. soc., vol. xxxii.

**Scudder, Samuel Hubbard.** . . . Two new and diverse types of carboniferous myriapods . . . [Boston, Published by the society, 1884]

[283]-297 p. 2 pl. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. III.

**Scudder, Samuel Hubbard.** . . . Winged insects from a paleontological point of view, or The geological history of insects . . . [Boston, Published by the society, 1885]

[353]-358 p. 30<sup>cm</sup>.

From Memoirs of the Boston society of natural history. Vol. III.

**Unger, Franz.** Fossile insecten . . . [Halle, 1839]

1 p. l., [415]-428 p. 2 pl. 30½<sup>cm</sup>.

Plates wanting.

From Nova acta Academiæ Cæsareæ Leopoldino-Carolinæ Germanicæ naturæ curiosorum.

- Westwood, John Obadiah.** . . . Contributions to fossil entomology . . .  
[London, 1854]  
378-396 p. 14-18 pl. 22<sup>em</sup>.  
From the Quarterly journal of the Geological society of London. Vol. x.

## GALLS (CECIDIÆ).

- Bargagli, Piero, marchese.** Notizie sopra alcuni entomoceci e sui loro abitatori . . . Firenze, 1895.  
[39]-43 p. 25<sup>em</sup>.  
Estratto dal Bullettino della Società botanica italiana. (Adunanza della sede di Firenze del 13 gennaio 1895)
- Beutenmüller, William.** . . . Catalogue of gall-producing insects found within fifty miles of New York City, with descriptions of their galls, and of some new species . . . New York, 1892.  
cover-title, 245-278 p. ix-xvi pl. 24<sup>1/2</sup><sup>em</sup>.  
Author's edition, extracted from Bulletin of the American museum of natural history, vol. iv, no. 1, article xv, pp. 245-278.
- Beutenmüller, William.** The insect-galls of the vicinity of New York City. A guide leaflet to the collection in the American museum of natural history, New York . . . New York, 1904.  
38 p. illus. 25<sup>em</sup>.  
Guide leaflet no. 16. Reprinted from the American museum journal, vol. iv, no. 4, October, 1904.
- Brischke, C. G. A.** . . . Die pflanzen-deformationen (gallen) und ihre erzeuger in Danzigs umgebung . . . Danzig [1882]  
15 p. 24<sup>1/2</sup><sup>em</sup>.  
Separat-abdruck aus dem Berichte über die 4. versammlung des Westpr. bot.-zool. vereins zu Elbing. Schr. d. naturf. ges. zu Danzig. n. f. bd. v. h. 3.
- Brodie, William.** Gall-producing insects infesting Canadian oaks . . . [Toronto, 1896]  
114-118 p. illus. 25<sup>em</sup>.  
From the Annual report of the clerk of forestry of the Province of Ontario, 1896, p. 114-118.
- Cameron, Peter.** On the galls of mid-Cheshire . . . [Manchester, 1891-92]  
2 pts. 3 pl. 21<sup>em</sup>.  
Reprinted from the Transactions and annual report of the Manchester microscopical society, 1891-1892.
- Cameron, Peter.** On the origin of the forms of galls . . . [Glasgow] 1883.  
10 p. 22<sup>em</sup>.  
From the Transactions of the Natural history society of Glasgow, v. 1, 1883.
- Clarke, Cora H.** Galls found near Boston . . . [Boston, 1890]  
11 p. 23<sup>em</sup>.  
From the Transactions of the Massachusetts horticultural society, for the year 1890, pt. 1, p. 61-69.
- Cook, Melville Thurston.** . . . Galls and insects producing them . . . [Columbus, 1902-04]  
Pt. 1-9, and appendix. illus., pl. 23<sup>em</sup>. (Ohio state university. Contributions from the Department of zoology and entomology. no. 8, 11, 17)  
Reprinted from Ohio naturalist, vol. II, p. 263-278; vol. III, p. 419-436; vol. IV, no. 6, p. [115]-147. . .  
Contains bibliographies.
- Dalla Torre, Karl Wilhelm von.** Die zooecidien und cecidozoen Tirols und Vorarlbergs . . . [Innsbruck, 1892]  
[90]-172 p. 20<sup>1/2</sup><sup>em</sup>.  
Separat-abdruck aus den Berichten des naturwissenschaftlich-medizinischen vereines in Innsbruck pro 1891-92.
- Darboux, G.** Catalogue systématique des zooécidies de l'Europe et du bassin méditerranéen, par G. Darboux, [et] C. Houard, avec une préface par Alfred Giard . . . Paris, Laboratoire d'évolution des êtres organisés, 1901.  
3 p. l., xi, 544 p. illus. 25<sup>em</sup>. (Half-title: Bulletin scientifique de la France et de la Belgique t. xxxiv bis. 6. sér.-volume supplémentaire, 1901)

**Fockeu, Henri.** Recherches anatomiques sur les galles; étude de quelques dip-téroécidies et acarocécidies (avec douze planches hors texte) Par H. Fockeu . . . Paris, Société d'éditions scientifiques, 1896. Agr 3—184  
162 p. XII pl. 25<sup>em</sup>.

**Frauenfeld, Georg, Ritter von.** Die gallen. Versuch die durch insecten an den pflanzen verursachten auswüchse nach ihren haupttypen und wachstumsverhältnissen naturgemäss zu gruppieren . . . [Wien, 1855]  
14 p. 23<sup>em</sup>.

Aus dem februarhefte des jahrganges 1855 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften. <bd. xv, S. 255> besonders abgedruckt.

**Froggatt, Walter Wilson.** . . . The growth of vegetablegalls . . . Sydney, 1898. 1 p. l., 19 p. 4 pl. 25<sup>em</sup>. (Department of agriculture, Sydney, New South Wales, Miscellaneous publication, no. 221)

From Agricultural gazette of N. S. Wales, vol. IX, April, May, 1898.

**Fuller, Claude.** . . . Plant galls formed by insects. Notes on some passive means of defence . . . Sydney, 1896.

5, [1] p. illus., pl. 25<sup>em</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 117)

From the Agricultural gazette of New South Wales, vol. VII, 1896.

**Gaede, Heinrich Moritz.** Physiologische bemerkungen über die sogenannten gallgefässe der insecten, von Dr. H. M. Gaede . . . [Halle, 1821]

1 p. l., [327]—342 p. 27½<sup>em</sup>.

From Nova acta Acad. Cæs. Leopold.-Carol. Germ. nat. cur. Vol. XI.

**Giard, Alfred.** Sur une galle produite chez le Typhlocyba rosæ L. par une larve d'hyménoptère . . . [Paris, 1889]

4 p. 27 x 21½<sup>em</sup>.

From Comptes rendus . . . de l'Académie des sciences, v. 109, p. 79—82.

**Lagerheim, Gustave de.** Ueber dipteroecidien auf Carex-arten . . . [Tromsø, Norway, 1893]

[168]—174 p. 23½<sup>em</sup>.

From Tromsø museums Aarshefter 16, 1893.

**Müller, Albert.** British gall-insects by Albert Müller . . . Reprinted with a few slight additions from "The entomologists' annual for MDCCCLXXII." Basle, Printed by G. A. Bonfantini, 1876.

23 p. 22½<sup>em</sup>.

**Rübsaamen, Ewald H.** Über russische zooecidien und deren erzeuger . . . [Moscou, 1895] \*

[396]—488 p. illus., XI—XVI pl. 25<sup>em</sup>.

Caption title.

From Bulletin de la Société impériale des naturalistes de Moscou, 1895, nouv. sér., t. IX.

**Schlechtendal, Diederich Hermann Reinhart von.** Die gallbildungen <zooecidien> der deutschen gefässpflanzen. Eine anleitung zur bestimmung derselben von Dr. D. H. R. von Schlechtendal . . . Zwickau, R. Zückler, 1891.

1 p. l., 122 p. 22<sup>em</sup>.

Aus dem Jahresbericht des Vereins für naturkunde zu Zwickau für das jahr 1890 besonders abgedruckt.

— Die gallbildungen deutscher gefässpflanzen. Nachträge und berichtigungen . . . [Zwickau, 1891]

10 p. 22½<sup>em</sup>.

Sonderabdruck a. d. Jahresbericht des Vereins für naturkunde zu Zwickau 1891.

**Thomas, Friedrich August Wilhelm.** Dauerfaltungen der rothbuchenblätter als folge der einwirkung von arthropoden . . . [München] 1894.

[321]—327 p. 24<sup>em</sup>.

From Forstlich-naturwissenschaftliche zeitschrift. III. jahrg., August 1894.

**Thomas, Friedrich August Wilhelm.** Die fenstergalle des Bergahorns . . . [München] 1895.

[429]—437 p. illus. 23½<sup>em</sup>.

From Forstlich-naturwissenschaftliche zeitschrift, IV. jahrg, November 1895.

**Thomas, Friedrich August Wilhelm.** Ueber das heteropteroecidium von *Teucrium capitatum* und anderen *Teucrium*-arten . . . [Berlin, 1890]

[103]-107 p. 24<sup>em</sup>.

Separat-abdruck aus den Abhandlungen des Botanischen vereins der provinz Brandenburg xxxi.

**Thomas, Friedrich August Wilhelm.** . . . Ueber die von M. Girard kürzlich beschriebenen gallen der birnbäume . . . [Berlin] 1880.

[4] p. 24<sup>em</sup>.

Separat-abdruck aus der Monatsschrift des Vereins zur beförderung des gartenbaues in den königl. preuss. staaten. (Juni-heft 1880) p. 279-283.

**Thomas, Friedrich August Wilhelm.** Ueber einige neue exotische cecidien . . . [Berlin, 1889]

101-109 p. illus. 23 $\frac{1}{2}$ <sup>em</sup>.

From Sitzungsbericht der Gesellschaft naturforschender freunde zu Berlin vom 16. April 1889. Nr. 4.

**Trotter, Alessandro.** "Cecidotheca italica;" o, Raccolta di galle italiane determinate, preparate ed illustrate . . . Padova, 1900-04.

Fasc. 1-12 (n. 1-300) 32 $\frac{1}{2}$ <sup>em</sup>.

Fasc. 9-12, pub. in Avellino.

At head of title: Dr. A. Trotter e Dr. G. Cecconi.

Consists of dried specimens, with letterpress descriptions, mounted on detached sheets.

## INSECTS AND FLOWERS.

**Avebury, John Lubbock, 1st baron . . .** On British wild flowers considered in relation to insects. By . . . Sir John Lubbock . . . London, New York, Macmillan and co., 1893.

xvi, 194 p. incl. front., illus. 18 $\frac{1}{2}$ <sup>em</sup>. (Nature series)

**Avebury, John Lubbock, 1st baron . . .** On the attraction of flowers for insects . . . [London, 1897?]

[270]-278 p. 22<sup>em</sup>.

Extracted from the Linnean society's journal—Botany, vol. xxxiii.

**Bargagli, Piero, marchese . . .** Ricerche sulle relazioni più caratteristiche tra gli insetti e le piante . . . Firenze, 1888.

20 p. 23 $\frac{1}{2}$ <sup>em</sup>.

Estratto dagli Atti della R. Accademia dei Georgofili, anno 1888. Vol xi.

**Bennett, Alfred William.** Insects and flowers . . . [London, 1875]

[113]-125 p. cxix-cxx pl. 22<sup>em</sup>.

From the Popular science review, vol. xiv.

**Darwin, Charles Robert.** The various contrivances by which orchids are fertilised by insects. By Charles Darwin . . . (2d ed. rev.) New York, D. Appleton & co., 1892.

xvi, 300 p. illus. 19 $\frac{1}{2}$ <sup>em</sup>.

**Higley, William K. . . .** A paper on the northern pitcher plant or the side-saddle flower, *Sarracenia purpurea*, L. . . . Lake Geneva, Wis., 1885.

[41]-55 p. illus. 23 $\frac{1}{2}$ <sup>em</sup>.

From the Bulletin of the Chicago academy of sciences. Vol. i, no. v.

**Hopkins, Andrew Delmar.** On the flowering habits of timothy and red clover and the pollenization of the flowers by insects . . . [n. p.] 1896.

35-40 p. 23 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the seventeenth meeting of the Society for the promotion of agricultural science, held at Buffalo, N. Y., August, 1896.

**Lagerheim, Gustave de.** Note sur une cypéracée entomophile (*Dichromena ciliata* Vahl) . . . [Paris, 1893]

3 p. 25<sup>em</sup>.

Extrait du Journal de botanique. Numéro du 16 mai 1893.

**Müller, Hermann.** Alpenblumen, ihre befruchtung durch insekten und ihre anpassungen an dieselben, Von Dr. Hermann Müller . . . Leipzig, W. Engelmann, 1881.

iv 611 n. illus. 24<sup>em</sup>.

- Müller, Hermann.** Die entwicklung der blumenthätigkeit der insekten . . . [Stuttgart] 1881.  
4 nos. 24½<sup>cm</sup>.  
Separat-abdruck aus "Kosmos." v. jahrgang 1881, p. 204-215, 258-272, 351-370, 415-432.
- Müller, Hermann.** The fertilisation of flowers, by Prof. Hermann Müller, tr. and ed. by D'Arcy W. Thompson . . . with a preface by Charles Darwin . . . London, Macmillan and co., 1883.  
x, [2] p., 1 l., 669, [1] p. illus. 23<sup>cm</sup>.
- Müller, Hermann.** Die wechselbeziehungen zwischen den blumen und den ihre kreuzung vermittelnden insekten . . . [Breslau, 1879]  
112 p. illus. 25<sup>cm</sup>.  
From Handbuch der botanik, hrsg. von professor Dr. A. Schenk. 1. bd.
- Needham, James George.** The fruiting of the blue flag (*Iris versicolor* L.) . . . [Boston, 1900]  
361-386 p. illus. 24<sup>cm</sup>.  
From the American naturalist. vol. xxxiv, no. 401. May, 1900.
- Packard, Alpheus Spring.** Moths entrapped by an asclepiad plant (*Physianthus*) and killed by honey bees. [Philadelphia, 1880]  
48-50 p. 22<sup>cm</sup>.  
From the American naturalist, January, 1880. Vol. xiv.
- Pammel, Louis Hermann.** . . . On the pollination of *Phlomis tuberosa*, L., and the perforation of flowers. By L. H. Pammel. [St. Louis, 1888] Agr 3-238  
cover-title, 1 p. l., 241-277 p. 6-7 pl. 23<sup>cm</sup>. (Contributions from the Shaw school of botany. no. 1)  
From the Transactions of the St. Louis academy of science, vol. v, no. 1.  
"List of papers consulted in connection with this work": p. 265-273.
- Riley, Charles Valentine.** Bemerkungen über *Pronuba yuccasella* und über die befruchtung der *Yucca*-arten . . . [n. p., 1876]  
377-382 p. 22<sup>cm</sup>.  
Translation of an article published in Transactions of the Academy of science of St. Louis, 1876.
- Riley, Charles Valentine.** Descriptions and natural history of two insects which brave the dangers of *Sarracenia variolaris* . . . [St. Louis, 1878]  
235-240 p. illus. 23<sup>cm</sup>.  
From the Transactions of the Academy of science of St. Louis. Vol. III. 1868-1877.
- Riley, Charles Valentine.** . . . Further notes on the pollination of *yucca* and on *Pronuba* and *Prodoxus* . . . [Salem, 1881]  
23 p. illus. 25<sup>cm</sup>.  
From the Proceedings of the American association for the advancement of science, vol. xxix, Boston meeting, August, 1880.
- Riley, Charles Valentine.** . . . Further notes on *yucca* insects and *yucca* pollination . . . Washington, 1893.  
41-53 p. 1 pl. 24½<sup>cm</sup>.  
From the Proceedings of the Biological society of Washington, vol. VIII.
- Riley, Charles Valentine.** Further remarks on *Pronuba yuccasella*, and on the pollination of *yucca*. [St. Louis, 1878]  
25-30 p. 23½<sup>cm</sup>.  
From the Transactions of the Academy of science of St. Louis, vol. III, no. 4.
- Riley, Charles Valentine.** On a new genus in the lepidopterous family *Tineidæ*, with remarks on the fertilisation of *Yucca* . . . [St. Louis, 1873]  
55-64 p. illus. 25<sup>cm</sup>.  
From the Transactions of the St. Louis academy of science, vol. III.
- Riley, Charles Valentine.** . . . On the insects more particularly associated with *Sarracenia variolaris* (spotted trumpet-leaf) . . . [Salem, 1874]  
18-25 p. illus. 23½<sup>cm</sup>.  
From the Proceedings of the American association for the advancement of science, Hartford meeting, August, 1874.
- Riley, Charles Valentine.** . . . Some interrelations of plants and insects . . . Washington, D. C., 1892.  
cover-title, 81-104 p. illus. 25<sup>cm</sup>.  
From Proceedings of the Biological society of Washington. Vol. VII,



**Riley, Charles Valentine.** The yucca moth and yucca pollination . . . [St. Louis] 1892.

99-158 p. 34-43 pl. 23<sup>cm</sup>.

From the Third annual report of the Missouri botanical garden. Issued May 28, 1892.

**Robertson, Charles.** Flowers and insects. Contributions to an account of the ecological relations of the entomophilous flora and the anthophilous insect fauna of the neighborhood of Carlinville, Illinois . . . [St. Louis, 1896]

151-179 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

From Transactions of the Academy of science of St. Louis, vol. VII, no. 6.

Contains bibliographies.

**Rolfs, Mary C.** . . . Notes on the pollination of some Liliaceæ and a few other plants . . . [Des Moines] 1893.

98-100 p. 22 $\frac{1}{2}$ <sup>cm</sup>.

From Proceedings Iowa academy of sciences for 1893, vol. I, part IV.

**Schøyen, Wilhelm Maribo.** . . . Blomsterne og insekterne . . . [n. p., 1894] 9 p. 23<sup>cm</sup>.

Separataftryk af "For kirke og kultur," 1. hft. 1894.

**Thompson, D'Arcy Wentworth, jr.** A catalogue of books and papers relating to the fertilisation of flowers, comp. by D'Arcy W. Thompson, extracted from the English edition of Dr. Hermann Müllers "Fertilisation of flowers." London, Macmillan and co., 1883.

1 p. l., 36 p. 21 $\frac{1}{2}$ <sup>cm</sup>.

**Trelease, William.** Further studies of yuccas and their pollination . . . [St. Louis] 1893.

181-226 p. 19 pl. 23<sup>cm</sup>.

From the Fourth annual report of the Missouri botanical garden. Issued March 9, 1893.

**Tryon, Henry.** . . . Bees and orange blossoms . . . [Brisbane] 1898. 5 p. 25 $\frac{1}{2}$ <sup>cm</sup>.

Extract from the Queensland agricultural journal, vol. II, pt. I.

**Verhoeff, Carl Wilhelm.** . . . Blumen und insekten der insel Norderney und ihre wechselbeziehungen, ein beitrag zur insekten-blumenlehre und zur erkenntniss, biologischer und geographischer erscheinungen auf den deutschen Nordseeinseln. Von C. Verhoeff . . . Eingegangen bei der Akademie am 18. August 1892. Halle, 1893.

172 p. IV-VI pl. 32 $\frac{1}{2}$ <sup>cm</sup>. (Nova acta der Ksl. Leop.-Carol. Deutschen akademie der naturforscher. Bd. LXI, nr. 2)

**Wheatcroft, W. G.** Insects in relation to flowers . . . [n. p., 1888?] 100-103 p. 22<sup>cm</sup>.

From the Selborne magazine, vol. I, no. 7, July, 1888.

## CARNIVOROUS PLANTS.

**Darwin, Charles Robert.** Insectivorous plants. By Charles Darwin London, J. Murray, 1875.

x, 462 p. illus. 19<sup>cm</sup>.

**Edwards, Henry.** . . . Darlingtonia Californica Torrey . . . [San Francisco] 1875.

6 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

From the Proceedings of the California academy of sciences, September 6, 1875.

**Lugger, Otto.** Flesh-consuming plants. [n. p., n. d.] 21 p. plates. 23<sup>cm</sup>.

**Mellichamp, J. H.** . . . Notes on Sarracenia variolaris . . . [Salem, 1875] [113]-133 p. 24<sup>cm</sup>.

From the Proceedings of the American association for the advancement of science, Hartford meeting, August, 1874.

**Planchon, Jules Émile.** . . . Les plantes carnivores . . . [Paris] 1876. 31 p. 24<sup>cm</sup>.

Extrait de la Revue des deux mondes, livraison du 1<sup>er</sup> février 1876.

**Potonié, Henry.** Eine wenig beachtete vegetabilische fliegenfalle. [Stuttgart, 1882]

139-140 p. illus. 24<sup>cm</sup>.

Separat-abdruck aus Kosmos. Stuttgart, november 1882.

### CAPRIFICATION.

**Cunningham, David Douglas.** On the phenomena of fertilization in *Ficus Roxburghii*, Wall. By D. D. Cunningham. Calcutta, Bengal secretariat press, 1889.

1 p. l., 37 p. v pl. (4 col.) 39½<sup>cm</sup>.

**Eisen, Gustav.** Caprification of the fig. (U. S.—Agriculture, Dept. of—Pomology, Division of. Bulletin no. 9, p. 74-128. illus., 6 pl. Washington, 1901)

**Froggatt, Walter Wilson.** . . . Insects living in figs, with some account of caprification . . . Sydney, 1900.

1 p. l., 10 p. pl. 25<sup>cm</sup>. (Dept. of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 388)

"Bibliography": p. 9-10.

"From Agricultural gazette of N. S. Wales, June, 1900."

**Howard, Leland Ossian.** Smyrna fig culture in the United States. (U. S. Agriculture, Dept. of. Yearbook, 1901. Washington, 1901. p. 79-106. illus., 8 pl.)

**Mayer, Paul.** Zur naturgeschichte der feigeninsecten . . . [Leipzig? 1882]

[551]-590 p. illus., xxv-xxvi pl. (1 double) 24<sup>cm</sup>.

Abdruck aus den Mittheilungen aus der Zoologischen station zu Neapel. III. bd., 4. hft.

"Historische übersicht über die schriften": p. 577-587.

**Mayr, Gustav L.** Feigeninsecten . . . Wien, 1885.

110 p. xi-xiii pl. 22½<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1885> besonders abgedruckt.

**Solms-Laubach, Hermann, graf zu.** Die herkunft, domestication und verbreitung des gewöhnlichen feigenbaums. (*Ficus carica* L.) Von H. grafen zu Solms-Laubach . . . Göttingen, Dieterichsche verlags-buchhandlung, 1882. Agr 4-428

1 p. l., 106 p. 27½<sup>cm</sup>.

Aus dem 28. bande der Abhandlungen der Königlichen gesellschaft der wissenschaften zu Göttingen.

Literature: p. 4-5.

### BIRDS AND INSECTS.

**Aughey, Samuel.** Notes on the nature of the food of the birds of Nebraska. [Washington, 1878]

50 p. 23<sup>cm</sup>. (U. S. Entomological commission. Report 1. Appendix 2)

**Bailey, Mrs. Florence Augusta (Merriam)** How birds affect the farm and garden. A series of facts determined by investigation of the food habits of our common birds, showing their character as insect destroyers and their value as allies of the farmer and fruit grower . . . New York [1896]

31 p. illus. 18<sup>cm</sup>.

Reprinted from "Forest and stream."

**Beal, Foster Ellenborough Lascelles.** . . . Economic relations of birds and their food . . . [Mount Holly, 1899]

27 p. 21½<sup>cm</sup>.

Reprinted from the Proceedings of the twenty-fourth annual meeting of the New Jersey state horticultural society, January 4th and 5th, 1899.

**Boas, Johan Erik Vesti.** Nogle bemærkninger om spætternes forstlige betydning. [Kjøbenhavn, n., d.]

7-14 p. 20<sup>cm</sup>. (Skoven og dyrelivet. I)

Særtryk af "Tidsskrift for skovvæsen." I. bd.

**Forbes, Stephen Alfred.** The food of birds. The thrush family . . . [Chicago] 1879.

120-172 p. 22<sup>cm</sup>.

From Transactions Illinois state horticultural society, vol. XIII, 1879.

**Forbes, Stephen Alfred.** . . . The regulative action of birds upon insect oscillations . . . [Peoria, Ill., 1882]

31 p. 23<sup>cm</sup>.

From Bulletin no. 6, Ill. state lab. of nat. hist., Normal, Ill., Dec., 1882.

**Forbes, Stephen Alfred.** The relations of birds to horticulture. [Jefferson City, 1880]

170-183 p. 23<sup>cm</sup>.

From the 23d annual report of the Missouri state horticultural society, 1880.

**French, Charles.** . . . Economic entomology and ornithology; some of the advantages to be derived from their study . . . [Melbourne, 1902]

59-68 p. 25<sup>cm</sup>.

From the Journal of the Department of agriculture of Victoria, Jan., 1902, vol. 1.

**French, Charles.** On the necessity for the preservation of our insect-destroying birds, with an alphabetical list of the principal kinds . . . [Melbourne, 1902]

69-73 p. 25<sup>cm</sup>.

From the Journal of the Department of agriculture of Victoria, Jan., 1902, vol. 1.

**Froggatt, Walter Wilson.** . . . Insects and birds . . . Sydney, 1900.

1 p. l., 11 p. 25<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 387).

From Agricultural gazette of N. S. Wales, June, 1900.

**Judd, Sylvester Dwight.** . . . The efficiency of some protective adaptations in securing insects from birds . . . [Boston] 1899.

[461]-484 p. 24<sup>cm</sup>.

From the American naturalist. vol. xxxiii, June, 1899.

**Judd, Sylvester Dwight.** Methods in economic ornithology, with special reference to the catbird . . . [Boston] 1897.

392-397 p. 25<sup>cm</sup>.

Reprinted from the American naturalist, May 1st, 1897.

**Riley, Charles Valentine.** The insectivorous habits of the English sparrow. [Washington, 1889] (U. S. Agriculture, Department of. Economic ornithology and mammalogy, Division of. Bulletin no. 1, p. 111-133)

**Sanderson, Ezra Dwight.** . . . The economic value of the white-bellied nuthatch and black-capped chickadee . . . [Boston] 1898.

[144]-155 p. 24<sup>cm</sup>.

From "The Auk", vol. xv, No. 2, April, 1898.

**Schwarz, Eugene Amandus.** Report on the insect food of the crow. [Washington, 1895] (U. S. Agriculture, Department of. Ornithology and mammalogy, Division of. Bulletin no. 6, p. 57-67)

## ENTOMOGENOUS FUNGI.

**Brongniart, Charles J. E.** . . . Les champignons parasites observés sur les criquets pèlerins en Algérie, par Ch. Brongniart. Paris, Typographie Chamerot et Renouard, 1891.

12 p. 22<sup>cm</sup>.

At head of title: Société nationale d'agriculture de France . . .

**Danysz, Jean.** De l'utilisation des muscardines dans la lutte avec le *Cleonus punctiventris* par M. J. Danysz . . . et M. le Dr. K. Wize . . . 1. mémoire résumant les travaux de l'année 1900. Paris, Librairie agricole de la maison rustique, 1901.

39 p., 1 l. 2 col. pl. 25<sup>cm</sup>.

Appendice: Empoisonnement des *Cleonus* par le chlorure de baryum par M. J. Moravek: p. 35-36.

Bibliographie: p. 37-38.

**Giard, Alfred.** De insectorum morbis qui fungis parasitis efficiuntur, par J. Krassiltschik. Analyse critique par A. Giard. Paris, 1889.

[120]-136 p. 25<sup>em</sup>.

Extrait du Bulletin scientifique de la France et de la Belgique, t. xx.

**Giard, Alfred.** . . . Deux espèces d'entomophthora nouvelles pour la flore française et présence de la forme *Tarichium* sur une muscide . . . [Lille, 1879]

[353]-363, [384]-386 p. 22<sup>em</sup>.

Extrait du Bulletin scientifique du Département du Nord, 2. sér.—2. année.—n° 11.

**Giard, Alfred.** . . . *L'Isaria densa* (Link) Fries, champignon parasite du hanneton vulgaire (*Melolontha vulgaris* L.) Paris [etc.] [1893]

1 p. 1, 112 p. illus., iv pl. (2 col.) 25<sup>em</sup>. (Travaux de la Station zoologique de Wimereux—Ambleteuse)

"Littérature:" p. 109-111.

From Bulletin scientifique de la France et de la Belgique, t. xxiv.

**Giard, Alfred.** . . . Note sur deux types remarquables d'entomophthorées, *Empusa fresenii* Now. et *Basidiobolus ranarum* Eid., suivie de la description de quelques espèces nouvelles . . . [Paris, 1888]

4 p. 24 $\frac{1}{2}$ <sup>em</sup>.

Extrait des Comptes rendus des séances de la Société de biologie. Séance du 24 novembre 1888.

**Giard, Alfred.** . . . Nouvelles études sur le *Lachnidium acridiorum*, Gd., champignon parasite du criquet pèlerin . . . Paris [1892]

[449]-461 p. pl. 24<sup>em</sup>.

Extrait de la Revue générale de botanique . . . (t. iv, 1892, p. 449.)

— — — Alger, 1893.

16 p. pl. 23 $\frac{1}{2}$ <sup>em</sup>.

**Giard, Alfred.** . . . Sur *l'Isaria barberi*, parasite de *Diatræa saccharalis* Fab., et sur les maladies de la canne à sucre aux Antilles . . . [Paris, 1894]

4 p. 24<sup>em</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (séance du 22 décembre 1894.)

**Giard, Alfred.** Sur *l'Isaria densa* (Link) parasite du ver blanc . . . [Paris, 1891]

4 p. 27 $\frac{1}{2}$  x 22<sup>em</sup>.

From Comptes rendus . . . de l'Académie des sciences, t. 113, p. 269-272.

**Giard, Alfred.** Sur le champignon parasite des criquets pèlerins (*Lachnidium acridiorum* Gd.) . . . [Paris, 1891]

3 p. 28 x 22<sup>em</sup>.

From Comptes rendus . . . de l'Académie des sciences, t. 113, p. 813-816.

**Giard, Alfred.** Sur les cladosporiées entomophytes, nouveau groupe de champignons parasites des insectes . . . [Paris, 1891]

4 p. 26 $\frac{1}{2}$  x 21 $\frac{1}{2}$ <sup>em</sup>.

From Comptes rendus . . . de l'Académie des sciences, t. 112, p. 1518-1521.

**Giard, Alfred.** . . . Sur quelques isariées entomophytes . . . [Paris, 1892]

3 p. 24 $\frac{1}{2}$ <sup>em</sup>.

Extrait des Comptes rendus des séances de la Société de biologie. (Séance du 21 mai 1892)

**Giard, Alfred.** . . . Sur une laboulbéniciacée (*Thaxteria künckeli* nov. gen. et sp.), parasite de *Mormolyce phylloides* Hagenbach . . . [Paris, 1892]

3 p. 24<sup>em</sup>.

Extrait des Comptes rendus des séances de la Société de biologie. Séance du 20 février 1892.

**Howard, Leland Ossian.** Experimental work with fungous diseases of grasshoppers. (U. S. Agriculture, Dept. of. Yearbook, 1901. Washington, 1902. p. 459-470. illus.)

**McAlpine, Daniel.** . . . Two new fungi parasitic on scale insects . . . Melbourne [1904]

5 p. 2 pl. 24 $\frac{1}{2}$ <sup>em</sup>.

Reprinted from the Journal of the Department of Agriculture, Victoria, issued May, 1904.

**Moniez, Romain Louis.** . . . Sur un champignon parasite du *Lecanium hesperidum* . . . (*Lecaniascus polymorphus nobis*) [Paris, 1887]

3 p. 25<sup>em</sup>.

Extrait du Bulletin de la Société zoologique de France, t. xii, 1887.

- Olliff, Arthur Sidney.** . . . Australian entomophytes, or entomogenous fungi, and some account of their insect-hosts . . . Sydney, 1895.  
15 p. iv pl. (1 col.) 24 $\frac{1}{2}$ <sup>cm</sup>.  
From the Agricultural gazette of New South Wales, vol. vi, p. 402-414.
- Sorokin, Nikolai Vasilievich.** Un nouveau parasite de la chenille de la betterave *Sorospora agrotidis* (gen. et spec. nov.), par N. Sorokin. (Avec note de A. Giard) Paris, 1889.  
[76]-83 p. illus. 25<sup>cm</sup>.  
Extrait du Bulletin scientifique de la France et de la Belgique, t. xx, 1889.
- Tepper, J. Gottlieb Otto.** . . . Bemerkungen über australische entomogene pilze und beschreibung südaustralischer varietäten von *Cordiceps gunnii* Berkeley . . . [Cassel, 1897]  
3 p. 23 $\frac{1}{2}$ <sup>cm</sup>.  
From Botanisches centralblatt. bd. Lxx, no. 10.
- Tepper, J. Gottlieb Otto.** . . . Some South Australian forms of *Cordyceps gunnii*, Berk: by J. G. O. Tepper . . . and D. M'Alpine . . . Sydney, 1897.  
1 p. l., 3 p. 2 pl. 24 $\frac{1}{2}$ <sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 144) "From Agricultural gazette of N. S. Wales, March, 1897."
- Thaxter, Roland.** . . . The entomophthoræ of the United States. By Roland Thaxter. Boston, The Society, 1888.  
cover-title, 138-201 p. xiv-xxi pl. 30x23<sup>cm</sup>. (Memoirs of the Boston society of natural history; vol. iv, no. vi.)  
"List of papers consulted:" p. 192-193.
- Thaxter, Roland.** . . . Further additions to the North American species of *Laboulbeniaceæ* . . . [Boston, 1893]  
29-45 p. 24 $\frac{1}{2}$ <sup>cm</sup> ( . . . Contributions from the Cryptogamic laboratory of Harvard university, xvii)  
From Proceedings of the American academy of art and sciences, vol xxvii.
- Thaxter, Roland.** . . . New genera and species of *Laboulbeniaceæ*, with a synopsis of the known species . . . [Boston, 1894]  
92-111 p. 24 $\frac{1}{2}$ <sup>cm</sup>. ( . . . Contributions from the Cryptogamic laboratory of Harvard university, xxi)  
From Proceedings of the American academy of arts and sciences, vol. xxxi.
- Thaxter, Roland.** . . . New species of *Laboulbeniaceæ* from various localities . . . [Boston, 1893]  
156-183 p. 24 $\frac{1}{2}$ <sup>cm</sup>. ( . . . Contributions from the Cryptogamic laboratory of Harvard university, xx)  
From Proceedings of the American academy of arts and sciences, vol. xxviii:
- Thaxter, Roland.** . . . On some North American species of *Laboulbeniaceæ* . . . [Boston, 1890]  
5-14 p. 24<sup>cm</sup>.  
From Proceedings of the American academy of arts and sciences, vol. xxv.
- Thaxter, Roland.** . . . Supplementary note on North American *Laboulbeniaceæ* . . . [Boston, 1890]  
261-270 p. 24 $\frac{1}{2}$ <sup>cm</sup>.  
From Proceedings of the American academy of arts and sciences, vol. xxv.
- Wakker, J. H.** . . . De bestrijding der keverlarven door *Botrytis tenella* (*Isaria densa*) . . . Soerabaia, H. van. Ingen, 1894.  
cover-title, 7 p. 26 $\frac{1}{2}$ <sup>cm</sup> (Mededeelingen Proefstation "Oost-Java," nieuwe ser. no. 10)  
Overgedrukt uit het "Archief voor de Java-suikerindustrie" jaarg. 1894. afl. 12.
- Webster, Francis Marion.** . . . Observations on some Entomophthoræ . . . [Cincinnati, 1894]  
[173]-177 p. 23 $\frac{1}{2}$ <sup>cm</sup>.  
Reprint from Journal of Cincinnati society of natural history, Jan. 1894.
- Webster, Francis Marion.** . . . Vegetal parasitism among insects . . . [Columbus, 1894]  
19 p. illus., iii-v pl. 23 $\frac{1}{2}$ <sup>cm</sup>.  
From Journal Columbus horticultural society—April, 1894.

**Zabriskie, J. L.** A caterpillar fungus from New Zealand, and some related species of the United States . . . [New York, 1885]

89-94 p. illus. 23 $\frac{1}{2}$ cm.

From Journal of the New York microscopical society, April, 1885.

### ANATOMY AND PHYSIOLOGY.

**Adler, Hermann.** Alternating generations; a biological study of oak galls and gall flies, by Hermann Adler . . . Tr. and ed. by Charles R. Straton . . . Oxford, The Clarendon press, 1894. 4-10082

xliii, 198 p. illus., iii fold. col. pl. (incl. front.) 20cm.

1 leaf illustrated on both sides not included in paging.

Bibliography: p. [182]-189.

**Adolph, Georg Ernst.** . . . Ueber insectenflügel. Von Dr. G. Ernst Adolph . . . Eingegangen bei der Akademie den 13. december 1878. Halle, 1879.

79 p. 6 pl. 32 $\frac{1}{2}$ cm. (Nova acta der Ksl. Leop. Carol.-Deutschen akademie der naturforscher. Bd. xli. Pars. II, nr. 3)

**Avebury, John Lubbock, 1st baron.** . . . Notes on the generative organs, and on the formation of the egg in the annulosa. By John Lubbock . . . Received February 5,—Read February 21, 1861. [London, 1861]

595-627 p. pl. 30cm.

From Philosophical transactions of the Royal society of London. 1861.

**Avebury, John Lubbock, 1st baron.** . . . On the ova and pseudova of insects . . . [London] 1858.

[578]-588 p. 22cm.

From the Proceedings of the Royal society, December 9, 1858.

**Bachmetjew, P.** Experimentelle entomologische studien vom physikalisch-chemischen standpunkt aus, von P. Bachmetjew . . . mit einem vorwort von Prof. Dr. August Weismann . . . Leipzig, W. Engelmann, 1901.

v. 1. diagr. 24cm.

Litteratur-verzeichnis: p. [148]-158.

CONTENTS.—1. bd. Temperatur-verhältnisse bei insecten.

**Berlese, Antonio** . . . Fenomeni che accompagnano la fecondazione in taluni insetti. Memoria I[-II] Firenze, 1898.

2 pts. 6 pl. 23cm.

Estratto dalla Rivista di patologia vegetale, anno VI, fasc. III; anno VII, fasc. I. 1898.

**Boas, Johan Erik Vesti** . . . Einige bemerkungen über die metamorphose der insecten . . . Jena, 1899.

cover-title, [385]-402 p. illus., col. pl. 23cm.

Abdruck aus den Zoologischen jahrbüchern. Abtheilung für systematik, geographie und biologie der thiere . . . 12. bd. 1899.

**Bouché, Peter Friedrich.** Naturgeschichte der insecten besonders in hinsicht ihrer ersten zustände als larven und puppen. Von P. Fr. Bouché. 1. lieferung . . . Berlin, In der Nicolaischen buchhandlung, 1834.

v, [1], 216 p. x pl. 21cm.

**Brauer, Friedrich.** . . . Über das segment médiaire Latreille's . . . [Wien, 1882]

27 p. III pl. 24 $\frac{1}{2}$ cm.

Aus dem LXXXV. bande der Sitzb. der K. Acad. der wissensch. I. abth. april-heft. jahrg. 1882.

**Bruce, Adam Todd.** Observations on the embryology of insects and arachnids, by Adam Todd Bruce . . . A memorial volume. Baltimore, Publication agency of Johns Hopkins university, 1887.

Agr 3-1245

7 p. l., 31 p., 8 l. front. (port.) VI col. pl. 31 $\frac{1}{2}$ cm.

"The scientific work of Adam Todd Bruce. A sketch by W. K. Brooks." p.1.3-7.

"This volume is printed, after the author's death, as a memorial, by his instructors, pupils and friends in Princeton, Baltimore and elsewhere. It consists of his thesis reproduced from the copy accepted by the Board of university studies of the Johns Hopkins university, at his examination for the degree of PH. D., in April, 1886."

**Brunner von Wattenwyl, Carl.** Observations on the coloration of insects by Brunner von Wattenwyl . . . aided by a grant from the Wedl fund of the Imperial academy of sciences in Vienna, tr. by Edward J. Bles . . . Leipsic, W. Engelmann, 1897.

4 p. l., 16 p. 1x col. pl. 44½<sup>cm</sup>.

**Candèze, Ernest Charles Auguste.** Les moyens d'attaque et de défense chez les insectes. Lecture faite à la séance publique annuelle de la classe des sciences de l'Académie royale du 16 décembre 1874, par M. le docteur Candèze . . . Bruxelles, 1874.

32 p. 22<sup>cm</sup>.

Extrait des Bulletins de l'Académie royale de Belgique, 2<sup>me</sup> série, t. xxxviii, n<sup>o</sup> 12; décembre, 1874.

**Carpenter, George Herbert.** Colour changes in insects . . . London, 1893.

cover-title, [287]—293 p. 25<sup>cm</sup>.

"References:" p. 293.

Reprinted from "Natural science," vol. 2, no. 14, April, 1893.

**Carpenter, George Herbert.** . . . Further notes upon arachnid and insect development . . . London, 1893.

cover-title, [441]—447 p. illus. 25<sup>cm</sup>.

"References:" p. 447.

Reprinted from "Natural science," vol. III, no. 22, December, 1893.

**Carpenter, George Herbert.** . . . Some recent researches on insect anatomy . . . [London, 1893]

cover-title, [114]—119 p. illus. 25<sup>cm</sup>.

"References:" p. 119.

Reprinted from "Natural science," vol. 2, no. 12, February, 1893.

**Carus, Carl Gustav.** . . . Fernere untersuchungen über blutlauf in kerfen . . . [Halle, 1831]

18 p. pl. 28½<sup>cm</sup>.

From Nova Acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. Vol. xv.

**Comstock, John Henry.** The elements of insect anatomy, an outline for the use of students in the entomological laboratories of Cornell university and Leland Stanford junior university, by John Henry Comstock and Vernon L. Kellogg; Ithaca, New York, Comstock publishing co., 1895.

2 p. l., 96 p. 23¼<sup>cm</sup>.

— The elements of insect anatomy, an outline for the use of students in entomological laboratories, by John Henry Comstock . . . and Vernon L. Kellogg . . . 3d ed., rev. Ithaca, New York, Comstock publishing co., 1901.

3 p. l., 145 p. illus. 23¼<sup>cm</sup>

— — — 4th ed., rev. Ithaca, New York, Comstock publishing co., 1902.

3 p. l., 145 p. illus. 23¼<sup>cm</sup>.

**Comstock, John Henry.** Evolution and taxonomy, an essay on the application of the theory of natural selection in the classification of animals and plants, illustrated by a study of the evolution of the wings of insects, and by a contribution to the classification of the Lepidoptera . . . Ithaca, N. Y., 1893.

1 p. l. [37]—113, [1] p. illus. 3 pl. (incl. front) 23<sup>cm</sup>.

Reprinted from the Wilder quarter-century book.

**Comstock, John Henry.** (A fragment of a) guide to practical work in elementary entomology, an outline for the use of students in the entomological laboratory of Cornell university. By Professor J. Henry Comstock. Ithaca, New York, stereotyped and printed at the university press, 1882.

35 p. 21¼<sup>cm</sup>.

**Dewitz, Hermann.** Ueber die fortbewegung der thiere an senkrechten glatten flächen vermittels eines secretes . . . [Leipzig, 1884]

6 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" 1884, no. 172.

**Dewitz, Hermann.** Ueber die fortbewegung der thiere an senkrechten, glatten flächen vermittelt eines secretes . . . Bonn, 1884.

Cover-title, [439]-481 p. VII-IX pl. 23<sup>em</sup>.

Separat-abdruck aus Pfüger's Archiv. f. d. ges. physiologie. bd. XXXIII.

**Dewitz, Hermann.** . . . Weitere mittheilungen über das klettern der insecten an glatten senkrechten flächen . . . [Leipzig, 1885]

3 p. 22<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 190. 1885.

**Dorfmeister, G.** Über dem einfluss der temperatur bei der erzeugung der schmetterlings-varietäten . . . Graz, 1880.

8 p. col. pl. 22 $\frac{1}{2}$ <sup>em</sup>.

Separat-abdruck aus den Mittheilungen des Naturwissenschaftlichen vereines für Steiermark, jahrgang 1879.

**Gaede, Heinrich Moritz.** Beiträge zur anatomie der insecten, von Dr. H. M. Gaede . . . [Halle. 1823]

1 p. 1., 325-340 p. pl. 28 $\frac{1}{2}$ <sup>em</sup>.

From Nova Acta Caes. Leopold-Carol. Germ. nat. cur. Vol. XI.

**Gazagnaire, Joseph.** Des glandes chez les insectes. Sur un prétendu "nouveau type de tissu élastique" . . . [Paris, 1886]

3 p. 23 $\frac{1}{2}$ <sup>em</sup>.

From Comptes rendus hebdomadaires des séances de l'Académie des sciences, tome 102.

**Giard, Alfred.** . . . Sur les régénérations hypotypiques [Paris] 1897.

3 p. 24<sup>em</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (séance du 27 mars 1897.)

**Girard, Maurice.** Études sur la chaleur libre dégagée par les animaux invertébrés et spécialement les insectes . . . [Paris, 1869]

[135]-274 p. 25<sup>em</sup>.

From Annales des sciences naturelles; zoologie (5) XI. 1869.

**Graber, Vitus.** Die insecten. Von Dr. Vitus Graber . . . München, R. Oldenbourg, 1877-79.

2 v. illus. 17 $\frac{1}{2}$ <sup>em</sup>.

Agr 3-1133

CONTENTS.—1. th. Der organismus der insekten.—2. th. (doppelband) Vergleichende lebens- und entwicklungsgeschichte der insecten.

**Hagen, Hermann August.** . . . On some insect deformities. By Dr. Hermann A. Hagen. Cambridge, University press, Welch, Bigelow & co., 1876.

22 p., 1 l. pl. 30<sup>em</sup>. (Memoirs of the Museum of comparative zoology, at Harvard college, Cambridge, Mass. vol. II, no. 9.)

**Hagen, Hermann August.** . . . On the color and pattern of insects . . . [Boston, 1882]

234-267 p. 24<sup>em</sup>.

From the Proceedings of the American academy of arts and sciences, new ser. vol. IX, whole series vol. XVI.

**Hagen, Hermann August.** Spaltung eines flügels um das doppelte adernetz zu zeigen . . . [Leipzig, 1889]

1 l. pl. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 312. 1889.

**Henneguy, Louis Félix.** Les insectes, morphologie—reproduction—embryogénie, par L. Félix Henneguy . . . Leçons recueillies par A. Lécaillon & G. Poirault . . . Paris, Masson et cie, 1904.

xviii p., 1 l., 804 p. illus., iv col. pl. 28<sup>em</sup>.

Agr 4-1773

"Index bibliographique": p. [695]-756.

**Herrera, Alphonso L.** . . . Sur le mouvement de manège chez les insectes . . . [Paris] 1893.

5 p. 25<sup>em</sup>.

Extrait du Bulletin de la Société zoologique de France, tome XVIII, séance du 24 octobre 1893, page 190.



- Heymons, Richard.** Bemerkungen zu dem aufsatz Verhoeff's "Noch einige worte über segmentanhänge bei insecten und myriopoden" . . . [Leipzig] 1898.  
[173]-180 p. 23<sup>em</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 553. 1898.
- Heymons, Richard.** . . . Bemerkungen zu den anschauungen Verhoeff's über die abdominalanhänge der insecten . . . [Leipzig] 1897.  
[401]-404 p. 23<sup>em</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 543. 1897.
- Heymons, Richard.** Über den nachweis der viviparität bei den eintagsfliegen . . . [Leipzig] 1897.  
[205]-206 p. 23<sup>em</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 533. 1897.
- . . . **Insect transformations** . . . London, C. Knight; [etc., etc.] 1830. Agr 3—1139
- xii, 420 p. illus. 16 $\frac{1}{2}$ <sup>em</sup>. (The library of entertaining knowledge [vol. vi, published under the superintendence of the Society for the diffusion of useful knowledge])
- Janet Charles.** . . . Essai sur la constitution morphologique de la tête de l'insecte, par Charles Janet . . . Paris, G. Carré et C. Naud, 1899. 4—24912  
74 p., 1 l. 7 pl. (5 fold.) 24<sup>em</sup>.  
"Liste des auteurs cités": p. 71.  
Writings of the author: p. 72-73.
- Janet, Charles.** Sur le mécanisme du vol chez les insectes . Paris, 1899.  
4 p. illus. 28<sup>em</sup>. (*His* [Notes sur les fourmis et les guêpes] 15)  
Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 123, p. 249-252.
- Janet, Charles.** Sur les muscles des fourmis, des guêpes et des abeilles . . . Paris, 1895.  
4 p. illus. 28<sup>em</sup>. (*His* [Notes sur les fourmis et les guêpes] 7)  
Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences. t. 121, p. 610-613.
- Kellogg, Vernon Lyman.** . . . The divided eyes of Arthropoda . . . [Leipzig] 1898.  
[280]-281 p. 23<sup>em</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 557. 1898.
- Kessler, Hermann Friedrich.** Drei kleine entomologische abhandlungen . . . [Kassel, 1894]  
8-16 p. pl. 21<sup>em</sup>.  
Sonderabdruck aus dem 39. Bericht des Vereins für naturkunde zu Cassel.
- Kholodovskii, Nikolaus Alexandr.** Entomotomische miscellen . . . St.-Petersburg, 1895-96.  
pt. I-II, VI. illus., pl. 25 $\frac{1}{2}$ <sup>em</sup>.  
Tiré des "Horæ Societatis entomologicae Rossicæ," t. xxix. 1895; t. xxx, 1896.
- Kirby, William.** A description of some insects which appear to exemplify Mr. William S. MacLeay's doctrine of affinity and analogy . . . [London, 1823]  
93-110 p. pl. 29<sup>em</sup>.  
From Transactions of the Linnean society of London, vol. xiv, pt. 1.
- Korschelt, Eugen.** . . . Zur bildung der eihüllen, der mikropylen und chorionanhänge bei den insecten. Von Eugen Korschelt. . . Halle, 1887.  
72 p. xxxv-xxxix pl. 32 $\frac{1}{2}$ <sup>em</sup>. (Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher, bd. 51, nr. 3)
- Kulwiec, Casimir von.** . . . Die hautdrüsen bei den orthopteren und den Hemiptera-Heteroptera . . . [Leipzig] 1898.  
[66]-70 p. illus. 23<sup>em</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 550. 1898.

**Künckel d'Herculais, Jules Philippe Alexandre.** . . . De la mue chez les insectes considérée comme moyen de défense contre les parasites végétaux ou animaux.—Rôles spéciaux de la mue trachéale et de la mue intestinale . . . [Buenos Aires, 1899]

4 p. 25 $\frac{1}{2}$ cm.

Artículo publicado en los "Anales de la Sociedad científica argentina," tomo XLVII, páginas 100 y siguientes.

**Künckel d'Herculais, Jules Philippe Alexandre** . . . On ecdysis in insects, considered as a means of defence against animal or vegetable parasites.—Special rôles of the tracheal and intestinal ecdyses. [London, 1899]

78-80 p. 22cm.

From Annals and magazine of natural history, ser. 7, v. 4.

**Landois, Hermann.** Die ton- und stimmapparate der insecten in anatomisch-physiologischer und akustischer beziehung, von Dr. H. Landois. Leipzig, W. Engelmann, 1867.

iv, 82 p. x-xi double col. pl. 23 $\frac{1}{2}$ cm.

"Abdruck aus der Zeitschrift für wissenschaft. zoologie xvii. bd."

**Leuckart, Rudolph, i. e. Karl Georg Friedrich Rudolph.** Zur kenntniss des generationswechsels und der parthenogenesis bei den insecten. Von Dr. Rud. Leuckart . . . Frankfurt a. M., Meidinger sohn & comp., 1858. Agr 5-526

2 p. 1., 112 p. fold. pl. 23cm.

**Leydig, Franz.** Der eierstock und die samentasche der insecten. Zugleich ein beitrage zur lehre von der befruchtung . . . Dresden, Druck von E. Blochmann & sohn, 1866.

iv, 88 p. v pl. 30cm.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. eur. Vol. xxxiii.

**Lyonnet, Pierre.** Recherches sur l'anatomie et les métamorphoses de différentes espèces d'insectes, ouvrage posthume de Pierre Lyonnet, publié par M. W. de Haan . . . Paris [etc.] J.-B. Baillièrre, 1832. Agr 4-3421

2 p. 1., iv, 580 p. 54 pl. 27x22cm.

Issued in 2 pts.

Pt. 2, half-title reads: Œuvres mêlées sur les insectes, contenant des essais anatomiques sur la chrysalide, et principalement sur la phalène de la chenille qui ronge le bois de saule, dont l'anatomie complète a été pub. par l'auteur en 1760, et avec l'addition d'une lettre à M. le Cat . . .

**McIntire, Samuel John.** . . . Notes on the minute structure of the scales of certain insects . . . [London, 1870]

3-13 p. LXIX-LXXI pl. 22cm.

From the Monthly microscopical journal. vol. iv.

**Manca, G.** . . . Il decorso del digiuno assoluto nel Carabus morbillosus . . . Sassari, Prem. stab. tip. G. Dessì, 1903.

cover-title, 59 p. pl. 24cm.

At head of title: Dott. G. Manca e Dott. G. Fatta.

"Lavori citati": p. 54-58.

Estratto dagli Studi sassaresi, anno III, sez. II, fasc. II.

**Marchal, Paul.** Contribution à l'étude de la désassimilation de l'azote, l'acide urique et la fonction rénale chez les invertébrés, par Paul Marchal . . . Lille, Imprimerie de la Société zoologique de France, le Bigot frères, 1889.

70 p. 24cm.

"Index bibliographique": p. [9]-15.

**Marey, Étienne Jules.** . . . Mémoire sur le vol des insectes et des oiseaux . . . [Paris, 1869-72]

2 pts. illus. 25cm.

From Annales des sciences naturelles. 5. série. Zoologie XII, p. 49-150; xv, p. 1-62.

**Mark, Edward Laurens.** . . . Simple eyes in arthropods. Cambridge, 1887. cover-title, [49]-105 p. v col. pl. (1 fold.) 24 $\frac{1}{2}$ cm. (Bulletin of the Museum of comparative zoology at Harvard college. vol. xiii. no. 3)

**Meinert, Frederik Vilhelm August.** . . . Noget mere om spiracula cribraria og os clausum en replik . . . [Kjøbenhavn] 1883.

24 p. illus. 23<sup>em</sup>.

Aftryk af "Videnskabelige meddelelser fra den Naturhistoriske forening i Kjøbenhavn." 1883.

**Meinert, Frederik Vilhelm August.** Om mundens bygning hos larverne af myrmeleontiderne, hemerobierne og dytiscerne . . . Kjøbenhavn [1879]

4 p. 23<sup>em</sup>.

Aftryk af "Vidensk. medd. fra den naturhist. foren. i Kjøbenhavn," 1879-80.

**Meinert, Frederik Vilhelm August.** Om sammensætningen af hovedet og tydningen af munddelene hos insekter samt om insektordenernes systematik . . . [Stockholm, 1880]

[510]-513 p. 21<sup>4</sup><sup>em</sup>.

Ur 12:te Skandinaviska naturforskaremötets Forhandlingar, Stockholm, 1880.

**Minot, Charles Sedgwick.** Zur Kenntniss der Insektenhaut . . . [Bonn, 1886]

37-48 p. double pl. 23<sup>em</sup>.

"Separatabdruck aus dem Archiv für mikroskop. anatomie. bd. xxviii."

**Müller, Johannes.** Über die entwicklung der eier im eierstock bei den gepenstheuschrecken und eine neuentdeckte verbindung des rückengefäßes mit den eierstöcken bei den insecten, von Dr. Johannes Müller . . . [Halle, 1825]

1 p. l., 555-672 p. L-LV pl. (2 col., 1 fold.) 23<sup>em</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. Vol. xii.

**Müller, Johannes.** Über ein eigenthümliches, dem nervus sympathicus analoges nervensystem der eingeweide bei den insecten. Von Johannes Müller . . . [Halle, 1828]

1 p. l., [73]-108 p. VII-IX pl. 23<sup>4</sup><sup>em</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. Vol. xvi.

**Murray, Andrew.** On the metamorphoses of orthopterous and hemipterous insects. (Supplementary to remarks on leaf insect, Phyllium scythe, published in January, 1856) . . . [Edinburgh, 1858]

3 p. 22<sup>em</sup>.

From the Proceedings of the Royal physical society of Edinburgh. Vol. i.

**Murtfeldt, Mary Esther.** Our insect musicians . . . [Jefferson City, Mo., 1890]

152-161 p. 23<sup>em</sup>.

From the Thirty-second annual report of the state horticultural society of Missouri, 1889.

**Nagel, Wilibald A.** . . . Über das geschmacksorgan der schmetterlinge . . . Leipzig, 1897.

[405]-406 p. illus. 23<sup>4</sup><sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 543, 1897.

**Newport, George.** . . . On the respiration of insects. By George Newport . . . Communicated by P. M. Roget . . . Received and read June 16, 1836. [London, 1836]

529-566 p. 2 pl. 28<sup>em</sup>.

From the Philosophical transactions of the Royal society of London, 1836.

**Odier, Auguste.** Mémoire sur la composition chimique des parties cornées des insectes. Par M. Auguste Odier. (Lu dans la séance du 17 août 1821) [Paris, 1821]

[29]-42 p. 25<sup>4</sup><sup>em</sup>.

Caption title.

From the Mémoires de la Société d'histoire naturelle de Paris. Tome i, 1823.

**Oestlund, Oscar W.** . . . On the reproduction of lost or mutilated limbs of insects . . . [Minneapolis, 1886?]

143-145 p. illus. 23<sup>em</sup>.

Extracted from Bulletin Minnesota academy of natural sciences, vol. 3, no. 1.

**Packard, Alpheus Spring.** . . . The ancestry of insects. Chapter XIII of "Our common insects" . . . Salem, Naturalists' agency, 1873.

148-186 p. illus. 20<sup>em</sup>.

Printed in advance.

**Packard, Alpheus Spring.** Critical remarks on the literature of the organ of smell in arthropods. [Philadelphia, 1887]

3 p. 23<sup>em</sup>.

From the American naturalist. vol. xxi.

**Packard, Alpheus Spring.** . . . Embryological studies on *Diplax*, *Perithemis*, and the thysanurous genus *Isotoma*. By A. S. Packard, *jr.* Salem, Mass., Published by the Peabody academy of science, 1871. 5-31653

24 p. illus., 3 pl. 29<sup>em</sup>. (Peabody academy of science. 2d memoir)

**Packard, Alpheus Spring.** . . . Embryological studies on hexapodous insects. By Alpheus S. Packard, *jr.* Salem, Mass., Published by the Peabody academy of science, 1872. 5-31655

17, [1] p. 3 pl. 29<sup>em</sup>. (Peabody academy of science. 3d memoir)

**Packard, Alpheus Spring.** Experiments on the sense-organs of insects. [Boston, 1877]

418-423 p. 24 $\frac{1}{2}$ <sup>em</sup>.

From the American naturalist, vol. xi.

**Packard, Alpheus Spring.** . . Hauser on the organs of smell in insects. [Philadelphia, 1887]

279-286 p. XIII-XV pl. 22<sup>em</sup>.

Extracted from the American naturalist, March, 1887. vol. xxi.

**Packard, Alpheus Spring.** Mayer's ontogeny and phylogeny of insects. . . [Boston, 1876]

3 p. 22<sup>em</sup>.

Reprinted from American naturalist, vol. x, p. 688-691.

**Packard, Alpheus Spring.** . . On synthetic types in insects. [Boston, 1863]

590-603 p. illus. 24<sup>em</sup>.

From Boston journal of natural history. vol. vii, 1863.

**Packard, Alpheus Spring.** . . On the structure of the ovipositor, and homologous parts in the male insect . . . [Boston, 1868]

398-398 p. illus. 24<sup>em</sup>.

From Proceedings of the Boston society of natural history. vol. xi, 1866-68.

**Packard, Alpheus Spring.** The organ of smell in arthropods. [Philadelphia, 1886]

889-894, 973-976 p. 22<sup>em</sup>.

"Abstract . . . of a historical and critical study by Dr. K. Kraepelin."

American naturalist extra, October and November, 1886. vol. xx.

**Palmén, Johan Axel.** Über paarige ausführungsgänge der geschlechtsorgane bei insecten. Eine morphologische untersuchung von J. A. Palmén . . . Helsingfors, J. C. Freneckell & sohn, 1884.

2 p. l., 107, [1] p. 5 pl. (4 fold.) 24<sup>em</sup>.

"Literatur-verzeichniss": p. [96]-101.

**Palmén, Johan Axel.** Zur vergleichenden anatomie der ausführungsgänge der sexualorgane bei den insecten. Vorläufige mittheilung . . . [Leipzig, 1884]

8 p. 23 $\frac{1}{4}$ <sup>em</sup>.

From Morphologisches jahrbuch. 9. bd.

**Paulmier, Frederick Clark.** Chromatin reduction in the Hemiptera . . . [Jena, 1898]

514-520 p. illus. 23 $\frac{1}{4}$ <sup>em</sup>.

Abdruck aus Anatomischer anzeiger. xiv. bd., nr. 19 und 20, 1898.

**Plateau, Félix Auguste Joseph.** Recherches sur les phénomènes de la digestion chez les insectes; par Félix Plateau . . . Mémoire présenté à la classe des sciences de l'Académie dans la séance du 7 mars 1874. [Bruxelles, 1874?]

124 p. III pl. 29<sup>em</sup>.

From Mémoires de l'Académie royale des sciences, des lettres et des beaux-arts de Belgique. Tome xlii.

- Rathke, Martin Heinrich.** Anatomisch-physiologische untersuchungen über den athmungsprozess der insekten. Von H. Rathke. [Königsberg, 1861]  
40 p. pl. 27<sup>em</sup>.  
Caption title.  
From Schriften der Königlichen physikalisch-ökonomischen gesellschaft zu Königsberg. Jahrg. I.
- Redi, Francesco.** Francisci Redi . . . Experimenta circa generationem insectorum . . . ad nobilissimum virum Carolum dati . . . Amstelodami, Sumptibus A. Frisii, 1671.  
5 p. l. 230 (*i. e.* 330), [18] p. illus., 38 pl. (10 fold.) 13 $\frac{1}{2}$ <sup>em</sup>.  
Added engr. t.-p.
- Redtenbacher, Josef.** . . . Vergleichende studien über das flügelgeäder der insecten. Von Josef Redtenbacher . . . Wien, A. Hölder, 1886.  
cover-title, [153]-231 [1] p. ix-xx pl. 26<sup>em</sup>.  
Annalen des K. k. naturhistorischen hofmuseums. Separatabdruck aus band I.
- Riley, Charles Valentine.** . . . Controlling sex in butterflies . . . [Salem, 1873]  
9 p. 24<sup>em</sup>.  
From the American naturalist, vol. VII, September, 1873.
- Riley, Charles Valentine.** Retarded development in insects; On the oviposition of *Prodoxus decipiens*; New insects injurious to agriculture . . . [Salem, 1882]  
4 p. 25<sup>em</sup>.  
From the Proceedings of the American association for the advancement of science, vol. xxx, Cincinnati meeting, August, 1881, p. 270-273.
- Sajó, Karl.** Ein insekten-ei . . . Berlin, 1899.  
569-574 p. 30<sup>em</sup>.  
From Prometheus, jahrg. IX.
- Sajó, Karl.** Sommerschlaf im kreise der blattkäfer . . . [Berlin, 1900]  
723-724 p. 30<sup>em</sup>.  
From Prometheus, jahrg. 11, no. 566, August 15, 1900.
- Schenk, Otto.** Die antennalen hautsinnesorgane einiger lepidopteren und hymenopteren mit besonderer berücksichtigung der sexuellen unterschiede  
Jena, G. Fischer, 1902. Agr 4-85  
2 p. l., 47, [1] p. illus., 2 pl. (1 fold., 1 double) 23 $\frac{1}{2}$ <sup>em</sup>.  
Inaug.-dis.—Jena.  
"Literaturverzeichnis" : p. 43-44.
- Scudder, Samuel Hubbard.** On asymmetry in the appendages of hexapod insects. By Samuel H. Scudder and Edward Burgess. [Boston, 1870]  
[282]-306 p. fold. pl. 23 $\frac{1}{2}$ <sup>em</sup>.  
From the Proceedings of the Boston society of natural history, vol. XIII, November, 1870.
- Scudder, Samuel Hubbard.** . . . The structure and transformations of *Eumæus atala*. By Samuel H. Scudder. Read February 17, 1875. [Boston, Published by the Society, 1875]  
413-419 p. pl. 30<sup>em</sup>.  
From Memoirs of the Boston society of natural history. vol. II.
- Seaman, William Henry.** . . . On the luminous organs of insects . . . [n. p., 1891.]  
[133]-162 p. v pl. 21<sup>em</sup>.  
From Proceedings of the American society of microscopists. Fourteenth annual meeting, Washington, D. C., 1891.
- Siebold, Carl Theodor Ernst von.** Beiträge zur parthenogenesis der arthropoden, von C. Th. E. v. Siebold . . . Leipzig, W. Engelmann, 1871.  
vi, [2], 238, [4] p. II fold. pl. (1 col.) 24<sup>em</sup>.
- Urech, Friederich.** Beiträge zur kenntnis der farbe von insektenschuppen . . . [Leipzig, 1893]  
[306]-384 p. 24<sup>em</sup>.  
Separat-abdruck aus "Zeitschrift für wissenschaftliche zoologie," bd. LVII, 2.

**Uzel, Heinrich.** Studien über die entwicklung der apterygoten insecten. Von Dr. Heinrich Uzel . . . Königgrätz, Selbstverlag des verfassers, 1898.

v, [1], 58, [12] p. vi pl. (5 col.) 33 $\frac{1}{2}$ cm.

"Literaturverzeichnis": p. [57]-58.

**Verhoeff, Carl Wilhelm.** . . . Bemerkungen über abdominale körperanhänge bei insecten und myriopoden . . . [Leipzig], 1897.

[293]-300 p. 23cm.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 539. 1897.

**Verhoeff, Carl Wilhelm.** Noch einige worte über segmentanhänge bei insecten und myriopoden . . . [Leipzig], 1898.

[32]-39 p. 23cm.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 549. 1898.

**Verhoeff, Carl Wilhelm.** . . . Die physiologische bedeutung des stachelapparates besonders der hymenopteren-nymphen . . . [Leipzig], 1892.

4 p. illus. 23cm.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 401 u. 402. 1892.

**Wasmann, Eric.** . . . Zur bedeutung der palpen bei den insecten . . . [Erlangen?], 1899.

[303]-308 p. 23 $\frac{1}{2}$ cm.

Sonderabdruck aus dem "Biologischen centralblatt" bd. ix. nr. 10. 15. juli 1899.

**Westwood, John Obadiah.** . . . On the metamorphoses of insects . . . [n. p., 1861?]

4 p. 22cm.

At head of title: Royal institution of Great Britain . . .

**Wheeler, William Morton.** On the appendages of the first abdominal segment of embryo insects . . . [Madison], 1890.

cover-title, [87]-140 p. III pl. 23cm.

From the Transactions of the Wisconsin academy of sciences, arts and letters, vol. VIII. Issued Sept. 20th, 1890.

**Wilcox, Earley Vernon.** . . . Further studies on the spermatogenesis of *Caloptenus femur-rubrum*. By E. V. Wilcox . . . Cambridge, Mass., U. S. A., Printed for the Museum, 1896.

1 p. l., [193]-203, [2] p., 2 l. 3 pl. 24cm. (Bulletin of the Museum of comparative zoology at Harvard college. vol. XXIX, no. 4)

**Wilcox, Earley Vernon.** . . . Spermatogenesis of *Caloptenus femur-rubrum* and *Cicada tibicen* . . . By E. V. Wilcox . . . Cambridge, Mass., U. S. A., Printed for the Museum, 1895.

32, [2] p., 4 l. v pl. 24 $\frac{1}{2}$ cm. (Bulletin of the Museum of comparative zoölogy at Harvard college. vol. XXVII, no. 1)

"Bibliography": p. 29-32.

## HABITS AND PSYCHOLOGY.

**Aurivillius, Per Olof Christopher.** Insekternas själslif. Föredrag vid K. Vetenskapsakademiens högtidsdag den 30 mars 1901, af Prof. Chr. Aurivillius. Stockholm, Stockholms dagblads tryckeri, 1901.

23 p. 16 $\frac{1}{2}$ cm.

**Avebury, John Lubbock, 1st baron.** On the senses, instincts, and intelligence of animals, with special reference to insects; by Sir John Lubbock . . . With over one hundred illustrations. New ed., rev. 6th thousand. London, K. Paul, Trench, Trübner & co., ltd., 1899.

Agr 2-178

xxix, 292 p. illus. 19cm. ([The international scientific series. vol. LXV])

"List of the principal memoirs, etc., referred to in the present work." p. [xix]-xxix.

**Badham, Charles David.** Insect life. By David Badham . . . Edinburgh and London, W. Blackwood and sons, 1845.

3 p. l., 171 p. front. 17 $\frac{1}{2}$ cm.

**Blanchard, Émile i. e. Charles Émile.** Métamorphoses, mœurs et instincts des insectes (insectes, myriapodes, arachnides, crustacés) par Émile Blanchard . . . Paris, G. Baillière, 1868. Agr 4—1783

2 p. l., 715, [1] p. front., illus., 39 pl. 27½<sup>cm</sup>.

**Carpenter, George Herbert.** . . . Further notes on the habits of insects . . . London, 1894.

cover-title, [365]—370 p. 25<sup>cm</sup>.

"References": p. 370.

Reprinted from "Natural science," vol. iv, no. 27, May, 1894.

**Fabre, Jean Henri Casimir.** Insect life, souvenirs of a naturalist, J.-H. Fabre . . . Tr. from the French by the author of "Mademoiselle Mori," with a preface by David Sharp . . . and ed. by F. Merrifield, with illustrations by M. Prendergast Parker. London and New York, Macmillan and co., limited, 1901. 2—24039

xii, 320 p. front., 15 pl. 19<sup>cm</sup>.

**Fabre, Jean Henri Casimir.** . . . Souvenirs entomologiques . . . Études sur l'instinct et les mœurs des insectes . . . Paris, C. Delagrave [1879—1903] 3—13489

9 v. front. (v. 6) illus. 23<sup>cm</sup>.

4th ser.: 2. éd.

2d series has title: Nouveaux souvenirs entomologiques.

"Mon école" (autobiographical) v. 6, p. [46]—67.

**Forel, Auguste Henri.** Ants and some other insects; an inquiry into the psychic powers of these animals, with an appendix on the peculiarities of their olfactory sense, by Dr. August Forel . . . tr. from the German by Prof. William Morton Wheeler . . . Chicago, The Open court publishing company; London, K. Paul, Trench, Trübner & co., ltd., 1904. 4—21575

1 p. l., 49 p. illus. 23¼<sup>cm</sup>. (On cover: Religion of science library, no. 56.)

**Forel, Auguste Henri.** Expériences et remarques critiques sur les sensations des insectes, par Auguste Forel . . . [Genève-Bâle, 1886]

50 p., 1 l. col. double pl. 22¼<sup>cm</sup>.

"From Recueil zoologique suisse, tome iv, no. 1"

1. ptie. [p. 1-29] traduite librement des Mittheilungen des Münchener entomologischen vereins 1878; Beitr. z. kennntn. d. sinnesempfindungen d. insecten.

**Riley, Charles Valentine.** . . . Social insects from psychical and evolutionary points of view. Annual address of the president of the Society, delivered in the hall of the Columbian university, January 29, 1894 . . . Washington, D. C., 1894.

cover-title, 74 p. illus. 24¼<sup>cm</sup>.

From the Proceedings of the Biological society of Washington. Vol. ix.

## MIMICRY AND CRYPTIC RESEMBLANCES.

**Giard, Alfred.** . . . Sur un diptère stratyomide (*Boris vallata* Förster) imitant une tenthredo (*Athalia annulata* Fab.) . . . [Paris] 1892.

2 p. 24<sup>cm</sup>.

Extraits des Comptes rendus des séances de la Société de biologie. Séance du 23 janvier 1892.

**Haase, Erich.** Researches on mimicry on the basis of a natural classification of the Papilionidæ . . . By Dr. Erich Haase, pt. 2 . . . Translated by C. M. Child Ph. D. Stuttgart, Pub. by E. Nägele, 1896.

2 p. l., 154 p. 8 col. pl. 31¼<sup>cm</sup>.

CONTENTS.—pt. 2. Researches on mimicry.

**Müller, Hermann.** Schützende aehnlichkeit einheimischer insekten. Unter benutzung von beobachtungen des Dr. A. Speyer in Rhoden . . . Leipzig, 1879.

2 pts. illus. 23<sup>cm</sup>.

From Kosmos, III. jahrg., VI. bd., p. 29—39, 114—124.

**Wheeler, William Morton.** . . . Two cases of insect mimicry . . . [Milwaukee? 1889?]

[217]—221 p. 23<sup>cm</sup>.

Reprinted from the Proceedings of the Wisconsin natural history society, April, 1889.

## ENTOMOTAXY.

**Bolivar y Urrutia, Ignacio.** Apuntes acerca de la caza y conservación de los insectos por Ignacio Bolivar . . . Madrid, Imprenta á cargo de G. Juste, 1871.

2 p. l., 96, [2] p. illus. 22 $\frac{1}{2}$ cm.

"Bibliografía:" p. 84-96.

**Boucard, Adolphe.** How to gain from eighty to two hundred pounds sterling a year by instructive and amusing means or instructions for collecting, preserving, and sending collections of natural history. By A. Boucard. London, General natural history agency, 1871.

25 p. 20 $\frac{1}{2}$ cm.

**Bruner, Lawrence.** . . . Directions for collecting, preparing, and preserving specimens of Orthoptera for the cabinet . . . [n. p., n. d.]

8 p. illus. 22 $\frac{1}{2}$ cm. (Special bulletin no. 2 from the Department of entomology in the University of Nebraska)

**Bunker, Robert.** . . . Hints on collecting, breeding, and preserving insects. By Robert Bunker. Rochester, N. Y., F. D. Phinney, 1880. Agr 3-147

12 p. 22 $\frac{1}{2}$ cm. (Rochester society of natural sciences. Transactions. no. 1)

**Calvert, Philip Powell.** . . . A hint for the preparation of internal organs of dried insects . . . [Rochester, N. Y., 1902]

1 p. 24cm.

Reprinted from the Journal of applied microscopy and laboratory methods, Rochester, N. Y., vol. v, no. 2.

**Cragin, Belle S.** Our insect friends and foes, how to collect, preserve and study them, by Belle S. Cragin . . . New York & London, G. P. Putnam's sons, 1899.

1 p. l., xix, 377 p. illus. 20cm.

"Books for reference:" p. 339-341.

**Davis, C. Abbott.** Instructions for collecting and mounting insects. *See under* Coleoptera, p. 188.

**Dimmock, George.** Directions for the collection of Coleoptera for the use of beginners. Springfield, 1872.

1 p. l., 26 p. 15cm.

**Dury, Charles.** . . . The preparation and care of insect collections . . . [Cincinnati, 1894]

[178]-180 p. 23 $\frac{1}{2}$ cm.

Reprint from the Journal of the Cincinnati society of natural history, Oct., 1894.

**Eberhart, Noble M.** Elements of entomology. Embracing an explanation of technical terms; complete directions for collecting, mounting and preserving insects; and a pictorial key to our common insects. By Noble M. Eberhart . . . Chicago, A. Flanagan, 1891. Agr 3-1132

144 p. incl. front. (pl. I), illus., II-XI pl. 19cm.

**Fairmaire, Léon Marc Herminie.** Guide de l'amateur d'insectes comprenant les généralités sur leur division en ordre, l'indication des ustensiles et les meilleurs procédés pour leur faire la chasse, les époques et les conditions les plus favorables à cette chasse, la manière de les préparer et de les conserver en collections, par MM. L. Fairmaire et Berge. 4. éd., rev., cor. et augm. . . . Paris, E. Deyrolle fils [n. d.]

2 p. l., 144, [2] p. illus. 17 $\frac{1}{2}$ cm.

**Fernald, Charles Henry.** . . . Directions for collecting, preserving, and transporting tortricids and other small moths . . . [Washington] 1884.

3 p. 24cm.

From the Proceedings of the United States national museum, 1884, Appendix.

**Fleischer, J. M.** Taschenbuch für raupen- und schmetterlingssammler, von J. M. Fleischer. Leipzig, O. Leiner, [pref. 1883] Agr 3-1181

4 p. l., 280 p. illus. 15cm. (Added t.-p.: Bibliothek nützlicher taschenbücher. Hrsg. von Oskar Leiner und Emil Fischer . . .)

Advertisements: p. 269-280.



**Fleischer, J. M.** Taschenbuch für schmetterlingssammler, von J. M. Fleischer. 2. verb. aufl. Leipzig, O. Leiner, [pref. 1885] Agr 3—1182  
4 p. l., 288 p. illus. 15<sup>cm</sup>. (*Added t. p.*: Bibliothek nützlicher taschenbücher. Hrsg. von Oskar Leiner und Emil Fischer)

**Frauenfeld, Georg, ritter von.** Ueber den von Herrn Schirl erfundenen schmetterlings-selbstfänger . . . [Wien] 1868.

4 p. 1 pl. 22<sup>cm</sup>.

Aus den Verhandlungen d. K. K. zoolog.-botanischen gesellschaft in Wien (jahrgang 1868) besonders abgedruckt.

**Froggatt, Walter Wilson.** The collection and preservation of insects . . . [Sydney, 1902]

650-660 p. illus. 24 $\frac{1}{2}$ <sup>cm</sup>.

From Agricultural gazette of New South Wales, v. 13, June, 1902.

For first part of this article see Agricultural gazette of New South Wales, v. 13, p. 419-434.

**Fuller, Andrew S.** Collecting insects. How to collect, preserve and transport them. [n. p., n. d.]

5 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.

**Green, Edward Ernest.** Instructions for collecting and sending specimens of plants and insects for report. [Colombo] 1898.

[51]-54 p. 22<sup>cm</sup>. (Royal botanic gardens, Ceylon—Circular. series II.—no. 7. June 11, 1898)

By E. Ernest Green and John C. Willis.

**Holland, William Jacob.** Collecting and preserving insects . . . New York, 1891.

1 p. l., [305]-338 p. illus., XXII-XXIII pl. 21 $\frac{1}{2}$ <sup>cm</sup>.

Reprinted from "Taxidermy and zoological collecting," by W. T. Hornaday.

**Ingpen, Abel.** Manual for the butterfly collector: or, Instructions for collecting, rearing, and preserving British & foreign insects; also, for collecting and preserving crustacea and shells. By Abel Ingpen . . . New ed. London, D. Bogue, 1849.

Agr 3—1137

106 p. 3 pl. incl. front. 14<sup>cm</sup>.

**McNeill, Jerome.** An insect trap to be used with the electric light. [Philadelphia, 1889]

268-270 p. illus. 24<sup>cm</sup>.

From the American naturalist. Vol. XXIII, no. 268, April, 1889.

. . . **Net and box, or, Insect collecting** . . . Rutland, Vt., H. M. Downs, publisher, 1886.

cover-title, [41]-61 p. 15<sup>cm</sup>. (Science series, a weekly magazine of natural science. no. 3)

**Nouveau guide de l'amateur d'insectes comprenant les généralités sur leur division en ordres, l'indication des ustensiles et les meilleurs procédés pour leur faire la chasse, les époques et les conditions les plus favorables à cette chasse la manière de les préparer et de les conserver en collections. Par plusieurs membres de la Société entomologique de France.** Paris, A. Deyrolle, 1859.

Agr 3—1144

2 p. l., iv, 198 p. 18<sup>cm</sup>.

Prof. signed A. Deyrolle.

CONTENTS.—Généralités.—Fairmaire, L. Coléoptères.—Brisout de Barneville, Louis. Orthoptères.—Signoret, Victor. Hémiptères.—Selys Longchamps, Edm. de. Névroptères.—Sichel, Hyménoptères.—Bellier de la Chavignerie. Lépidoptères.—Stainton, H. T. Microlépidoptères.—Bigot, J. Diptères.

**Packard, Alpheus Spring.** . . . Directions for collecting and preserving insects. Prepared for the use of the Smithsonian institution, by A. S. Packard, jr. . . . Washington, Smithsonian institution, 1873.

2 p. l., 55 p. illus. 24<sup>cm</sup>. (Smithsonian miscellaneous collections. no. 261 [in vol. XI])

**Packard, Alpheus Spring.** How to collect and observe insects . . . Augusta, 1863.

79 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.

From the Report of the Maine scientific survey for 1862.

**Riley, Charles Valentine.** . . . Directions for collecting and preserving insects. By C. V. Riley . . . Washington, Govt. print. off., 1892.

1 p. l., iv, 147 p. incl. illus., pl. 24½<sup>em</sup>. (Smithsonian institution—United States national museum. Bulletin of the United States national museum. Bulletin no. 39, Part F)

"Text books—entomological works:" p. 131-145.

**Samouelle, George.** General directions for collecting and preserving exotic insects and crustacea: designed for the use of residents in foreign countries, travellers, and gentlemen going abroad. By George Samouelle . . . London, Printed for Longman, Rees, Orme, Brown, & Green, 1826.

70 p. 4 pl. 16½<sup>em</sup>.

**Schenkling, Carl.** Taschenbuch für käfersammler . . . Bearb. von Carl Schenkling . . . Leipzig, O. Leiner [pref. 1883] Agr 3—1185

4 p. l., 204, xxiv p. fold. pl. 15<sup>em</sup>. (Added t.-p.: Bibliothek nützlicher taschenbücher. Hrsg. von Oskar Leiner und Emil Fischer)

Advertisements: p. xiii-xxiv.

**Selys-Longchamps, Michel Edmond, baron de.** De la chasse et de la préparation des névroptères . . . Paris, 1859.

1 p. l., 13 p. 18½<sup>em</sup>.

Extrait du Nouveau guide de l'amateur d'insectes.

**Selys-Longchamps, Michel Edmond, baron de.** Instructions sur la chasse des névroptères. [Paris, Londres, 1868]

15 p. 18<sup>em</sup>.

From Guide de l'amateur d'insectes . . . par plusieurs membres de la Société entomologique de France. 3. éd.

**Titzenthaler, Franz.** Kurzgefasste anweisungen über fangeräthschaften, erscheinungs- und fangzeiten, fundstellen und ködermittel von schmetterlingen, käfern, wanzen und anderen insecten, deren behandlung beim einfangen, tödten, verpacken und transportiren aus entfernten gegenden. Für sammler und naturfreunde von Franz Titzenthaler. Dresden, Im selbstverlag des verfassers [n. d.]

16 p. 23<sup>em</sup>.

**Titzenthaler, Franz.** Short instructions about times of appearance and catching, places for finding, and baits for butterflies, beetles, bugs, and other insects; catching, killing, packing and transporting them to distant countries. For collectors and friends of natural history by Francis Titzenthaler. Dresden, Published by the author [n. d.]

16 p. 23½<sup>em</sup>.

**Walsingham, Thomas De Grey, 6th lord.** Directions for collecting microlepidoptera . . . Salem, Mass., 1872.

7 p. 23<sup>em</sup>.

From the American naturalist, vol. vi, no. 5.

**Wolcott, Robert Henry.** A modification of the Birge collecting net . . . [London, 1901]

cover-title, [3] p. illus. 24<sup>em</sup>.

"Reprinted from the Journal of applied microscopy, vol. iv, no. 8."

## BIOGRAPHY OF ENTOMOLOGISTS.

**American entomological society, Philadelphia.** The entomologists' directory, containing the names, addresses, special departments of study, etc., of those interested in the study of insect life in the United States and Canada. Comp. by Henry Skinner, M. D., secretary of the American entomological society. Philadelphia, Pa., 1900.

8 v. l., 84 p. 24<sup>em</sup>.

**Audouin, Jean Victor.** . . . Discours prononcé sur la tombe de M. Latreille, par M. Victor Audouin, vice-président, le 8 février 1833. [Paris? 1833?]

8 p. 19 $\frac{1}{2}$ cm.

Caption title.

At head of title: Société entomologique de France.

**Dickinson, Thomas A.** A memorial of Francis Gregory Sanborn . . . Worcester, Mass., 1885.

20 p. front. (port.) 25 $\frac{1}{2}$ cm.

Reprinted from the Proceedings of the Worcester society of antiquity for 1884. With additions.

**Dodge, Charles Richards.** Life and entomological work of the late Townend Glover, first entomologist of the U. S. Department of agriculture. Washington, 1888.

68 p. illus., 1 pl., 1 port. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 18.)

**Goding, Frederic Webster.** A pen sketch of Dr. S. S. Rathvon, professor of entomology . . . [Harrisburg, 1891]

[7]–10 p. illus. 23 $\frac{1}{2}$ cm.

From Report of the State horticultural society of Pennsylvania, in Agriculture of Pennsylvania for 1890.

**Goode, George Brown.** A memorial appreciation of Charles Valentine Riley. . . . [New York, 1896]

8 p. 26 $\frac{1}{2}$ cm.

Reprinted from Science, n. s., vol. III, no. 59, February 14, 1896.

**Guthrie, F. B.** Arthur Sidney Olliff. [Sydney, 1896]

4 p. 24 $\frac{1}{2}$ cm.

From Agricultural gazette of New South Wales. Vol. VII, pt. 1.

"List of published notes and papers by Arthur Sidney Olliff," p. 2-4.

**Harris, Thaddeus William.** Entomological correspondence of Thaddeus William Harris, M. D., ed. by Samuel H. Scudder. Boston, Boston society of natural history, 1869.

Agr 3—1134

xlvii, 375 p. front. (port.) illus., iv pl. (2 col.) 24cm. (*Added t. p.*: Occasional papers of the Boston society of natural history. 1)

**Henshaw, Samuel.** Hermann August Hagen. [Boston, 1894]

cover-title, 5 p. port. 24 $\frac{1}{2}$ cm.

Reprinted from the Proceedings of the American academy of arts and sciences, vol. XXIX.

**Horn, George Henry.** Memoir of John L. Le Conte . . . [Philadelphia, 1884]

294–299 p. 23cm.

From Proceedings of the American philosophical society, vol. XXI.

**Lichtenstein, Jules, i. e. Wilhelm Auguste Jules.** Riley et l'entomologie agraire aux États-Unis. [Montpellier, 1875?]

5 p. 24cm.

**Memoir** of the late Rev. Frederick William Hope, M. A. [London? 1862?]

6 p. 22cm.

Reprinted from the Gentleman's magazine.

**Morren, Édouard, i. e. Charles Jacques Édouard.** Éloge de Jean-Théodore Lacordaire prononcé en séance publique du sénat académique de l'Université de Liège, le 14 novembre 1870 par M. Édouard Morren . . . Liège, Impr. de J. Desoer, 1870.

1 p. l., [5]–27 p. 22cm.

"Bibliographie de Th. Lacordaire:" p. [25]–27.

**Ord, George.** A memoir of Thomas Say . . . Read before the American philosophical society, on the 19th December, 1834. [n. p., 1834?]

15 p. 23cm.

**Ormerod, Eleanor Anne.** Eleanor Ormerod, LL. D., economic entomologist. Autobiography and correspondence, ed. by Robert Wallace . . . London, J. Murray, 1904.

4—14605

xx, 348 p. incl. illus., facsim. front., xxx pl. (incl. ports., maps) 23cm.

**Osten Sacken, Karl Robert Romanovich, baron von.** Record of my life work in entomology. [By] C. R. Osten Sacken. Cambridge, Mass., 1903-04. Agr 3-1080 viii p., 1 l., 240, [2] p. 3 port., facsim. 24 $\frac{1}{2}$ cm.  
225 copies printed, of which this is no. 54.

"... 'Introduction' was first printed as a separate pamphlet by the Cambridge (England) university press, and was dated January 30, 1901. This second edition is a reprint of the first, and the principal change introduced consists in the mode of reference to the chapters... which... appear now collected in pt. II."

Pt. 3 issued separately, published at Heidelberg.

CONTENTS.—pt. 1, Introduction.—pt. 2. Twenty-four chapters on historical, biographical, critical, and purely entomological subjects connected with my work.—pt. 3. List of my entomological publications from 1854 to 1904.

**Packard, Alpheus Spring.** Charles Valentine Riley. New York, 1895.

[745]-751 p. 27cm.

From Science. n. s. vol. II.

**Planchon, Jules Émile.** Notice sur M. Jules Pagézy . . . Lyon, 1883.

8 p. 21cm.

Extrait de la Vigne américaine, tome VII, n° de janvier 1883.

**Planchon, Jules Emile.** Notice sur MM. Louis Bazille & Jules Lichtenstein.

. . . [Lyon] 1886.

7 p. 21 $\frac{1}{4}$ cm.

Extrait de la Vigne américaine, n° de décembre 1886.

**Planchon, Louis.** Jules Lichtenstein. Lettre adressée à Messieurs les membres de la Société d'étude des sciences naturelles de Nîmes . . . Nîmes, 1887.

cover-title, 12 p. 21 $\frac{1}{4}$ cm.

Extrait du Bulletin de la Société d'étude des sciences naturelles de Nîmes, 5. année, 1887.

**Powell, George R.** Frederick Valentine Melsheimer, a pioneer entomologist, and a noted clergyman and author. A paper read before the Historical society of York County, April 8, 1897. By George R. Prowell. [York, Penna., 1903]

cover-title, 17-26 p. 21 $\frac{1}{4}$ cm.

**Riley, Charles Valentine.** Darwin's work in entomology . . . [Washington, 1882]

70-80 p. 23 $\frac{1}{2}$ cm.

From Proceedings of the Biological society of Washington. vol. I.

**Sabatier, Armand.** Jules Lichtenstein, discours prononcé sur sa tombe au nom de la Société d'horticulture et d'histoire naturelle de l'Hérault, le 2 décembre 1886 par M. Armand Sabatier . . . Liste de ses publications dressée en partie par lui-même complétée par MM. J. E. Planchon et Valéry-Mayet. Louis Bazille, discours prononcé sur sa tombe le 27 novembre 1886 par J. E. Planchon. Montpellier, 1887.

32 p. 21 $\frac{1}{2}$ cm.

Extrait des Annales de la Société d'horticulture et d'histoire naturelle de l'Hérault (année 1887)

**Scudder, Samuel Hubbard.** Biographical notice of David Humphreys Storer . . . [Boston, 1893]

388-391 p. 24 $\frac{1}{2}$ cm.

Reprinted from the Proceedings of the American academy of arts and sciences, vol. XXVII.

**Scudder, Samuel Hubbard.** . . . The services of Edward Burgess to natural science . . . [Boston, 1892]

[358]-364 p. 24cm.

From the Proceedings of the Boston society of natural history, vol. XXV, December 16, 1891.

"List of the natural history writings of Edward Burgess:" p. 362-364.

**Silbermann, Gustave.** Énumération des entomologistes vivants, suivie de notes sur les collections entomologiques des principaux musées d'histoire naturelle d'Europe, sur les sociétés d'entomologie, sur les recueils périodiques consacrés à l'étude des insectes, et d'une table alphabétique des résidences des entomologistes. Par G. Silbermann . . . Paris, Roret; [etc. etc.] 1835.

v, 115, [1] p. 21 $\frac{1}{2}$ cm.

Agr 4-1779

**Wilder, Burt Green.** [William Stebbins Barnard] [Philadelphia, 1887]

1186-1187 p. 23cm.

Extracted from the American naturalist, December, 1887. vol. XXI.

## MISCELLANEOUS.

**Bargagli, Piero**, *marchese*. . . Insetti commestibili. Lettura fatta nell' adunanza della Società entomologica italiana la sera del 7 marzo 1877. Firenze, 1877.

11 p. 24<sup>cm</sup>.

Estratto dalla Revista europea; Revista internazionale, del fascicolo 16 giugno 1877, anno 8, vol. II, fasc. v.

**Berg, Carlos**. . . Canibalismo entre insectos. [Buenos Aires, 1892]

4 p. 25<sup>cm</sup>.

From Anal. Soc. cient. argent., t. xxxiv, p. 386-388. 1892.

**Brauer, Friedrich**. Insecten-leben im winter. Ein vortrag gehalten im Vereine zur verbreitung naturwissenschaftlicher kenntnisse in Wien am 22. märz 1871, von Friedr. Brauer. Wien, Selbstverlag des vereines, 1871.

Agr 5—812

25 p. 18½<sup>cm</sup>.

**Entomology in the National museum**. [New York] 1885.

445-446 p. 25<sup>cm</sup>.

From Science, vol. vi, no. 146.

**Gadeau de Kerville, Henri**. Les insectes phosphorescents avec quatre planches chromolithographiées, par Henri Gadeau de Kerville . . . Rouen, Impr. L. Deshays, 1881.

Agr 3—1058-9

55 p. iv col. pl. 22½<sup>cm</sup>.

— Les insectes phosphorescents, notes complémentaires et bibliographie générale (anatomie, physiologie et biologie) par Henri Gadeau de Kerville. Rouen, Impr. J. Lecerf, 1887.

Agr 3—1058-9

132 p., 1 l., [2] p. 22½<sup>cm</sup>.

**Garman, Harrison**. Entomology in the southern states. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 99. Washington, 1901. p. 153-160)

**Glover, Townend**. Entomological exhibition in Paris. (U. S. Agriculture, Commissioner of. Report . . . for the year 1865. Washington, 1866. p. 88-102)

**Glover, Townend**. . . . Petition of Professor Townend Glover proposing to transfer to the government certain entomological works, with the engraved plates prepared to illustrate the various species of insects of the North American continent . . . Washington, 1879.

5 p. 23<sup>cm</sup>. ([U. S.] 45th Cong., 3d sess., Senate. Misc. doc. no. 38)

**Glover, Townend**. Vindication of the Entomological and Museum divisions of the Department of agriculture. Washington, 1872.

7 p. 18½<sup>cm</sup>.

**Halford, Frederic Michael**. Dry fly entomology, a brief description of leading types of natural insects serving as food for trout and grayling with the 100 best patterns of floating flies and the various methods of dressing them, by Frederic M. Halford . . . London, Vinton & co., limited, 1897.

1 p. l., xii, 314 p. illus., xxviii pl. (x col.) fold. tab. 22½<sup>cm</sup>.

**Howard, Leland Ossian**. Division of entomology. (U. S. Agriculture, Dept. of. Yearbook, 1897. Washington, 1898. p. 84-89)

**Hummel, Arvid David**. Essais entomologiques. No. i. Quelques observations sur la blatte germanique. Nouv. éd. [St.-Petersbourg, 1829]

21, [1] p. 21<sup>cm</sup>.

"Liste alphabétique des ouvrages. p. 17-21."

With this is published a title-page for tome 1 (no. I-VI)

— No. v. Quelques réflexions sur l'étude de l'histoire naturelle. Insectes de 1825 . . . St.-Petersbourg, 1826.

2 p. l., 51 p. 22<sup>cm</sup>.

— No. vii. tome 2. no. i. St.-Petersbourg, 1829.

88 p. 21<sup>cm</sup>.

**Thering, Hermann von** Quelques observations sur les nids d'insectes, faits d'argile . . . [Rio Grande do Sol, 1892]

7 p. 25<sup>em</sup>.

**Langley, Samuel Pierpont.** . . . On the cheapest form of light from studies at the Alleghany observatory. By S. P. Langley and F. W. Very . . . [New Haven, 1890]

[97]-113 p. III-V pl. 23 $\frac{1}{2}$ <sup>em</sup>.

From the American journal of science, vol. XL, August, 1890.

**Löw, Franz.** Ueber die bewohner der schwalbennester und die metamorphose der *Tinea spretella* S. V. . . . [Vienna] 1861.

6 p. 22 $\frac{1}{4}$ <sup>em</sup>.

Aus den Verhandlungen der K. K. zoologisch-botanischen gesellschaft in Wien <jahrg. 1861> besonders abgedruckt.

**Macleay, William Sharp.** . Remarks on the identity of certain general laws which have been lately observed to regulate the natural distribution of insects and fungi . . . London, 1825.

46-68 p. 28<sup>em</sup>.

From the Transactions of the Linnean society of London. vol. XIV.

**Notes** upon additions to the museum of the South Australian public library, museum, and art gallery, by "an amateur naturalist." Concluded. A continuation of the "notes" published in 1887 . . . Adelaide, W. H. Thomas & co., printers, 1889.

iii-vi, 42 p. 27<sup>em</sup>.

Reprinted from The South Australian register and Adelaide observer.

**Ormerod, Eleanor Anne.** A lecture on effects of weather on insects, delivered at the Royal agricultural college, Cirencester London, 1882.

23 p. 18<sup>em</sup>.

**Osborn, Herbert.** Entomological work in experimental stations. (U. S. Agriculture, Dept. of.—Experiment stations, Office of. Bulletin 24. Washington, 1895. p. 85-88)

**Packard, Alpheus Spring.** On the genealogy of the insects . Philadelphia, 1883.

932-945 p. illus. 22<sup>em</sup>.

From the American naturalist, September, 1883. vol. XVII.

**Patterson, Robert.** Letters on the natural history of the insects mentioned in Shakspeare's plays. With incidental notices of the entomology of Ireland. By Robert Patterson London, W. S. Orr & co., 1838.

Agr 3—1147

xv. 270 p. illus. 17 $\frac{1}{4}$ <sup>em</sup>.

**Rennie, James.** Insect architecture, by James Rennie; new ed., much enl. by the Rev. J. G. Wood . . . with nearly two hundred illustrations. London, Bell and Daldy, 1869.

xv, 439 p. illus. 19<sup>em</sup>.

**Riley, Charles Valentine.** Entomological papers . [Salem, 1879]

[3]-23 p. fold. map. 24<sup>em</sup>.

From the Proceedings of the American association for the advancement of science, St. Louis meeting, August, 1878.

CONTENTS.—The philosophy of the movements of the Rocky Mountain locust.—A new source of wealth in the United States.—Notes on the life-history of the blister-beetles and on the structure and development of *Hornia*.—On the larval characteristics of *Corydalus* and *Chauliodes* and on the development of *Corydalus cornutus*.—Biological notes on the gall-making *Pemphiginae*.

**Riley, Charles Valentine.** . . . Locusts as food for man . . . [Salem, 1876]

[208]-214 p. 24<sup>em</sup>.

From the Proceedings of the American association for the advancement of science, Detroit meeting, August, 1875.

**Riley, Charles Valentine.** Poisonous insects . . . New York, W. Wood & company, 1887.

1 p. l., 741-760 p. illus. 28<sup>em</sup>.

Extracted from the Reference handbook of the medical sciences. vol. V, 1887.

**Riley, Charles Valentine.** . . . Report on the department of insects in the U. S. national museum, 1889 . . . Washington, 1891.

377-380 p. 24<sup>cm</sup>.

From the Report of the National museum, 1888-89, p. 377-380.

**Scudder, Samuel Hubbard.** Entomological notes. I-[VI] By Samuel H. Scudder . . . [Boston, 1868]-78.

6 pts. in 1 v. 2 pl. (1 fold.) 22<sup>cm</sup>-24<sup>1/2</sup><sup>cm</sup>.

Imprint of pt. IV-VI: Boston, Press of A. A. Kingman, 1875-78.

From the Proceedings of the Boston society of natural history, vol. XI-XIX.

**Scudder, Samuel Hubbard.** Problems in entomology. An address . . . Before the Entomological club (afterwards the subsection of entomology) of the American association for the advancement of science. Boston meeting, August 24, 1880. Salem, Mass., 1881.

9 p. 22<sup>1/2</sup><sup>cm</sup>.

From the Proceedings of the American association for the advancement of science, vol. XXIX, Boston meeting, August, 1880.

**Spruce, Richard.** . . Notes on some insect and other migrations observed in equatorial America . . . [London, 1868]

346-367 p. 22<sup>cm</sup>.

From the Journal of the Linnean society. Zoology, vol. IX.

**Wasmann, Eric.** Langlebige insecten. [Freiburg i. B., 1899]

496-506 p. 24<sup>cm</sup>.

From "Stimmen aus Maria-Laach, 1899, 10. heft.

## ENTOMOLOGY, ECONOMIC.

### AMERICAN.

**Adams, M. F.** Superintendent's report. [Injurious insects] Buffalo, 1900.

12 p. illus. 23<sup>1/2</sup><sup>cm</sup>. (*On cover:* Buffalo forestry association. Annual report)

**Aughey, Samuel.** Relation of insects to horticulture and agriculture . . . [Lincoln, 1879]

98-98 p. 23<sup>cm</sup>.

From the Annual report of the Nebraska state horticultural society, 1878-79.

**Banks, Nathan.** Principal insects liable to be distributed on nursery stock. Washington, 1902.

46 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 34)

**Bessey, Charles Edwin.** Report on insects . . . Des Moines, 1874.

23 p. illus. 23<sup>cm</sup>.

Extracted from the report of the Iowa state agricultural society for 1873.

**Bessey, Charles Edwin.** Report on insects injurious to the plants and animals of the farm, to the Iowa state agricultural society . . . Des Moines, 1875.

24 p. illus. 23<sup>1/2</sup><sup>cm</sup>.

**Bruner, Lawrence.** Notes from Nebraska. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the year 1884. Washington, 1884. p. 398-403)

**Bruner, Lawrence.** Report on Nebraska insects. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1888. Washington, 1889. p. 139-141)

**Bruner, Lawrence.** Report on the season's observations in Nebraska. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p! 164-170)

**Chittenden, Frank Hurlbut.** Some insects injurious to garden and orchard crops. Washington, 1899.

99 pp. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 19)

**Cockerell, Theodore Dru Alison.** Economic entomology in Arizona . . . [London, 1900]

[366]-367 p. 25<sup>cm</sup>.

From Science-gossip, vol. VI, no. 72, May, 1900, p. 366-367.

**Comstock, John Henry.** Report on miscellaneous insects. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the years 1881 and 1882. Washington, 1882. p. 195-214. 7 pl.)

**Cook, Albert John.** Injurious insects of Michigan . . . [Lansing, 1875]

48 p. illus. 23 $\frac{1}{4}$ <sup>cm</sup>.

From Report of the State board of agriculture for 1874.

**Cook, Albert John.** Notes on noxious insects . . . [New York, 1887]

37-40 p. 23<sup>cm</sup>.

From the Proceedings of the 8th annual meeting of the Society for the promotion of agricultural science.

**Cooke, Matthew.** A treatise on the insects injurious to fruit and fruit trees of the State of California, and remedies recommended for their extermination. By Matthew Cook . . . Sacramento, J. D. Young, supt. state printing, 1881.

72 p. illus. 21 $\frac{1}{4}$ <sup>cm</sup>.

**Cutting, Hiram Adolphus.** An address upon farm pests, including insects, fungi, and animalcules, delivered at a meeting of the New Hampshire board of agriculture, by Hiram A. Cutting . . . Manchester, N. H., Printed by J. B. Clarke, 1879.

75 p. illus. 22 $\frac{1}{4}$ <sup>cm</sup>.

Cover-title: Pests of the farm.

**Fernald, Henry Torsey.** . . . Some common insect pests of the farmer. By H. T. Fernald. PH. D. . . . [Harrisburg] W. S. Ray, state printer of Pennsylvania, 1902. Agr 3-183

32 p. illus., pl. 23 $\frac{1}{4}$  cm. (Commonwealth of Pennsylvania. Department of agriculture. Bulletin no. 99)

**Fitch, Asa.** . . . A brief account of the most important injurious insects of the United States. By Asa Fitch . Albany, L. Tucker & son, 1863.

vi, 293-321 p. illus. 20<sup>cm</sup>.

From the Illustrated annual register of rural affairs.

**Fitch, Asa.** The most pernicious species of United States insects and the Curculio, two addresses delivered at the annual meetings of the New York state agricultural society, A. D. 1859 and 1860. By Asa Fitch . . . Albany, Printed by C. Van Benthuyzen, 1860.

28 p. illus. 23<sup>cm</sup>.

**Forbes, Stephen Alfred.** . . . The food relations of the Carabidæ and Coccinellidæ . . . [Peoria, Ill., 1883]

[83]-64 p. 22 $\frac{1}{4}$ <sup>cm</sup>.

From Bulletin no. 6, Ill. State lab. of nat. hist., Normal, Ill., Jan., 1883.

**Forbes, Stephen Alfred.** Nursery inspection and orchard insecticide work in Illinois. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 99. Washington, 1901. p. 172-176)

**Glover, Townend.** Insects injurious and beneficial to vegetation. Wash., 1855. (U. S. Patent office. Report of the Commissioner of patents for the year 1854. Agriculture. Washington, 1855. p. 59-89)

**Goding, Frederic Webster.** A report on the insects injurious to vegetation in Iowa, to the secretary of the State agricultural society, for the year 1882 . . . Ancona, Ill., 1883.

11 p. 23<sup>cm</sup>.

Reprinted from the Transactions of the Iowa state agricultural society for 1882, p. 322-329.

**Gossard, Harry Arthur.** Economic entomology in Florida. (U. S. Agriculture, Dept. of—Experiment Stations, Office of. Bulletin 99. Washington, 1901. p. 178-182)



**Gossard, Harry Arthur.** Florida observations; experimental work. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 115. Washington, 1902. p. 129–131)

**Greene, C. A.** An essay on insects injurious to vegetation and how to get rid of them . . . [Harrisburg, 1883]

12 p. 22<sup>cm</sup>.

Advertisements: p. 10–12.

Read before the members of the State horticultural association of Pennsylvania, at their annual meeting at Harrisburg, Pa., January 17, 1883.

**Halstead, Byron David.** . . . Injurious garden insects . . . New York, 1883. 16 p. 18<sup>1/2</sup><sup>cm</sup>. (Home college series no. 88)

**Harris, Thaddeus William.** Extracts from Dr. Harris's work, On insects. (U. S. Patent office. Report of the Commissioner of Patents, showing the operations of the Patent office during the year 1844. Washington, 1845. p. 167–174)

**Harris, Thaddeus William.** Report on insects and diseases injurious to vegetation, read before the American pomological society, at its session in Boston, September, 1854 . . . Boston, 1854.

11 p. 24<sup>cm</sup>.

**Harris, Thaddeus William.** A report on the insects of Massachusetts injurious to vegetation. Published agreeably to an order of the legislature by the Commissioners on the zoological and botanical survey of the state. Cambridge, Folsom, Wells, and Thurston, printers to the University, 1841. Agr 3—188

viii, 459 p. 24<sup>cm</sup>.

**Harris, Thaddeus William.** A treatise on some of the insects of New England which are injurious to vegetation. By Thaddeus William Harris, M. D. Cambridge, J. Owen, 1842. Agr 5—58

2 p. l., 459 p. 24<sup>1/2</sup><sup>cm</sup>.

— A treatise on some of the insects of New England which are injurious to vegetation. By Thaddeus William Harris, M. D. 2d ed. Boston, Printed by White & Potter, 1852.

viii, 513 p. 24<sup>cm</sup>.

— A treatise on some of the insects injurious to vegetation. By Thaddeus William Harris, M. D. A new ed., enl. and improved, with additions from the author's manuscripts and original notes. Illustrated by engravings drawn from nature under the supervision of Professor Agassiz. Ed. by Charles L. Flint . . . Boston, Crosby and Nichols; New York, O. S. Felt, 1862.

xi, 640 p. illus., viii pl. incl. front. 21<sup>1/2</sup><sup>cm</sup>.

Wanting p. xi.

— Boston, Crosby and Nichols; New York, O. S. Felt, 1863.

xi, 640 p. illus., viii pl. incl. front. 21<sup>1/2</sup><sup>cm</sup>.

— New York, O. Judd company, 1890.

xi, 640 p. illus., viii pl. incl. front. 22<sup>cm</sup>.

**Hine, James Stewart.** . . Some greenhouse pests . . . Columbus, 1897.

8 p. 23<sup>1/2</sup><sup>cm</sup>.

Reprinted from the Columbus horticultural journal, vol. 12.

**Hollrung, Max.** Über das pflanzenschutzwesen in den Vereinigten Staaten von Nordamerika und was wir von ihm lernen können. [Berlin] 1894.

60–70 p. 24<sup>1/2</sup><sup>cm</sup>.

Sonderabdruck aus dem Jahrbuch der Deutschen landwirtschafts-gesellschaft 1894, bd. 9.

**Hopkins, Andrew Delmar.** The principal insect depredations and depredators noted in the state. A study of agricultural conditions in West Virginia and the needs of entomological work . . . [n. p., 1896]

cover-title, [93]–129 p. illus., 2 maps (1 fold.) 22<sup>cm</sup>.

"Life zones:" p. [117]–129.

"From the Ninth annual report of the West Virginia agricultural experiment station, 1896."

**Howard, Leland Ossian.** . . . A contribution to the study of the insect fauna of human excrement. <With especial reference to the spread of typhoid fever by flies> . . . Washington, D. C., 1900.

541-604 p. illus., xxx-xxxI pl. 26<sup>cm</sup>.

Proceedings of the Washington academy of sciences, vol. II, pp. 541-604.

**Howard, Leland Ossian.** The economic status of insects as a class . . . Address of the retiring president of the Biological society of Washington, delivered January 18, 1899. [New York, 1899]

33 p. 25<sup>cm</sup>.

Reprinted from Science, II. S., vol. IX, no. 216, p. 233-247, February 17, 1899.

**Howard, Leland Ossian.** How insects affect health in rural districts Washington, 1902.

20 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmer's bulletin 155)

Also published in Yearbook for 1901, p. 177-192, under title: Insects as carriers and spreaders of disease.

**Howard, Leland Ossian.** Progress in economic entomology in the United States. (U. S. Agriculture, Dept. of. Yearbook, 1899. Washington, 1900. p. 135-156. pl.)

**Illinois—State entomologist.** Miscellaneous essays on economic entomology by the State entomologist and his entomological assistants. Springfield, Ill., H. W. Rokker, state printer and binder, 1886.

130 p. 23<sup>cm</sup>.

Published as an appendix to the Transactions of the Department of agriculture . . . of Illinois . . . for 1888, vol. XXIII.

CONTENTS.—The entomological record for 1885. By S. A. Forbes.—Experiments on the codling moth and curculios . . . By S. A. Forbes.—A second contribution to the life history of the corn plant louse (*Aphis maidis* Fitch.) By H. Garman.—Partial economic bibliography of Indian corn insects. By Thomas F. Hunt.

**Iowa state horticultural society.** Entomological papers from the Transactions of the Iowa state horticultural society, for the year 1882. Comprising premium essays by Hon. J. N. Dixon and Miss Alice B. Walton, and the annual report of Prof. Herbert Osborn . . . Des Moines, F. M. Mills, state printer, 1883.

42 p. 23<sup>cm</sup>.

**Jack, John George.** . . . Notes on some injurious insects . . . [Boston, 1894]

133-151 p. 23<sup>cm</sup>.

From the Transactions of the Massachusetts horticultural society, for the year 1894, pt. I.

**Johnson, Willis Grant.** Insects beneficial to horticulture, paper read before the Horticultural society of central Illinois at the Griggsville meeting, January 9, 1896 . . . Savoy, Illinois, 1895.

18 p. illus. 22<sup>cm</sup>.

Extract from Transactions of the Society, vol. 29 (new series), 1895.

**Kellogg, Vernon Lyman.** . . . Common injurious insects of Kansas. By Vernon L. Kellogg. [Lawrence] The university, 1892.

viii, 126 p. illus. 22<sup>cm</sup>.

At head of title: The University of Kansas, Lawrence. Department of entomology . . .

**Klee, Waldemar Goetrik.** A treatise on the insects injurious to fruit and fruit trees of the state of California, and remedies recommended for their extermination. By W. G. Klee, state inspector of fruit pests. State board of horticulture. Sacramento, State office, J. D. Young, supt. state printing, 1888.

61 p. illus., 8 pl. (4 col.) 23<sup>cm</sup>.

Agr 4-38

**Le Conte, John Lawrence.** Hints for the promotion of economic entomology in the United States . . . [Boston] 1873.

[710]-722 p. 24<sup>1/2</sup><sup>cm</sup>.

From the American naturalist, vol. VII, December, 1873.

- Le Conte, John Lawrence.** . . . On the method of subduing insects injurious to agriculture. . . . [Philadelphia, 1876]  
[202]-207 p. 24<sup>cm</sup>.  
From the Proceedings of the American association for the advancement of science, Detroit meeting, August, 1875.
- Lintner, Joseph Albert.** . . . Late experiences with insects injurious to the orchard and garden . . . Rochester [1890]  
20 p. 23<sup>cm</sup>.  
From the Proceedings of the Western New York horticultural society, for 1890.
- Lintner, Joseph Albert.** A new principle in protection from insect attack . . . Rochester [1882]  
15 p. 22<sup>cm</sup>.  
From the Proceedings of the Western New York horticultural society, for 1882.
- Lintner, Joseph Albert.** . . . Some pests of the pomologist'. . . [Grand Rapids, Mich., 1887]  
13 p. 28 x 21<sup>cm</sup>.  
From the American pomological society's report for 1887.
- List of economic species of insects for public schools, with references to entomological literature.** Peoria, J. W. Franks & sons, printers, 1891.  
cover-title, 13 p. 23½<sup>cm</sup>.
- Long, Elias A.** Our insect foes; how to deal with. Buffalo, 1887.  
32 p. illus. 18<sup>cm</sup>.
- Lugger, Otto.** Insects injurious to small fruit. [n. p., n. d.]  
9 p. illus. 23½<sup>cm</sup>.
- Marlatt, Charles Lester.** Insect control in California. (U. S. Agriculture, Dept. of. Year book, 1896. Washington, 1897. p. 217-236. illus., pl.)
- Marlatt, Charles Lester.** Report on useful and injurious insects and the grapevine phylloxera . . . Author's ed. From the reports of the U. S. commissioners to the Universal exposition of 1889 at Paris, vol. v. Agriculture. Published by the Department of state. Washington, Gov't print. off., 1893. Agr 4—894  
1 p. l., 427-459 p. illus. 23½<sup>cm</sup>.
- Murtfeldt, Mary Esther.** Entomological notes of the season of 1888. Wash., 1889. (U. S. Agriculture, Commissioner of. Report of the Commissioner, 1888. Washington, 1899. p. 133-139)
- Murtfeldt, Mary Esther.** Report of the committee on entomology . . . [Jefferson City, Mo., 1890]  
48-53 p. 23<sup>cm</sup>.  
From Thirty-second annual report of the State horticultural society of Missouri, 1889.
- Murtfeldt, Mary Esther.** Some insects injurious to small fruits . . . [Jefferson City, Mo., 1901]  
315-324 p. 23<sup>cm</sup>.  
From Forty-third annual report of the State horticultural society of Missouri, 1900.
- Murtfeldt, Mary Esther.** Some useful insects and their products. [Jefferson City, Mo., 1898]  
228-238 p. 23<sup>cm</sup>.  
From Fortieth annual report of the State horticultural society of Missouri, 1897.
- Olliff, Arthur Sidney.** . . . Entomological notes . . . [Sydney, 1892]  
6 p. illus. 24½<sup>cm</sup>.  
From Agricultural gazette of New South Wales, vol. III, p. 698-703.
- Ongerth, Michael.** Ongerth's treatise on the insect pest, in orchards and vineyards, and his methods of exterminating the parasites. . . San Francisco [n. d.]  
12 p. 22<sup>cm</sup>.

**Osborn, Herbert.** Biologic notes on certain Iowa insects by Herbert Osborn and C. W. Mally. [Des Moines, 1896]

203-213 p. illus. 23<sup>cm</sup>.

From Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts [no. 1]

Reprinted from the Proceedings of the Iowa academy of sciences, 1895, vol. III (1896)

**Osborn, Herbert.** Entomological report . . . [Des Moines, 1880]

85-108 p. illus. 23<sup>cm</sup>.

From the Report of the Iowa state horticultural society for 1879. vol. 14.

CONTENTS.—Insects working on the apple.—On a species of plant-louse infesting the Scotch pine.—historical.

**Osborn, Herbert.** Papers on Iowa insects, consisting of fruit and forest tree insects (reprinted from Trans. State horticultural society, 1892, pp. 96-127) and some Iowa farm insects (reprinted from the Report of the State agricultural society, 1892, pp. 665-699) Des Moines, 1893.

67 p. illus. 23<sup>cm</sup>.

**Osborn, Herbert.** Report upon the insects of the season in Iowa. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p. 154-164)

**Packard, Alpheus Spring.** . . . Report on the Rocky Mountain locust and other insects now injuring or likely to injure field and garden crops in the western states and territories. By A. S. Packard, jr. . . . Washington, Gov't. print off., 1877.

2 p. l., 589-815 p. illus., LXII-LXX pl., 5 fold maps. 23<sup>cm</sup>.

Each plate accompanied by leaf of descriptive text.

At head of title: Department of the interior. United States geological survey. F. V. Hayden, U. S. geologist-in-charge.

Extracted from the Ninth annual report of the U. S. Geological and geographical survey of the territories for 1875.

**Perkins, George Henry** . . . On some of the injurious insects of Vermont . . . Montpelier, 1878.

39 p. illus. 22<sup>cm</sup>.

From the 5th report of the Vermont board of agriculture.

**Piper, Charles Vancouver.** Orchard enemies in the Pacific northwest. Washington, 1902.

39 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 153)

**Rathvon, Simon Snyder.** Entomological essay; read before the Fruit growers' association of eastern Pennsylvania, at its meeting in West Chester, on the 13th day of June, 1860 by S. S. Rathvon . . . Published by request. Philadelphia, Gardener's monthly book press, 1861.

AGR 4-3590

xi, [13]-36 p. vi pl. (1 col.) 24<sup>cm</sup>.

**Rathvon, Simon Snyder.** Entomology and its relations to the vegetable productions of the soil, with reference to both destructive and beneficial insects. (U. S. Patent office. Report of the Commissioner of patents for the year 1861. Agriculture. Washington, 1862. p. 585-620. illus.)

**Rathvon, Simon Snyder.** Entomology, and its relations to the vegetable productions of the soil, with reference to both the destructive and beneficial insects. (U. S. Agriculture, Commissioner of. Report . . . for the year 1862. Washington, 1863. p. 372-390. 4 pl.

"In continuation of the subject commenced on page 585 of the Agricultural Department of the Patent office Report for 1861."

**Read, Matthew C.** Destructive insects. [Columbus, 1883?]

99-109 p. 24<sup>cm</sup>.

From the 16th annual report of the Ohio state horticultural society for 1882-3.

Read before the Summit county horticultural society.

**Riley, Charles Valentine.** Economic entomology; its relations to agriculture. With directions how to collect, preserve, and study insects . . . Jefferson City, Regan & Carter, 1873.

48 p. illus. 23<sup>em</sup>.

Extracted from the Fifth entomological report of Missouri.

**Riley, Charles Valentine.** Einige unserer schädlicheren insekten. Von Chas. V. Riley . . . St. Louis, Mo., Gedruckt bei Theo. Schrader & co., 1872.

cover-title, 35 p. illus. 23 $\frac{1}{4}$ <sup>em</sup>.

**Riley, Charles Valentine.** "General truths in applied entomology." [Macon, 1884]

152-157 p. 23<sup>em</sup>.

From the Transactions of Georgia state agricultural society, spring meeting, February 12th and 13th, 1884.

**Riley, Charles Valentine.** How to destroy insects that are injurious to agriculture. Atlanta, 1884.

33-36 p. 21 $\frac{1}{4}$ <sup>em</sup>.

From the Georgia crop report for the month of June, 1884, circular no. 56, new series.

**Riley, Charles Valentine.** . . . Les insectes nuisibles et les insectes utiles aux États-Unis, insecticides et modes d'application . . . [Paris, 1889]

19 p. 23<sup>em</sup>.

Extrait du Rapport sur les productions agricoles des États-Unis, préparé sous la direction du Secrétaire de l'agriculture en vue de l'Exposition de 1889, à Paris.

At head of title: Commissariat général des États-Unis d'Amérique à l'Exposition universelle de 1889, à Paris. Section II.

**Riley, Charles Valentine.** . . . The outlook for economic entomology. New York, 1890.

[381]-384 p. 26<sup>em</sup>.

From the American garden, July, 1890.

**Rolfs, Peter Henry.** Injurious insects of the year. A brief study in insect dissemination. Advancements made in insecticides. A visit to the gypsy moth commission . . . [Tallahassee] 1896.

96-105 p. 24<sup>em</sup>.

Reprinted from the Proceedings of the 9th annual meeting of the Florida state horticultural society, 1896.

**Sanborn, Francis Gregory.** Insects of Massachusetts which are beneficial to agriculture. [Boston, 1863].

124-185 p. illus. 21 $\frac{1}{4}$ <sup>em</sup>.

From the 10th report of the secretary of the Massachusetts state board of agriculture, 1862.

**Sanderson, Ezra Dwight.** Insects injurious to staple crops. By E. Dwight Sanderson . . . 1st ed. 1st thousand. New York, J. Wiley & sons; London, Chapman & Hall, limited, 1902.

2-1749

x, 295 p. incl. front., illus. pl. 19 $\frac{1}{4}$ <sup>em</sup>.

**Scott, W. M.** . . . Inspection and certification of nursery stock. By W. M. Scott. Atlanta, Ga., 1901.

Agr 3-207

12 p. illus. 22<sup>em</sup>. (Georgia state board of entomology. Bulletin no. 3, July 1901.)

**Sempers, Frank W.** Injurious insects and the use of insecticides. A new descriptive manual on noxious insects, with methods for their repression. By Frank W. Sempers . . . 3d ed. Philadelphia, W. A. Burpee & co., 1896.

x, 17-216 p. incl. front., illus. 19<sup>em</sup>.

**Slingerland, Mark Vernon.** Some new notions about some old insects . . . Boston, 1899.

18 p. 24<sup>em</sup>.

Reprinted from the Transactions of the Massachusetts horticultural society, pt. 1, 1898.

**Smith, John Bernhard.** Economic entomology for the farmer and fruit-grower, and for use as a text-book in agricultural schools and colleges, by John B. Smith . . . Philadelphia, J. B. Lippincott company, 1896.

4-14485

xii, 11-481 p. front., illus., plates. 21<sup>em</sup>.

- Smith, John Bernhard.** . . . Insects versus horticulture . . . Newark, 1890. 15 p. 23<sup>em</sup>.  
From the Proceedings of the New Jersey state horticultural society, December 18 and 19, 1889.
- Snow, Francis Huntington.** . . . The best means of defense against the insect enemies of the horticulturist. [Topeka, G. W. Martin, 18—] 12 p. 23<sup>em</sup>.  
An address . . . being the fourth in the course of educational lectures organized by Capital grange, Topeka, Kansas.
- Snow, Francis Huntington.** Injurious insects, and how to destroy them . . . [Topeka, Kan., 1883] 39-48 p. 23<sup>em</sup>.  
From Quarterly report of the Kansas State board of agriculture, for the quarter ending March 31, 1883.
- Thomas, Cyrus.** . . . Manual of economic entomology for the state of Illinois. . . . (*In Illinois. State entomologist. Report . . . on the noxious and beneficial insects of the state of Illinois, 6th, p. [63]-174; 7th, p. [133]-273; 9th, p. [71]-140. [Springfield] [1877?]-80. 3 pts. 22½<sup>em</sup>. illus.*) Agr 5-243  
Pt. I has title: The introduction to, and first part of, A manual [?] of economic entomology for the state of Illinois. The part herein present includes only the Coleoptera, or beetles.  
Pt. II has title: Economic entomology of Illinois. Pt. II. Lepidoptera, or butterflies and moths, and their larva, or caterpillars. By Prof. G. H. French.  
Pt. III has title: Manual of economic entomology.
- Titus, E. S. G.** Catalogue of the exhibit of economic entomology at the Louisiana purchase exposition, St. Louis, Mo., 1904. Comp. under the direction of the Entomologist by E. S. G. Titus and F. C. Pratt. Washington, 1904. 155 p. 22<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Bureau of. Bulletin, no. 47)  
— — — Rev. ed. Washington, 1904. 165 p. 22<sup>em</sup>. (U. S. Agriculture, Department of.—Entomology, Bureau of. Bulletin no. 47)
- Uhler, Philip R.** Insects injurious to vegetation. (U. S. Patent office. Report of the Commissioner of patents for the year 1860. Agriculture. Washington, 1861. p. 312-322)
- United States—Dept. of agriculture.** Principal injurious insects of the years 1899, 1900, 1901, 1902, 1903. (U. S. Agriculture, Dept. of. Yearbook, 1899, p. 745-748; 1900, p. 725-729; 1901, p. 674-679; 1902, p. 726-733; 1903, p. 553-566. Washington, 1900-04)
- United States—Dept. of agriculture—Division of entomology.** Catalogue of the exhibit of economic entomology at the World's Columbian exposition, Chicago, Ill., 1893. Washington, 1893. 121 p. 23<sup>em</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin 31)
- United States—Dept. of agriculture—Division of entomology.** Catalogue of the exhibit of economic entomology at the World's industrial and cotton centennial exposition, New Orleans, 1884-'85. Washington, 1888. 95 p. 23<sup>em</sup>.
- United States—Dept. of agriculture—Division of entomology.** Miscellaneous notes on the work of the Division of entomology for the season of 1885. Washington, 1887. 46 p. pl. 23<sup>em</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin 12)
- United States—Entomological commission.** Third report of the United States entomological commission, relating to the Rocky mountain locust, the western cricket, the army worm, canker worms, and the hessian fly; together with descriptions of larvæ of injurious forest insects, studies on the embryological development of the locust and of other insects and on the systematic position of the Orthoptera in relation to other orders of insects. Washington, 1883. 347, 92 p. illus., 64 pl., 3 maps. 23<sup>em</sup>.

**Walsh, Benjamin Dann.** Insects injurious to vegetation, in Illinois . . . [Springfield, Ill., 1861]  
43 p. illus., pl. 22<sup>cm</sup>.  
Page 1-40, reprinted from Transactions of the Illinois state agricultural society, v. 4, p. 335-372.  
Page 41-43, reprinted from the Prairie farmer, n. s. v. 8, p. 257-258.

**Webster, Francis Marion.** . . . Horticultural entomology . . . Indianapolis, 1885.

23 p. incl. iv pl. illus. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From Transactions of Indiana horticultural society, 1885. 25th annual meeting.

**Webster, Francis Marion.** Report of Committee on entomology, 1898, 1900. [Columbus] 1898-1900.

2 nos. illus. 25<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From the Annual report of the Ohio state horticultural society, 1898, 1900.

**Webster, Francis Marion.** Silent partners in horticulture . . . Toledo, 1892. 19-25 p. illus. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From Advance abridged report of the Proceedings of the Ohio state horticultural society for 1891.

**Webster, Francis Marion.** The value of nursery inspection . . . Philadelphia, 1899.

3 p. 24<sup>cm</sup>.

From Proc. Am. Pom. Soc., Phila., 26th session, Sept. 1899.

**Weed, Clarence Moores.** Insects and insecticides. A practical manual concerning noxious insects and the methods of preventing their injuries. By Clarence M. Weed . . . Hanover, New Hampshire. Published by the author, 1891.

1 p. l., 281, [1] p. incl. front., illus. 6 pl. 22<sup>cm</sup>.

Agr 5-245

**Zimmerman, Charles D.** Entomology . . . [New York] 1882.

1 p. l., [51]-59 p. 24<sup>cm</sup>.

Extracted from the Agricultural review and Journal of the American agricultural association. vol. 2, no. 1. January, 1882.

**Zimmerman, Charles D.** . . . Entomology for the horticulturist . . . [n. p., 1882]

7 p. 15<sup>cm</sup>.

Published in March number of City and country.

#### FOREIGN.

**Ascárate y Fernández, Casildo.** Insectos y criptógamas que invaden los cultivos en España, por D. Casildo Ascárate y Fernández . . . Obra premiada por el Ministerio de fomento en virtud del concurso abierto el 18 agosto de 1888. Madrid, Tipolitografía de L. Péant e hijos, 1893.

Agr 5-57

780 p. illus., VIII col. pl. 25<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Balfour, Edward.** The agricultural pests of India, and of eastern and southern Asia, vegetable and animal, injurious to man and his products. By Surgeon-General Edward Balfour . . . London, B. Quaritch, 1887.

127 p. 19<sup>cm</sup>.

"Authorities consulted": p. [126]-127.

**Bargagli, Piero, marchese.** Distruzione degli insetti nocivi, Phylloxera, scaraffaggio delle patate (Doryphora), baco del cotone, cavallette del Colorado e di quelli che infestano i tepidari per mezzo dell' applicazione del fungo del lievito di birra proposta dal Dott. H. A. Hagen . . . Cambridge university press, John Wilson and son, 1879. [Firenze, 1880]

7 p. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

Estratto dal giornale L' agricoltura italiana, anno VI, fasc. LXIV.

**Boisduval, Jean Alphonse.** Essai sur l'entomologie horticole, comprenant l'histoire des insectes nuisibles à l'horticulture avec l'indication des moyens propres à les éloigner ou à les détruire et l'histoire des insectes et autres animaux utiles aux cultures, par le Dr. Boisduval . . . Paris, Librairie d'horticulture de E. Donnaud, 1867.

[iii]-xvi, 648 p. front. (port.) illus. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Bos, Jan Ritzema.** Insektenschade op bouw- en weiland, eene handleiding voor de kennis van de kleine vijanden van akker- en weidebouw, door Dr. J. Ritzema Bos . . . Groningen, J. B. Wolters, 1883.

4 p. l., 216 p. 24<sup>em</sup>.

**Bos, Jan Ritzema.** . . . Kurze mittheilungen über insektenfrass in den Niederlanden in den jahren 1890-91 . . . Stuttgart, [1893]

[336]-353 p. 24<sup>em</sup>.

Sonderabdruck aus der "Zeitschrift für pflanzenkrankheiten."

**Bos, Jan Ritzema.** . . . Kurze mittheilungen über pflanzenkrankheiten und beschädigungen in den Niederlanden in dem jahre 1892 und 1893 . . . [Stuttgart, 1894]

pt. 2-3. 24<sup>em</sup>.

Sonderabdruck aus der "Zeitschrift für pflanzenkrankheiten," iv. bd., 3. und 4. heft, p. 145-150, 218-229.

Pt. [1] published in Zeitschrift für pflanzenkrankheiten, iv. bd., p. 94-100.

**Bramson, Konstantin Ljudvigovich.** Вредныя насекомыя и мѣры для борьбы съ ними. (Практическая энтомологія) Руководство для сельскихъ хозяевъ, сельско-хозяйственныхъ учебныхъ заведений, народныхъ учителей и учительскихъ семинарій. Составилъ К. Л. Брамсонъ . . . издание 2-е, пересмотрѣнное и значительно дополненное . . . Екатеринославъ, Типолитографія Я. М. Чаусскаго, 1894-96.

Agr 4-485

2 pts. 14 pl. (10 col.) 25<sup>em</sup>.

Injurious insects and the means of combating them. (Practical entomology) Handbook for farmers, agricultural educational institutions, public teachers and seminary teachers . . . Ed. 2, rev. and considerably enl. . . .

Publisher, pt. 2: Высочайше утвержденное Товарищество „Печатня С. П. Яковлева."

**Brischke, C. G. A.** Die blattminirer in Danzig's umgebung . . . Danzig, 1880.

2 p. l., 58 p. illus. 24<sup>em</sup>.

"Separatabdruck aus den Schriften der Naturforschenden gesellschaft. neue folge, 5. bandes, 1. heft."

**Brocchi, Paul.** Rapport sur les observations faites en 1894-5 à la station entomologique de Paris . . . Paris, 1895-96.

2 nos. col. pl. 28<sup>em</sup>.

Extrait du Bulletin du Ministère de l'agriculture, vol. xiv-xv.

**Costa, Achille.** Degl' insetti che attaccano l' albero ed il frutto dell' olivo, del ciliegio, del pero, del melo, del castagno, e della vite, e le semenze del pisello, della lenticchia, della fava, e del grano; loro descrizione e biologia danni che arrecano e mezzi per distruggerli, per Achille Costa . . . Ed. 2 rivuduta ed accresciuta dalla stesso autore . . . Napoli, Pei tipi del commendatore G. Nobile, 1877.

Agr 4-1246

[3]-340 p. xiii pl. 29<sup>em</sup>.

**Curtis, John.** Farm insects: being the natural history and economy of the insects injurious to the field crops of Great Britain and Ireland, and also those which infest barns and granaries. With suggestions for their destruction. By John Curtis . . . Glasgow, Edinburgh, and London, Blackie and son, 1860.

Agr 5-143

1 p. l., xiv, [15]-528 p. 16 col. pl. (incl. front.) 25<sup>em</sup>.

**Decaux, François.** . . . Étude sur les insectes nuisibles recueillis à l'Exposition universelle. Moyens de les détruire . . . Paris, Imprimerie de la Société de typographie, 1890.

36 p. 24<sup>em</sup>.

At head of title: Société des agriculteurs de France.

**Fletcher, James.** The farm pests of insect life; evidence of Dr. James Fletcher . . . before the Select standing committee on agriculture and colonization 1899; printed by order of Parliament. Ottawa, Printed by S. E. Dawson, 1899.

20 p. 24<sup>em</sup>.



- Fletcher, James.** Injurious insects. [Ottawa, 1895]  
18-23 p. illus. 25<sup>mm</sup>.  
From the Bulletin of the Central experimental farm. no. 23.
- Fletcher, James.** . . . Recent additions to the list of injurious insects of Canada  
. . . Ottawa, J. Hope & sons; [etc., etc.] 1899.  
207-231 p. illus. 25<sup>mm</sup>.  
From the Transactions of the Royal society of Canada, 2d ser., 1899-1900. Vol. v, section iv. Geological and biological sciences.
- Franceschini, Felice.** . . . Gli insetti nocivi, di Felice Franceschini . . . Milano,  
U. Hoepli, 1891. Agr 4—205  
vii, [1], 263, [1] p. illus. 15½<sup>mm</sup>. (Manuali Hoepli)  
"Note bibliografiche": p. at end.
- Franceschini, Felice.** . . . Gli insetti utili, di Felice Franceschini . . . Milano,  
U. Hoepli, 1882. Agr 4—206  
xi, 160 p. incl. front., illus. 15½<sup>mm</sup>. (Manuali Hoepli)  
"Note bibliografiche": p. 151.
- Frauenfeld, Georg, ritter von.** Ueber die bisher eingelangten diessjährigen  
berichte von landwirthschaftlichen insekten-schäden . . . [Wien] 1866.  
[641]-646 p. 22½<sup>mm</sup>.  
From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, bd. xvi.  
Anhang. Ueber die mittel gegen den buckligen ackerlaufkäfer. Von Herrn Gust. Künstler: p.  
645-646.
- Frauenfeld, Georg, ritter von.** Ueber einige pflanzenverwüster des jahres 1869  
. . . [Wien, 1869]  
4 p. 22<sup>mm</sup>.  
Aus den Verhandlungen d. K. K. Zoolog.-botanischen gesellschaft in Wien <jahrgang 1869> beson-  
ders abgedruckt . . .
- Frauenfeld, Georg, ritter von.** Ueber einige pflanzenverwüster, eingesendet von  
Sr. Durchl. fürst Colloredo-Mannsfeld . . . [Wien, 1864]  
[413]-416 p. 22½<sup>mm</sup>.  
From Verhandlungen d. K. K. Zoolog.-botanischen gesellschaft in Wien <jahrgang 1869> bd. 14.
- French, Charles.** A handbook of the destructive insects of Victoria, with notes  
on the methods to be adopted to check and extirpate them. Prepared by order of  
the Victorian Department of agriculture by C. French . . . Melbourne, R. S. Brain,  
government printer 1891-1900.  
pt. 1-3. illus, plates (partly col.) 22<sup>mm</sup>.
- Froggatt, Walter Wilson.** Economic entomology . . . Sydney, 1898.  
6 p. 25<sup>mm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication,  
no. 213)  
From Agricultural gazette of New South Wales, vol. ix, March, 1898.
- Froggatt, Walter Wilson.** Entomological notes . . . [Sydney, 1897]  
99-104 p. pl. 25<sup>mm</sup>.  
From the Agricultural gazette of New South Wales, vol. viii, Feb., 1897.
- Froggatt, Walter Wilson.** . . . Entomological notes for 1898 . . . Sydney, 1899.  
7 p. ii pl. 25<sup>mm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publica-  
tion, no. 327)  
From Agricultural gazette of N. S. Wales, vol. x, September, 1899.
- Froggatt, Walter Wilson.** . . . Entomological notes on specimens received  
during 1899. . . Sydney, 1900.  
13 p. 2 pl. 25<sup>mm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publica-  
tion, no. 405)  
From Agricultural gazette of N. S. Wales, vol. xi, August, 1900.
- Froggatt, Walter Wilson.** Entomological work and notes for 1900 . . . Sydney,  
1901.  
12 p. 2 pl. 25<sup>mm</sup>. (Miscellaneous publication, no. 487)  
From Agricultural gazette of N. S. Wales, vol. xii, July, 1901.

**Froggatt, Walter Wilson.** Forest moths that have become orchard and garden pests . . . [Sydney, 1896-97]

4 pts. 5 pl. 24 $\frac{1}{2}$ cm.

From the Agricultural gazette of New South Wales, vol. VII, p. 757-759; vol. VIII, p. 44-46, 135-137, 253-255.

**Froggatt, Walter Wilson,** Notes on insects attacking dried fruit, seeds, and other vegetable matter . . . [Sydney, 1898]

[1103]-1105 p. pl. 24 $\frac{1}{2}$ cm.

From the Agricultural gazette of New South Wales, vol. IX, 1898.

**Froggatt, Walter Wilson.** . . . Report upon insect pests found in the north-eastern district. May, 1897 . . . Sydney, 1897.

7 p. pl. 25cm. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 188)

From the Agricultural gazette of N. S. Wales, vol. VIII, October, 1897.

**Froggatt, Walter Wilson.** . . . Some garden pests . . . [Sydney] 1902.

6 p. 2 pl. 25cm. ([New South Wales. Dept. of agriculture] Miscellaneous publication, no. 611)

From Agricultural gazette of New South Wales, December, 1902.

**Fuller, Claude.** . . . Entomological notes . . . Sydney, 1896.

4 p. 25cm. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 107)

From Agricultural gazette of N. S. Wales, vol. VII, September, 1896.

**Fuller, Claude.** Insect friends and foes . . . [Sydney, 1896]

88-95 p. illus. 24 $\frac{1}{2}$ cm.

From the Agricultural gazette of New South Wales, vol. VII, 1896.

**Fuller, Claude.** Insect pests . . . [Sydney, 1896]

444-453 p. illus., II pl. 24 $\frac{1}{2}$ cm.

From the Agricultural gazette of New South Wales, vol. VII, 1896.

**Fuller, Claude.** Notes on insect friends and foes [Sydney, 1896]

398-403 p. 24 $\frac{1}{2}$ cm.

From the Agricultural gazette of New South Wales, vol. VII.

**Fyles, Thomas W.** Some of the insects that frequent the orchard and garden. Under what circumstances they increase unduly—what insects to spare—what to kill, and how to kill them—with other useful information . . . Montreal, 1879.

13 p. illus. 22cm.

Reprinted from the Fourth report of the Montreal horticultural society.

**Gimmerthal, B. A.** Beobachtungen über einige in krankhaft faulenden kartoffeln gefundene acarier und dipterenlarven. Beobachtete metamorphose einer neuen fliegenspecies und einer bereits bekannten blattwespe . . . [Riga, 1848]

13 p. pl. 22cm.

Aus d. Arb. d. Nat. ver. in Riga. bd. I. 1848.

**Girard, Maurice.** Études sur les insectes carnassiers utiles à introduire dans les jardins et à protéger contre la destruction . . . Paris, 1873.

36 p. illus. 24cm.

Extrait du Bulletin de la Société d'acclimatation, v. 19, 1872.

**Girard, Maurice.** Les végétaux importés et les insectes indigènes et réciproquement . . . [Paris] 1876.

4 p. 21 $\frac{1}{2}$ cm.

Extrait du Journal de la Société centrale d'horticulture de France, 2. série, t. IX, 1876, p. 727-730.

**Goureau, Charles.** Les insectes nuisibles à l'homme, aux animaux et à l'économie domestiques, par Ch. Goureau . . . Paris, V. Masson et fils, 1866.

258 p. 21 $\frac{1}{2}$ cm.

**Griffiths, Arthur Bower.** The diseases of crops and their remedies; a handbook of economic biology for farmers and students. By A. B. Griffiths . . . London, G. Bell & sons, 1890.

vii p., 11, 174 p. illus. 13 $\frac{1}{2}$ cm. (Half-title: Bell's agricultural series)

**Guénaux, Georges.** . . . Entomologie et parasitologie agricoles, par Georges Guénaux . . . introduction par le Dr. P. Regnard . . . Paris, J.-B. Baillière et fils, 1904. Agr 4—82

xii, 588 p. illus. 18½<sup>cm</sup>. (Encyclopédie agricole . . .)

**Guérin-Méneville, Félix Édouard.** Entomologie appliquée à l'agriculture. De la destruction des insectes nuisibles au blé et aux olives, d'après les recherches de M. Guérin-Méneville, pendant les deux missions qui lui ont été confiées en 1845 et 1846, l'une par M. le ministre de l'agriculture et du commerce, et l'autre par la Société royale et centrale d'agriculture de Paris. [Marseille, Typographie Barlatier-Feissat et Demonchy, 1847?]

12—39 p. 22<sup>cm</sup>.

Extrait des Annales provençales d'agriculture.

**Guérin-Méneville, Félix Édouard.** Rapport fait à la Société royale et centrale d'agriculture, sur le concours ouvert pour la découverte et la mise en pratique de moyens propres à détruire les insectes nuisibles aux forêts, aux grandes cultures, aux jardins fruitiers, potagers et fleuristes; commissaires, MM. Vilmorin, Héricart de Thury, Huzard, de Gasparin Mérat, Dutrochet, et Guérin-Méneville, rapporteur, Paris, 1846.

15 p. 23<sup>cm</sup>.

Extrait des Mémoires de la Société royale et centrale d'agriculture.—Séance publique du 8 avril.—année 1846.

**Henschel, Gustav A. O.** Die insecten-schädlinge in ackerland und küchergarten, ihre lebensweise und bekämpfung, von Gustav Henschel . . . Leipzig und Wien, F. Deuticke, 1890. Agr 4—208

3 p. 1., 232 p., 1 l. 19<sup>cm</sup>.

**Henschel, Gustav A. O.** Die schädlichen, forst- und obstbaum-insekten, ihre lebensweise und bekämpfung. Praktisches handbuch für forstwirthe und gärtner von Gustav A. O. Henschel . . . 3. neubearb. aufl. Berlin, P. Parey, 1895.

xii, 758 p. illus. 22½<sup>cm</sup>.

Agr 5—155

**Hollrung, Max.** . . . Pflanzenschutz . . . Berlin, Gedruckt in der reichsdruckerei [1893]

cover-title, 24 p. illus. 32½<sup>cm</sup>.

Sonderabdruck aus dem Amtlichen bericht über die weltausstellung in Chicago 1893.

**Holmgren, August Emil.** Om åkerns vanligaste skadeinsekter. Af Aug. Emil Holmgren. Med 61 färglagda afbildningar. (Prisbelönt af Kongl. patriotiska sällskapet) Stockholm, P. A. Norstedt & söners förlag [1873]

[4], 72, [2] p. 4 col. pl. 17<sup>cm</sup>.

**Horváth, Géza.** . . . Konyhasós es szikes területeink rovarfaunája. [Buda-pest? 1903?]

[206]—211 p. 24½<sup>cm</sup>.

From Különlenyomat az állattani közlemények II. Kötetének 5. füzetéből.

**Hungary—Magyar kir. állami rovarfajta állomás.** Jelentés az 1884—1889, években felmerült gazdasági rovarkárokról . . . Budapest, 1892.

150 p. illus., 1 pl. 23½<sup>cm</sup>. (A M. K. állami rovarfajta állomás közleményei. 1 kötet, 8. füzet)

**Kaltenbach, Johann Heinrich.** Die pflanzenfeinde aus der klasse der insekten. Ein nach pflanzenfamilien geordnetes handbuch sämtlicher auf den einheimischen pflanzen bisher beobachteten insekten zum gebrauch für entomologen, insekten-sammler, botaniker, land- und forstwirthe und gartenfreunde von J. H. Kaltenbach . . . Stuttgart, J. Hoffmann, 1874. Agr 5—91

viii, 848 p. illus. 22½<sup>cm</sup>.

**Koebele, Albert.** Studies of parasitic and predaceous insects in New Zealand, Australia, and adjacent islands. Washington, 1893.

39 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. [Report no. 51])

**Kolbe, Hermann Julius.** . . . Gartenfeinde und gartenfreunde. Die für den gartenbau schädlichen und nützlichen leberwesen. Von Prof. H. Kolbe . . . Berlin, K. Siegismund [1901]

Agr 4—3424

2 p. l., 318, [2] p. illus. 18½<sup>cm</sup>. (Gartenbau-bibliothek. Hrg. von Dr. Udo Dammer. bd. 34-36) "Litteratur": p. 298-305.

**Kollar, Vincenz.** A treatise on insects injurious to gardeners, foresters, & farmers. By Vincent Köllar . . . Tr. from the German, and illustrated by engravings, by J. and M. Loudon. With notes, by J. O. Westwood . . . London, W. Smith, 1840.

xvi, 377, [1] p. illus. 18½<sup>cm</sup>. Agr 5—166

**Koningsberger, J. C.** Eerste overzicht der schadelijke en nuttige insecten van Java, door Dr. J. C. Koningsberger. Batavia's Gravenhage, G. Kolff & co., 1898. 3 p. l., 53, [1] p. 26<sup>cm</sup>. (Mededeelingen uit 's Lands plantentuin. xxii)

**Koningsberger, J. C.** Ziekten van rijst, tabak, thee en andere cultuurgewassen, die door insecten worden veroorzaakt, door Dr. J. C. Koningsberger . . . Batavia, G. Kolff & co., 1903.

Agr 4—202

1 p. l., ii, 109 p. 5 pl. (3 col.) 25½<sup>cm</sup>. (Mededeelingen uit 's Lands plantentuin. lxi)

**Köppen, Fedor Petrovich.** Die schädlichen insekten Russlands. Von Friedrich Theodor Köppen . . . St. Petersburg, Buchdruckerei der Kaiserlichen akademie der wissenschaften, 1880.

Agr 4—3392

3 p. l., vi, 526 p., 1 l. col. pl. 24<sup>cm</sup>. (Added t-p.: Beiträge zur kenntniss des Russischen reiches und der angrenzenden länder Asiens. 2. folge . . . hrg. von G. v. Helmersen und L. v. Schrenck. bd. iii)

**Körpen, Fedor Petrovich.** Вредныя насѣкомыя. Сочинение Федора Кепена. Издание Департамента земледѣлія и сельской промышленности. Санкт-петербургъ, Типографія Императорской академіи наукъ, 1881—83.

Agr 4—488

3 v. illus. 25<sup>cm</sup>.

Injurious insects . . . Publication of the Department of agriculture and rural industries.

**Künstler, Gustav Adolf.** Beiträge zur kenntniss der der land- oder forstwirthschaft schädlichen insekten . . . [Wien, 1864]

[779]-784 p. 22½<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. xiv, 1864.

**Künstler, Gustav Adolf.** Die unseren kulturpflanzen schädlichen insekten. Mit besonderer rücksicht auf die erscheinungen, welche bei den beschädigungen durch insekten sich zeigen und das stadium der entwicklung, in welchem sie vorzugsweise schädlich sind. Für den landmann zusammengestellt von Gustav Künstler . . . Hrg. von der K. K. Zool.-bot. gesellschaft. Wien, Im selbstverlage der gesellschaft, 1871.

xxii, 96 p. 22½<sup>cm</sup>.

**Künstler, Gustav Adolf.** Zusammenstellung und erörterungen über die im laufe der jahre 1866 und 1867 eingegangenen berichte über land- und forstwirthschaftsschäden durch insecten . . . [Wien] 1867.

[913]-962 p. 22½<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, xvii, 1867.

**Lea, Arthur M.** . . . Remedies for insect & fungoid pests of the orchard and farm. By Arthur M. Lea . . . Hobart, Tasmania, J. Vail, government printer, 1902.

38 p. 21½<sup>cm</sup>.

Agr 3—558

At head of title: Department of agriculture, Tasmania.

— . . . Remedies for insect & fungus pests of the orchard and farm. (2d ed.) By Arthur M. Lea . . . Hobart, Tasmania, J. Vail, government printer, 1903.

53, [1] p. illus. 21½<sup>cm</sup>.

At head of title: Department of agriculture, Tasmania.

**Lehmann, A.** . . . Notes on entomology . . . Bangalore, 1902.

2 p. l., 8 p. 22½<sup>cm</sup>. (Department of agriculture, Mysore state. Bulletin no. 1)

**Lindemann, Karl Eduardovich.** Entomologische beitrage . . . [Москва, 1887]

13, [1] p. illus. 24<sup>cm</sup>.

“Изд. Императорскаго московскаго общества испытателей природы.”

**Lindemann, Karl Eduardovich.** Вредныя насѣкомыя Кубанской области. Исслѣдованіе К. Э. Линдемана . . . Изданіе Кубанскаго областнаго статистическаго комитета. Одесса, Типографія Л. Нитче, 1883.

288, [4] p. 22<sup>cm</sup>.

Injurious insects of the province of Kuban.

“Оттиски изъ Кубанскаго сборника, т. I . . .”

**Lunardoni, Agostino.** Gli insetti nocivi ai nostri orti, campi, frutteti e boschi, loro vita danni e modi per prevenirli per Agostino Lunardoni . . . Napoli, R. Marghieri di Gius, 1889–1901.

Agr 3—12.5

4 v. in 3. illus. 24<sup>cm</sup>. (*Added t. p.*: La scienza e la pratica dell' agricoltura esposte e coordinate. Trattato completo di agricoltura e di scienze affini per uso dei proprietari ed agricoltori italiani compilato da un' associazione di professori sotto la direzione e con la collaborazione del Cav. Dr. Paride Palmeri . . . e del Prof. Marcello Pepe . . . Vol. II.)

Publisher of v. 2–4: E. Marghieri.

Vol. 3–4 have title: Gli insetti nocivi ai nostri orti, campi, frutteti e boschi, all' uomo ed agli animali domestici, loro vita danni e modi per prevenirli .

Contains bibliographies.

CONTENTS.—v. 1. Parte generale e coleotteri. [By Agostino Lunardoni] 1889.—v. 2. Lepidotteri o farfalle. [By Agostino Lunardoni] 1894.—v. 3. Imenotteri e ditteri . . . per il Dr. Gustavo Leonardi . . . 1900.—v. 4. Neurotteri, emitteri, fispodi, ortotteri e pseudoinsetti . . . per il Dr. Gustavo Leonardi, 1901.

**Major, Joshua.** A treatise on the insects most prevalent on fruit trees and garden produce, giving an account of the different states they pass through, the depredations they commit, and recipes for their destruction, including the recipes of various authors, with remarks on their utility; also, a few hints on the causes and treatment of mildew and canker on fruit trees and cucumbers, &c., &c., &c. By Joshua Major . . . London, Longman, Rees, Orme, Brown, and Green; [etc., etc.] 1829.

Agr 4—216

xv, [1], [9]—302 p. 23<sup>1/2</sup><sup>cm</sup>.

**Marchal, Paul.** . . . L'entomologie appliquée en Europe . . . Paris, 1896.

26 p. 24<sup>cm</sup>.

From the Bulletin de la Société nationale d'acclimatation de France, 1896.

**Marchal, Paul.** . . . Sur les insectes nuisibles de Tunisie et d'Algérie. Paris [1897]

5 p. 23<sup>1/2</sup><sup>cm</sup>.

From Association française pour l'avancement des sciences . . . Congrès de Carthage, 1896.

**Matheson, Robert E.** . . . Special report on insects, fungi, and weeds injurious to farm crops. Illustrated with original drawings by Robert E. Matheson . . . Presented to both Houses of Parliament by command . . . Dublin, Printed for H. M. Stationery off., by A. Thom & co. (limited), 1890.

xiv, 29, [1] p. vii fold. pl. 25<sup>cm</sup>. (Supplement to the Agricultural statistics of Ireland for the year 1889)

**Mexico—Ministerio de fomento, colonización é industria.—Comisión de parasitología agrícola.** . . . Catalogue of collections of pests and insecticides . . . Mexico, F. P. Hoeck and company, 1901.

6 p. 24<sup>cm</sup>.

At head of title: Commission of agricultural parasitology of the Secretary for public promotion. Mexico.

**Miall, Louis Compton.** Injurious and useful insects, an introduction to the study of economic entomology, by L. C. Miall . . . London, G. Bell & sons, 1902.

viii, 256 p. illus. 18<sup>1/2</sup><sup>cm</sup>. [Bell's science series]

**Montillot, Louis.** Les insectes nuisibles . . . Histoire et législation, les forêts, les céréales et la grande culture, la vigne, le verger et le jardin fruitier, le potager, le jardin d'ornement à la maison. Paris, J.-B. Baillière et fils, 1891.

308 p. illus. 18<sup>cm</sup>. (*Half-title*: Bibliothèque des connaissances utiles)

**Murray, Andrew.** Economic entomology. By Andrew Murray, F. L. S. Aptaera. Prepared at the request of the Lords of the Committee of Council on Education, and published for them. [London] Chapman and Hall [1877] Agr 5—173-4  
1 p. l., xxiii, 433 p. illus. 20<sup>cm</sup>. (*Half-title*: South Kensington museum science handbooks)

— — — New York, Scribner, Welford and Armstrong [1877] Agr 5—173-4  
1 p. l., xxiii, 433 p. illus. 20<sup>cm</sup>. (*Half-title*: South Kensington museum science handbooks)

**Murray, Andrew.** On extirpation of injurious insects . . . [London, 1877]  
734-738 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

From the Journal of the Society of arts, vol. xxv, no. 1281.

**New South Wales—Dept. of agriculture.** Insect pest chart . . . (Prepared by Claude Fuller) . . . Sydney, 1896.

76 x 51<sup>cm</sup>.  
Broadside.

**Notes** for observations of injurious insects. London, 1877.  
7 p. illus. 24<sup>cm</sup>.

**Nowicki, Maximilian.** Beobachtungen über der landwirthschaft schädliche thiere in Galizien im jahre 1873 . . . [Wien] 1874.  
[355]—376 p. 23<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanische gesellschaft in Wien, vol. xxiv.

**Ormerod, Eleanor Anne.** Insect prevention. I. [London, 1884]  
276-281 p. 23<sup>cm</sup>.

A lecture delivered at the Royal agricultural college, Cirencester.  
From Forestry, Feb., 1884.

**Ormerod, Eleanor Anne.** A lecture on injurious insects, delivered at the Royal agricultural college, Cirencester . . . London, 1882.  
23 p. illus. 18 $\frac{1}{4}$ <sup>cm</sup>.

**Ormerod, Eleanor Anne.** A manual of injurious insects with methods of prevention and remedy for their attacks to food crops, forest trees, and fruit. To which is appended a short introduction to entomology. Comp. by Eleanor A. Ormerod . . . 2d ed. London, Simpkin, Marshall, Hamilton, Kent & co., limited, 1890.  
xiv p., 1 l., 410 p. front. (port.) illus. 22 $\frac{1}{4}$ <sup>cm</sup>.

**Ormerod, Eleanor Anne.** Miss Ormerod on injurious insects. A paper read at a meeting of the Richmond athenæum, on March 27th, 1882, with addresses by Sir Joseph Hooker, C. B., &c., &c. Richmond [1882]  
15 p. 18<sup>cm</sup>.  
Reprinted from the Richmond and Twickenham times of April 1st.

**Ormerod, Eleanor Anne.** On methods of prevention of insect-injury . . . London, 1884.  
8 p. 22<sup>cm</sup>.  
From the 'Transactions of the Hertfordshire natural history society,' vol. II, pt. 1, August, 1882.

**Ormerod, Eleanor Anne.** A text-book of agricultural entomology; being a guide to methods of insect life and means of prevention of insect ravage. For the use of agriculturists and agricultural students. By Eleanor A. Ormerod . . . 2d ed. London, Simpkin, Marshall, Hamilton, Kent & co., limited, 1892.  
xvi, 238 p. illus. 19<sup>cm</sup>.

**Panton, James Hoyes.** Insect foes and how to destroy them. Economic entomology. By J. Hoyes Panton . . . London, Ont., London printing & lithographing co., 1895.  
2 p. l., iii, 85 p. 17 $\frac{1}{2}$ <sup>cm</sup>.

**Porchinskii, Iosif Aloizievich.** О вредных насѣкомыхъ южной Россіи. Изъ отчета, представленнаго Департаменту земледѣлія и сельской промышленности секретаремъ энтомологическаго общества, І. Порчинскимъ. С.-Петербургъ, Тип. В. О. Демакова, 1879.  
68 p., 1 l. 25<sup>cm</sup>.

Agr 4—491

Injurious insects of southern Russia; from the report presented to the Department of agriculture and rural industries by the secretary of the Entomological society.

**Reh, Ludwig.** Schädigung der landwirthschaft durch thierfrass im jahre 1898 . . . [Berlin] 1899.

[561]—566 p. 33<sup>em</sup>.

From Naturwissenschaftliche wochenschrift, xiv. bd., nr. 48.

**Rendu, Victor.** Les insectes nuisibles à l'agriculture aux jardins et aux forêts de la France, par V. Rendu . Paris, Librairie Hachette et c<sup>ie</sup>, 1876.

267 p. illus. 18½<sup>em</sup>.

**Reuter, Enzo.** Till frågan om inrättandet af en entomologisk försöksstation. [Helsingfors, 1894?]

10 p. 22<sup>em</sup>.

Öfvertryck ur Biet.

**Reuter, Odo Morannal.** . . Ängsmasken, II. Berättelse öfver en på K. Finska hushållningssällskapets bekostnad sommaren 1892 företagen resa i och för studium af ängsmasken och de naturenlige medlen till dess utrotande, af O. M. Reuter. Åbo, Åbo tidnings tryckeri-aktiebolag, 1893.

28 p. 21½<sup>em</sup>.

At head of title: K. Finska hushållningssällskapet.

**Russia**—*Departament zemledělvia i sel'skoj promyshlennosti.* Хлѣбный жукъ (Anisoplia austriaca) и другія вредныя насѣкомыя: Хлѣбный пилильщикъ (Cephus rugmaeus), гессенская муха (Cecidomya destructor), длинноусикъ (Dorcadion pigrum) С. Петербургъ, 1880.

Agr 4—493

1 p. l., ii, iv, 102 p., 1 l. col. pl. 24½<sup>em</sup>.

Wheat weevil (Anisoplia austriaca) and other injurious insects: Wheat-stem sawfly (Cephus rugmaeus), Hessian fly (Cecidomya destructor), Dlinnousik (Dorcadion pigrum)

“Литература”: p. 83—87.

**Schilling, Heinrich, freiherr von.** Allerlei nützliche garteninsekten! Neu durchgesehener und vermehrer sonderabdruck aus dem “Praktischen ratgeber im obst- und gartenbau,” von Heinrich freiherr von Schilling . . . 2. auf. Frankfurt a. d. Oder, Druck und verlag der Königlichen hofbuchdruckerei Trowitzsch u. sohn, 1899.

Agr 4—1782

1 p. l., 35 p. illus., fold. col. pl. 22½<sup>em</sup>.

**Schmidt, Ferdinand Joseph.** Lebens- und vertilgungsweise einiger dem landwirth schädlicher insecten, nebst angabe einer neuen fang-methode für mehrere nachtschmetterlinge. Nach eigenen erfahrungen zusammengestellt von Ferd. Jos. Schmidt . . . (Bei der Akademie eingegangen den 5. september 1883 . . .) [Halle, 1835]

1 p. l., 16 p. col. pl. 29½<sup>em</sup>

Acta Acad. Cæs. Leop. Carol. nat. cur. vol. xvii. p. i.

**Schmidt-Göbel, Hermann Max.** Die schädlichen und nützlichen insecten in forst, feld und garten von med. Dr. H. M. Schmidt-Göbel . . . Vierzehn foliotafeln in farbendruck. Mit erlassen des hohen K. K. Ministeriums für cultus und unterricht vom 27. august 1881, z. 12137 und vom 6. april 1882, z. 4770 zum unterrichtsgebrauche in volks- und bürgerschulen für zulässig erklärt. Wien, Verlag von A. Pichler's witwe & sohn, 1896.

14 col. pl. 39 x 46<sup>em</sup>.

**Schøyen, Wilhelm Maribo.** . . Einige bermerkungen zu A. B. Frank: Die tierparasitären krankheiten der pflanzen. Breslau 1896 . . [Stuttgart, 1898]

3 p. 24<sup>em</sup>.

Sonderabdruck aus der “Zeitschrift für pflanzenkrankheiten.” VIII. bd., II. hft.

**Schøyen, Wilhelm Maribo.** Hvilke foranstaltninger bør hos os træffes fra det offentlige side til bekjæmpelse af kulturplanternes fiender blandt skadeinsekter og snyltesoppe? Fohedrag af konservator W. M. Schøyen i Selskabet for Norges vel den 23. februar 1894. [n. p., 1894]

18 p. 23<sup>em</sup>.

**Shimer, Henry.** Nature's method of controlling noxious insects . . . [Chicago, 1868]

[96]-110 p. 23½<sup>em</sup>.

From the Transactions of the Northern Illinois horticultural society, vol. I.

**Smirenskiĭ, Andronik Ivan.** . . . Ueber schädliche Insekten der Umgebung von Kazan . . . Казань, 1891.

18 p. 24<sup>em</sup>.

(Труды Общества естествоиспытателей при Императорскомъ Казанскомъ университетѣ. Томъ XXIII. Выпускъ 4)

Added title and text in Russian.

**Somerville, William.** Farm and garden insects, by William Somerville . . . London, New York, Macmillan and co., limited, 1897.

viii, 127, [1] p. illus. 15½<sup>em</sup>.

**Stebbing, E. P.** A note on the casuarina insect pests of Madras, by E. P. Stebbing . . . Calcutta, Office of the superintendent of government printing, India, 1903.

Agr 5-635

cover-title, 20 p. 24½<sup>em</sup>.

**Targioni Tozzetti, Adolfo.** Considerazioni sull' annata entomologica 1889, secondo le osservazioni della R. Stazione di entomologia agraria di Firenze . . . [Modena? 1890].

19, [1] p. 25½<sup>em</sup>.

"Estratto dall' organo Le stazioni sperimentali agrarie italiane, vol. XVIII—fasc. II."

**Targioni Tozzetti, Adolfo.** Cronaca entomologica dell' anno 1887 e dei mesi di gennaio e febbraio 1888 . . . Roma, 1888.

16 p. 24<sup>em</sup>.

Estratto dal giornale: Le stazioni sperimentali agrarie italiane, vol. XIV—fasc. I.

For Cronaca for Dec. 16, 1889-Feb. 28, 1890, see his Considerazioni sull' annata entomologica 1889. For Cronaca for Apr.-Sept. 1892, see his Riviste sintetiche.

**Targioni Tozzetti, Adolfo.** Di alcuni rapporti delle coltivazioni cogli insetti e di due casi di infezioni del nocciolo e dell' olivo per cagione di insetti . . . Firenze, 1885.

38 p. 2 pl. 23½<sup>em</sup>.

From Atti della Reale accademia economico-agraria dei georgofili di Firenze, 4. ser., vol. VIII, p. 116-148.

**Targioni Tozzetti, Adolfo.** . . . Nota sopra alcuni parassiti del gelso e dell' olivo . . . [Firenze, 1863]

7 p. 21<sup>em</sup>.

Estrat. dagli Atti dei georgofili, nuova ser., t. X.

**Targioni Tozzetti, Adolfo.** Rivista sintetiche. Rivista di entomologia agraria. (R. Stazione di entomologia agraria di Firenze) . . . dal 1. aprile . . . [al 30 settembre 1892] [n. p., 1892]

2 nos. 24½<sup>em</sup>.

**Tarnani, Ivan Konstantinovich.** . . . Insectes nuisibles dans les vergers et dans les potagers des gouvernements de la Pologne russe et mesures à prendre pour les combattre . . . Варшава, Типографія Варшавскаго учебнаго округа, 1903.

4 p. I, IV, 138 p. illus. 26<sup>em</sup>.

Agr 5-242

(Mémoires de l'Institut agronomique et forestier à Nowo-Alexandria (gouv. Lublin) vol. XV [suppl.]

Added t.-p. and text in Russian.

**Taschenberg, Ernst Ludwig.** Die der landwirthschaft schädlichen Insekten und würmer. Von Dr. E. L. Taschenberg. Eine durch das Königlich preussische Landes-ökonomie-collegium mit dem ersten preise gekrönte schrift . . . Auch unter dem titel: "Naturgeschichte der wirbellosen thiere, die in Deutschland sowie in den provinzen Preussen und Posen den feld-, wiesen- und weide-culturpflanzen schädlich werden." Leipzig, E. Kummer, 1865.

Agr 4-233

xii, 288 p. illus., VII col. pl. 24<sup>em</sup>.

Slip pasted over imprint reads: Bremen, M. Heinsius.

"Nachweis der wichtigsten literatur, welche bei der benennung und lebensweise der thiere benutzt wurde": p. [256]-274.



**Taschenberg, Ernst Ludwig.** Die insekten nach ihrem schaden und nutzen, von Prof. Dr. E. Taschenberg . . . Leipzig, G. Freytag, 1882. Agr 3—1187  
3 p. l., 300 p. illus. 18½<sup>cm</sup>. (*Added t. p.*: Das wissen der gegenwart, deutsche universal-bibliothek für gebildete. iv. bd.)

**Theobald, Frederick Vincent.** Notes on economic zoology. [London, 1896—1903]

no. 1-8. illus., plates. 20-21½<sup>cm</sup>.

Title varies: no. [1-4], Notes on injurious insects; no. [5], Notes on insect pests, etc., for 1898 (second report); no. [6], First report on insect pests, etc., for 1899; no. [7], Notes on economic entomology.

From the Journal of the South-eastern agricultural college, Wye, Kent. no. 4-9, 11-12; Oct. 1896-Apr. 1900, Feb. 1902-Mar. 1903.

**Theobald, Frederick Vincent.** Notes upon insect pests in 1894, with especial reference to insects attacking the walnut . . . Warrington, 1895.

pt. 1. v pl. 22<sup>cm</sup>.

**Thompson, Edward H.** . . . A handbook to the insect pests of farm and orchard: their life history and methods of prevention . . . By Edward H. Thompson. Launceston, Printed at the "Examiner" and "Tasmanian" office, 1892-95.

2 pts. illus., ix pl. 18<sup>cm</sup>. (pt. II, 21<sup>cm</sup>.) (Department of agriculture, Tasmania, Bulletin no. 1, 6)

Pt. II has title: . . . Insect and fungus pests of the field, farm, and garden: part II. of "A handbook to the insect pests of farm and orchard." By Edward H. Thompson . . . ed. by F. W. J. Moore . . . Imprint of pt. II: Hobart, Printed for the Council of agriculture by Davies brothers, limited, 1895.

**Tryon, Henry.** . . . Report on insect and fungus pests no. 1; by Henry Tryon . . . Brisbane, J. C. Beal, government printer, 1889. Agr 2—147

ix, 238 p. 4 pl. 22<sup>cm</sup>.

At head of title: Department of agriculture. Queensland.

**Villa, Antonio.** Degli insetti carnivori adoperati a distruggere le specie dannose all' agricoltura; memoria entomologico-agraria . . . Milano, 1845.

35 p. col. pl. 25<sup>cm</sup>.

Estratto dallo Spettatore, vol. III, nùm. 19.

**Westwood, John Obadiah.** A series of articles on the insects most injurious to cultivators . . . [London, 1837-39]

no. 4-15. illus. 22½<sup>cm</sup>.

From the Gardener's magazine, vol. XIII-XV.

CONTENTS.—no. 4. The onion fly.—no. 5. Wheat flies.—no. 6. The asparagus beetle.—no. 7. Rose moths.—no. 8. The small ermine moth.—no. 9. The slimy grub of the pear and other fruit trees.—no. 10. The caterpillar of the apricot bud.—no. 11. The wire-worm.—no. 12. The apple, or codling, moth.—no. 13. The elm-destroying Scolytus.—no. 14. Apple insects.—no. 15. Celery and chrysanthemum leaf-miners.

[**Whitehead, Charles**] . . . Annual report of the Intelligence department on injurious insects and fungi. 1890. London, Printed for H. M. Stationery off., by Eyre and Spottiswoode, 1891.

Agr 4—42

v, 81 p. illus. 24½<sup>cm</sup>.

Signed: Charles Whitehead.

At head of title: Board of agriculture.

[**Whitehead, Charles**] First annual report of the Agricultural adviser to the Lords of the Committee of council for agriculture. 1887. (Insects and fungi injurious to the crops of the farm, the orchard, and the garden) Presented to both Houses of Parliament by command . . . London, Printed for H. M. Stationery off., by Eyre & Spottiswoode, 1888.

Agr 4—39

42 p. illus. 24½<sup>cm</sup>.

Introduction signed: Charles Whitehead.

[**Whitehead, Charles**] Second annual report of the Agricultural adviser to the Lords of the Committee of council for agriculture. 1888. (Insects and fungi injurious to the crops of the farm, the orchard, and the garden) Presented to both Houses of Parliament by command . . . London, Printed for H. M. Stationery off., by Eyre and Spottiswoode, 1888.

Agr 4—40

53 p. illus. 24½<sup>cm</sup>.

Introduction signed: Charles Whitehead.

**Whitehead, Charles.** . . . Third annual report on insects and fungi injurious to the crops of the farm, the orchard, and the garden, by Charles Whitehead . . . 1889. Presented to both Houses of Parliament by command . . . London, Printed for H. M. Stationery off., by Eyre and Spottiswoode, 1890. Agr 4—41

74 p. illus. 24½<sup>cm</sup>.

At head of title: Board of agriculture.

[**Whitehead, Charles**] . . . Report on insects and fungi injurious to crops. 1892. London, Printed for H. M. Stationery off., by Eyre and Spottiswoode, 1893.

60 p. x col. pl. 24½<sup>cm</sup>.

Agr 4—43

At head of title: Board of agriculture.

"The following report . . . has been prepared by Mr. Charles Whitehead."—Pref.

**Whitehead, Charles.** Reports on insects injurious to hop plants, corn crops, and fruit crops in Great Britain, prepared for the Agricultural department, Privy council office, by Charles Whitehead . . . 1885. Presented to both Houses of Parliament by command . . . London, Printed by Eyre and Spottiswoode, 1885—86.

no. 1-3. illus. 24½<sup>cm</sup>.

CONTENTS.—no. I. Insects injurious to hop plants.—no. II. Insects injurious to corn, grass, pea, bean, and clover crops.—no. III. Insects injurious to fruit crops.

**Whitehead, Charles.** Reports on insects injurious to root and certain other crops in Great Britain, prepared for the Agricultural department, Privy council office, by Charles Whitehead . . . Presented to both Houses of Parliament by command . . . London, Printed for H. M. Stationery off., by Eyre and Spottiswoode, 1897.

Agr 4—44

86 p., 1 l. illus. 24½<sup>cm</sup>.

**Zehntner, Leo.** De bestrijding der boorders, door Dr. L. Zehntner. Soerabaia, H. van Ingen, 1896.

cover-title, 6 p. 26½<sup>cm</sup>.

At head of title: Congres van het algemeen syndicaat van suikerfabrikanten op Java.

## INSECTICIDES.

**Baxter, E. J.** Some remarks on spraying . . . [Jefferson City, 1901]

276-280 p. 23<sup>cm</sup>.

From the 43d annual report of the Missouri state horticultural society, 1900.

**Berlese, Antonio.** . . . Insetticidi ed insettifughi contro alcuni insetti e specialmente contro la *Cochylis ambiguella*, il *Dacus oleae* e la *Carpocapsa pomonana* . . . Avellino, 1895.

24 p. 23½<sup>cm</sup>.

Estratto dalla Rivista di patologia vegetale, anno III.—n. 5-12.

**Breed, Daniel.** Recent inventions for insect destruction. (U. S. Agriculture, Commissioner of. Report for the year 1876. Washington, 1877. p. 323-325. illus.)

**Chittenden, Frank Hurlbut.** Remedies for insect pests in vegetable and flower gardens and conservatories . . . [Philadelphia, W. A. Burpee & co., 1901]

[4] p. illus. 44 x 15½<sup>cm</sup>.

**Cook, Albert John.** Arsenical poisons as insecticides . . . [Columbus, 1889]

27-32 p. 23<sup>cm</sup>.

From the Proceedings of the tenth annual meeting of the Society for the promotion of agricultural science, held at Toronto, Canada, 1889.

**Cook, Albert John.** Experiments with insecticides . . . [Columbus] 1883.

138-140 p. 24<sup>cm</sup>.

From the 16th annual report of the Ohio state horticultural society for 1882-83.

**Eichhoff, Wilhelm Josef.** Vorschläge zur vertilgung verschiedener forst- und landwirthschaftlich schädlicher kerbthiere durch seifenwasser . . . [München] 1892.

19 p. 23½<sup>cm</sup>.

Einzelabdruck aus der "Forstlich-naturwissenschaftlichen zeitschrift." 1892, hft. 2-3.

**Fowler, Frederick Homer.** Insecticides and their application. Compiled under the direction of the secretary of the State board of agriculture, by F. H. Fowler . . . for the information and use of the agriculturists and fruit growers of the commonwealth. April, 1891. Boston, Wright & Potter printing co., state printers, 1891. 16 p. 23 $\frac{1}{2}$ cm.

**Frank, Albert Bernhard.** Über den direkten einfluss der kupfer-vitriol-kalkbrühe auf die kartoffel-pflanze . . . Von B. Frank . . . und Friedrich Krüger . . . Prenzlau, Druck von A. Mieck, 1894.

46 p. col. pl. 25cm. (Added t.-p: Arbeiten der Deutschen landwirtschafts-gesellschaft, hft. 2)

**Gastine, G.** Sur les ravages de la pyrale dans le Beaujolais et sur la destruction des papillons nocturnes au moyen de pièges lumineux alimentés par le gaz acétylène; par MM. G. Gastine et V. Vermorel . . . [Paris, 1901]

4 p. 27 $\frac{1}{2}$ cm.

From Comptes rendus . . . de l'Académie des sciences, tome 133, p. 488-491.

**Haywood, John Kerfoot.** Insecticides and fungicides; chemical composition and effectiveness of certain preparations. Washington, 1902.

16 p. 23cm. (U. S. Agriculture, Dept. of. Farmers' bulletin 146)

**Herrera, Alfonso L.** . . . La destrucción de los gusanos y otros insectos perjudiciales por medio del verde de Paris . . . [Mexico, 1904]

7 p. 26cm. (Comisión de parasitología agrícola . . . circular número 4)

**Hinds, Warren Elmer.** Carbon bisulphid as an insecticide. Washington, 1902. 28 p. 23cm. (U. S. Agriculture, Dept. of. Farmers' bulletin 145.)

Appendix contains report by E. E. Ewell on the chemistry of carbon bisulphid.

**Horváth, Géza von.** . . . A permetező készleitek a kertészet szolgálatában . . . Budapest, 1890.

18 p. illus. 23 $\frac{1}{2}$ cm. (A M. K. Állami rovtartani állomás közleményei. 1. kötet, 1. füzet)

**Horváth, Géza von.** . . . Védekezés a kártékony rovarok eelen . . . Budapest, 1873.

23 p. illus. 23cm. (A M. Kir. Állami rovtartani állomás közleményei. 1. kötet, 9. füzet)

**Howard, Leland Ossian.** Hydrocyanic-acid gas against household insects. Washington, 1902.

4 p. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 46)

**Howard, Leland Ossian.** Use of steam apparatus for spraying. (U. S. Agriculture, Dept. of. Yearbook, 1896. Washington, 1897. pp. 69-88. illus., 2 pl.)

**Johnson, Willis Grant.** Fumigation methods; a practical treatise for farmers, fruit growers, nurserymen, gardeners, florists, millers, grain dealers, transportation companies, college and experiment station workers, etc. By Willis G. Johnson . . . New York, O. Judd company, 1902. 2-8330

xvi, 313 p. front. (port.). illus. 19cm.

**Johnson, Willis Grant.** Recent results with hydrocyanic-acid gas for the destruction of insects in large buildings. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 99. Washington, 1901. p. 166-170)

**Joly, Charles.** . . . Note sur le concours international tenu à Florence, relativement aux appareils à projeter les insecticides . . . [Paris] 1887.

4 p. 21 $\frac{1}{2}$ cm.

Extrait du Journal de la Société nationale d'horticulture de France, n° de février 1887, p. 101-105.

**Joly, Charles.** Rapport . . . sur le Thanatophore de M. Martre . . . Paris, 1886.

1 p. l., 4 p. 21 $\frac{1}{2}$ cm.

Extrait du Journal de la Société nationale d'horticulture de mars 1886.

**Kiser, J. J.** Dust spray . . . [Jefferson City, 1901?]

280-287 p. 23cm.

From the 43d annual report of the Missouri State horticultural society, 1900.

**Krüger, Friedrich.** Erfahrungen über die verwendbarkeit des petroleums als insecticid . . . [Berlin] 1896.

8 p. illus. 25<sup>cm</sup>.

Sonderabdruck aus "Gartenflora" 1896, s. 99 und 125.

**Lefroy, H. Maxwell.** . . . The general treatment of insect pests . . . [n. p., "Agricultural reporter" printing office] 1901.

2 p. l., 29 p. 18<sup>cm</sup>. ( . . . Imperial department of agriculture for the West Indies. Pamphlet ser., no. 5)

**Lodeman, Ernest Gustavus.** The spraying of plants, a succinct account of the history, principles and practice of the application of liquids and powders to plants for the purpose of destroying insects and fungi, by E. G. Lodeman . . . with a preface by B. T. Galloway . . . New York, London, The Macmillan company, 1899.

xvii, 399 p. incl. front. (port.) illus. 18<sup>cm</sup>. (*Half-title:* The rural science series. Ed. by L. H. Bailey)

**Manning, Jacob W.** . . . What is the best method of repelling or destroying the insect enemies of fruits and fruit trees, especially the codling moth? Is trapping a proved success? What are the results of experiments with Paris green, or any other poisonous application? . . . [Boston, 1883]

10-16 p. 22½<sup>cm</sup>.

From the Transactions of the Massachusetts horticultural society . . . 1883.

**Marlatt, Charles Lester.** Important insecticides: directions for their preparation and use. Washington, 1894.

20 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 19)

— — — [Ed. 2] rev. Washington, 1895.

23 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 19)

— — — [Ed. 3] rev. Washington, 1897.

32 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 19)

— — — [Ed. 4] rev. Washington, 1898.

32 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 19)

— — — Washington, 1901.

42 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 127)

Revision of Farmers' bulletin no. 19.

**Marlatt, Charles Lester.** Lime, sulphur, and salt wash. Washington, 1903.

8 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Circular, ser. 2, no. 52)

**Mohr, Carl.** Die insektengifte und pilztötenden heilmittel. Eine anleitung zur herstellung und zum gebrauch derselben für landwirte, gärtner, baumzüchter, blumenfreunde, winzer und forstmänner, von Carl Mohr . . . Stuttgart, E. Ulmer, 1893.

Agr 4—1771

viii, 118 p. illus. 18½<sup>cm</sup>.

**Mokrzhet skiĭ, Sigismund A.** . . . Über die anwendung des chlorbaryum gegen schädliche insekten in gärten und auf feldern . . . [Stuttgart, 1904]

2 p. 24<sup>cm</sup>.

Sonderabdruck aus der "Zeitschrift für pflanzenkrankheiten," XIII. bd., 4, hft.

**National convention for the suppression of insect pests and plant diseases by legislation.** Proceedings of the National convention . . . held at Washington, D. C., March 5 and 6, 1897. Ed. by B. T. Galloway, Washington, 1897.

31 pp. 8°. (U. S. Agriculture, Dept. of. [Report no. 57])

**Ormerod, Eleanor Anne.** Paris-green (or emerald-green) its uses, and methods for its application, as a means of destruction of orchard moth caterpillars. [London, 1891]

8 p. 21½<sup>cm</sup>.

**Reinlein, Fred.** The use of the gasoline torch in fighting insects and fungi . . . Mount Vernon, Ill., 1901.

24 p. illus. 19½<sup>cm</sup>.

**Riley, Charles Valentine.** The kerosene emulsion: its origin, nature, and increasing usefulness . . . [Syracuse, 1892?]

[88]-98 p. 22<sup>em</sup>.

Printed from the Proceedings of the Washington meeting of the Society for the promotion of agricultural science, held at Washington, August 17, 1891.

**Schøyen, Wilhelm Maribo.** Forsøg med. "fostite," anstillet paa Bygdø kongsgaard. Af statensentomolog W. M. Schøyen. [n. p., 189-]

3 p. 23<sup>em</sup>.

**Schøyen, Wilhelm Maribo.** Insekt- og sopfordrivende midler; veiledning til deres anvendelse i land- og havebruget af W. M. Schøyen . . . Kristiania, Grøn-dahl & søns forlag, 1896. Agr 3-206

16 p. 18<sup>em</sup>.

**Schøyen, Wilhelm Maribo.** Om anvendelsen af insekt- og sopfordrivende midler i havebruget . . . af W. M. Schøyen. [n. p., 1893]

19 p. illus. 22<sup>4</sup><sup>em</sup>.

Foredrag i "Havedyrkningens venners" general-forsamling 24. oktober 1893.

**Schøyen, Wilhelm Maribo.** . . . Über petroleum-emulsion. . . . [Stuttgart, 1896]

[150]-151 p. 24<sup>em</sup>.

Sonderabdruck aus der "Zeitschrift für pflanzenkrankheiten." vi. bd., 3. hft.

**Slingerland, Mark Vernon.** The Cornell mixture . . . New York, 1893.

105-106 p. 30<sup>em</sup>.

From Science, vol. xxii., no. 551, August 25, 1893.

**Stedman, John Moore.** A treatise on spraying, with description of insects attacking apple, peach and strawberry, and treatment recommended for holding them in check. Formulæ for spraying mixtures. By J. M. Stedman . . . St. Joseph, Missouri, The Fruit-grower company, 1905. 5-11342

123 p. illus. 14<sup>1</sup><sup>em</sup>. (On cover: "Brother Jonathan series,"—no. 2)

**Stinson, J. T.** Spraying . . . [Jefferson City, 1901]

273-276 p. 23<sup>em</sup>.

From the 43d annual report of the Missouri state horticultural society, 1900.

**Sweet, John.** . . . On the destruction of caterpillars on fruit trees . . . [London, 1824]

76-78 p. 23<sup>1</sup><sup>em</sup>.

From the Transactions of the Horticultural society of London, vol. v, 1824.

**Taylor, Thomas.** Naphthaline as an insecticide, etc. Its effects on seeds, plants, insects, and other animals. By Dr. Thomas Taylor . . . Read at the fifty-fourth regular meeting of the Biological society of Washington, December 28th, 1883, held in the U. S. national museum. [n. p., 1884?]

6 p. 23<sup>1</sup><sup>em</sup>.

**Theobald, Frederick Vincent.** Tabulated list of orchard "insect pests" affected by spraying, with date of appearance of egg, larva, &c., and the advisable washes and time for application. By F. V. Theobald . . . London and Ashford, Headley brothers [1899]

19 p. 21<sup>em</sup>.

**Townsend, Charles Henry Tyler.** . . . Insecticides. [Las Cruces, N. M., 1892]

1 l. 36<sup>em</sup>.

From the Rio Grande republican, Las Cruces, N. M., May 27, 1892.

**United States—Dept. of agriculture.** Methods for controlling injurious insects; preparation and use of insecticides. (*Its Yearbook*, 1894, p. 572-576; 1895, p. 580-586; 1896, p. 617-623; 1897, p. 635-640; 1898, p. 657-662. Washington, 1895-99)

**United States**—*Dept. of agriculture*. Spraying fruits for insect pests and fungous diseases, with a special consideration of the subject in its relation to the public health. Washington, 1892.

20 p. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 7)

**United States**—*Dept. of agriculture—Division, of entomology*. Condensed information concerning some of the more important insecticides. Washington, 1891.

7 p. 23<sup>em</sup>. (*Its Circular*, ser. 2, no. 1)

**United States**—*Dept. of agriculture—Division of entomology*. Reports of experiments, chiefly with kerosene, upon the insects injuriously affecting the orange tree and the cotton plant, made under the direction of the entomologist. Washington, 1883.

62 p. 83<sup>em</sup>. (*Its Bulletin* 1)

**United States**—*Dept. of agriculture—Division of entomology*. Reports of experiments with various insecticide substances, chiefly upon insects affecting garden crops. Washington, 1886.

34 p. 23<sup>em</sup>. (*Its Bulletin* 11)

**United States**—*Patent office*. Persian insect powder. (U. S. Patent office. Report of the Commissioner of patents for the year 1857. Agriculture. Washington, 1858. p. 129-130)

**Vermorel, Victor**. . . . Note sur la destruction des vers blancs (*Melolontha vulgaris*) par sulfure de carbone, présentée au Congrès viticole de Mâcon, par V. Vermorel . . . Montpellier, Coulet; [etc., etc.] 1887.

10 p. 26 $\frac{1}{2}$ <sup>em</sup>. (Bibliothèque du Progrès agricole et viticole)

**Vermorel, Victor**. Les pièges lumineux et la destruction des insectes nuisibles, par V. Vermorel . . . Villefranche (Rhône), Aux bureaux du "Progrès agricole et viticole," 1902.

64 p. illus. 21 $\frac{1}{4}$ <sup>em</sup>. (Bibliothèque du Progrès agricole et viticole)  
"Bibliographie:" p. 61-64.

**Webster, Francis Marion**. Parasites and insecticides. *See under* Parasitic insects, p. 81.

**Webster, Francis Marion**. The use of arsenate of lead as against the codling moth . . . [Syracuse] 1903.

[69]-71 p. 23<sup>em</sup>.

From Proceedings twenty-fourth annual meeting of Society for promotion of agricultural science

**Weed, Clarence Moores**. Spraying crops, why, when, and how, by Clarence M. Weed . . . 2d (rev.) ed. New York, The O. Judd company, 1894.

130 p. front., illus. 15 $\frac{1}{2}$ <sup>em</sup>.

**Whitehead, Charles**. Methods of preventing and checking the attacks of insects and fungi. By Charles Whitehead . . . London, J. Murray, 1891.

cover-title, 40 p. illus. 21 $\frac{1}{4}$ <sup>em</sup>.

**Willemot, C**. On the destruction of noxious insects by means of the "Pyrethrum Willemoti" Duchartre. Tr. from the French by C. Willemot. (U. S. Patent office. Report of the Commissioner of patents for the year 1861. Agriculture. Washington, 1862. p. 223-231)

**Woods, Albert Fred**. Use of hydrocyanic acid gas for fumigating greenhouses and cold frames. Washington, 1899.

10 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 37)  
By Albert F. Woods and P. H. Dorset.

— — — Rev. ed. Washington, 1903.

10 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 37)  
By Albert F. Woods and P. H. Dorset.

## LEGISLATION.

**Felt, Ephraim Porter.** Suggestions toward greater uniformity in nursery inspection laws and rulings. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 99. Washington, 1901. p. 161–163)

**Forbes, Stephen Alfred.** Excellencies and defects of existing legislation for the control of insect and fungus pests. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 123. Washington, 1903. p. 122–126)

**France.**—*Département de la Seine-Inférieure—Laboratoire régional d'entomologie agricole, Rouen.* Tarif et règlement, approuvés par la Commission de surveillance. 4 p. 8°. [Rouen, n. d.]

**Howard, Leland Ossian.** Legislation against injurious insects; a compilation of the laws and regulations in the United States and British Columbia. Washington, 1895.

46 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 33)

**Howard, Leland Ossian.** Recent laws against injurious insects in North America, together with the laws relative to foul brood. Washington, 1898.

68 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 13)

**Howard, Leland Ossian.** Regulations of foreign governments regarding importation of American plants, trees, and fruits. Washington, 1900.

4 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 41)

**Newell, Wilmon.** I. Fumigation of nursery stock. II. Inspection laws of other states . . . Rome, Ga., 1904.

22, [1] p. illus. 23½<sup>cm</sup>. (Georgia state board of entomology. Bulletin no. 11)

**Scott, W. M.** . . . I. Legislation against crop pests. II. Dangerous pests prescribed by the Board, with remedial suggestions. By W. M. Scott. Atlanta, Ga., Allen & Horton, book and job printers, 1899.

Agr 3—208

32 p. illus. 23<sup>cm</sup>. (Georgia state board of entomology. Bulletin no. 1, April, 1899)

**Viret, Georges.** Législation et jurisprudence concernant les insectes utiles et nuisibles à l'agriculture et les oiseaux insectivores, par Georges Viret . . . avec une préface de M. C. Jouffrault . . . Paris [etc.] Berger-Levrault et c<sup>ie</sup>, 1896.

vii, 265 p. 22<sup>cm</sup>.

Agr 4—3400

## PARASITIC INSECTS.

**Beneden, Pierre Joseph van.** Die schmarotzer des thierreichs. Von P. J. van Beneden . . . Autorisirte ausgabe. Leipzig, F. A. Brockhaus, 1876. Agr 3—1056

3 p. l., 274 p. illus. 19½<sup>cm</sup>. (*Half title:* Internationale wissenschaftliche bibliothek. xviii. bd.)

**Brauer, Friedrich.** Ueber einige schmarotzende und parasitische insecten. Ein vortrag gehalten im Vereine zur verbreitung naturwissenschaftlicher kenntnisse in Wien am 21. februar 1883 von Prof. Dr. Friedrich Brauer . . . Wien, Selbstverlag des Vereines zur verbreitung naturwissenschaftlicher kenntnisse, 1883.

16 p. illus. 18½<sup>cm</sup>.

**California—State board of horticulture.** Report on the importation of parasites and predaceous insects . . . in accordance with an act of the legislature, approved March 31, 1891. Sacramento, 1892.

15 p. col. front. 23<sup>cm</sup>.

"Expert's trip to foreign countries. New species introduced: by Albert Koebele;" p. 7–12.

"Report on condition of newly introduced species in California, by Alexander Craw;" p. 13–15.

**Cutting, Hiram Adolphus.** Parasitic insects of domestic animals, and their destruction . . . [Montpelier, 1874]

[425]—439 p. 22<sup>cm</sup>.

From the Second biennial report of the Vermont state board of agriculture, manufactures and mining. 1873–74.

**Dubreuilh, William Auguste.** . . Les parasites animaux de la peau humaine par W. Dubreuilh et L. Beille . . . Paris, Masson et cie. [etc.] [1896]  
185, [1] p. illus. 18½<sup>em</sup>. (Encyclopédie scientifique des aide-mémoire pub. sous la direction de M. Léauté . . .)

"Bibliographie:" p. [179]-182.

**Giebel, Christian Gottfried Andreas.** Insecta epizoa. Die auf säugethieren und vögeln schmarotzenden insecten nach Chr. L. Nitzsch's nachlass, bearb. von Prof. Dr. C. G. Giebel . . . Mit xx tafeln nach Chr. L. Nitzsch's handzeichnungen. Leipzig, O. Wigand, 1874. Agr 3-1252

xiv p., 1 l., 308 p. xx pl. (XVIII col.) 41½<sup>em</sup>.

**Giglioli, Enrico Hillyer.** On some parasitical insects from China . . . [London, 1864?]

18-26 p. pl. 21½<sup>em</sup>.

From the Quarterly journal of microscopical science. iv n. s. 1864.

**Great Britain—Board of agriculture.** . . External parasites of poultry. [London, 1899]

8 p. illus. 21½<sup>em</sup>. (Its Leaflet no. 57)

**Hagen, Hermann August.** . . On larvæ of insects discharged through the urethra . . . [Boston] 1878.

[107]-118 p. 23<sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. xx, November 27, 1878.

**Heller, Arnold.** Die schmarotzer mit besonderer berücksichtigung der für den menschen wichtigen. Von Dr. Arnold Heller . . . München und Leipzig, R. Oldenbourg, 1880.

xvi, 248 p. illus., map. 18<sup>em</sup>.

"Literatur:" p. [xv]-xvi.

Advertisements: p. [231]-248.

**Howard, Leland Ossian.** Study in insect parasitism; a consideration of the parasites of the white-marked tussock moth, with an account of their habits and interrelations, and with descriptions of new species. Washington, 1897.

57 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 5)

**Küchenmeister, Friedrich, i. e., Gottlob Friedrich Heinrich.** Die in und an dem körper des lebenden menschen vorkommenden parasiten. Ein lehr- und handbuch der diagnose und behandlung der thierischen und pflanzlichen parasiten des menschen. Zum gebrauch für studirende der medicin und der naturwissenschaften, für lehrer der zoologie, botanik, physiologie, pathologischen anatomie und für praktische ärzte, bearb. von Friedrich Küchenmeister . . . Leipzig, B. G. Teubner, 1855.

2 pts. in i v. illus., 14 pl. (partly col.) 22<sup>em</sup>.

**Mégnin, Pierre, i. e., Jean Pierre.** Les parasites et les maladies parasitaires chez l'homme, les animaux domestiques et les animaux sauvages avec lesquels ils peuvent être en contact. Par P. Mégnin . . . Insectes, arachnides, crustacés. Avec 63 figures dans le texte et un atlas de 26 planches dessinées par l'auteur. Paris, G. Masson, 1880.

3 p. l., 478 p. illus. and atlas of 26 l., 26 pl. 22<sup>em</sup>.

**Osborn, Herbert.** Insects affecting domestic animals: an account of the species of importance in North America, with mention of related forms occurring on other animals. Washington, 1896.

302 p. illus., 5 pl. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 5)

Literature: pp. 288-293.

**Riley, Charles Valentine.** Parasitic and predaceous insects . . . [New York, 1894]

678-685 p. 23½<sup>em</sup>.

From the Popular science monthly, vol. XLV, no. 5.



**Riley, Charles Valentine.** Sur l'importation artificielle des parasites et ennemis naturels des insectes nuisibles aux végétaux . . . Paris, 1889.

4 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

Extrait du Compte-rendu des séances du Congrès international de zoologie, Paris, 1889, p. 323-326.

**Smith, John Bernhard.** Insect parasites of animals . . . I. New York, 1894.

[69]-70 p. illus. 30<sup>cm</sup>.

From Popular science news and Boston journal of chemistry, vol. xxviii, no. 5, May, 1894.

**Summa, Hugo.** The pseudo-parasitism of Diptera in man or myiosis . . . [St. Louis, 1889]

16 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.

"First published in the April, May, and June, 1889, numbers of the St. Louis medical and surgical journal."

**Webster, Francis Marion.** Insect parasites . . . Columbus, 1891.

15 p. illus. 23 $\frac{1}{2}$ <sup>cm</sup>.

From the Journal of the Columbus horticultural society, vol. vi, 1891.

**Webster, Francis Marion.** Parasites and insecticides . . . [Indianapolis] 1887.

10 p. 22<sup>cm</sup>.

From Transactions of the Indiana horticultural society, 17th annual meeting, 1887.

### INSECTS AFFECTING SPECIAL CROPS.

**Allen, W. J.** Insect and fungus diseases of fruit-trees and their remedies. By Messrs. Allen, Blunno, Froggatt, and Guthrie. [Sydney, 1898]

pt. 1-4. illus., 10 pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

From the Agricultural gazette of New South Wales. vol. ix, p. 1028-1043, 1216-1221, 1426-1430.

**Ashmead, William Harris.** Orange insects; a treatise on the injurious and beneficial insects found on the orange trees of Florida. By William H. Ashmead . . . Jacksonville, Fla., Ashmead bros., 1880.

xv, 78 p. illus., iv pl. 22 $\frac{1}{2}$ <sup>cm</sup>.

**Banks, Charles S.** . . . Preliminary bulletin on insects of the cacao. Prepared especially for the benefit of farmers. By Charles S. Banks. Manila, Bureau of public printing, 1904.

58 p. col. front., plates. 23<sup>cm</sup>. ([Philippine Islands] Dept. of the interior. Bur. of government laboratories. [Publication] no 11)

Frontispiece accompanied by leaf of descriptive text.

**Barber, Charles Alfred.** . . . The diseases of canes . . . [St. John's, Antigua, W. I.] 1894.

114-122 p. 28<sup>cm</sup>. (Supplement to the Leeward Islands gazette, Jan. 25, 1894.)

**Benson, Albert H.** Some fruit pests . . . [Sydney, 1895]

249-257 p. illus. 25<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. vi, 1895.

**Blandford, Walter Fielding Holloway.** . . . Sugar-cane borers in the West Indies. London, 1892.

[153]-178 p. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

From the Royal gardens, Kew. Bulletin of miscellaneous information no. 67-68, July and August, 1892.

**Brocchi, Paul.** Les insectes nuisibles aux pommiers . . . Paris, 1892.

1 p. l., 15 p. col. pl. 28<sup>cm</sup>.

Extrait du Bulletin du Ministère de l'agriculture, vol. xi.

**Burgess, Albert Franklin.** . . . Some destructive grape pests in Ohio. By A. F. Burgess . . . Columbus, O., F. J. Heer, state printer, 1905.

17 p. illus. 24<sup>cm</sup>. (Ohio Department of agriculture. Division of nursery and orchard inspection. Bulletin No. 5)

**Carpenter, George Herbert.** The insect enemies of the potato. By George H. Carpenter . . . Dublin, Printed at the office of the Farmers' gazette, 1898.

cover-title, 11 p. illus. 21<sup>cm</sup>.

**Chittenden, Frank Hurlbut.** Brief account of the principal insect enemies of the sugar beet. Washington, 1903.

71 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin, new ser., 43)

**Chittenden, Frank Hurlbut.** Insects injurious to beans and peas. (U. S. Agriculture, Dept. of. Yearbook, 1898. Washington, 1899. p. 233-260. illus.)

**Chittenden, Frank Hurlbut.** Insects injurious to the basket willow. (U. S. Agriculture, Dept. of.—Forestry, Bureau of. Bulletin no. 46. Washington, 1904. p. 63-80)

**Chittenden, Frank Hurlbut.** The more important insects injurious to stored grain. (U. S. Agriculture, Dept. of. Yearbook, 1894. Washington, 1895. p. 277-294. illus.)

**Chittenden, Frank Hurlbut.** Some insects injurious to garden crops; a series of articles dealing with insects of this class. Washington, 1900.

92 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin, new ser., 23)

**Chittenden, Frank Hurlbut.** Some insects injurious to stored grain. Washington, 1896.

24 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 45)

— — — [Ed. 2] rev. Washington, 1897.

24 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 45)

**Chittenden, Frank Hurlbut.** Some insects injurious to the violet, rose, and other ornamental plants. Washington, 1901.

114 p. illus., 4 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin, new ser., 27)

**Chittenden, Frank Hurlbut.** Some insects injurious to vegetable crops. Washington, 1902.

117 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin, new ser., 33)

**Chittenden, Frank Hurlbut.** Some little-known insects affecting stored vegetable products: a collection of articles detailing certain original observations made upon insects of this class. Washington, 1897.

45 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin, new ser., 8)

**Comstock, John Henry.** Report on insects injurious to sugar cane. Washington, 1881.

11 p. illus. (U. S. Agriculture, Dept. of. Special report no. 35)

**Comstock, John Henry.** Report upon cotton insects. Washington, 1879.

511 p. illus., 3 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. [Publication])

**Cook, Albert John.** Insects injurious to grasses and clover. [New York, 1887]

369-413 p. illus. 23<sup>cm</sup>.

From Beal's Grasses of North America [v. 1]

List of insects known to attack grasses, with references to same. p. 395-399.

**Curtis, John.** Observations on the natural history and economy of various insects affecting carrots and parsnips, including plant-lice, the maggots of flies, the caterpillars of moths, &c. . . Paper XIV. London, 1848.

27 p. pl. 21<sup>cm</sup>.

From the Journal of the Royal agricultural society of England, vol. IX, pt. I.

**Curtis, John.** . . . Observations on the natural history and economy of various insects affecting the corn-crops, including a saw-fly, the Hessian fly, the wheat-midge, and the barley-midge. . . [London, 1845]

131-156 p. pl. 22½<sup>cm</sup>.

From the Journal of the Royal agricultural society of England, vol. 7, 1847.

Extracts from this article published in Report of the Commissioner of patents for the year 1849. Part II. Agriculture. Washington, 1850. p. 333-337.

**Curtis, John.** . . Observations on the natural history and economy of various insects affecting the corn-crops, many of them improperly called wireworms; including ground-beetles, chaffers, or may-bugs, also the caterpillars of a moth and saw-fly, and the larvæ of some minute flies . . . Paper VII. [London, 1845]

469-506 p. 2 pl. 22 $\frac{1}{2}$ cm.

From the Journal of the Royal agricultural society of England, vol. v, p. 469-506.

**Curtis, John.** . . . Observations on the natural history and economy of the insects affecting the peas and beans, including weevils, maggots, bees, plant-lice, grain-beetles, moths, and the mole-cricket . . . [London, 1845]

404-443 p. 2 pl. 22 $\frac{1}{2}$ cm.

From the Journal of the Royal agricultural society of England, vol. 7, 1847.

Extracts from this article published in Report of the Commissioner of patents for the year 1849. Part II. Agriculture. Washington, 1850. p. 339-342.

**Curtis, John.** Observations on the natural history and economy of various insects, snails, slugs, &c., affecting the clover-crops and pasture-lands . . . Paper XVI. London, 1857.

48 p. pl. 22 $\frac{1}{2}$ cm.

From the Journal of the Royal agricultural society of England, vol. XVIII, pt. I.

**Delacour, Charles.** Essai sur les insectes, qui attaquent les arbres fruitiers, par M. Ch. Delacour. Beauvais, Imp. d'A. Desjardins, 1850.

88 p. III pl. 25cm.

**Eisbein, C. J.** Die kleinen feinde des rübenbauers, ihr thun und treiben, ihre erkennung und die massregeln zu ihrer einschränkung. Im auftrage des directoriums des Vereins für die rübenzuckerindustrie im Deutschen Reiche bearb. von C. J. Eisbein . . . [Berlin] Selbstverlag des directoriums des Vereins für die rübenzucker-industrie des Deutschen Reichs (J. Kieschke) 1882.

2 p. l., 86, [2] p. illus., XVI pl. (15 col.) 18 $\frac{1}{2}$ cm.

**Forbes, Stephen Alfred.** Address on insects affecting the strawberry. An illustrated paper read before the Mississippi valley horticultural society, at New Orleans, Feb. 22, 1883, and published in full in the Transactions of the society for 1883 . . . Indianapolis, 1883.

37 p. illus. 23cm.

**Frauenfeld, Georg, ritter von.** Ueber einem zerstörer der baumwollkapseln in Egypten . . . Wien, 1867.

8 p. 22 $\frac{1}{2}$ cm.

Aus den Verhandlungen d. K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1867> besonders abgedruckt, bd. XVIII.

**Frauenfeld, Georg, ritter von.** Weitere mittheilung über den baumwollschädling Egyptens. Nach einem bericht des Herrn Ivanovich in Cairo . . . [Wien] 1868.

[417]-424 p. 23cm.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, bd. XVIII.

**Froggatt, Walter Wilson.** Fruit-tree and vine pests . . . [Sydney, 1898]

41-47 p. pl. 25cm.

From the Agricultural gazette of New South Wales, vol. IX, 1896.

**Fuller, Claude.** A serious fruit pest. The fruit-fly or peach maggot . . . [Perth] 1897.

1147-1148 p. 28 $\frac{1}{2}$ cm.

From Journal of the Bureau of agriculture of Western Australia, v. 4.

**Glover, Townend.** Insects frequenting the cotton-plant. (U. S. Patent office. Report of the Commissioner of patents for the year 1855. Washington, 1856. p. 64-115)

**Glover, Townend.** Insects frequenting the orange trees of Florida. (U. S. Patent office. Report of the Commissioner of patents for the year 1858. Agriculture. Washington, 1859. p. 256-271)

**Glover, Townend.** Insects injurious to the cotton plant in Florida. (U. S. Patent office. Report of the Commissioner of patents for the year 1858. Agriculture. Washington, 1859. p. 271-272)

**Glover, Townend.** Investigations on the insects and diseases affecting the cotton plant. (U. S. Patent office. Report of the Commissioner of patents for the year 1857. Agriculture. Washington, 1858. p. 121-129. illus.)

**Glover, Townend.** Manuscript notes from my journal. Cotton, and the principal insects, &c., frequenting or injuring the plant, in the United States. By Townend Glover. Washington, D. C., Written and etched by T. Glover, transferred to and printed from stone by J. C. Entwisle, 1878.

1 p. l., 2 l. xxii pl. 31<sup>em</sup>.

**Gt. Brit.**—*Board of agriculture.* . . . Caterpillars on fruit trees. [London, 1888] 3 p. illus. 33<sup>em</sup>. (*Its* [Leaflet] 1888 [no.] 49)

——— [London, 1889]

3 p. illus. 33<sup>em</sup>. (*Its* [Leaflet] 1889 [no.] 37)

Signed: Charles Whitehead.

**Gt. Brit.**—*Board of agriculture.* . . . Insects on fruit trees. [London, 1893] [25]-26 p. 24<sup>em</sup>. (*Its* [Leaflet] 1893 [no.] 4)

**Green, Edward Ernest.** Insects injurious to stored paddy. [Colombo] 1898. [45]-49 p. 22<sup>em</sup>. (Royal botanic gardens, Ceylon. Circular. ser. i, no. 6, June 11, 1899)

**Guercio, Giacomo del.** Animali ed insetti del tabacco in erba e del tabacco secco del Prof. Ad. Targioni Tozzetti . . . Firenze, 1892. 12 p. 23<sup>em</sup>.

Estratto dal giornale l'Agricoltura italiana, anno XVIII—fasc. 247—31 agosto, 1892.

**Guérin-Ménéville, Félix Édouard.** Note sur les acariens, les myriapodes, les insectes et les helminthes observés jusqu'ici dans les pommes de terre malades . . . [Paris, 1846?]

16 p. v-vi pl. 22<sup>em</sup>.

Extrait du Bulletin des séances de la Société royale et centrale d'agriculture.

**Guilding, Lansdown.** Insects infecting the sugar-cane [London, 1828] 143-153 p. 3 pl. 22<sup>em</sup>.

From Transactions of the London society of arts, vol. XLVI, 1828.

**Hind, H. Y.** Essay on the insects and diseases injurious to the wheat crops. By H. Y. Hind . . . To which was awarded, by the Bureau of agriculture and statistics, the first prize . . . Toronto, Printed by Lovell & Gibson, 1857. Agr 4-209 v, [2], [9]-139, [1] p. illus. 23<sup>em</sup>.

**Howard, Leland Ossian.** Insects affecting the cotton plant. Washington, 1897. 32 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 47)

"Reprinted, with revision by the author, from Bulletin 33, Office of experiment stations."

**Howard, Leland Ossian.** . . . Pests of the hop crop . . . [N. Y., etc., 1899] 113-158 p. illus. 20<sup>em</sup>.

From Myrick, Herbert. The hop.

**Howard, Leland Ossian.** Principal insects affecting the tobacco plant. Washington, 1900.

32 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 120)

**Hubbard, Henry Guernsey.** Insects affecting the orange; report on the insects affecting the culture of the orange and other plants of the citrus family, with practical suggestions for their control or extermination. Washington, 1885.

227 p. illus., 14 pl. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. [Publication])

**Jablonowski, József.** . . . A gyümölcsfák és a szőlő kártevő rovarai . . . Budapest, 1902.

83, [8] p. iv col. pl. 23<sup>em</sup>. (A. M. Kir. Földmívelésügyi minister kiadványa. 1902. 3.szám)

**Jolicœur, Henri.** Description des ravageurs de la vigne, insectes et champignons parasites représentés en couleur, avec indication des meilleurs moyens à employer pour les combattre, par le Dr. Henri Jolicœur . . . vingt planches en chromolithographie dessinées d'après nature par Mlle. Anna Bauler. Reims, F. Michaud [etc., etc.], 1894.

Agr 3—1254

[iii]–viii, 236 p., 1 l. xx col. pl. 36½<sup>em</sup>.

Each plate accompanied by leaf of description.

"Bibliographie:" p. [33], [50], [114], [155].

**Kirk, Thomas.** Fruit-blight and diseases of fruit-trees in New Zealand (Interim report on, by T. Kirk . . .) Wellington, 1885.

24 p. 34½<sup>em</sup>.

— — — Brisbane, 1886.

48 p. 21<sup>em</sup>.

Reprinted by permission of the government of New Zealand.

**Kobus, J. D.** . . . Bijdragen tot de kennis der rietvijanden, door J. D. Kobus . . . Soerabaia, H. van Ingen, 1894–97.

pt. 2, 5–7. III col. pl. 26<sup>em</sup>. (Mededeelingen Proefstation "Oost-Java," nieuwe ser. no. 8, 20, 43)

Overgedrukt uit het Archief voor de Java-suikerindustrie, 1894, afl. 7; 1896, afl. 5; 1897, afl. 6.

**Künstler, Gustav Adolf.** Ueber getreideverwüster . . . [Wien] 1864.

[407]–412 p. 23<sup>em</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. XIV.

**Lea, Arthur M.** . . . Notes on the Mediterranean fruit fly and Queensland fruit fly by Arthur M. Lea . . . Hobart, Tasmania, John Vail, government printer, 1899.

6 p. 1 pl. 25<sup>em</sup>.

At head of title: Department of agriculture, Tasmania.

**Lesne, Pierre.** Les insectes des grains. [Paris] 1896.

197–202 p. col. pl. 26½<sup>em</sup>.

From Journal d'agriculture pratique, 60. année, 1896, t. II, no 32.

**Lindemann, Karl Eduardovich.** О главнѣйшихъ насѣкомыхъ вредящихъ табаку въ Бессарабiи. Профессора К. Э. Линдемана . . . Одесса, Типографiи Л. Ниче, 1888.

1 p. l., 125, [2] p. 5 pl. 23½<sup>em</sup>.

The principal insects injurious to tobacco in Bessarabia.

**Lindemann, Karl Eduardovich.** Die schädlichsten insekten des tabak in Bessarabien . . . Moscou, 1888.

1 p. l., 67 p. 23<sup>em</sup>.

"Extrait du Bulletin de la Société impér. des naturalistes de Moscou, 1888, n° 1."

**Lintner, Joseph Albert.** . . . The insects of the clover plant . . . [Albany, 1884]

17 p. illus. 23½<sup>em</sup>.

From the Fortieth annual report of the New York state agricultural society, for 1880.

**Lucet, Émile.** Les insectes nuisibles aux rosiers sauvages & cultivés en France. Descriptions et mœurs—Dégâts—Moyens de destruction. Par Émile Lucet . . .

2. éd. rev. et augm. Paris, Librairie des sciences naturelles, P. Klincksieck, 1900.

xi, 380 p. 13 pl. 22½<sup>em</sup>.

Agr 3—921

Each plate accompanied by a guard sheet with page of descriptive text.

"Bibliographie": p. 351–358.

**Marlatt, Charles Lester.** Principal insect enemies of growing wheat. Washington, 1901.

38 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 132)

**Marlatt, Charles Lester.** Principal insect enemies of the grape. Washington, 1898.

20 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 70)

Reprinted from . . . the Yearbook of the U. S. Department of agriculture for 1895.

**Mason, James Wood.** . . . Report on some insects destructive to the castor-oil plant in the Bellary district . . . [Calcutta ? 1886]

5 p. 22<sup>cm</sup>.

Reprinted from the Agricultural and horticultural society's journal, vol. VIII, pt. I.

**Morgan, Joseph Harcourt Alexander.** Life history of the sugar-cane borer in Louisiana. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 115. Washington, 1902. p. 128-129)

**Nietner, John.** The coffee tree and its enemies; being observations on the natural history of the enemies of the coffee tree in Ceylon. By the late J. Nietner. 2d ed. rev., and in some places corr. by S. Green, Esq. Colombo, A. M. & J. Ferguson, 1880.

32 p. 21<sup>cm</sup>.

**Olliff, Arthur Sidney.** . . . Report on a visit to the Clarence River district for the purpose of ascertaining the nature and extent of insect ravages in the sugar-cane crops . . . [Sydney, 1893]

15 p. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

From Agricultural gazette of New South Wales, vol. iv, p. 373-387.

**Ormerod, Eleanor Anne.** Handbook of insects injurious to orchard and bush fruits with means of prevention and remedy. By Eleanor A. Ormerod . . . London, Simpkin, Marshall, Hamilton, Kent & co., ltd., 1898.

x, 286 p. front. (port.) illus. 22<sup>cm</sup>.

**Perkins, George Henry.** Insects injurious to the potato and apple . . . Rutland, 1876.

559-605 p. illus. 22<sup>cm</sup>.

From 3d report of the State board of agriculture [of Vermont]

**Perkins, Robert C. L.** Enemies of lantana. [Honolulu, 1903]

28-35 p. 22 $\frac{1}{2}$ <sup>cm</sup>.

From the Proceedings of the Hawaiian live stock breeders' association, 1st annual meeting, Nov. 17-18, 1902.

**Reuter, Enzo.** . . . Über die weissährigkeit der wiesengräser in Finland; ein beiträg zur kenntnis ihrer ursachen . . . Helsingfors, 1900.

viii, 136 p. 11 fold. pl. 23<sup>cm</sup>. (Acta Societatis pro fauna et flora Fennica, XIX, n: o 1)

"Litteratur-verzeichnis": p. 123-135.

**Reuter, Enzo.** . . . Weissährigkeit der getreidearten . . . Stuttgart [1902]

15 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

Sonderabdruck aus der "Zeitschrift für pflanzenkrankheiten," XII. bd., 6. heft.

**Ridley, Henry Nicholas.** Report on the destruction of coco-nut palms by beetles. Singapore, 1889.

11 p. fold. pl. 21<sup>cm</sup>.

**Riley, Charles Valentine.** Potato pests. Being an illustrated account of the Colorado potato-beetle and the other insect foes of the potato in North America. With suggestions for their repression and methods for their destruction. By Charles V. Riley . . . New York, O. Judd company [c1876]

Agr 4—224

108 p. incl. front. (map) illus. 19 $\frac{1}{2}$ <sup>cm</sup>.

**Rolfs, Peter Henry.** Orange insects and diseases. Injurious insects and diseases of the year . . . [Tallahassee] 1898.

35-38, 85-93 p. illus. 24<sup>cm</sup>.

Reprinted from the Proceedings of the 11th annual meeting of the Florida State horticultural society, 1898.

**Roth, Henry Ling.** The animal parasites of the sugar cane . . . London, 1885.

15 p. 21 $\frac{1}{2}$ <sup>cm</sup>.

Reprinted from the "Sugar cane," March and April, 1885.

— — — Addenda and index. Manchester, 1886.

4 p. 21 $\frac{1}{2}$ <sup>cm</sup>.

Reprinted from "Sugar cane," February, 1886.

**Salisbury, William.** Hints addressed to proprietors of orchards, and to growers of fruit in general, comprising observations on the present state of the apple trees, in the cider countries. Made in a tour during the last summer. Also the natural history of the *Aphis lanata* or American blight, and other insects destructive to fruit trees. By William Salisbury . . . London, Printed for Longman, Hurst, Rees, Orme, and Brown, 1816.

xviii p., 2 l., 188 p. II fold. pl. 19<sup>om</sup>.

Agr 3—203

**Saunders, William.** Insects injurious to fruits. By William Saunders . . . Philadelphia, London, J. B. Lippincott & co., 1883.

436 p. illus. 21 $\frac{1}{2}$ cm.

**Schulze, Richard.** Die schädlinge der korbweide, oder: Die der korbweide schädlichen wirbelthiere und insekten. Ihre beschreibung, frass und vertilgung, mit angebe vorbeugender mittel zur verhütung des schadens. Von R. Schulze . . . Eger, Im selbstverlage des verfassers, 1883.

Agr 4—127

ix, [1], 62 p., 2 l. 21 $\frac{1}{2}$ cm.

**Smith, John Bernhard.** Insects injurious in cranberry culture. Washington, 1903.

32 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 178)

**Smith, John Bernhard.** Report upon insects affecting the hop and the cranberry. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the year 1884. Washington, 1884. p. 393—398)

**Southwick, James M.** Insects injurious to the apple-tree: with suggestions as to their control or extermination. Prepared by James M. Southwick . . . Issued by Geo. A. Stockwell, secretary Rhode Island state board of agriculture. Providence, E. L. Freeman & sons, printers to the state, 1900.

12 p. 23 $\frac{1}{2}$ cm.

**Stefani Perez, Teodosio de.** . . . Gli animali dannosi alla vite con brevi note sul modo di preservarla dai loro danni. Palermo, Stabilimento tipografico Virzi, 1889.

29 p. 26<sup>cm</sup>.

Agr 4—3617

**Surface, Harvey Adam.** . . . Insects injurious to cucurbitaceous plants, by H. A. Surface . . . [Harrisburg] W. S. Ray, state printer, 1902.

30 p. pl. 23 $\frac{1}{2}$ cm. (Commonwealth of Pennsylvania. Department of agriculture. Bulletin no. 96)

Agr 3—602

**Targioni Tozzetti, Adolfo.** Animali ed insetti del tabacco in erba e del tabacco secco di Ad. Targioni Tozzetti . . . e per incarico della R. Direzione generale delle gabelle . . . Firenze-Roma, Tipografia dei fratelli Bencini, 1891.

lxiii, [1], 346, [1] p. illus., III pl. 24 $\frac{1}{2}$ cm.

"Indice bibliografico di scrittori, opere o articoli speciali per gli insetti del tabacco;" p. [xxxv]-xxxviii.

"Citazioni abbreviate e spiegazioni per uso dei pratici cui piaccia conoscere le opere originali;" p. [xxxix]-lx.

**Trimble, Isaac P.** A treatise on the insect enemies of fruit and fruit trees. With numerous illustrations drawn from nature, by Hochstein, under the immediate supervision of the author. By Isaac P. Trimble . . . The curculio and the apple moth. New York, W. Wood & company, 1865.

[ix]-xviii, [19]-139 p. XI pl. (9 col.) incl. col. front. 29 $\frac{1}{2}$ cm.

Agr 3—1269

**Tryon, Henry.** . . . The disease affecting the orange orchards of Wide Bay, and the insect pests prevalent therein. By Henry Tryon . . . Brisbane, E. Gregory, government printer, 1894.

17 p. 22<sup>cm</sup>. (Queensland. Dept. of agriculture, Brisbane. Bulletin no. 4. Second series. October, 1894)

Agr 2—134

**Tryon, Henry.** Fruitlet core-rot of pineapple . . . [Brisbane] 1898.

458-467 p. lxviii-lxxi pl. 24 $\frac{1}{2}$ cm.

From the Queensland agricultural journal, vol. III, pt. VI. Dec. 1898.

**United States—Congress—House—Agriculture, Committee on.** . . . Hearings before the Committee on agriculture on bills having for their object the eradication of the cotton-boll weevil and other insects and diseases injurious to cotton, and also hearings of the Hon. secretary of agriculture and chiefs of bureaus and divisions of the Department of agriculture on the estimates of appropriations for the Department of agriculture for the fiscal year ending June 30, 1905. Washington, Gov't print. off., 1904.

5-33968

1 p. l., 465 p. 23<sup>cm</sup>.

**Webster, Francis Marion.** Insects affecting fall wheat. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the year 1884. Washington, 1884. p. 383-393)

**Webster, Francis Marion.** Insects affecting fall wheat. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1885. Washington, 1885. p. 311-319)

**Webster, Francis Marion.** Insects affecting small grains and grasses. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1886. Washington, 1887. p. 573-582)

**Webster, Francis Marion.** . . . Insects affecting the corn crop . . . [Indianapolis] 1885.

36 p. incl. vi pl. illus. 22<sup>cm</sup>.

Author's edition &lt;Extract from Indiana agricultural report,&gt; 1885.

Bibliographical material with description of each insect.

**Webster, Francis Marion.** Insects affecting the smaller cereal grains . . . [n. p., n. d.]

14 p. incl. v pl. 22<sup>cm</sup>.

**Webster, Francis Marion.** Report on the season's observations, and especially upon corn insects. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p. 147-154)

**Webster, Francis Marion.** Some insects attacking the stems of growing wheat, rye, barley, and oats, with methods of prevention and suppression. Washington, 1903.

62 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 42)

**Western Australia—Bureau of agriculture.** The fruit fly, or fruit maggot. Perth, 1897.

4 p. illus. 22<sup>cm</sup>.

**Westwood, John Obadiah.** Pear insects. [London, 1850]

241-244 p. col. pl. 28<sup>cm</sup>.

From the Gardeners' magazine of botany, v. 1, 1850, p. 241-244.

**Westwood, John Obadiah.** Rose insects . . . [London, 1851]

pt. 2. illus. 28<sup>cm</sup>.

From the Gardeners' magazine of botany, v. 3, 1851, p. 274-278.

Pt. 1 appeared in the Gardeners' magazine of botany, v. 1, 1850, p. 193-195.

[**Williams, Henry T.**] How to destroy insects on house-plants, flowers, etc., in the window, the garden, the house. New York, Adams & Bishop, 1880.

99, iii p. 15<sup>cm</sup>.

**Zehntner, Leo.** . . . Levenswijze en bestrijding der boorders, door Dr. L. Zehntner . . . Soerabaia, H. van Ingen, 1896-98.

6 pts. in 3. 4 pl. (3 col.) 26<sup>cm</sup>. (Mededeelingen van het Proefstation "Oost-Java", nieuwe ser. no. 23, 25; Gecombineerde mededeeling der Proefstations Oost- en West-Java. (Voor Oost-Java) 3 ser. no. 2 . . .)

"Literatuur": [no. 1] p. [1]

Overgedrukt uit het Archief voor de Java-suikerindustrie 1896, afl. 10, 13; 1898, afl. no. 15.

CONTENTS.—I. De stengelboorder. (*Diatrea striatalis* Sn.)—II. De witte boorder (*Scirpophaga intacta* Sn.)—III. De gele boorder. (*Chilo infuscatellus* Sn.)—IV. De grauwe boorder. (*Grapholitha schistaceana* Sn.)—V. De paarsroode boorder. *Sesamia nonagrioides* Lef. var. *albiciliata* Snell.—VI. De bandongboorder.



**Zehntner, Leo.** . . . De mineerlarven van het suikerriet op Java, door Dr. L. Zehntner . . . Soerabaia, H. van Ingen, 1896-98.

4 pts. in 3. 3 col. pl. 26-26 $\frac{1}{2}$ cm. (Mededeelingen van het Proefstation Oost-Java, nieuwe ser. no. 27; 42; 3. ser. no. 4)

Pt. 1, title reads: . . . De bladboorders van het suikerriet op Java . . .

Pt. 1 and 4 overgedrukt uit het Archief voor de Java-suikerindustrie, 1896, afl. 16; 1898, afl. no. 17.

CONTENTS.—I. *Hispella wakkeri* n. sp.—II en III. *Aphanisticus Krügeri* Ritsema. *Aphanisticus consanguineus* Ritsema.—IV. *Cosmopteryx pallifasciella* Snell, nov. spec.

**Zehntner, Leo.** Over eenige insectenplagen bij de cacaocultuur op Java, door Dr. L. Zehntner. Semarang-Soerabaia, G. C. T. van Dorp & co., 1901.

cover-title, 23 p. 22 $\frac{1}{2}$ cm.

**Zehntner, Leo.** . . . De plantenluizen van het suikerriet op Java. Door Dr. L. Zehntner . . . Soerabaia, H. van Ingen, 1896-1901.

15 pts. in 8. col. plates. 25-26 $\frac{1}{2}$ cm. (Mededeelingen van het Proefstation "Oost-Java". nieuwe ser. no. 29, 36, 39; Mededeelingen van het Proefstation voor suikerriet in West-Java "Kagok" te Pekalongan no. 37-38, 49, 52-53)

Pt. 1-3, 5-15 overgedrukt uit het Archief voor de Java-suikerindustrie.

### FOREST INSECTS.

**Altum, Bernard.** Waldbeschädigungen durch thiere und gegenmittel. Von Dr. Bernard Altum . . . Berlin, J. Springer, 1889.

Agr 4-35

xvi, 285, [1] p. illus. 23 $\frac{1}{2}$ cm.

**Barth, J. B.** Om grantørken og barkbillen. Et bidrag til en kritisk vurderen af theorien om barkbillens skadelighed. Af J. B. Barth. Kristiania, Forlagt af Alb. Cammermeyr, 1880.

42 p. 20cm.

**Bechstein, Johann Matthäus.** Vollständige naturgeschichte der schädlichen forstinsekten. Ein handbuch für forstmänner, cameralisten und oekonomen. Hrsg. von Johann Matthäus Bechstein . . . und Georg Ludwig Scharfenberg . . . Leipzig, C. F. E. Richter, 1804-05.

Agr 5-249

3 v. XIII col. pl. 23 $\frac{1}{2}$ ×19 $\frac{1}{2}$ cm.

**Blandford, Walter Fielding Holloway.** Insects injurious to Coniferæ . . . London, [1892]

29 p. 21 $\frac{1}{2}$ cm.

Reprinted from the Journal of the Royal horticultural society, vol. xiv. Conifer conference report.

**Chittenden, Frank Hurlbut.** Insect enemies of the white pine. (U. S. Agriculture, Department of—Forestry, Division of. Bulletin no. 22. Washington, 1899. p. 55-61. illus.)

**Felt, Ephraim Porter.** Insects affecting forest trees . . . Albany, J. B. Lyon company, printers, 1903.

Agr 4-277

cover-title, 479-534 p. illus., 16 pl. (3 col.) 28 $\frac{1}{2}$ cm.

Reprinted from Seventh report, Forest, fish and game commission, state of New York.

**Felt, Ephraim Porter.** Insects injurious to elm trees . . . [Albany, 1902]

cover-title, 351-379 p. illus., 3 col. pl. 29 $\frac{1}{2}$ cm.

Reprinted from Fifth annual report, Fisheries, game and forest commission, state of New York.

**Felt, Ephraim Porter.** . . . Insects injurious to forest trees [Albany] 1898.

31 p. illus., 5 pl. (3 col.) 28 $\frac{1}{2}$ cm.

Extract from the Fourth annual report of the Commissioners of fisheries, game and forests of the state of New York.

**Froggatt, Walter Wilson.** . . . The entomology of the grass-trees (*Xanthorrhœa*) . . . [Sydney] 1896.

[73]-87 p. 1 pl. 21 $\frac{1}{2}$ cm.

From the Proceedings of the Linnean society of New South Wales, 1896, part 1, April 29th.

**Froggatt, Walter Wilson.** Insects of the wattle trees . . . Sydney, 1902.

[701]-720 p. III pl. 25cm.

From the Agricultural gazette of New South Wales, vol. XIII, pt. 7, July, 1902.

**Harrington, W. Hague.** "On some Coleoptera injurious to our pines" . . . [Ottawa, 1881]

28-33 p. 21 $\frac{1}{2}$ cm.

From the Transactions of the Ottawa field naturalists' club, no. 2.

**Henry, Edmond.** Atlas d'entomologie forestière, par E. Henry . . . 2. éd., rev. et augm. . . 49 planches avec texte explicatif, dont 33 reproduites d'après l'atlas du "Cours de zoologie forestière" par Auguste Mathieu . . . Paris, Nancy, Berger-Levrault & c<sup>ie</sup>, 1903. Agr 3-1078

[108] p. incl. 49 pl. (2 fold., 1 col.) 25 $\frac{1}{2}$ cm.

**Hopkins, Andrew Delmar.** Catalogue of exhibits of insect enemies of forests and forest products at the Louisiana purchase exposition, St. Louis, Mo., 1904. Washington, 1904.

56 p. 22 pl. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin no. 48)

**Hopkins, Andrew Delmar.** Insect enemies of the pine in the Black Hills forest reserve; an account of results of special investigations, with recommendations for preventing losses. Washington, 1902.

24 p. illus., 7 pl. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 32)

**Hopkins, Andrew Delmar.** Insect enemies of the redwood. (U. S. Agriculture, Dept. of—Forestry, Division of. Bulletin no. 38. Washington, 1903. p. 32-40)

**Hopkins, Andrew Delmar.** Insect enemies of the spruce in the northeast. A popular account of results of special investigations, with recommendations for preventing losses. Washington, 1901.

80 p. illus., 16 pl. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 28.)

**Hopkins, Andrew Delmar.** Insect injuries to hardwood forest trees. (U. S. Agriculture, Dept. of. Yearbook, 1903. Washington, 1904. p. 313-328. illus., pl.)

**Hopkins, Andrew Delmar.** Powder-post injury to seasoned wood products. Washington, 1903.

5 p. illus. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular 55)

**Hopkins, Andrew Delmar.** Preliminary report on the insect enemies of forests in the northwest. An account of the results gained from a reconnaissance trip made in the spring and early summer of 1899. Washington, 1899.

27 p. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 21)

**Hopkins, Andrew Delmar.** Some of the principal insect enemies of coniferous forests in the United States. (U. S. Agriculture, Dept. of. Yearbook 1902. Washington, 1903. pp. 265-282. illus., 2 pl.)

**Howard, Leland Ossian.** General work against insects which defoliate shade trees in cities and towns. Washington, 1896.

4 p. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 15)

"In advance from an article entitled: 'The shade-tree insect problem in the eastern United States,' to be published in the Yearbook of the Department for 1895."

**Howard, Leland Ossian.** Shade-tree insect problem in the eastern United States. (U. S. Agriculture, Dept. of. Yearbook, 1895. Washington, 1896. p. 361-384. illus.)

**Howard, Leland Ossian.** Three insect enemies of shade trees. Washington, 1899.

30 p. illus. 23cm. (U. S. Agriculture, Dept. of. Farmer's bulletin 99)

"Reprinted with some annotations by the author, from the Yearbook of the Department of agriculture for 1895."

**Judeich, Johann Friedrich.** Lehrbuch der mitteleuropäischen forstinsektenkunde von Dr. J. F. Judeich . . . und Dr. H. Nitsche . . . als 8. aufl. von Dr. J. T. C. Ratzburg, Die Waldverderber und ihre feinde in vollständiger umarbeitung hrsg . . . Wien, E. Hölzel, 1895.

2 v. front. (port., v. 1) illus., VIII col. pl. 23 $\frac{1}{2}$ cm.

Paged continuously; v. 1: XVIII, 736, [XIX]—XXXIV p.; v. 2: XI, [737]-1421, [XIII]-XXII p.

CONTENTS.—1. Ratzburg's leben. Einleitung. Allgemeiner theil. Specieller theil I: Gerad- und netzfügler, käfer und hautfügler.—2. Specieller theil II: Schmetterlinge, zweifügler, schnabelkerfe. Nachträge. Die feinde der einzelnen holzarten.

**Kirby, William.** . . . Some observations upon insects that prey upon timber, with a short history of the *Cerambyx violaceus* of Linnæus . . . [London, 1809]

246-260 p. pl. 27 $\frac{1}{2}$  x 22 $\frac{1}{2}$ cm.

From Transactions of the Linnean society of London, vol. v.

**Leidy, Joseph.** Report to the Councils of Philadelphia on some of the insects injurious to our shade trees . . . Philadelphia, 1862.

11 p. 22 $\frac{1}{2}$ cm.

**Nüsslin, Otto.** Leitfaden der forstinsektenkunde. Von Dr. Otto Nüsslin . . . Berlin, P. Parey, 1905.

xvi, 454 p. illus. (incl. ports.) 22 $\frac{1}{2}$ cm.

Agr 5-823

"Geschichte und literatur der forstinsektenkunde": p. [1]-8.

**Packard, Alpheus Spring.** Fifth report of the United States entomological commission, being a revised and enlarged edition of Bulletin no. 7, on insects injurious to forest and shade trees. Washington, 1890.

957 p. illus., 40 pl. 23 $\frac{1}{2}$ cm. (U. S. Entomological commission. Report 5)

**Packard, Alpheus Spring.** Insects injurious to forest and shade trees. Washington, 1881.

275 p. illus. 23 $\frac{1}{2}$ cm. (U. S. Entomological commission. Bulletin 7)

"Second edition published as the fifth report of the United States entomological commission."

**Packard, Alpheus Spring.** Report on the causes of destruction of evergreen forests in northern New England and New York. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the year 1883. Washington, 1883. p. 138-151)

**Packard, Alpheus Spring.** Second report on the causes of the destruction of the evergreen and other forest trees in northern New England and New York. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the year 1884. Washington, 1884. p. 374-383)

**Packard, Alpheus Spring.** Third report on the causes of destruction of the evergreen and other forest trees in northern New England. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1885. Washington, 1885. p. 319-333. 1 pl.)

**Peck, Charles Horton.** The black spruce . . . [Albany, 1876]

21 p. 23 $\frac{1}{2}$ cm.

From Transactions of the Albany institute, v. 8, p. 283-301.

**Perkins, George Henry.** . . . Insects injurious to the American elm . . . Montpelier, 1890.

96 p. illus. 25 $\frac{1}{2}$ cm.

From 11th report of the Vermont state board of agriculture.

**Planchon, Jules Émile.** Notes entomologiques . . . [Montpellier, 1870]

4 p. 21 $\frac{1}{2}$ cm.

Extraites des Ann. de la Société d'hortic. et d'hist. natur. de l'Hérault, séance du 13 novembre 1870.

CONTENTS.—Sur une chenille qui attaque le *Pinus excelsa* . . . —Sur l'accouplement des pucerons dans le midi de la France.

**Ratzeburg, Julius Theodor Christian.** Entomologische beiträge von Dr. J. T. C. Ratzeburg . . . (Bei der Akademie. eingegangen den 12. juni 1834) [Halle, 1835]

1 p. l. [423]-476 p. xxxii-xxxiii pl. (1 col.) 28 $\frac{1}{2}$ <sup>em</sup>

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. vol. xvii.

**Ratzeburg, Julius Theodor Christian.** Die forst-insecten oder abbildung und beschreibung der in den wäldern Preussens und der nachbarstaaten als schädlich oder nützlich bekannt gewordenen insecten; in systematischer folge und mit besonderer rücksicht auf die vertilgung der schädlichen. Im auftrage des chefs der zweiten abtheilung des Königl. Preuss. Haus-ministeriums Herrn geheimen staats-ministers von Ladenberg Excellenz hrsg. von Julius Theodor Christian Ratzeburg . . . Berlin, Nicolai'sche buchhandlung, 1839-[44]

Agr 3-264

3 v. front. (v. 1) illus., plates (partly col.) fold. tables. 29 $\frac{1}{2}$ <sup>em</sup>.

1. th. is Ed. 2.

Imprint of 3. th: Wien, E. Hölzel.

CONTENTS.—1. th. Die käfer. 1839.—2. th. Die falter. 1840.—3. th. Die adler-, zwei-, halb-, netz- und geradflügler. [1844]

**Riley, Charles Valentine.** Our shade trees and their insect defoliators; being a consideration of the four most injurious species which affect the trees of the capital; with means of destroying them. Washington, 1887.

69 p. illus., pl. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 10)

**Riley, Charles Valentine.** Remarks on the insect defoliators of our shade trees . . . before the New York farmers, at a meeting held March 10, 1887, and reported by James W. Tooley. New York [1887]

12 p. 25<sup>em</sup>.

Reprinted from Proceedings of the New York farmers, season 1886-87.

**Rivers, John James.** The oaks of Berkeley and some of their insect inhabitants . . . Sacramento, 1887.

12 p. 23<sup>em</sup>.

**Schøyen, Wilhelm Maribo.** . . . Ueber einige insektenschädlinge der laub- und nadelbäume in Norwegen . . . [Stuttgart, 1893]

[266]-271 p. 22 $\frac{1}{2}$ <sup>em</sup>.

Sonderabdruck aus der "Zeitschrift für pflanzenkrankheiten." III. bd. 5. hft.

**Simony, Friedrich.** Schütz dem walde! Von Professor Dr. Friedrich Simony. Vortrag gehalten am 21. Februar 1877 im Vereine zur verbreitung naturwissenschaftlicher kenntnisse in Wien. Nebst einem anhang: Ueber einige feinde des waldes von J. v. N. . . Wien, Im selbstverlage des Vereines zur verbreitung naturwissenschaftlicher kenntnisse in Wien, 1878.

1 p. l., 112 p. illus. 18<sup>em</sup>.

**Stebbing, E. P.** Departmental notes on insects that affect forestry. By E. P. Stebbing . . . Calcutta, Office of the Superintendent of government printing, India, 1902-03.

no. 1-2. XIX pl. 25 $\frac{1}{2}$ <sup>em</sup>.

**Stebbing, E. P.** A note on the sandal wood boring insects of Madras, by E. P. Stebbing . . . Calcutta, Office of the superintendent of government printing, India, 1903.

Agr 5-636

cover-title, 13 p. 24 $\frac{1}{2}$ <sup>em</sup>.

**Stewart, J. T.** Shade trees, indigenous shrubs and vines, by J. T. Stewart, M. D., and insects that infest them, by Miss Emma A. Smith. Peoria, Ill., Transcript company, printers and binders, 1877.

55 p. illus. 22<sup>em</sup>.

**Townsend, Charles Henry Tyler.** Some larvæ on scrub oak . . . [San Diego, Cal.] 1893.

[47]-51 p. 23 $\frac{1}{2}$ <sup>em</sup>.

From the West American scientist, vol. VIII, p. 47-51.

## MISCELLANEOUS.

**Butler, Edward Albert.** Our household insects, an account of the insect-pests found in dwelling houses, by Edward A. Butler . . . London and New York, Longmans, Green, and co., 1893.

vii p., 1 l., 344 p. illus., vii pl., incl. front. 19<sup>cm</sup>.

— — — New ed. London, New York, and Bombay, Longmans, Green, and co., 1896.

vii p., 1 l., 344 p. illus., vii pl. incl. front. 19<sup>cm</sup>.

**Forbes, Stephen Alfred.** . . . Studies on the contagious diseases of insects . . . Peoria, Ill., 1886.

[257]-321 p. pl. 23<sup>cm</sup>. (Bulletin of the Illinois state laboratory of natural history. vol. II. article IV)

**Hagen, Hermann August.** Museum pests observed in the Entomological collection at Cambridge. [Boston] 1878.

[56]-62 p. 22<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. xx, October 23, 1878.

**Hough, Walter.** The preservation of museum-specimens from insects and the effects of dampness . . . [Washington, 1889]

549-558 p. 23<sup>cm</sup>.

From the Annual report of the Board of regents of the Smithsonian institution . . . for the year ending June 30, 1887.

**Houlbert, Constant Vincent.** Les insectes ennemis des livres; leurs mœurs—moyens de les détruire; par C. Houlbert Paris, A. Picard & fils, 1903. 3-25786

2 p. l., xxxviii, 269, [1] p. illus., 3 pl. 23<sup>cm</sup>.

Half-title: Recherches expérimentales sur les insectes qui nuisent aux livres et aux bibliothèques.

"Composé principalement dans le but de répondre aux conditions du Prix Marie Pellechet. Sauf quelques additions, il est tel qu'il a été soumis à l'appréciation de MM. les membres du jury, chargés de juger le concours."

"Concours pour l'étude des insectes ennemis des livres. Rapport général, par M. Henry Martin": p. iii-xii.

"Index bibliographique" (94 titles): p. [xxvii]-xxxviii.

**Howard, Leland Ossian.** Danger of importing insect pests. (U. S. Agriculture, Dept. of. Yearbook, 1897. Washington, 1898. p. 529-552)

**Howard, Leland Ossian.** Principal household insects of the United States, by L. O. Howard and C. L. Marlatt; with a chapter on insects affecting dry vegetable foods, by F. H. Chittenden. Washington, 1896.

130 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 4)

— — — Rev. ed. Washington, 1899.

131 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 4)

**LeConte, John Lawrence.** . . . Report on insects introduced by means of the international exhibition . . . Philadelphia, 1876.

6 p. 22<sup>cm</sup>.

Extracted from the Proceedings of the Academy of natural sciences of Philadelphia, November, 1876.

Report signed by J. L. LeConte, Chairman, Geo. H. Horn, and Joseph Leidy.

**O'Connor, John Francis Xavier.** Facts about bookworms, their history in literature and work in libraries, by Rev. J. F. X. O'Connor . . . New York, F. P. Harper, 1898.

86, [1] p. incl. illus., plates, facsimis. 18<sup>cm</sup>.

**Trouessart, Édouard Louis.** . . . Les parasites des habitations humaines et des denrées alimentaires ou commerciales, par le D<sup>r</sup> E.-L. Trouessart . . . Paris, G. Masson [etc.] [1895]

168 p. illus. 19<sup>cm</sup>. (Encyclopédie scientifique des aide-mémoire, pub. sous la direction de M. Léauté . . .)

- Tryon, Henry.** . . . Destructive insects liable of introduction to Queensland . . . [Brisbane, 1897]  
30-40 p. 24 $\frac{1}{2}$ <sup>cm</sup>.  
From the Queensland agricultural journal, v, 1, pt. 1, July, 1897.
- United States—Dept. of agriculture—Division of entomology.** Some Mexican and Japanese injurious insects liable to be introduced into the United States. Washington, 1896.  
56 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 4)

### APICULTURE.

- Adair, D. L.** Progressive bee culture or Apine instincts and labors defined, illustrated and systematized, upon a new theory. D. L. Adair, Hawesville, Ky. Cincinnati, Pub. for the author by R. Clarke & co., 1872. Agr 3—142  
cover-title, 24 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.
- Allen, John.** The blessed bees, by John Allen. [3d ed.] New York, G. P. Putnam's sons [1881] Agr 5—496  
4, [2], [5]—172 p. 17 $\frac{1}{2}$ <sup>cm</sup>. (On cover: Putnam's handy book series, of things worth knowing [XXVIII])
- Alley, Henry.** The bee-keeper's handy book: or, Twenty-two years' experience in queen-rearing, containing the only scientific and practical method of rearing queen bees, and the latest and best methods for the general management of the apiary. By Henry Alley . . . Wenham, Mass., Published by the author, 1883. Agr 3—143  
xv, 184 p. front., illus. 21<sup>cm</sup>.
- Alley, Henry, comp.** The national beekeepers' directory. Containing a classified list of the beekeepers of the United States and Canada; with essays and hints regarding the successful management of the apiary. Comp. by Henry Alley Salem, Mass, Printed at Salem press publishing and printing co., 1889. Agr 5—497  
iii, 139 p. illus. 19 $\frac{1}{2}$ <sup>cm</sup>.
- Alley, Henry.** Thirty years among the bees. The result of a quarter-century experience in rearing queen-bees, giving the practical, every-day work of the apiary. By Henry Alley . . . Salem, Mass., The author, 1891. Agr 5—498  
2 p. l., 72 p. illus. 23 $\frac{1}{2}$ <sup>cm</sup>.
- Arnold, Don J.** Practical hints on bee culture. By Don J. Arnold. Brownville, Neb., Advertiser book and job print, 1874.  
52 p. 14 $\frac{1}{2}$ <sup>cm</sup>.
- Balbiani, Édouard Gérard.** Rapport sur les insectes utiles. See under Sericulture, p. 111.
- Barot, Alexandre.** Les plantes mellifères. Leurs noms scientifiques-- leurs noms vulgaires—l'époque de leur floraison—leur habitat. Paris, C. Mendel [1895] Agr 4—1894  
58 p. 19<sup>cm</sup>.
- Bartrum, E.** . . . Bees in a bar-frame hive. By the Rev. E. Bartrum . . . and the Rev. R. McClelland . . . edited by Rev. E. Bartrum . . . published under the direction of the general literature committee. London, Society for promoting Christian knowledge, 1897.  
16 p. 14<sup>cm</sup>. (Helpful hints for hard times)
- Beeton, Samuel Orchart.** . . . Bees, silkworms, and inhabitants of the aquarium, with twenty-nine engravings from designs principally by E. C. Rye. Also, a chapter on ferns (illustrated) . . . London, F. Warne and co. [n. d.]  
cover-title, 705-832 p. illus. 18<sup>cm</sup>. (Beeton's home pets) Agr 3—145
- Benton, Frank.** Bee keeping. Washington, 1897.  
32 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 59)
- Benton, Frank.** La cria de las abejas, por Frank Benton . . . México, Oficina tip. de la Secretaría de fomento, 1898. Agr 3—597  
59 p. pl. 22 $\frac{1}{2}$ <sup>cm</sup>. (Biblioteca agrícola de la Secretaría de fomento)  
Translation of Farmers' bulletin no. 59 of U. S. Department of agriculture: Bee keeping.

**Benton, Frank.** The honey-bee: a manual of instruction in apiculture. Washington, 1895.

118 p. illus., 12 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 1)

— — — Rev. ed. Washington, 1896.

118 p. illus., 12 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 1)

— — — Ed. 3 rev. Washington, 1899.

118 p. illus., 12 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 1)

**Benton, Frank.** The honey bee: a manual of instruction in apiculture. By Frank Benton . . . [Tokio, 1900?]

6 pl., 174, [2] p. illus., plates. 22<sup>cm</sup>.

Text in Japanese.

Translation of Bulletin no. 1, new series, of the Division of entomology, U. S. Dept. of Agriculture, 1895.

Short bibliography of bees and bee culture, in English, near end of pamphlet.

**Bertrand, Ed.** Conduite du rucher, par Ed. Bertrand . ix. éd., entièrement rev. et cor. Paris, Librairie agricole de la maison rustique; [etc., etc., 1904] xii, 288 p. illus., fold pl. 19½<sup>cm</sup>. Agr 4—461

**Bevan, Edward.** The honey-bee; its natural history, physiology and management, by Edward Bevan . . . London, Baldwin, Cradock and Joy, 1827.

xxvi, [2], 404 p. illus. 19½<sup>cm</sup>.

— — — Rev., enl. and illustrated by William Augustus Munn . . . [3d ed.] London, J. Van Voorst, 1870.

1 p. l., xxiv p., 1 l., 385 p. incl. front, illus. 21 pl. (1 fold., 12 col.) 19<sup>cm</sup>.

Engr. t.-p.

Each plate accompanied by one or two pages of descriptive text.

**Bovill, A. K.** Bee-keeping in Cyprus . . . Nicosia, Cyprus, Printed at the Government printing office, 1895.

5, [3] p. 23½<sup>cm</sup>.

In English, Greek, and Turkish.

**Browne, D. Jay.** Nature and habits of the honey-bee. (U. S. Patent office. Report of the Commissioner of patents for the year 1857. Agriculture. Washington, 1858, p. 107—121)

**Buckisch, William.** Bee-culture. Washington, 1861. (U. S. Patent office. Report of the Commissioner of patents for the year 1860. Agriculture. Washington, 1861, p. 268—301)

**Butlerov, Aleksandr Mikhaïlovich.** . . . Какъ водить пчель. Ученымъ комитетомъ Министерства народнаго просвѣщенія рекомендовано для библиотекъ низшихъ и среднихъ, мужскихъ и женскихъ учебныхъ заведеній вѣдомства Министерства народнаго просвѣщенія. Рассмотрѣно и одобрено пчеловодной комиссией Императорскаго вольнаго экономическаго общества и отдѣлениемъ пчеловодства Императорскаго русскаго общества акклиматизація животныхъ и растений . . . 4-е издание . . . С.-Петербургъ, Типографія В. Демакова, 1895.

xii, 44 p. illus., plans. 23<sup>cm</sup>. Agr 4—486

At head of title: A. M. Бутлеровъ.

How to raise bees. Recommended by the scientific committee of the Department of public instruction for the libraries of the lower and middle classes of educational institutions of the Department of public instruction. Inspected and approved by the apicultural committee of the Imperial Russian society for the acclimatization of plants and animals . . . 4th ed. . .

**Canada—Central experimental farm—Apiarist.** Bee keeping. Evidence of Mr. John Fixter . . . before the select standing committee on agriculture and colonization, 1903 . . . Ottawa, Printed by S. E. Dawson, printer to the king's most excellent majesty, 1903.

21 p. 24½<sup>cm</sup>.

**Canestrini, Giovanni.** . . . Apicoltura di G. Canestrini . . . 4. ed. Milano, U. Hoepli, 1902. Agr 5—47

viii, 215 p. illus. 15<sup>cm</sup>. (Manuali Hoepli)  
Bibliography: p. [214]—215.

**Cheshire, Frank Richard.** Bees & bee-keeping; scientific and practical. A complete treatise on the anatomy, physiology, floral relations, and profitable management of the hive bee. By Frank R. Cheshire . . . London, L. U. Gill [1886]—88.

2 v. fronts., illus., 7 pl. 20<sup>cm</sup>.

Agr 5—509

CONTENTS.—v. 1. Scientific.—v. 2. Practical.

**Chitty, Walter.** Bee-keeping for beginners. According to the syllabus of the Board of education for schools, by Walter Chitty, F. S. Sc. London, K. Paul, Trench, Trübner & Co., Ltd., 1903. Agr 4—945

viii, 87 p. illus. 19<sup>cm</sup>.

**Clément, A. L.** Apiculture moderne, par A.—L. Clément . . . [2. éd.] Paris, Larousse [18—] Agr 5—510

126 p. illus. 21 $\frac{1}{2}$ <sup>cm</sup>.

— — [4. éd.] Paris, Librairie Larousse [1898]

149 p. illus. 21 $\frac{1}{2}$ <sup>cm</sup>.

**Colvin, Richard.** The Italian honey-bee; or The culture and italianization of the native or black honey-bee. (U. S. Commissioner of agriculture. Report for the year 1863. Washington, 1863. p. 530—546)

**Comstock, Mrs. Anna (Botsford).** How to keep bees; a handbook for the use of beginners, by Anna Botsford Comstock . . . New York, Doubleday, Page & company, 1905. 5—12256

4 p. l., vii—ix, 228 p. front., illus., plates. 19<sup>cm</sup>.

"Bee books:" p. 215—217.

Plates printed on both sides.

**Cook, Albert John.** The bee-keepers' guide; or Manual of the apiary, by A. J. Cook . . . 7th ed., rev., enlarged, mostly re-written and beautifully illustrated. 9th thousand. Chicago, Ill., T. G. Newman, 1882.

3 p. l., vi p., 1 l., [11]—302, [8] p. front., illus. 19 $\frac{1}{2}$ <sup>cm</sup>.

American bee journals: p. 19—21.

"Books for the apiarist:" p. 21—23.

— — — 13th ed., rev., enlarged, re-written, and beautifully illustrated. 15th thousand. Lansing, Mich., 1888 [1883]

xv, 461 p. illus. 20 $\frac{1}{2}$ <sup>cm</sup>.

American bee journals: p. 11—12.

"Books for the apiarist:" p. 12—15.

— — — 14th ed., rev., enlarged, re-written, and beautifully illustrated. 16th thousand. Lansing, Mich., 1891 [1883]

xv, 461 p. illus. 20 $\frac{1}{2}$ <sup>cm</sup>.

American bee journals: p. 11—12.

"Books for the apiarist:" p. 12—16.

**Cook, Albert John.** Manual of the apiary, by A. J. Cook . . . 2d ed., rev., enlarged, mostly re-written and beautifully illustrated. Chicago, Ills., T. G. Newman & son, 1878.

4 p. l., viii, [11]—286 p. col. front., illus. 20<sup>cm</sup>.

American bee journals: p. 19—21.

"Books for the apiarist:" p. 21—23.

For later editions see *his*: The bee-keepers' guide.

**Cutting, James A.** A short treatise on the care and management of bees, and the construction of the changeable bee-hive; by James A. Cutting . . . Manchester, Printed for the inventor, 1849. Agr 3—151

cover-title, 16 p. illus. 18<sup>cm</sup>.



**D.** . . Manuel-pratique sur la culture des abeilles, contenant les moyens économiques d'en tirer le meilleur parti, et les recettes pour faire l'hydromel, la bière d'épica et de genièvre. Par D. . . cultivateur d'abeilles . . . Paris, Debray, 1796.

32 p. 17<sup>em</sup>.

Pub. with "Nouvelles observations sur les abeilles . . . par François Huber."

**Debeauvoys, J. B.** Guide de l'apiculteur, par M. Debeauvoys . . . 3. éd. Paris, Librairie d'agriculture et d'horticulture de M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard, 1851.

xvi, 256 p. illus. 18<sup>em</sup>.

Agr 3—153

**Doolittle, Gilbert M.** Scientific queen-rearing as practically applied; being a method by which the best of queen-bees are reared in perfect accord with nature's ways. By G. M. Doolittle . . . For the amateur and veteran in bee-keeping. Chicago, T. G. Newman and son, 1889.

169 p. incl. front. (port.) 19<sup>em</sup>.

Agr 5—513

**Dubini, Angelo.** Appendice all' opera del Cav. Dott. Angelo Dubini, L'ape e il suo governo intesa a portarla all' altezza delle scoperte che successivamente si fecero dal 1881 al 1885 . . . Milano, Tipografia Guighoni, 1886.

64 p. fold. pl. 18<sup>em</sup>.

**Dzierzon, Johann.** Beste bienenzuchts-methode nach pfarrer Dzierzon, enthaltend 1. Die aufsätze des vorstehers des Schlesischen bienenzüchter-vereins Wilh. Bruckisch. 2. Das bienenbuch des pfarrer Dzierzon. 3. Erfahrungen des W. Bruckisch durch seine 12jährige praxis in Amerika. Letztere sind am passendsten sogleich an die betreffende buch-stelle gesetzt worden. Hortentown, Texas, Selbstverlag des herausgebers W. Bruckisch, 1866.

2 p. l., 216 p. II pl. 20<sup>em</sup>.

Agr 3—155

**Dzierzon, Johann.** Dzierzon's rational bee-keeping; or, The theory and practice of Dr. Dzierzon . . . Tr. from the latest German ed. by H. Dieck and S. Stutterd. Ed. and rev. by Charles Nash Abbott . . . London, Houlston & sons; [etc., etc.] 1882.

xvi, 350 p. illus. 19<sup>em</sup>.

Agr 5—514

**Eddy, Henry.** Eddy on bee-culture, and the protective bee-hive; a guide to a successful and profitable method of bee-culture; the results of many years' experience and observation in bee-keeping. By Henry Eddy . . . with an introductory notice by J. V. C. Smith. Boston, Press of Damrell & Moore, 1854.

x, [1], 12-58 p. front., illus. 18<sup>em</sup>.

Paging irregular: no. [IX]-x repeated.

Agr 3—156

**Erslev, Hans.** . . . Ledetraad i biavl. . . . 2. oplag. 12. tusinde. Kallundborg, Det Tortzen'ske bogtrykkeri, 1895.

66, [2] p. illus. 17<sup>em</sup>. (Danmarks biavler-forenings smaaskrifter, nr. 10)

**Feburier.** Traité complet théorique et pratique sur les abeilles; par M. Feburier . . . Cet ouvrage, approuvé dans la séance de l'Institut de France, du 22 janvier 1810, contient l'histoire naturelle des abeilles, la culture de ces insectes applicable à toutes les espèces de ruches et à toutes les températures de la France, la comparaison des méthodes et des ruches adoptées jusqu'à ce jour avec celles proposées par l'auteur, enfin l'état des connoissances des Grecs et des Romains et celles des peuples modernes dans le xviii<sup>e</sup>. siècle sur les abeilles . . . Paris, De l'imprimerie de Madame Huzard, 1810.

2 p. l., iv, 460 p. 1 fold. pl. 21<sup>em</sup>.

Agr 3—182

**Girard, Maurice.** Les abeilles, organes et fonctions, éducation et produits, miel et cire, par Maurice Girard . . . Paris, J.-B. Baillièrre et fils, 1878.

viii, 280 p. col. front., illus. 18<sup>em</sup>.

Agr 5—519

"Bibliographie de l'abeille ordinaire": p. [276]-278.

**Glock, Johann Ph.** Die symbolik der bienen und ihrer produkte in sage, dichtung, kultus, kunst und bräuchen der völker für wissenschaftlich gebildete imker sowie alle freunde des klassischen altertums und einer ästhetischen naturbetrachtung nach den quellen bearb. von Joh. Ph. Glock . . . Heidelberg, Verlag der vorm. Weiss'schen universitäts-buchhandlung, T. Groos, 1891.

xii, 411, [1] p. incl. pl. 21 $\frac{1}{2}$ <sup>cm</sup>.

Bibliography: p. 272-273.

**Gmelin, Albert.** Die biene von der urwelt bis zur neuzeit. Eine kurze darstellung der entwicklung der bienenzucht. Von Albert Gmelin . . . Stuttgart, E. Ulmer, 1899.

2 p. l., 83 p. incl. ports. 22<sup>cm</sup>.

Sonderabdruck aus: "Joh. Witzgall, Das buch von der biene."

**Graftiau, Jean.** La fabrication de l'hydromel, par Jean Graftiau. Conférences et essais organisés par la Société d'apiculture du Bassin de la Meuse et la fédération apicole de Hesbaye-Condruz dans les locaux de la Station apicole de Huy. Dison, Imprimerie de D. Debois, 1896.

32 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

**Gravenhorst, Christoph Johann Heinrich.** Der praktische imker. Lehrbuch der rationellen bienenzucht auf beweglichen und unbeweglichen waben. Von C. J. H. Gravenhorst . . . 4., verm. und verb. Aufl. Braunschweig, C. A. Schwetschke und sohn (E. Appelhans) 1887.

iv, 280 p. front., illus. (incl. ports.) 22 $\frac{1}{2}$ <sup>cm</sup>.

**Gt. Brit.—Board of agriculture.** . . . Foul brood or bee pest. [London, 1896]

4 p. illus. 23<sup>cm</sup>. (*Its* Leaflet no. 32)

— [London, 1898]

4 p. illus. 21 $\frac{1}{2}$ <sup>cm</sup>. (*Its* Leaflet no. 32)

**Hamet, Henri.** Cours pratique d'apiculture (culture des abeilles) professé au Jardin du Luxembourg, par H. Hamet . . . 7. éd., revue par E. Sevalle . . . Paris, Aux bureaux de l'Apiculteur, 1893.

5 p. l., 453 p. illus. 18 $\frac{1}{2}$ <sup>cm</sup>.

"Notice sur F. Huber": 5th p. l., p. 1-2.

"Notice sur H. Hamet: p. [3]-4.

**Harrison, Charles.** The book of the honey bee, by Charles Harrison . . . London and New York, J. Lane, 1903.

Agr 3—1285

xii, 132 p. incl. front., illus. plates. 19 $\frac{1}{2}$ <sup>cm</sup>. (*Half-title*: Handbooks of practical gardening. xiv. Ed. by Harry Roberts)

**Heddon, James.** Success in bee-culture. As practiced and advised by James Heddon . . . Dowagiac, Mich., Times print, 1885.

128 p. illus. 21<sup>cm</sup>.

"Books and periodicals": p. 121-122.

**Hovind, Harald.** Bier og honning; haandbog i biskjtsel under benyttelse af nutidens bedste kilder, udarbejdet af Harald Hovind . . . og Engvald Hansen

Kristiania, J. Dybwads forlag; [etc., etc.] 1894.

Agr 4—3388

3 p. l., 424 p. front., illus. 21 $\frac{1}{2}$ <sup>cm</sup>.

**Howard, William R.** Foul brood; its natural history and rational treatment. With a review of the work of others. By Wm. R. Howard, M. D., Fort Worth, Texas. Chicago, Ill., G. W. York & co., 1894.

47, [1] p. 19 $\frac{1}{2}$ <sup>cm</sup>.

"Bibliography": p. [48]

**Huber, François.** New observations on the natural history of bees. By Francis Huber. 3d ed. . . . Edinburgh, Printed for U. & C. Tait, and Longman, Hurst, Rees, Orme, and Brown, London, 1821.

xv, 440 p. v pl. 18 $\frac{1}{2}$ <sup>cm</sup>.

**Huber, François.** Nouvelles observations sur les abeilles, adressées à M. Charles Bonnet, par François Huber, suivies d'un Manuel-pratique de la culture des abeilles. Par D. . . cultivateur d'abeilles . . . Paris, Debray, 1796.

1 p. l., x, [11]-280, 32 p. illus. 17<sup>cm</sup>.

— Nouvelles observations sur les abeilles, par François Huber, 2. éd., rev., cor. et considérablement augm. . . Paris [etc.] J. J. Paschoud, 1814.

2 v. 14 pl. 21<sup>4</sup><sup>cm</sup>.

**Huber, François.** Observations on the natural history of bees. By Francis Huber. A new ed., with a memoir of the author, practical appendix, and analytical index . . . London, Printed for T. Tegg, 1841.

2 p. l., xxiv, 352 p. v pl. 19<sup>4</sup><sup>cm</sup>.

Added t.-p. engr. reads: Huber's natural history of the honey bee. A new ed. with a memoir of the author and appendix.

**Huish, Robert.** The cottager's manual for the management of his bees, for every month in the year; both on the suffocating and depriving system; with the necessary instructions for the purchase of hives, and the general management of the apiary. By Robert Huish . . . 2d ed., with considerable additions, founded on the most recent discoveries. London, Wetton and Jarvis, 1821.

Agr 3—190

2 p. l., xvi, [17]-104 p. 19<sup>cm</sup>.

First ed. pub. in 1820.

Advertisements: p. 100-104.

**Hunter, Samuel John.** Alfalfa, grasshoppers, bees. *See under* Acridiidae, p. 291.

**Hutchinson, W. Z.** Advanced bee-culture, its methods and management, by W. Z. Hutchinson . . . Flint, Mich., The review print, 1891.

Agr 5—524

87, [1] p. incl. front. (port.) illus. 23<sup>cm</sup>.

**Japan—Dept. of agriculture and commerce—Agricultural bureau.** A description of bees, honey, beeswax and bee appliances exhibited in the World's Columbian exposition, published by Agricultural bureau, Department of agriculture and commerce, Japan. [n. p.] 1893.

1 p. l., 4 p. 22<sup>cm</sup>.

**Kellen, Tony.** . . . Katechismus für bienenzüchter und bienenfreunde. Unter berücksichtigung der neuesten forschungen und beobachtungen hervorragender imker, bearb. und hrsg. von Tony Kellen . . . Leipzig, M. Hesse's verlag [1892]

viii 287, [1] p. incl. front., illus. 18<sup>4</sup><sup>cm</sup>.

Agr 4—1780

(Max Hesse's illustrierte katechismen no. 28)

"Bibliographisches verzeichnis der wichtigeren neueren bienenzucht-litteratur": p. [277]-287.

**Kellen, Tony.** Die kunstwaben. Deren nutzen und anwendung beim bienenzuchtbetrieb sowie deren fabrikation auf walzwerken und handpressen. Nach den mitteilungen mehrerer kunstwabenfabrikanten, insbesondere des Herrn Otto Schulz, und mit berücksichtigung der beobachtungen und erfahrungen praktischer imker, bearb. und hrsg. von Tony Kellen . . . Braunschweig, C. A. Schwetschke und sohn (Appelhans & Pfeningstorff) 1892.

xi, 134 p. incl. front. (port.) illus. 21<sup>cm</sup>.

**King, A. J.** The new bee-keepers' text book, by A. J. King . . . 24th ed., 52d thousand. Being a thorough revision of the old text book, by N. H. & H. A. King. Enlarged and illustrated. New York, O. Judd company, 1879.

Agr 3—191

xvii, [18]-229 p. illus. 16<sup>4</sup><sup>cm</sup>.

**Kruschke brothers.** Rape culture: its value as a farm crop and honey plant, briefly set forth with testimonials from experienced agriculturists and bee-keepers, both of Europe and America. Kruschke bros., Berlin, Wisconsin. [Berlin, Wis.] Berlin courant print [1874]

cover-title, 23 p. 16<sup>cm</sup>.

**Lahn, W.** Lehre der honig-verwertung. Anweisung zur fabrikation von met, wein, champagner, liqueur, sirup, essig, moussierender limonade, alkohol, etc., zur herstellung seiner backwerke mit honig, wie Nürnberger und italienischer leb-kuchen, konfitüren, honig- und pfefferkuchen, etc., und zum einmachen der fruchte in honig. Nebst anleitung zum gebrauch des honigs in der gesundheitspflege und einem anhang: Das wach und seine verwertung und ein blick in die geheimmittellehre. Hrsg. von W. Lahn . . . 2. neubearb. auf. Oranienburg, E. Freyhoff's verlag, 1888.

xvi, 148 p. front., illus. (incl. port.) 19½<sup>cm</sup>.

**Langstroth, Lorenzo Lorraine.** Langstroth on the hive and honey bee, rev., enl., and completed by Chas. Dadant and son. Hamilton, Ill., C. Dadant & son, 1889.

Agr 5—525

1 p. l., xv, 521, v, xiii p. illus., 16 (*i. e.* 19) pl. (1 double, and incl. front., 12 port.) 19½<sup>cm</sup>.

**Langstroth, Lorenzo Lorraine.** A practical treatise on the hive and honey-bee, by L. L. Langstroth; with an introduction, by Rev. Robert Baird, D. D. 3d ed., rev., and illustrated with seventy-seven engravings. Philadelphia, J. B. Lippincott & co., 1870.

Agr 3—192

xii, 13-409 p. front., illus., 23 (*i. e.* 24) pl. 18½<sup>cm</sup>.

**Layens, Georges de.** Cours complet d'apiculture (culture des abeilles), par MM. Georges de Layens . . . et Gaston Bonnier . . . Ouvrage illustré de 244 figures dessinées d'après nature par A. Millot, P. Jamin, B. Henrincq, J. Poinsoit, etc. Paris, P. Dupont, éditeur [1897]

2 p. l., 439 p. illus. 20<sup>cm</sup>.

**Layens, Georges de.** . . . Élevage des abeilles par les procédés modernes; théorie et pratique en dix-sept leçons. 5. éd. Paris, Goin [1900]

vi, [7]-123 p. incl. front. (port.) illus. 18<sup>cm</sup>. (*On cover:* Bibliothèque de l'agriculteur praticien)

**Layens, Georges de.** L'hydromel, par M. Georges de Layens . . . Paris, P. Dupont, éditeur, 1894.

20 p. front., illus. 18<sup>cm</sup>.

**McEvoy, William.** Foul brood. Its cause and cure. By Wm. McEvoy . . . Published by the New Jersey state board of agriculture, April 24, 1895. Trenton, N. J., Naar, Day & Naar, printers, 1895.

8 p. 23½<sup>cm</sup>.

**McLain, Nelson W.** Report on experiments in apiculture. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1885. Washington, 1885. p. 333-343)

— (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1886. Washington, 1887. p. 583-591)

— (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p. 170-178)

**Manual del apicultor peruano.** Lima, Impr. del "Monitor popular," 1898.

1 p. l., vii, [3]-104 p. 10 pl. 20<sup>cm</sup>.

4—10176

Preface signed: Un demócrata.

**Miller, Charles C.** . . . Bee culture, by Dr. C. C. Miller. Published by direction of the secretary. 1901. [Harrisburg], W. S. Ray, state printer of Pennsylvania, 1901.

103 p. illus. 23½<sup>cm</sup>. (Commonwealth of Pennsylvania. Dept. of agriculture. Bulletin no. 77)

**Miller, Charles C.** Forty years among the bees, by Dr. C. C. Miller. Chicago, Ill., G. W. York & company, 1903.

3—5517

327 p. illus. 20½<sup>cm</sup>.

**Miller, Charles C.** A year among the bees; being a talk about some of the implements, plans and practices of a bee-keeper of 25 years' experience, who has for 8 years made the production of honey his exclusive business. By C. C. Miller, M. D. Chicago, Office of the American bee journal [1891?]

114 p. illus. 17½<sup>cm</sup>.

**Morrison, W. K.** . . . Bee-keeping in the West Indies. By W. K. Morrison . . . [n. p., "Agricultural reporter" printing office] 1901.

4 p. l., 73 p. illus. 18<sup>cm</sup>. (Imperial department of agriculture for the West Indies. Pamphlet ser., no. 9)

"Books on bees": p. 57-58.

Journals: p. 59.

**Motchalkine, Th. S.** Histoire sommaire du rucher de la Société impériale d'acclimatation, par M. Th. S. Motchalkine. Moscou, Impr. A. B. Wassilieff, 1900.  
20 p. illus. 22<sup>cm</sup>.

**Newman, Thomas Gabriel.** Bees and honey; or, The management of an apiary for pleasure and profit. By Thomas G. Newman . . . Chicago, Ill., Office of the American bee journal, [188-]

[11], 12-192 p. front., illus., pl. 20<sup>4</sup><sup>cm</sup>.

**Ohlsen, Carlo.** L'ape e l'apicoltura . . . Catania, Reale tipografia Pansini, 1893.

Agr 3—199

18 p. 23<sup>cm</sup>.

Estratto dalla Nuova rassegna.

**Pettigrew, A.** The handy book of bees; being a practical treatise on their profitable management, by A. Pettigrew. Edinburgh and London, W. Blackwood and sons, 1870.

Agr 4—998

xii p., 193 p. illus. 18<sup>4</sup><sup>cm</sup>.

**Phin, John.** A dictionary of practical apiculture. Giving the correct meaning of nearly five hundred terms, according to the usage of the best writers. Intended as a guide to uniformity of expression amongst bee-keepers. With numerous illustrations, notes, and practical hints. By John Phin. New York, The Industrial publication company, 1884.

1 p. l., xiv, [7]-80 p. illus. 19<sup>cm</sup>.

**Pierce, Griffith R.** The winter problem in bee-keeping. An exposition of the conditions essential to success in the winter & spring management of the apiary, by G. R. Pierce . . . Oneonta, N. Y., E. C. Reynolds, job print, ° 1891.

77 p. illus. 22<sup>4</sup><sup>cm</sup>.

**Quinby, Moses.** . . . Mysteries of bee-keeping explained. Containing the result of thirty-five years' experience, and directions for using the movable comb and box-hive, together with the most approved methods of propagating the Italian bee. By M. Quinby . . . New stereotyped and illustrated ed. New York, O. Judd & company, 1866.

Agr 3—201

x p., 1 l., [17]-348 p. illus. 19<sup>4</sup><sup>cm</sup>.

At head of title: Newly written throughout.

**Quinby, Moses.** Quinby's new bee-keeping. The mysteries of bee-keeping explained. Combining the results of fifty years' experience, with the latest discoveries and inventions, and presenting the most approved methods, forming a complete guide to successful bee-culture. By L. C. Root . . . New and rev. ed. New York, O. Judd company, 1884.

Agr 5—536

xvi, 17-271 p. incl. front. (port.) illus. 19<sup>cm</sup>.

**Reinhold, Alejandro, pub.** . . . Apicultura moderna; descripción de colmenas norte americanas y todos los útiles necesarios para apicultores. Buenos Aires, A. Reinhold, 1903.

Agr 3—957

cover-title, 56 p. illus. 22<sup>4</sup><sup>cm</sup>. (Biblioteca científica rural para industrias de gran porvenir. 2. ed. no. 3<sup>a</sup>)

**Riley, Charles Valentine.** What the Department of agriculture has done, and can do, for apiculture . . . [Chicago, 1893]

6 p. 22<sup>4</sup><sup>cm</sup>.

Extract from the Proceedings of the Twenty-third annual meeting of the North American beekeepers' association held at Washington, D. C., December 27, 28 and 29, 1892.

**Root, Amos Ives.** The a b c of bee culture: a cyclopædia of everything pertaining to the care of the honey-bee; bees, honey, hives, implements, honey-plants, etc., facts gleaned from the experience of thousands of bee keepers all over our land and afterward verified by practical work in our own apiary. By A. I. Root. 52d thousand. Medina, Ohio, A. I. Root, 1891.

10 p. l., 408 p. illus. 26<sup>cm</sup>.

— — Rev. by E. R. Root. 85th thousand. Medina, O., The A. I. Root company, 1903. 3-11833

8 p. l., 482 p. illus. (incl. port.) 25<sup>cm</sup>.

Glossary: p. [392]-395.

"[G. M.] Doolittle's review and comments on The a b c book": p. [396]-399.

"[C. C.] Miller's review and comments on The a b c book": p. [400]-406.

"Biographies of noted bee-keepers": p. [407]-439.

**Rothschütz, E.** Rothschütz' illustrierter bienenzuchtsbetrieb. Hilfs- und handwörterbuch . . . Wien, Im selbstverlage, 1892-94.

v. 1-2, pt. 1. front. (v. 2, pt. 1) illus. (incl. map) 17<sup>cm</sup>.

2. bd., 1. buch hrsg. von Ph. Fr. Rothschütz.

CONTENTS.—1. bd., I. buch. Bienenzuchtsflora, 1893.—1. bd., II. buch. Die bienenzuchtsproducte: honig und wachs, ihre zusammensetzung, scheidung und verwertung im handel und im hause. 1894.—[1. bd., III. buch] Die bienenzuchtgeräthe und die anfertigung der kunstwaben, 1893.—2. bd. [I. buch] Naturgeschichte und betriebslehre mit anhang: Die Krainer biene und ihre zucht, 1892.

**Sartori, Luigi.** L'apicoltura in Italia; manuale teorico-pratico-industriale per la coltivazione razionale del mellifero insetto col favo mobile e col favo fisso. Comp. da Luigi Sartori . . . e dal Cav. A. de Rauschenfels . . . Riveduto dal conte Cav. Gaetano Barbò . . . Milano, L. Sartori [etc.] [1878]

vi, 529, [1] p. illus. 23½<sup>cm</sup>.

**Shavrov, Nikolai Nikolaevich.** . . . Краткій очеркъ современнаго положенія пчеловодства на Кавказѣ; составилъ Н. Шавровъ . . . Тифлисъ, Типографія К. П. Козловскаго, 1893. Агр 3—1006

4 p. l., 88 p. map. 25¼<sup>cm</sup>.

A short sketch of the present condition of apiculture in the Caucasus.

At head of title: Кавказская шелководственная станція.

"Напечатано по распоряженію г. Уполномоченнаго министра государственныхъ имуществъ на Кавказѣ."

**Taylor, Henry.** The bee-keeper's manual; or Practical hints on the management and complete preservation of the honey-bee. By Henry Taylor. 2d ed., enl. . . London, R. Groombridge, 1839.

viii, 126 p. front., illus. 17¼<sup>cm</sup>.

**Texas—Agricultural and mechanical college—Apiary.** Report on the A. & M. college apiary. Together with practical suggestions in modern methods of bee keeping as applied to Texas conditions. By Fred. W. Mally . . . and Wilmon Newell . . . Austin, Von Boeckmann, Schutze & co., state printers, 1902.

53 p. front., illus. 23<sup>cm</sup>,

Written by Wilmon Newell.

**Tinker, G. L.** Bee-keeping for profit, or How to get the largest yields of comb and extracted honey. By Dr. G. L. Tinker. . . Flushing, Mich., Rulison's printing house, 1890.

47, [2] p. illus. 16¼<sup>cm</sup>.

**Tupper, Mrs. Ellen S.** Bee keeping. (U. S. Agriculture, Commissioner of. Report . . . for the year 1865. Washington, 1866. p. 458-475)

**Tupper, Mrs. Ellen S.** Bees: their management and culture. By Mrs. Tupper & Savery. Published by the Italian bee company, Des Moines, Iowa. Des Moines, G. W. Edwards, printer, successor to Mills & co. [n. d.]

26 p. 19<sup>cm</sup>.

**Tupper, Mrs. Ellen S.** Winter bee-keeping. (U. S. Agriculture, Commissioner of. Report . . . for the year 1867. Washington, 1868. p. 209-211)

**Wagner, G. S.** Statistics of bee-keeping. (U. S. Agriculture, Commissioner of. Report . . . for the year 1868. Washington, 1869. p. 272-281)

**Wagner, Max.** Das zieldwesen und seine ordnung im mittelalter und in der neueren zeit . . . München, 1894.

iv, 89, [1] p. pl., 3 maps (2 fold.) 23½<sup>cm</sup>.

Inaug.-dis.—Munich.

“Quellenangabe und bibliographie”: p. [85]-89.

**Weygandt, Christian.** Ein kleiner beitrage zur förderung der bienenzucht, von C. Weygandt . . . Braunschweig, C. A. Schwzschke und sohn (Appelhans & Pfennigstorff) 1889-91.

3 hft. in 1 v. illus., 3 port. 20½<sup>cm</sup>.

**Wildman, Thomas.** A treatise on the management of bees; wherein is contained the natural history of those insects; with the various methods of cultivating them, both ancient and modern, and the improved treatment of them. To which are added, the natural history of wasps and hornets, and the means of destroying them. Illustrated with copper-plates. By Thomas Wildman. London, Printed for the author, and sold by T. Cadell, 1768.

xix, [1], 169, [7] p. iii pl. (incl. front., 2 fold.) 28<sup>cm</sup>.

#### PERIODICALS.

**American apiculturist**, a journal devoted to scientific and practical bee-keeping, published monthly, May 1883-Aug. 1886; Jan. 1891-May 1895. v. 1-4. no. 8; v. 9-13, no. 5. illus., plates. 8°. Salem & Wenham, Mass., 1888-[95]

Incomplete.

**American bee journal** [weekly] July 1866-Jan. 1867; May, July-Oct. 1867; Feb.-May 1868; July 1870-June 1871; July-Dec. 1873; Jan. 3, 1882-Dec. 29, 1904. v. 2, no. 1-7, 11; v. 3, no. 1-4, 8-11; v. 6; v. 9, no. 1-6; v. 18-44. 8° (v. 6, 18-26, 35-44, 4°) Washington & Chicago [1866-1904]

Vol. 34-36, 39 incomplete.

Vol. 2-9 published monthly.

**American bee keeper** [monthly] Jan. 1891-Dec. 1904. v. 1-14. illus. 8°. [Falconer, N. Y., 1891-1904]

**Annals of bee culture.** 1869, 1870, 1872. illus. 8°. Louisville, Ky., 1869-72.

**L' Apicoltore**, periodico dell' Associazione centrale d' incoraggiamento per l'apicoltura in Italia [monthly] Jan. 1868-Dec. 1904. v. 1-37. illus. 8° Milano [1868-1904]

Vol. 1 is Ed. 2.

Vol. 11-20, 2. ser.; v. 21-30, 3. ser.; v. 31-37, 4. ser.

**L' Apiculteur**, journal des cultivateurs d'abeilles, marchands de miel et de cire, mensuel; organe de la Société centrale d'apiculture et d'insectologie, Oct. 1856-Sept. 1869; Mar.-June, 1890; Aug.-Dec. 1890; Feb. 1891-July, 1892; Sept. 1892-Dec. 1893; Jan. 1895-Apr. 1898; June 1898-Dec. 1904. new ser., v. 1-13; new ser., v. 34, no. 3-6, 8-12; new ser., v. 35, no. 2-new ser., v. 36, no. 7; new ser., v. 36, no. 9-new ser., v. 37; new ser., v. 39-42, no. 4; new ser., v. 42, no. 6-new ser., v. 48. illus. 8°. Paris [1856]-1904.

Founded by H. Hamet.

**El Apicultor**, revista consagrada á la propagación y defensa del cultivo de las abejas [monthly] Jan.-Nov. 1904. v. 1, no. 1-11. 4°. Barcelona [1904]

**The Australasian beekeeper.** A journal devoted to bees and honey, and the beekeepers' interests [monthly] Jan. 15, 1903-Dec. 15, 1904. v. 4, no. 7-v. 6, no. 6. West Maitland, N. S. Wales [1903-04]

**Australian bee bulletin**, a monthly journal devoted to beekeeping, Apr. 28, 1896-Mar. 28, 1898; Apr. 30, 1898-Dec. 29, 1904. v. 5-6, no. 10; v. 7-13, no. 9. illus. 8°. West Maitland, N. S. Wales, 1897-1904.

**Bee-keepers' association of the province of Ontario.** See **Ontario, Bee-keepers' association of the province of.**

**Bee-keeper's magazine**, an illustrated monthly devoted exclusively to bee-culture. Jan.-Dec. 1874. v. 2. illus. 8°. New York [1874]

**Bee keeper's review**, a monthly journal, Jan. 10, 1892; June 10, 1892-Sept. 10, 1893; Nov. 10, 1893-Dec. 10, 1895. v. 5, no. 1, 6-12; v. 6, no. 1-9, 11-12; v. 7-8. illus. 8°. Flint, Mich. [1892-95]

**Bienen-vater.** Organ des Zentralvereines für bienenzucht in Österreich, seiner zweigvereine, sowie der landesverbände in Vorarlberg, Mähren und Steiermark, ferner der sektion für bienenzucht der K. K. Landwirtschafts-gesellschaft Salzburg . . . [monthly] Jan. 1-Dec. 1, 1904. v. 36. 4°. Wien, 1904.

**Bienen-zeitung**; organ des Vereins der deutschen und österreichischen bienenwirte [semi-monthly] Jan. 25-Dec. 31, 1861; Jan. 28, 1863-Dec. 31, 1873; Jan. 15, 1875-Dec. 15, 1884. v. 17, 19-29, 31-40. illus. 4°. Nördlingen [1861-84]

Vol. 17-35, ed. by Andreas Schmid; v. 36, ed. by Andreas Schmid and F. W. Vogel; v. 37-40, ed. by F. W. Vogel.

Vol. 17-33, title reads: *Bienen-zeitung; organ des Vereins der deutschen bienenwirthe.*

— Die bienen-zeitung; das organ des Vereins der deutschen bienenwirthe in neuer, gesichteter und systematisch geordneter ausgabe; oder, Die Dzierzon'sche theorie und praxis der rationellen bienenzucht nach ihrer entwicklung und begründung in der Bienen-zeitung. 2 v. illus., plates. 8°. Nördlingen, 1861-62.

The **British bee journal and bee-keepers' adviser** [weekly] Jan. 7-Dec. 29, 1904. v. 32, no. 1124-1175. (n. s. no. 732-783) 4°. London, 1904.

**Busy bee**, a monthly journal. May, 1897-July, 1898. v. 8, no. 5-v. 9, no. 7. 8°. St. Joseph [1897-98]

Continuation of *Nebraska bee-keeper*, q. v.

Continued under the title: *Modern farmer and busy bee.*

**Canadian bee journal**, published monthly. Aug. 15, 1891-Dec. 1904. v. 7, no. 11-v. 9, no. 6; n. s. v. 1-12, no. 5. illus. 8°. [Beeton & Brantford, Ont., 1891-1904]

Incomplete.

Vol. 7-9, no. 6, semi-monthly.

**Gleanings in bee culture** [semi-monthly] Jan. 1875; Mar. 1-May 1, 1875; July 1, 1875-Dec. 1876; Feb. 15, 1888; Jan. 1, 1889-Dec. 15, 1904. v. 3, no. 1, 3-5, 7-12; v. 4; v. 16, no. 4; v. 17-32. illus. 8°. [Medina, O., 1875-1904]

Vol. 3-4 published monthly.

**Illinois state bee-keepers' association.** Annual report . . . 1st-4th, 1891-93, 1903-04. 8°. Chicago [etc.] 1892-1905.

**Maandschrift voor bijenteelt.** See **Vereeniging ter bevordering der bijenteelt in Nederland.**

**National bee journal**, monthly. Jan.-Dec. 1872. v. 3. illus. 8°. Indianapolis [1872]

No. 1-11 semi-monthly.

**Nebraska bee-keeper** [monthly] Jan. 1893-Aug. 1896. v. 4-7, no. 8. 8°. York, Neb. 1893-96.

Vol. 7, title reads: *Nebraska bee keeper and irrigator*, a monthly journal devoted to apiculture and irrigation.

Continued under the title: *Busy bee*, q. v.

**Nebraska state bee-keepers' association.** Annual report [1st session] 1895. 8°. [Omaha, 1895?]



**Netherlands.** Vereeniging ter bevordering der bijenteelt in Nederland. *See* Vereeniging ter bevordering der bijenteelt in Nederland.

**Ontario, Bee-keepers' association of the province of.** Annual report [15th-17th, 20th-21st, 23d-24th] 1894-96, 1899-1900, 1902-03. 8° Toronto, 1895-1904.

**Pacific bee journal** [monthly] Jan. 1896-Apr. 1898. v. 1-3, no. 4. illus. 8°. Los Angeles [1896-98]

Vol. 1 published quarterly.

**Pacific states bee journal**, published monthly in the interest of honey producers. Nov. 1903-June 1904. v. 1, no. 1-8. illus. 8°. Tulare, Cal. [1903-04]

May 1, 1904, absorbed the Rocky mountain bee journal. After June, 1904, continued as The western bee journal.

**Progressive bee-keeper** [monthly] Jan. 1892-Aug. 1901, v. 2-11, no. 8; Sept. 1901-Dec. 1904, v. 9, no. 9-v. 12. illus. 8°. Higginsville, Mo. [1892-1904]

Vol. 3, 1893: v. 5-6, 1895-96; v. 8, 1898; v. 10, 1900, incomplete.

Sept. 1901, vol. no. changed from 11 to 9.

**Revue internationale d'apiculture** [monthly] Jan. 1891-Oct. 31, 1896; Dec. 31, 1886-Dec. 31, 1903. v. 13-18, no. 10; v. 18, no. 12-v. 25. illus. 8°. Nyon, Switzerland, 1891-1903.

Ceased publication Dec. 1903.

Ed. by Édouard Bertrand.

The **Rocky mountain bee journal** . . . [monthly] Feb.-Nov. 1901; Jan., May-June, Oct.-Nov. 1902; Jan., Mar., May, 1903-Mar. 1904. v. 1, no. 1-10, 12; v. 2, no. 16-17, 21-22, 24; v. 3, no. 26, v. 3, no. 28-v. 4, no. 38. 8° Boulder, Colo. [1901-04]

May 1, 1904, merged with Pacific States bee journal, afterwards the Western bee journal.

The **Rural bee-keeper** . . . published monthly. Mar.-Dec. 1904. v. 1, no. 1-9. 4° River Falls, Wis. [1904]

**Russkii pchelovodnyi listok.** (Русский пчеловодный листокъ) 1892. v. 7. 8°. [S.-Peterburg, 1892]

Russian apicultural journal.

**Société centrale d'apiculture et d'insectologie.** *See* L'apiculteur.

**Société romande d'apiculture.** Bulletin . . . [monthly?] Jan. 1904. v. 1, no. 1. illus. 8°. Lausanne [1904]

**Southland queen** [monthly] Sept. 1895-Dec. 1901; Apr.-Aug., Oct. 1903-July, 1904. v. 1, no. 5-v. 7, no. 8; [n. s.] v. 1, no. 1-5, 7-11; v. 9, no. 1-5, illus. 8°. Beeville, Texas [1895-1904]

Ceased publication July, 1904.

Sept. 1904, merged with Western bee journal.

**Vereeniging ter bevordering der bijenteelt in Nederland.** Maandschrift voor bijenteelt . . . [monthly] Jan. 15, 1900-Dec. 15, 1903; Feb. 15-Sept. 15, Nov. 15-Dec. 15, 1904. v. 3-6, 7, no. 2-9, 11-12. 8°. Assen [1900-04]

Ed. by J. C. Bosch.

The **Western bee journal**, published monthly in the interest of bee keepers. July, 1904-Jan. 1905. v. 1, no. 2-v. 2, no. 3. 8°. Hanford & Kingsbury, Cal. [1904-05]

May 1, 1904, Pacific states bee journal absorbed the Rocky mountain bee journal. Number for June, 1904, published as Pacific states bee journal, v. 1, no. 9. July, 1904, v. 1, no. 2, probably first number published under new name, the Western bee journal. Sept. 1904, absorbed the Southland queen.

## SERICULTURE.

## BIBLIOGRAPHY.

**Göriz.** I. R. Istituto sperimentale di bachicoltura ed enologia—*Biblioteca.* La biblioteca dell' I. R. Istituto sperimentale di bachicoltura ed enologia di Gorizia. Gorizia, Tip. Paternolli ed. [1891] Agr 4—283

186 p. 23 $\frac{1}{2}$ cm.

"La biblioteca dell' I. R. Istituto sperimentale, il cui catalogo viene in seguito pubblicato, comprende oltre 3,000 volumi di opere di scienze naturali e d' agricoltura, riguardanti in ispezialità la bachicoltura, la viticoltura, l' enologia e le malattie delle piante."—p. [3]

## AMERICAN.

**Allen, Franklin.** Sericulture . . . New York, 1903.

20 p., 1 l. 25cm.

Publication of the Silk association of America.

**American silk society.** . . . Memorial of the executive committee of the American silk society, on the subject of the culture of silk. February 11, 1839. Referred to the Committee on agriculture, and ordered to be printed. [Washington] Blair & Rives, printers, 1839.

25 p. 22 $\frac{1}{2}$ cm. ([U. S.] 25th Cong., 3d sess. Senate [Doc.] 205)

Caption title.

**Barricelli, Gerardo.** Silk-culture directory and silk-caterpillars disorders. By G. Barricelli. (11th ed., the 3d in English.) [Holden, Missouri, Mississippi Valley silk-culture enterprise] 1884. Agr 4—196

1 p. l., 8 p., 1 l., 9-104 p. illus. 19cm.

**Blodget, Lorin.** Silk culture in the United States . . . Philadelphia, 1882.

7 p. 23cm.

Reprinted from the Journal of the Franklin Institute, for March, 1882.

**Blodget, Lorin.** Women's work in founding a new industry—silk culture. By Lorin Blodget . . . [Philadelphia, E. Stern & co., printers, 1884]

8 p. 23cm.

**Rollman, Lewis.** Silk cultivation. (U. S. Agriculture, Commissioner of. Report . . . for the year 1872. Washington, 1874. p. 304-316)

**Boys' silk culture association of the United States.** An account of the habits, changes and diseases of the Bombyx mori, or common silkworm. Comp. by the Boys' silk culture association of the United States, from personal experience, and the works of various standard authorities. 2d ed., rev. and enl. . . . [Philadelphia, Times printing house] 1881. Agr 4—3493

46 p. illus. 17 $\frac{1}{2}$ cm.

**Byram, H.** An essay on the culture and manufacture of silk. (U. S. Patent office. Annual report of the Commissioner of patents, for the year 1847. Washington, 1848. p. 440-452)

**California—State board of silk culture.** . . . Practical suggestions relative to silkworms, cocoons, etc. Sacramento, J. J. Ayers, supt. state printing, 1885.

16 p. 23cm.

**Carera, Huber & co.** Practical method for the cultivation of mulberry trees, raising of silkworms, cocoons, etc., by Carera, Huber & co. New York, A. Carigliano [1883] Agr 4—261

29 p., 1 l. 19 $\frac{1}{2}$ cm.

[**Chamberlaine, Samuel**] Instructions for hatching silkworms' eggs and raising the insects. Philadelphia, Craig, Finley & co., 1880.

10 p. 18cm.

"This book . . . is issued by the Industrial school of the Women's silk culture association of the United States."

Signed: Samuel Chamberlaine.

**Chamberlaine, Samuel.** . . . Silk culture and home industry. Read before the Association April 8th, 1875. By Dr. Saml. Chamberlaine, [Philadelphia, 1875] 13 p. 23<sup>em</sup>. (Social science association of Philadelphia. Papers of 1875)

**Cobb, Jonathan Holmes.** A manual containing information respecting the growth of the mulberry tree, with suitable directions for the culture of silk. In three parts. By J. H. Cobb, A. M. Published by direction of His Excellency Gov. Lincoln, agreeably to a resolve of the commonwealth . . . New ed. Boston, Carter, Hendee and co., 1833. Agr 4—3513

[iii]—xii, [13]—98 p. III pl. (2 col.) incl. col, front. 18<sup>em</sup>.

**Cobb, Jonathan Holmes.** A manual containing information respecting the growth of the mulberry tree, with suitable directions for the culture of silk. In parts. By J. H. Cobb, A. M. Originally published by direction of His Excellency Governor Lincoln, agreeably to a resolve of the commonwealth . . . 4th ed. enl. Boston, Weeks, Jordan and company, 1839. Agr 5—142

2 p. l., xii, [13]—162 p. 2 fold. front., illus. 17<sup>4</sup><sup>em</sup>.

**Comstock, F. G.** A practical treatise on the culture of silk, adapted to the soil and climate of the United States. By F. G. Comstock . . . 2d ed. rev. and improved. Hartford, P. B. Gléason and co., 1839. Agr 4—3517

xi, [13]—96 p. illus. 19<sup>em</sup>.

**Crozier, L. S.** Breeding and rearing of the silk worm. A few hints to the farmers of Kansas, and other states. By S. Crozier . . . Ottawa, Kansas, Printed at the office of the Ottawa republican, 1875. Agr 4—268

46 p. 22<sup>4</sup><sup>em</sup>.

**Crozier, L. S.** Breeding and rearing of the silk worm. A few hints to the farmers of the South. By L. S. Crozier . . . New Orleans, Printed at the Democrat office, 1880.

34 p. 23<sup>em</sup>.

Note: Same, with a few changes, as his Breeding and rearing of the silk worm. A few hints to the farmers of Kansas.

**Davidson, Mary Matilda.** The Bombyx mori (Linnæus) a manual of silk culture containing complete instructions for beginners as well as practical directions for managing a cocoonery; designed especially to simplify the production of silk by the use of the osage orange as a food plant in localities where it naturally grows in abundance, by Mary Matilda Davidson . . . Junction City, Kan., The author, 1882. Agr 4—3523

18 p. illus. 19<sup>4</sup><sup>em</sup>.

**De La Bigarre, Peter.** A treatise on silk worms: in two parts. The first on their management within doors, and the second concerning their treatment in open air upon hedges. [n. p., 1804?]

394—418 p. 21<sup>em</sup>.

From the Transactions of the Society for the promotion of useful arts in the state of New York, v. 17

**Ewer, Warren B.** The California silk growers' manual. By W. B. Ewer . . . Published under direction of the California silk culture association. San Francisco, Dewey & co., 1882.

20 p. illus. 23<sup>em</sup>.

**Graves, Daniel.** A treatise on sericulture, compiled from some of the best authors extant; being a good text book for the novice and first beginner. By Daniel Graves . . . Salt Lake City, Printed at Star book and job office, 1880. Agr 4—306

42 p. 22<sup>em</sup>.

**Haven, Mrs. V. Carey.** To applicants for trees to feed silk worms. [n. p., 188—]

8 p. 23<sup>em</sup>.

Caption title.

**Hazzi, von.** . . . Silk-worms. Letter from James Mease, transmitting a treatise on the rearing of silk-worms, by Mr. de Hazzi, of Munich . . . February 2, 1828. Read, and referred to the Committee on agriculture. Washington, Printed by Gales & Seaton, 1828.

Agr 4—3551

108 p. col. fold. front., fold. tab. 23<sup>m</sup>. ([U. S.] 20th Cong., 1st sess. House. Doc. no. 226)

Added t.-p.: A treatise on the culture of silk in Germany, and especially in Bavaria: or Complete instruction for the plantation and the management of mulberry trees, and the rearing of silk-worms, by the counsellor of state de Hazzi . . . Translated from the German.

The **history** of silk, cotton, linen, wool, and other fibrous substances; including observations on spinning, dyeing and weaving. Also an account of the pastoral life of the ancients, their social state and attainments in the domestic arts, with appendices on Pliny's natural history; on the origin and manufacture of linen and cotton paper; on felting, netting, &c. deduced from copious and authentic sources . . . New York, C. M. Saxton; New London, Conn., E. R. Fellows, 1853.

Agr 4—287

xxii p., 1 l., 464 p. x pl. (1 fold., 1 double) incl. front., map. 24<sup>m</sup>.

Wanting: p. vii-viii.

**Hittell, Mrs. Eliza C.** The California silk growers' instructor. By Mrs. T. H. Hittell. Published by the California silk culture association . . . San Francisco, C. A. Murdock & co., printers, 1881.

25 p. fold front. 23<sup>m</sup>.

**Homergue, John d'.** Essays on American silk, and the best means of rendering it a source of individual and national wealth, with directions to farmers for raising silk worms. By John d'Homergue . . . and Peter Stephen Duponceau . . . Philadelphia, J. Grigg, 1830.

Agr 5—156

xxii, 120 p., 1 l. 18<sup>m</sup>.

**Homergue, John d'.** The silk culturist's manual: or A popular treatise on the planting and cultivation of mulberry trees, the rearing and propagating of silk worms and the preparation of the raw material for exportation: addressed to the farmers and planters of the United States: By John d'Homergue . . . Philadelphia, Hogan & Thompson, 1839.

Agr 5—157

xxxvi, 406 p. fold. pl. 19<sup>1/2</sup><sup>m</sup>.

**Howard, Leland Ossian.** United States department of agriculture and silk culture. (U. S. Agriculture, Dept. of. Yearbook, 1903. Washington, 1904. p. 137-148. 5 pl.)

**Kelly, Henrietta Aiken.** Silkworm culture. Washington, 1902.

32 p. illus. 23<sup>m</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 165)

Article published as Bulletin 39 (new series) of the Division of entomology, to which have been added a few paragraphs of information on the culture of the mulberry, condensed from Bulletin no. 34 of the Bureau of plant industry.

**Kendo, T. A.** Treatise on silk and tea culture and other Asiatic industries adapted to the soil and climate of California, by T. A. Kendo. San Francisco, New York, A. Roman & co., 1870.

Agr 5—162

2 p. l., ii, [5]-73 p. 18<sup>m</sup>.

**Kenrick, William.** The American silk growers' guide; or, The art of raising the mulberry and silk, and the system of successive crops in each season. 2d ed., enl. and improved. By William Kenrick. Boston, Weeks, Jordan & co., 1839.

viii, [9]-167 p. 16<sup>1/2</sup><sup>m</sup>.

Agr 5—163

"List of authors and publications which have been quoted or consulted" . p. 166-167.

**Ladies' silk-culture society of California.** Memorial of the Ladies' silk-culture society of California. [n. p., 1885?]

1 p. 28<sup>m</sup>.

[Long, Ellen Call] [Silk farming] [Philadelphia, 1884]

47 p. illus. 21<sup>m</sup>.

**McKittrick, P. Wallace.** Practical silk culture in the south, for the production of silk from the silkworm, by P. Wallace McKittrick . . . Memphis, Tenn., Jones, Huhn & co., printers, 1882. Agr 4—316

11 p. 23<sup>cm</sup>.

**Mahan, Jason M.** Directions for cultivating the Italian mulberry, management of silk worms, &c. Ry Jason M. Mahan . . . Bethania, Pa., R. Chambers, printers, 1834.

16 p. 13<sup>cm</sup>.

**Mississippi silk company.** . . . Price list for the fall of 1882 and spring of 1883 . . . [Aberdeen, Miss.? 1882]

[3] p. 23<sup>cm</sup>.

Caption title.

**Morris, John G.** Additional observations on the ailanthus silk-worm of China. (U. S. Agriculture, Commissioner of. Report . . . for the year 1862. Washington, 1863. p. 390-394. 2 pl.)

**Morris, John G.** The ailanthus silk-worm of China (*Bombyx cynthia*) (U. S. Patent office. Report of the Commissioner of patents for the year 1861. Agriculture. Washington, 1862. p. 374-382)

**Neumann, Joseph.** History of the discovery in California of a native silk worm. By Prof. Joseph Neumann. San Francisco, Woodward & co., print [1887]

12 p. 11<sup>cm</sup>.

— — — Washington, D. C., Ramsey & Bisbee, printers, 1888.

Agr 4—327

31 p. incl. port. 14<sup>cm</sup>.

**The Nonotuck silk company, Florence, Mass.** Silk; its origin, culture, and manufacture; illustrated from photographs taken at the Corticelli silk mills . . . Florence, Mass., The Nonotuck silk company, 1902. 2—22203 .

62 p. front., illus. 17<sup>cm</sup>.

p. 51-62 advertising matter.

**Prevost, Louis.** California silk grower's manual, by Louis Prevost . . . San Francisco, H. H. Bancroft and company, 1867. Agr 5—228

xii, [3]-246 p. front. 18<sup>cm</sup>.

**Rienzi, Mrs. Louise.** General instructions for rearing silk-worms, with a treatise on securing healthy silkworm eggs. Also, a sketch of the habits and structure of the silkworm. By Mrs. Louise Rienzi. . . Sacramento, J. J. Ayers, supt. state printing, 1886.

21 p. illus. 22<sup>cm</sup>.

— — — Sacramento, P. L. Shoaff, supt. state printing, 1887.

39 p. illus. 17<sup>cm</sup>.

— — — Sacramento, J. D. Young, supt. state printing, 1888.

35 p. illus. 16<sup>cm</sup>.

— — — Sacramento, J. D. Young, supt. state printing, 1889.

35 p. illus. 17<sup>cm</sup>.

**Riley, Charles Valentine.** How to raise silk-worms. A brief manual of instructions, abridged from Bulletin no. 9 of the Division of entomology. By Philip Walker, chief of the Silk section . . . Washington, 1890.

16 p. illus. (U. S. Agriculture, Dept. of—Silk section. Bulletin no. 1)

**Riley, Charles Valentine.** The mulberry silk-worm; being a manual of instructions in silk-culture. Ed. 6, rev. Washington, 1886.

65 p. illus., 2 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 9)

— — — Ed. 7, rev. Washington, 1888.

62 p. illus., 2 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 9)

First five editions were published as Special report No. 11, under the title, The silkworm.

**Riley, Charles Valentine.** The silkworm; being a brief manual of instructions for the production of silk. Washington, 1879.

31 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Special report no. 11)

Passed through five editions bearing this number. The 6th and 7th editions were published as Bulletin no. 9, old series, of the Division of Entomology, under the title: The mulberry silkworm.

[**Rossiter; Nellie Lincoln**] Silk and the silk worm, a complete work of instruction on silk culture, by C. H. Rossiter. [3d ed.] Philadelphia, Pa., N. L. Rossiter, 1881. Agr 4—3599

25 p. illus. 18½<sup>em</sup>.

Cover states that work is by Nellie Lincoln Rossiter, who also signs preface.

— — — [5th ed.] Philadelphia, N. L. Rossiter, 1884. Agr 4—3600

31 p. illus. 17½<sup>em</sup>.

Cover states that work is by Nellie Lincoln Rossiter, who also signs preface.

**Schweinitz, Emil Alexander de.** Chemical examination of osage orange (*Maclura aurantiaca*) leaves, and a feeding experiment in rearing silk worms. [Easton, Pa.] 1891.

7 p. 24<sup>em</sup>.

Reprinted from the Journal of analytical and applied chemistry, vol. v, no. 2, February, 1891.

The **silk culture** in the United States: embracing complete accounts of the latest and most approved modes of hatching, rearing and feeding the silk-worm, managing a cocoonery, reeling, spinning, and manufacturing the silk, &c. &c. &c., with brief historical sketches of the silk business, natural history of the silk-worm, the mulberry, &c. compiled from the most approved and reliable works, illustrated by numerous engravings of machinery and processes. To which is added Blydenburgh's Manual of the silk culture; statistics of silk imports, &c. &c. New York, Greeley & McElrath, 1844.

80 p. illus., tab. 23<sup>em</sup>.

• **Stevens, William B.** A brief history of the silk culture in Georgia. (U. S. Patent office. Annual report of the Commissioners of patents . . . for the year 1845. Washington, 1846. p. 806-817)

From Harris's Memoirs of Oglethorpe.

**United States—Bureau of foreign commerce.** . . . Sericulture, and silk reeling from the cocoons by machinery. Cultivation of the English walnut . . . Reports from the consuls of the United States, in answer to instructions from the Department of State. Issued from the Bureau of foreign commerce, Department of State. Washington, Gov't print. off., 1899. Agr 4—344

2 p. l., 131-170 p. 5 pl. (1 fold.) 23<sup>em</sup>. (Special consular reports. vol. xv, pt. II)

**United States—Dept. of agriculture.** Silk culture. (U. S. Agriculture, Commissioner of. Report . . . for the year 1868. Washington, 1869. p. 282-304) "Silk culture in California," pp. 291-300, prepared by John S. Hittel.

**United States—Dept. of agriculture.** Silk culture. (U. S. Agriculture, Commissioner of. Report . . . for the year 1870. Washington, 1871. p. 235-241)

**United States—Dept. of agriculture—Silk section.** Report of the Silk section. (U. S. Agriculture, Dept. of. Report of the Secretary of agriculture. 1889, p. 453-476, 1890, p. 265-276. Washington, 1889-90. plates)

**United States—Patent office.** Silk. (U. S. Patent office. Annual report of the Commissioner of patents . . . for the year 1845. Washington, 1846. p. 805-875)

**United States—Treasury department.** . . . Growth and manufacture of silk. Letter from the secretary of the treasury, transmitting the information required by a resolution of the House of Representatives, of May 11, 1826, in relation to the growth and manufacture of silk, adapted to the different parts of the Union. February 7, 1828. Referred to the Committee on agriculture. Washington, Printed by Gales & Seaton, 1828. Agr 4—345

8, viii, 9-220 p. illus., v pl. (1 fold.) fold. tab. 23½<sup>em</sup>. (20th Cong., 1st sess., Ho. of Reps. Doc. no. 158)

**Utah**—*Silk commission*. Sericulture. Instruction in the art of producing silk. By the Utah silk commission. Salt Lake City, G. Q. Cannon & sons company, 1897.

Agr 4—3466

30 p. incl. illus., plates. 22½<sup>em</sup>.

**Vernon, William H.** A methodical treatise on the cultivation of the mulberry tree, on the raising of silk worms, and on winding the silk from the cocoons. United to an accurate description of the winding mill. With plates. Abridged from the French of M. de la Brousse; with notes and an appendix. By William H. Vernon . . . Boston, Hilliard, Gray, & co., 1828.

Agr 4—3622

vi, [9]—174 p. iv fold. pl. 23¼<sup>em</sup>.

**Walker, Philip.** Silk-culture report of the year's operations. Made to the entomologist. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p. 115—122. 2 pl.)

**Walker, Philip.** Silk-culture report of the year's operations. Made to the entomologist. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1888. Washington, 1889. p. 111—123. 2 pl.)

**Williams, Mrs. Carrie.** Complete instruction in rearing silkworms, also how to build and furnish cocooneries, how to plant, prune, and care for mulberry trees, together with much valuable information as to the silk industry in general; by Mrs. Carrie Williams . . . San Francisco, The Whitaker and Ray company (incorporated) 1902.

2—17042

140 p. illus. 16¼<sup>em</sup>.

**Women's silk culture association of the United States.** An instruction book in the art of silk culture, compiled by the Women's silk culture association of the United States, from various authorities and actual experiments, for the use of the women of their country whom they hope thereby to aid into the perfection of this beautiful industry in America. New and enl. ed. Philadelphia, 1882.

Agr 5—246

1 p. l., 144 p. fold. front., illus., fold. pl. 23<sup>em</sup>,

FOREIGN.

**Adams, Sir Francis Ottiwell.** Third report on silk culture in Japan by F. O. Adams . . . Published by authority of H. B. M.'s minister. August, 1870. Yokohama, Printed at the "Japan mail" office, 1870.

Agr 4—3468

1 p. l., 22 p. 7 fold. pl. (2 col.) 2 fold. maps. 23<sup>em</sup>.

**Adams, Sir Francis Ottiwell.** Troisième rapport sur la sériciculture au Japon, par M. F.-O. Adams. Lyon, Au journal le Moniteur des soies, 1871.

Agr 4—300

[3]—45, [1] p. 22¼<sup>em</sup>.

Extrait du journal Le Moniteur des soies, septembre, nos. 474, 475 & 476.

**Anca, Francesco, barone.** Sul Bombyx cynthia e sul ricino, del barone Francesco Anca . . . Palermo, Tipografia di B. Lima e Lao, 1856.

Agr 4—301

24 p. 21<sup>em</sup>.

**Association séricicole pratique du bassin du Rhône.** Association séricicole pratique du bassin du Rhône pour l'amélioration des races de vers à soie domestiques, principalement des races depuis longtemps acclimatées dans le midi de l'Europe, dites races de pays. Lyon, Impr. commerciale de Pitrat aîné, 1867.

31 p. 25<sup>em</sup>.

Il baco o filugello; brevi cenni pratici pel coltivatore del baco da seta e confezionatore del seme. Pubblicazione edita dal giornale la Seta . . . Milano, La Seta, 1884.

24 p. 25<sup>em</sup>.

**Balbani, Édouard Gérard.** . . . Rapport sur les insectes utiles, par MM. Balbani et Maillot. Paris, Imprimerie nationale, 1881.

Agr 4—3476

2 p. l., 56 p. 25<sup>em</sup>.

At head of title: Ministère de l'agriculture et du commerce. Exposition universelle internationale de 1878 à Paris. [Rapports du jury international] Groupe VIII.—Classe, 83.

**Baleriola, Gabriel.** Cartilla par la propagación de la morera y cría del gusano de seda. Dedicada á los agricultores de España por Gabriel Baleriola. 1. ed. . . Murcia, Imp. de "Las provincias de Levante," 1897.

**Bárcena, Mariano.** La industria sericícola en el estado de Jalisco. Informe presentado al Sr. secretario de fomento por Mariano Bárcena . . . Mexico, Oficina tip. de la Secretaría de fomento, 1891. Agr 4—194  
40 p. 22½<sup>em</sup>.

**Barham, Henry.** An essay upon the silk-worm: containing many improvements upon this curious subject; together with large collections from the most approved authors . . . By Henry Barham . . . London, Printed for J. Bettenham and T. Bickerton, 1719. Agr 4—195  
6 p. l., 180, [7] p. 17<sup>em</sup>.

**Bavier, Ernest de.** La sériciculture, le commerce des soies et des graines et l'industrie de la soie au Japon, par Ernest de Bavier . . . Lyon, H. Georg; [etc, etc.] 1874.  
viii, 157 p., 1 l. 5 fold pl., 2 fold. diagr., fold. map. 27½<sup>em</sup>.

**Beaurepère, C. F.** Rapport fait au comité central d'agriculture de la Côte-d'Or, par M. Beaurepère . . . sur une éducation de vers à soie dirigée et suivie à Marsannay-la-Côte par MM. Beaurepère et Lapertot . . . [Dijon, Imp. de Simonnot-Carion, 1836] Agr 4—3480  
29 p. 22<sup>em</sup>.

Caption title.

**Beauvais, Camille.** Lettre à M. Bonafous sur la culture du mûrier et l'éducation du ver à soie dans le Département de Seine-et-Oise, par M. Camille Beauvais . Paris, Mme. Huzard (née Vallat la Chapelle) 1833.  
12 p. 22<sup>em</sup>.

Extrait des Annales de l'agriculture française, 3 sér., tome XII, octobre, 1833.

**Beeton, Samuel Orchart.** Bees, silkworms. *See under* Apiculture, p. 94.

**Bellati, M.** Sur l'éclosion anticipée des œufs du ver-à-soie par le Prof. M. Bellati et le D<sup>r</sup> E. Quajat. (Résumé des auteurs) Turin, H. Loescher, 1896.

16 p. 23½<sup>em</sup>.

Caption title.

Extrait des Archives italiennes de biologie. tome xxv, fasc. II.

[**Blain, F.**] Rapport sur une éducation en Anjou du ver du chêne ou Bombyx yama-mai, faite en 1863. [n. p., 1864?]

20 p. 3 pl. 25<sup>em</sup>.

Caption title.

Signed: F. Blain.

**Blanchon, H. L. Alphonse.** . . Manuel pratique du sériculteur, par H.-L.-Alphonse Blanchon . . . Paris, C. Amat, 1905. Agr 5—290

144 p. 18½<sup>em</sup>.

**Blaquiere, Dora de.** The silk industry in Ireland and England. By Dora de Blaquiere . . . [Philadelphia? 188—]

4 p. 24<sup>em</sup>.

Caption title.

**Bolle, Giovanni.** . . . Atti della Commissione per lo studio dei provvedimenti da prendersi per migliorare le condizioni del commercio dei bozzoli nel Goriziano, e relazione di G. Bolle. [Gorizia, Tip. Paternolli, 1886]

7 p. 25<sup>em</sup>.

Caption title.

Estratto dagli "Atti e memorie" [dell' I. R. Società agraria di Gorizia]—n. 6, anno 1886.

**Bolle, Giovanni.** La bachicoltura nel Giappone, di Giovanni Bolle . . . con un' appendice dello stesso autore: Il giallume o il mal del grasso del baco da seta, una malattia parasitaria . . . Pubblicazione fatta per incarico dell' I. R. Ministero d' agricoltura. Gorizia, Stab. tip. G. Paternolli ed., 1898.

vi, 134 p., 1 l. illus., 19 pl. 24<sup>em</sup>.



**Bolle, Giovanni.** Il commercio dei bozzoli nel Goriziano, suoi inconvenienti e mezzi eventuali per rimediarvi, di G. Bolle. [Gorizia, Tip. Paternolli, 1886]

13 p. 23 $\frac{1}{2}$ <sup>em</sup>.

Caption title.

**Bolle, Giovanni.** . . . L'istruzione nella bachicoltura presso l' I. R. Istituto sperimentale di bachicoltura ed enologia in Gorizia, di G. Bolle. [Gorizia, Tip. Paternolli, 1888]

14 p. 23<sup>em</sup>.

Caption title.

Estratto dagli "Atti e memorie" [dell' I. R. Società agraria di Gorizia] n. 8 del 1888.

"Versione italiana dell' eguale articolo pub. nel 2. fasc. della "Land- und forstwirthschaftliche unterrichtszeitung, jahrg. II 1888 . . ."

**Bolle, Giovanni.** Istruzione per l' allevamento razionale del baco da seta, di Giovanni Bolle . . . Gorizia, Tipografia G. Paternolli, 1882.

20 p. illus., 2 double tab. 26 $\frac{1}{2}$ <sup>em</sup>.

" Pubblicazione fatta per cura dell' I. R. Società agraria di Gorizia."

**Bolle, Giovanni.** . . . Kurze anleitung zur rationellen aufzucht der seidenraupe, von Johann Bolle . . . 2. erweiterte aufl. Hrsg. vom Kön. Ung. Ministerium für ackerbau, handel und industrie. Budapest, Pester buchdruckerei-actiengesellschaft, 1882.

Agr 4—3486-7

35 p. illus., 2 col. pl. 25 $\frac{1}{2}$ <sup>em</sup>.

At head of title: Deutsche ausgabe.

— — — 3. erweiterte aufl. Szegzárd, Gedruckt bei J. Báter, 1889. Agr 4—3486-7

34 p. illus. 25 $\frac{1}{2}$ <sup>em</sup>.

At head of title: Deutsche ausgabe.

**Bolle, Giovanni.** Der seidenbau in Japan, von Johann Bolle . . . Nebst einem anhang von demselben verfassner, Die gelb- oder fettsucht der seidenraupe, eine parasitäre krankheit . . . Veröffentlicht im auftrage des Kön. Ung. ackerbauministeriums. Budapest [etc.] A. Hartleben, 1898.

Agr 4—36

ix, 141 p. illus. 27<sup>em</sup>.

**Bolle, Giovanni.** . . . Der seidenspinner des maulbeerbaumes, seine aufzucht, seine krankheiten und die mittel zu ihrer bekämpfung. Vortrag, gehalten den 7. december 1898 von Johann Bolle . . . Wien, Selbstverlag des Vereines zur verbreitung naturwissenschaftlicher kenntnisse, 1899.

Agr 3—889

39 p. illus., fold. pl. 19<sup>em</sup>. (Vorträge des Vereines zur verbreitung naturwissenschaftlicher kenntnisse in Wien. xxxix. jahrg. hft. 4)

[**Bolle, Giovanni**] . . . Il sesto Congresso bacologico internazionale di Parigi. [Gorizia, Tip. Seitz, 1878]

12 p. 23<sup>em</sup>.

Caption title.

Signed: G. Bolle.

Estratto dal periodico "Atti e memorie" dell' I. R. Società agraria di Gorizia, n. 12, del 1878.

**Bolle, Giovanni.** Der unterricht in der seidenzucht an der K. K. Versuchstation für seidenzucht und weinbau in Görz. Von Johann Bolle . . . Wien, Aus der Kaiserlich-königlichen hof- und staatsdruckerei, 1888.

Agr 4—3488

12 p. 26 $\frac{1}{2}$ <sup>em</sup>.

**Bonafous, Matthieu.** Mémoire sur une éducation de vers à soie, ou, journal d'une magnanerie, par Matthieu Bonafous . . . 3. éd. Paris, Madame Huzard; [etc., etc.] 1826.

Agr 4—3489

20 p. 23<sup>em</sup>.

**Bonafous, Matthieu.** Traité de l'éducation des vers à soie et de la culture du mûrier, suivi de divers mémoires sur l'art séricicole; par M. Matthieu Bonafous . . . 4. éd., rev. et augm. Paris, L. Bouchard-Huzard, 1840.

4—10188

viii p., 1 l., 547 p. v pl. (incl. col. front.) 21 $\frac{1}{2}$ <sup>em</sup>.

CONTENTS.—I. De l'éducation des vers à soie d'après la méthode du comte Dandolo.—II. Journal d'une éducation de vers à soie.—III. De l'emploi du chlorure de chaux pour purifier l'air des ateliers de vers à soie.—IV. Avis aux cultivateurs sur une espèce de ver à soie à trois récoltes.—V. De la cul-

ture du mûrier.—**VI.** Mémoire sur la feuille du mûrier greffé comparée à celle du mûrier sauvage relativement au ver à soie.—**VII.** Mémoire sur la culture du mûrier en taillis et sur l'introduction d'une nouvelle espèce de mûrier.—**VIII.** Des feuilles du *Maclura aurantiaca*, comme succédanées de celles du mûrier.—**IX.** De la greffe du mûrier blanc sur le mûrier des Philippines.—Lettres sur la culture du mûrier et l'éducation des vers à soie, adressées à M. Bonafous par divers agronomes: Lettre . . . par M. Camille Beauvais. Huit lettres . . . par M. Amans Carrier. Lettre . . . par M. le comte Villa de Montpascal.

**Boullenois, Frédéric de.** Conseils aux nouveaux éducateurs de vers à soie, résumé des méthodes et des pratiques à suivre pour planter des mûriers, construire des magnaneries, élever les vers à soie et filer les cocons; par M. Frédéric de Boullenois . . . Paris, M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard, 1842. Agr 4—137-9

2 p. l., xi, 216 p. 3 pl. (2 fold.) 21<sup>cm</sup>.

— — — 2. éd. Paris, M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard, 1851. Agr 4—137-9

viii, 224 p. illus., 2 fold. pl. 22<sup>cm</sup>.

— — — 3. éd. Paris, M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard, 1875. Agr 4—137-9

2 p. l., 248 p. illus., 3 fold. pl. 22<sup>cm</sup>.

**Bourdon, Henri.** Industrie des soies. Rapport présenté à Monsieur le ministre des travaux publics, de l'agriculture et du commerce, par M. Henri Bourdon . . . suivi de considérations générales sur les diverses applications des procédés de ventilation, par M. d'Arcet . . . [Paris] Imprimé par ordre de M. le ministre du commerce, 1838. Agr 4—258

68 p. 23<sup>cm</sup>.

**Bourdon, Henri.** . . . Rapport sur l'état de l'industrie séricicole, dans le midi de la France, lu dans la séance du 25 janvier 1837; par M. Henri Bourdon . [Paris, Impr. de M<sup>me</sup> Huzard (née Vallat la Chapelle) 1837] Agr 4—3491

28 p. fold. plan. 22<sup>cm</sup>.

'Extrait des Mémoires de la Société royale et centrale d'agriculture, année 1837.'

**Bourgnon de Layre, Antonin, baron.** . . . Rapport sur la situation de l'industrie séricicole dans le Département de la Vienne en 1840; fait à la Société, au nom d'une commission spéciale, par M. le baron Bourgnon de Layre . . . Poitiers, De l'imprimerie de F.-A. Saurin, 1840. Agr 4—3492

2 p. l., 62 p. 22½<sup>cm</sup>.

At head of title: Société d'agriculture, belles-lettres, sciences et arts de Poitiers, séances des 5 août et 18 novembre 1840.

**Boyer, François.** De la culture du mûrier, Par MM. F. Boyer . . . et G. de Labaume . . . Nîmes, Impr. C. Durand-Belle, 1845. Agr 4—302

150 p. 3 fold. pl. 21<sup>cm</sup>.

Cover has date: 1847.

**Brunet de la Grange.** . . . Rapport de M. Brunet de la Grange à M. le ministre de l'agriculture et du commerce. [Paris, Impr. de M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard] 1841.

61 p. 24½<sup>cm</sup>.

Extrait des Annales de la Société séricicole.

**Butler, Edward Albert.** . . . Silkworms. By Edward A. Butler . . . London, S. Sonnenschein, Lowrey, & Co., 1888. Agr 4—3501

2 p. l., 100 p. illus. 18½<sup>cm</sup>. (Young collector series)

**Campbell, Walter Scott.** . . . Report on silk culture: its general history and productiveness; introduction and progress in various countries; together with its acclimatisation in Australia, and peculiar features in this colony. By Walter Scott Campbell, F. L. S. Sydney, C. Potter, government printer, 1893. Agr 4—260

2 p. l., 67 p. fold. pl. 24½<sup>cm</sup>.

At head of title: New South Wales.

**Campbell, Walter Scott.** . . . Sericulture. (Report by Mr. W. S. Campbell, F. L. S., on) Ordered by the Legislative assembly to be printed, 21 March, 1893. [Sydney, C. Potter, government printer, 1893] Agr 4—487

46 p. pl. 33½<sup>cm</sup>.

Caption title.

At head of title: 1892-3. Legislative assembly. New South Wales.

Also pub. under title: Report on silk culture.

**Caron, Quentin.** . . . Notice historique sur l'origine et les progrès de l'industrie séricicole, en Europe, et notamment en France, par M. l'abbé Caron. [n. p., 1840?] 18 p. 21<sup>cm</sup>.

Caption title.

At head of title: Société royale d'agriculture et des arts de Seine-et-Oise.

**Chambon, Hipólito.** Tratado comparativo de sericultura adaptado á las condiciones climatológicas de la república Mexicana comprendiendo la historia de esa industria en Asia, Europa y América, por Hipólito Chambon. México, Oficina tip. de la Secretaría de fomento, 1888. 85 p. 19<sup>cm</sup>.

Agr 4—262

**Chamecin.** Rapport de la Commission séricicole à l'Exposition universelle de Lyon. Projet d'une station séricicole à Lyon, par M. Chamecin . . . Lyon, Moniteur des soies, 1872. 12 p. 26<sup>cm</sup>.

Agr 4—3506

Présentés au Congrès viticole et séricicole, tenu à Lyon, du 8 au 15 septembre 1872, sous les auspices de la Société des agriculteurs de France.

**Charrel, J.** Traité des magnaneries par J. Charrel . . . Paris, E. Marc-Aurel; [etc., etc.] 1848. xxiii, 110 p., 1 l., 187, [3] p. 13 pl. (1 fold. & col.) 24<sup>1/2</sup>cm.

Agr 4—263

**China—Inspector general of customs** . . . Silk. Published by order of the Inspector general of customs. Shanghai, Statistical department of the Inspectorate general, 1881. v, 163, [1] p. 34 pl. (33 col., 8 fold) map. 28<sup>cm</sup>. (China. Imperial maritime customs. II.—Special series: no. 3)

Agr 4—265

**Clugnet, Léon.** Géographie de la soie étude géographique et statistique sur la production et le commerce de la soie en cocon par Léon Clugnet . . . Mémoire couronné par la Société de géographie de Lyon. Lyon, Secrétariat de la Société de géographie, 1877. x, 201 p. 25<sup>cm</sup>.

x, 201 p. 25<sup>cm</sup>.

**Cobelli, Ruggero.** Altre contribuzioni alla teratologia del bombice del gelso, per il Dr. Ruggero Cobelli . . . Rovereto, Stab. tip. V. Sottochiesa, 1873. 11 p. 4 fold. pl. (1 col.) 20<sup>1/2</sup>cm.

Agr 4—3514

Estratto dal Giornale agrario di Rovereto, n. 21 & 22.—Anno 1873.

**Cobelli, Ruggero.** Teratologia del bombice del gelso, per il Dr. Ruggero Cobelli . . . Rovereto, Dallo stab. tip. di V. Sottochiesa, 1874. 21 p. pl. 23<sup>1/2</sup>cm.

Agr 4—3515

Estratto dal Giornale agr. di Rovereto n. 10 & 11. Anno 1874.

**Como, Italy. R. Istituto tecnico e scuola di setificio.** Il R. Istituto tecnico e la scuola di setificio in Como. Como, Tipografia municipale di A. Giorgetti, 1878. 52, [7] p. 23<sup>cm</sup>.

Agr 4—3516

**Congrès séricicole international, de Milan,** 1876. Congrès séricicole international de Milan. [Compte-rendu] Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1876. 60 p. 26<sup>1/2</sup>cm. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture [1. sér., 2. fasc.]

Agr 4—303

**Congrès séricicole international, Rovereto,** 1872. . . Du chauffage des magnaneries . . . Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1875. 57 p. 26<sup>1/2</sup>cm. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires & documents sur la sériciculture [1. sér., 1. fasc.]

Agr 4—304

Extrait des Actes du Congrès séricicole international tenu en 1872 à Rovereto. (Atti e memorie, etc., Rovereto, 1873)

**Cornalia, Emilio.** . . . Expériences sur l'accouplement des papillons du bombyx du mûrier par Emilio Cornalia . . . Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1875. 22, [2] p. 26<sup>1/2</sup>cm. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture. [1 sér., 1 fasc.]

Agr 4—305

22, [2] p. 26<sup>1/2</sup>cm. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture. [1 sér., 1 fasc.]

- Cornalia, Emilio.** Monografía del bombice del gelso (*Bombyx mori* Linnee) di Emilio Cornalia . . . [Milano, 1856]  
387 p. xv pl. (partly fold., 1 col.) 32<sup>em</sup>.  
Caption title.  
"Bibliografía:" p. 54-87.  
From Mem. I. R. Instituto Lombardo, v. 6.
- Cotes, Everard Charles.** . . . Silk. Published under the authority of the government of India. Calcutta, Office of the superintendent of government printing, India, 1893. Agr 4-3518  
2 p. l., 9 p., 19 l. xix pl. 25<sup>em</sup>. (Imperial institute series. Handbooks of commercial products, Indian section. no. 23)
- Cotes, Everard Charles.** . . . Silk worms in India. Published by authority of the government of India, Revenue and agricultural department, Calcutta. Agr 4-3519  
cover-title, 1 p. l., [129]-173 p. viii-xi pl. 25<sup>em</sup>. (Indian museum notes. Issued by the trustees. vol. i, no 3)
- Dandolo, Vincenzo, conte.** L'art d'élever les vers à soie par M. le comte Dandolo . . . tr. de l'italien, rev. et augm. par F. Philibert Fontaneilles. 7. éd. avec plusieurs planches et le tableau synoptique d'une magnanerie modèle d'après le système de ventilation d'Arcet, appliqué à un local dont l'agencement se démonte à volonté de manière à ce que l'atelier puisse servir à tout autre usage avant et après l'éducation des vers à soie, par M. Brunet de la Grange . . . Paris, Magnin, Blanchard et c<sup>e</sup>, 1866. Agr 4-269  
384 p. ii fold. pl., 2 fold. tab. 22<sup>em</sup>.
- Dandolo, Vincenzo, conte.** The art of rearing silk-worms. Tr. from the work of Count Dandolo. London, J. Murray, 1825. Agr 5-145  
xxiv, 365, [2] p. front., ii pl., 2 fold. tab. 20½<sup>em</sup>.  
Plates wanting.
- Darbousse, Antoine.** Sériciculture; guide de l'éducateur, par A. Darbousse . . . 2. éd. rev. . . . Alais, Impr., lithographie A. Bruguierolle, 1883. Agr 4-3521  
15 p. 19<sup>em</sup>
- Darcet, Félix.** Description d'une magnanerie salubre, au moyen de laquelle on pourra toujours procurer aux vers à soie le degré de ventilation, de chaleur et d'humidité le plus convenable pour la réussite de leur éducation, et d'un appareil pour sécher les feuilles de mûrier mouillées ou humides, par M. d'Arcet . . . suivie d'un rapport de M. Soulange Bodin sur une éducation de vers à soie, faite en 1835, par M. Camille Beauvais . . . et d'un mémoire sur l'industrie de la production des soies, par M. Henri Bourdon. Paris, Madame Huzard (née Vallat la Chapelle), 1836. Agr 4-257  
48 p. 5 fold. pl. 26½<sup>em</sup>.
- Darrah, H. Z.** The eri silk of Assam. By H. Z. Darrah . . . Shillong, Printed at the Assam secretariat press, 1890. Agr 4-270  
1 p. l., 40 p. 24½<sup>em</sup>.
- Delprino, Michel.** La nouvelle sériciculture, enrichie de 20 planches démonstratives avec laquelle l'éducation des vers à soie a été changée en agréable passe-temps avec le gain du 15 p. % sur les systèmes en usage, par le chev. M. Delprino . . . Acqui, Typographie Borghi, 1867. Agr 4-271  
1 p. l., 66, [6], 67-80, 7, [4], p. 19 pl. (4 fold.) fold. tab. 21<sup>em</sup>.
- Delprino, Michel.** Perte dans le produit de la soie par suite des défauts des systèmes [!] usuels et appréciation des nouvelles méthodes cellulaires-isolatrices après 5 années d'espérances [!] démontrée par un rapport du gouvernement, par le chev. M. Delprino . . . Acqui, Typographie Borghi, 1867. Agr 4-3526  
32 p. 2 tab. (1 double, 1 fold.) 20½<sup>em</sup>.
- Dickins, Thomas.** Silk supply: a guide to sericulture. By Thomas Dickins . . . London, Published by the Silk supply association, 1869. Agr 5-146  
35, [1] p. 21<sup>em</sup>.

**Du Halde, Jean Baptiste.** Des soieries et des vers à soie en Chine, par le P. J.-B. du Halde . . . Montpellier, C. Coulet, 1789.

Agr 4—3527

87, [1] p. 274<sup>om</sup>.

Extrait du tom. II de la Description géographique, historique, chronologique, politique et physique de la Chine et de la Tartarie chinoise . . . 1785.

**Dumas, J.** Rapport adressé à M. le préfet de la Drôme sur les expériences de sériciculture de M. Sauvageon . . . par M. Dumas . . . Valence, Impr. J. Céas, S<sup>r</sup> de M. Aurel, 1862.

10 p. 214<sup>om</sup>.

**Duplat, P.** Sériciculture, soies & soieries. Inventaire de 1873-76, par P. Duplat . . . Lyon, Moniteur des soies, 1874-77.

4 nos. in 1 v. 214<sup>om</sup>.

1875-76, have title: Inventaire de 1875-76, sériciculture, soies &amp; soieries.

**Dupuy de Lome, Enrique.** La seda, su cultivo y su producción en el imperio Japonés, por Don Enrique Dupuy de Lome. (Publicado por el Ministerio de fomento.) Madrid, Imprenta de T. Fortanet, 1875.

Agr 4—3528

51 p. 264<sup>om</sup>.

**Duseigneur-Kléber, Édouard.** . . . Le cocon de soie, histoire de ses transformations, description des races civilisées et rustiques, production et distribution géographiques, maladies des vers à soie, physiologie du cocon et du fil de soie . . . 2. éd. entièrement rev. et augm. de 8 planches et d'un texte considérable. Paris, J. Rothschild, 1875.

Agr 4—273

254 p., 1 l. front., xxvi pl., fold. map. 28<sup>em</sup>.

At head of title: Duseigneur-Kléber.

**Dusuzeau, Jules.** Économie nouvelle dans l'élevage des vers à soie. Pratiques perfectionnées pour obtenir les cocons à bon marché . . . par J. Dusuzeau . . . Lyon, H. Georg, 1881.

30 p., 2 l. 3 pl. 23<sup>em</sup>.

**Edwardes, M.** . . . Silkworms. A complete treatise on the mulberry-leaf and oak-leaf silkworms. By M. Edwardes. London, Dean & son [1898?]

62 p. illus. 184<sup>om</sup>. (Dean's practical guide books)

**France—Commission des soies.** Rapport de la Commission des soies sur ses opérations de l'année 1868. Membres de la Commission des soies MM. Pariset, président; Jourdan, Joannon, Fournet, Durand, Biérix, Billoud, Piaton (C.), Locard, Tabourin, Guinon, Sauzey, Charvériat, Perret, Paul Eymard, secrétaire-rapporteur. Lyon, Imprimerie administrative de Pitrat aîné, 1868.

Agr 4—278

2 p. 1., 32 p., 1 l. 244<sup>om</sup>.

**France—Ministère de l'agriculture et du commerce.** . . . Rapports publiés par le Ministère de l'agriculture et du commerce, Direction de l'agriculture, 1870. De la sériciculture (inspection de 1869) Rapport de M. de Chavannes de la Giraudière. Conseils aux éducateurs, par M. de Chavannes de la Giraudière. Rapport de M. Guérin-Méneville. Le bombyx de l'ailante, par M. Guérin-Méneville. L'ailanticulture, par M. Guérin-Méneville. Instruction sur l'emploi du microscope, par M. de Lachadenède. Paris, V. Masson et fils [1870]

Agr 4—279

2 p. 1., 146 p. 26<sup>em</sup>.

**Franceschini, Felice.** . . . Guida pratica del coltivatore di bachi da seta. 2. ed. Milano, Ditta Brigola di G. Ottino e c., 1883.

Agr 4—3535

2 p. 1., 137, [2] p. illus. 184<sup>om</sup>.

**Franceschini, Felice.** Sulla conservazione del seme, memoria presentata al comitato ordinatore del Congresso bacologico internazionale in Milano il giorno 8 settembre 1876 da Felice Franceschini. [Milano] Coi tipi di G. Bernardoni [1876?]

8 p. 234<sup>om</sup>.

"Estratto degli Atti e memorie della quinta tornata del Congresso bacologico internazionale."

**Galfard, Marius.** Petit traité sur le ver à soie du mûrier, son éducation et ses diverses maladies, par Marius Galfard . . . Manosque, Impr. Demontoy, 1885.

28 p., 2 l. 15<sup>em</sup>.

Agr 4—3537

**Gennadius, P. G.** Instructions to the silk-worm rearers and silk-worm-egg producers of Cyprus. *Οδηγία διὰ τοὺς βομβυκοτροφούς καὶ σποροπαραγωγούς τῆς Κύπρου, ὑπὸ Π. Γ. Γενναδίου, διευθυντοῦ τῆς γεωργίας. ἐν Λευκωσίᾳ, τυποίς "Φωνῆς τῆς Κύπρου,"* 1898.

1 p. l., 71, [1] p., 11. 23<sup>cm</sup>.

**Geoghegan, J.** Silk in India. Some account of silk in India, especially of the various attempts to encourage and extend sericulture in that country. Comp. by J. Geoghegan . . . Calcutta, Office of the superintendent of government printing, 1872.

1 p. l., vi, ix, 126, 15 p. 33<sup>cm</sup>.

Agr 4—280-1

— — 2d ed. Calcutta, Office of the superintendent of government printing, 1880.

xxiii, 177 p. 24<sup>cm</sup>.

Agr 4—280-1

**Girard, Maurice.** Les auxiliaires du ver à soie; conférence faite au Jardin d'acclimatation le 16 juillet 1863, par M. Maurice Girard . . . Paris, J. B. Baillière et fils; [etc., etc.] 1864.

30 p. 24<sup>cm</sup>.

"Index des documents à consulter": p. [27]-30.

"Extrait du Bulletin de la Société impériale d'acclimatation. (N<sup>o</sup> d'avril, mai, juin et juillet 1864)"

**Givelet, Henri.** L'ailante et son bombyx; culture de l'ailante, éducation du ver que cet arbre nourrit, valeur et emploi de la soie qu'on en tire, par Henri Givelet. Ouvrage orné de plusieurs plans et de 14 planches coloriées, dessinées d'après nature par Ch. Millon de Montherlant. Paris, Librairie agricole de la Maison rustique [1866]

4—10169

xxv, 164 p. xix pl. (partly col.) 25<sup>cm</sup>.

**Gobin, Alphonse.** Précis élémentaire de sériciculture pratique. Mûriers & vers à soie, production, industrie, commerce de la soie, par A Gobin . . . Paris, Librairie Audot, Niclaus et c<sup>ie</sup> successeurs, 1874.

Agr 4—282

2 p. l., 269 p. illus. 18<sup>cm</sup>.

**Göritz, Austria. I. R. Istituto sperimentale di bachicoltura ed enologia.** L' I. R. Istituto sperimentale di bachicoltura ed enologia di Gorizia. [Gorizia, Tip. Paternolli, 1881]

15, [1] p. 24<sup>cm</sup>.

Caption title.

"Elenco delle pubblicazioni dell' I. R. Istituto . . ." p. [10]-15.

**Göritz, Austria. I. R. Istituto sperimentale di bachicoltura ed enologia.** Tariffa degli esami microscopici e delle analisi chimiche che si eseguiscano all' I. R. Istituto sperimentale di bachicoltura ed enologia in Gorizia. Gorizia, Tipografia Paternolli, 1888.

24 p. 23<sup>cm</sup>.

"Estratto dal n. 1-2 degli "Atti e memorie" dell' I. R. Società agraria di Gorizia."

**Guérin-Méneville, Félix Édouard.** . . . Association séricicole pour la fondation, à la ferme impériale de Vincennes (annexe), d'un laboratoire central de sériciculture comparée des sociétés agricoles de France et de l'étranger; établissement où seront instituées des expériences théoriques et pratiques sur toutes les espèces de vers à soie . . . par M. F. E. Guérin-Méneville. Paris, Bureau de la Revue de sériciculture comparée et de la Revue et magasin de zoologie, 1863.

Agr 4—3543

15, [1] p. 22<sup>cm</sup>.

"Extrait de la Revue de sériciculture comparée. 1. cahier.—janvier 1863."

**Guérin-Méneville, Félix Édouard.** Essai sur les lépidoptères du genre Bombyx qui donnent ou qui donneront de la soie . . . Paris, 1847.

Agr 4—3544

1 p. l., [447]-482 col. 24<sup>cm</sup>.

Extrait de l'Encyclopédie moderne, t. vii, col. 448 à 482.

**Guérin-Méneville, Félix Édouard.** Industrie séricicole. Compte-rendu général des travaux exécutés à la magnanerie expérimentale de S<sup>te</sup>-Tulle (Basses-Alpes), par MM. Guérin-Méneville et Eugène Robert . . . [Marseille, Typ. et lith. Barlatier-Feissat et Demonchy, 1853]

Agr 4—3545

36 p. 23<sup>cm</sup>.

Caption title.

Lu à l'Académie des sciences dans les séances du 24 octobre et du 7 novembre 1853.

**Guérin-Méneville, Félix Édouard.** Production de la soie. Situation. Maladies et amélioration des races du ver à soie . . . Paris, 1857.

32 p. 21<sup>cm</sup>.

"Extrait de la Revue et magasin de zoologie, XIX. année, n° 1.—1857."

**Guérin-Méneville, Félix Édouard.** Rapport à S. M. l'empereur sur les travaux entrepris par ses ordres pour introduire le ver à soie de l'aylanthe en France et en Algérie, par F. E. Guérin-Méneville . . . Paris, Imprimé par autorisation de M. le garde des sceaux à l'Imprimerie impériale, 1860.

Agr 4—285

2 p. 1., 99, [1] p. 24<sup>cm</sup>.

**Guérin-Méneville, Félix Édouard.** . . . Recherches sur les vers à soie sauvages et domestiques . . . 2. article. Introduction et acclimatation en Europe du Bombyx cynthia. [Paris, 1854]

16 p. fold. pl. 21<sup>cm</sup>.

Extrait du Bulletin de la Société zoologique d'acclimatation. no. 7. Septembre 1854.

**Guérin-Méneville, Félix Édouard.** Sur l'industrie de la soie en Algérie et sur le ver à soie du vernis du Japon introduit en France et en Algérie, par M. Guérin-Méneville. Communication faite à la Société impériale zoologique d'acclimatation (Comité de l'Algérie) présidée par M. Géry, préfet d'Alger. Extrait du procès-verbal de la séance du 10 septembre 1859 par M. Roucher . . . [Paris, 1859]

8 p. 20<sup>cm</sup>.

Caption title.

**Hauterive, H.** Étude comparative des systèmes d'étouffage et de conservation des cocons . . . Lyon, 1890.

Agr 4—3549

31, [1] p. illus. 21<sup>cm</sup>.

Extrait du Moniteur des soies.

**Hedde, Isidore.** Répertoire sérитеchnique et éphémérides de la production de la soie tant de la Chine et du Japon que des autres pays sérifères, de Lyon surtout, par Isidore Hedde. Lyon, Le moniteur des soies, 1880.

Agr 4—307

141, [1] p. illus. 22<sup>cm</sup>.

**Heintl, Franz, ritter edler von.** Anleitung den seidenbau im freyen zu betreiben, und mit der üblichen seidenraupen-zucht im zimmer in eine sehr nützliche Verbindung zu bringen. Von dem k. k. hof- und gerichtsadvakaten, der sämtlichen rechte doktor Franz ritter edlen von Heintl. Wien, Auf kosten des verfassers, 1815.

109 p. 20<sup>cm</sup>.

Agr 4—286

**Heintl, Franz, ritter edler von.** Unterricht im seidenbaue. Von Franz ritter von Heintl . . . Wien, Auf kosten des verfassers, 1829.

Agr 4—308

3 p. 1., 163 p. 20<sup>cm</sup>.

**Herbelin, Jules.** De l'élevage des vers à soie. [n. p., n. d.]

17 p. 22<sup>cm</sup>.

**Historique et situation de la sériciculture et de la filature dans le royaume de Hongrie en 1900.** [Lyon, Paris, Imp. B. Arnaud, 1900?]

16 p. illus. incl. plan. 21<sup>cm</sup>.

Caption title.

Published for Exposition universelle de Paris 1900.

[**Hodgson, G. C.**] Report on the sericultural experiments carried on at Alipore by the Silk committee since the year 1891-92. [Calcutta? 1895]

cover-title, 10 p. 24<sup>cm</sup>.

Report signed by G. C. Hodgson, Secretary, Silk committee.

**India—Bengal—Agricultural dept.** Note on some questions connected with silk production and trade in Bengal. [n. p., 1887]

51 p. 29 $\frac{1}{2}$ cm.

Caption title.

Wanting apx. C, p. 27-36; apx. E, p. 41-50.

**India—Central Provinces—Chief commissioner.** . . . Silk. <Dictionary of economic products, vol. VI, pt. III. (Tasar silk), S. 1872-82> Tasar silk production in the Central Provinces. Resolution issued by the Chief commissioner in 1892 . . . Calcutta, 1893.

3 p. 24 $\frac{1}{2}$ cm. (The agricultural ledger. 1893—no. 9. Entomological series, no. 2)

**Indian museum, Calcutta.** List of the silk-producing lepidopterous insects recorded from the province of Assam. [Calcutta, Government of India central printing office, 1887]

2 p. 30cm.

— — reported from Bengal. [Calcutta, Government of India central printing office, 1887]

2 p. 30cm.

— — recorded from the presidency of Bombay. [Calcutta, Government of India central printing office, 1887]

1 l. 30cm.

— — recorded from British Burmah. [Calcutta, Government of India central printing office, 1887]

1 l. 30cm.

— — recorded from the Madras presidency. [Calcutta, Government of India central printing office, 1887]

1 l. 30cm.

— — recorded from the North-western Provinces and Oudh. [Calcutta, Government of India central printing office, 1887]

2 p. 30cm.

— — recorded from the Punjab. [Calcutta, Government of India central printing office, 1887]

1 l. 30cm.

**L'industrie séricicole en Annam d'après les rapports de MM. les résidents de France au Phu-yen et à Qui-nhon en Annam** . . Hanoi, 1899.

1 p. l., 13, [1] p. 29cm.

Extrait de la Revue indo-chinoise.

**Italy—Ministero d' agricoltura, industria e commercio.** Statistica del regno d' Italia. Industria manifattrice. Trattura della seta nell' anno 1863-[64] (Ministero d' agricoltura, industria e commercio) Torino, Tipografia di E. Dalmazzo, 1864-65.

2 nos. 25 $\frac{1}{2}$ cm.

Imprint of 1864: Firenze, Tipografia Tofani, 1865.

**Jacob de Cordemoy, Hubert.** Les soies dans l'extrême orient et dans les colonies françaises; les vers à soie et leurs similaires, par le Dr. Hubert Jacob de Cordemoy . . . Paris, A. Challamel, 1902.

2 p. l., 111, [1] p. col. front. 25 $\frac{1}{2}$ cm. (Produits naturels des colonies et cultures tropicales) 2-25382

**Julien, Stanislas Aignan, tr.** Résumé des principaux traités chinois sur la culture des mûriers et l'éducation des vers à soie, tr. par Stanislas Julien . . . Publié par ordre du ministre des travaux publics, de l'agriculture et du commerce. Paris, Imprimerie royale, 1837.

xxii p., 3 l., 224 p. 10 pl. 29 $\frac{1}{2}$ cm.



**Julien, Stanislas Aignan**, *tr.* Summary of the principal Chinese treatises upon the culture of the mulberry and the rearing of silk worms. Tr. from the Chinese. Washington, P. Force, 1838. Agr 4—310

2 p. l., 198 p. 10 pl. 23½<sup>em</sup>.

"This 'Summary' was first translated from the Chinese by Stanislas Julien . . . and printed at the Royal press, in Paris, by order of the minister of public works, agriculture, and commerce. The French copy, from which this translation was made, was transmitted from Paris to the secretary of state, and by his recommendation has been translated and published here. Washington, February, 1838."—Note by the publisher.

**Kaufmann, Ernst.** Progrès de la sériciculture, régénération des vers à soie, moyens pour reconnaître la graine falsifiée. Rapport à son excellence Monsieur le ministre de l'agriculture, du commerce et des travaux publics par Ernst Kaufmann . . . Paris, V. Masson; [etc., etc.] 1860. Agr 4—311

4 p. l., 100 p. 23½<sup>em</sup>.

**Kohl, Friedrich.** Geschichte der Jacquard-maschine und der sich ihr anschließenden abänderungen und verbesserungen nebst der biographie Jacquard's. Von Professor Friedrich Kohl . . . Eine von dem Verein zur beförderung des gewerbfleisses in Preussen gekrönte preisschrift. Beilage zum 51. jahrgange der Vereins-Verhandlungen (1872) . Berlin, Nicolaische verlags-buchhandlung (A. Effert & L. Lindtner) 1872. Agr 4—312

3 p. l., 197, [1] p. front. (port.) illus., xvi fold. pl. 28½<sup>em</sup>.

**Laffemas, Barthélemy de.** . . . La façon de faire et semer la graine de meuriers, les élever en pépinières et les replanter aux champs, gouverner et nourrir les vers à soye au climat de la France plus facilement que par les mémoires de tous ceux qui en ont escript, fait par Barthelemy de Laffemas . . . Nouvelle éd. rev. sur celle de Pierre Pautonnier; Paris, 1604. Montpellier, C. Couleÿ, 1877. Agr 4—313

29 p. 26½<sup>em</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture [1. sér., 2. fasc.] )

[**Laleu, G. O. de.**] . . . Expériences sur une éducation du ver à soie de l'ailante au jardin de l'Exposition. Rapport au Comité d'action, 1861. Nantes, Impr. M. Bourgeois, 1861.

30 p. 21<sup>em</sup>.

At head of title: Exposition de Nantes.

**Lamare-Picquot, F. V.** De la régénération des races de vers à soie, et de l'introduction de nouvelles plantes alimentaires, par Lamarepicquot . . . Saint-Germain-en-Laye, Impr. Beau [1854] Agr 4—3563

cover-title, 7 p. 24<sup>em</sup>.

Mémoire lu à l'Académie des sciences.

Extrait des Annales de la colonisation algérienne, livraison d'avril 1854.

**Lambert, F.** Étude sur l'espacement qu'il convient de donner aux vers à soie et sur l'action nuisible de l'entassement . . . [Montpellier, 1897]

24 p. 27<sup>em</sup>.

Caption title.

Extrait Annales de l'École nationale d'agriculture de Montpellier.

**Lambert, F.** . . . Influence d'une faible diminution de la chaleur pendant les derniers jours de l'élevage sur les cocons du ver à soie du mûrier . . . Montpellier, 1899.

17 p., 11. 27<sup>em</sup>. (Station séricicole de Montpellier. F. Lambert, directeur. Mémoires et documents sur la sériciculture)

Extrait des Annales de l'École nationale d'agriculture de Montpellier.

**Lambert, F.** Influence de l'eau sur le développement des vers à soie et sur le poids des cocons, par F. Lambert . . . [Paris, Typ. P. Renouard, 190-?] ]

10 p. 22<sup>em</sup>.

Caption title.

**Laurent de l'Arbousset, A.** . . . Les Cévennes séricoles autrefois, aujourd'hui, prix de revient d'un kilogramme de cocons aux deux époques, comment s'achètent les cocons, comment se vendent les soies, des diverses marques et de la différence de prix qui existe entre elles, comment atténuer ces différences, l'avenir de la sériculture aux Cévennes. Lyon, Le moniteur des soies, 1875. Agr 4—314  
2 p. l., 85, [2] p. 21½<sup>cm</sup>.

**Leclerc, Louis.** Écoliers et vers à soie, ou La petite magnanerie du père Tous-saint; par Louis Leclerc . . . Paris, M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard, 1850. Agr 4—315  
2 p. l., 272 p. illus. 18<sup>cm</sup>.  
Advertisements: p. [267]—272.

**Lepori, Auguste.** Indications pratiques sur l'élevage des vers-à-soie par le chev. Dr. Auguste Lepori . . . Florence, Impr. de la Pia casa di Patronato pei Minorenni, 1886. Agr 4—3564  
cover-title, 18 p. 22<sup>cm</sup>.

**Liotard, L.** Memorandum on silk in India. By L. Liotard . . . Calcutta, Printed by the superintendent of government printing, 1883.  
pt. 1. 33<sup>cm</sup>.

**Lopez Peñafiel, Emiliano.** Cartilla para la crianza y ahogado del gusano de la seda, por Don Emiliano Lopez Peñafiel . . . [Murcia] Tip. de el Correo de Levante, 1902. Agr 3—417  
23 p. 15<sup>cm</sup>.

**Luppi, G.** Dictionnaire de séricologie, comprenant l'art de produire la soie et de l'appréter, synonymie en cinq langues, texte en français par le docteur G. Luppi . . . Lyon, C. Méra [1872 ?] Agr 4—3567  
xvi, [2], 506 p. 18¼<sup>cm</sup>.

**Lyon, France. Chambre de commerce.** Exposition collective de soies et de soieries, organisée par la Chambre de commerce de Lyon. Catalogue des exposants. Lyon, Impr. Pitrat aîné, 1889.  
91 p. 17¼<sup>cm</sup>.  
At head of title: Exposition universelle de 1889 à Paris.

**Lyon, France. Chambre de commerce.** . . . Notice sur le Laboratoire d'études de la soie, travaux, collections, documents.  
2 p. l., 53, [5] p. xx (i. e. 21 pl., 1 fold.) 28<sup>cm</sup>.  
Descriptions printed on back of plates.

**Lyon, Société d'agriculture, sciences et industrie de.** . . . Rapport de la commission des soies sur ses opérations de l'année 1885, par M. J. Dusuzeau, secrétaire, suivi du compte rendu des opérations de la condition des soies de Lyon pendant l'année 1885 . . . Lyon, Impr. Pitrat aîné, 1886.  
20, 19, [1] p. incl. tables. 2 fold. diagr. 26¼<sup>cm</sup>.  
At head of title: Société d'agriculture, histoire naturelle et arts utiles de Lyon.

**McCulloch, R. W.** . . . Sericulture; or, Silkworms and how to rear them. By R. W. McCulloch . . . Brisbane, J. C. Beal, government printer, 1893. Agr 2—129  
1 p. l., [63]—85 p. illus., xix pl. (2 fold.) 22<sup>cm</sup>. (Queensland. Dept. of agriculture, Brisbane. Bulletin no. 23. March, 1893)  
Paged continuously with Bulletins 19 and 22.

**Maillot, Eugène.** . . . Congrès séricicole international de Montpellier. Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1874. Agr 4—318  
10 p. 26¼<sup>cm</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture. [1. ser., 1. fasc.]

**Maillot, Eugène.** . . . Les congrès séricicoles internationaux. Montpellier, Imprimerie centrale du midi, Ricateau, Hamelin et c<sup>e</sup>, 1874. Agr 4—317  
31 p. 26¼<sup>cm</sup>. (Station séricicole de Montpellier. Mémoires et documents sur la sériciculture [1. ser., 1. fasc.]

**Maillot, Eugène.** . . . De l'art d'élever les vers à soie. Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1876. Agr 4—319

34 p. 26 $\frac{1}{2}$ <sup>cm</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires & documents sur la sériciculture [1. sér., 2. fasc.]

**Maillot, Eugène.** . . . De l'éclosion des graines de vers à soie par le frottement, l'électricité et l'hivernation artificielle. Revue des travaux les plus récents, par E. Maillot. Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1876. Agr 4—320

23 p. 26 $\frac{1}{2}$ <sup>cm</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture [1. sér., 2. fasc.]

**Maillot, Eugène.** . . . De la production des graines de vers à soie. Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1875. Agr 4—321

22, [2] p. 26 $\frac{1}{2}$ <sup>cm</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires & documents sur la sériciculture [1. sér., 1. fasc.]

**Maillot, Eugène.** Leçons sur le ver à soie du mûrier par M. Eugène Maillot . . . Montpellier, C. Coulet; [etc., etc.] 1885. Agr 4—3569

viii, [5]—273 p. illus., 3 pl. 23 $\frac{1}{2}$ <sup>cm</sup>.

**Maillot, Eugène.** . . . Méthodes de sélection pour la confection des graines de vers à soie. Revue des travaux les plus récents, par E. Maillot. Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1876. Agr 4—322

23 p. 26 $\frac{1}{2}$ <sup>cm</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture [1. sér., 2. fasc.]

**Maillot, Eugène.** . . . Nouvelles races de vers à soie du mûrier. Rapport adressé à la Chambre de commerce de Lyon . . . Montpellier, C. Boehm, 1889. Agr 4—323

55 p. col. pl. 27<sup>cm</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture)

Extrait des Annales de l'École nationale d'agriculture de Montpellier.

**Maillot, Eugène.** . . . Le système Pasteur et ses résultats, par E. Maillot. Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1876. Agr 4—324

18 p. 26 $\frac{1}{2}$ <sup>cm</sup>. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture [1. sér., 2. fasc.]

**Maillot, Eugène.** Traité sur le ver à soie du mûrier et sur le mûrier, par E. Maillot . . . [et] F. Lambert . . . Montpellier, Coulet et fils, 1906 [pub. 1905]

ix, [5]—622 p. illus., III pl. (incl. front.) 23<sup>cm</sup>.

**Malpighi, Marcello.** La structure du ver a soye, et de la formation du poulet dans l'œuf. Contenant deux dissertations de Malpighi. . . . Addressées en forme de lettre à l'Académie royale d'Angleterre, établie à Londres, pour l'accroissement de la physique, mises en français par \* \* \* docteur en médecine. Paris, M. Villery, 1686. Agr 4—325

2 p. l., 384 p. 5 pl. 16 $\frac{1}{2}$ <sup>cm</sup>.

**Malpighi, Marcello.** . . . Traité du ver à soie, par Malpighi; texte original et planches, avec une traduction et des notes en français, par E. Maillot . . . Montpellier, C. Coulet, 1878.

xvi, [2], [19]—154 p. XII pl. 35 $\frac{1}{2}$ <sup>cm</sup>. (Station séricicole de Montpellier. Mémoires et documents sur la sériciculture)

**Manuel, R. A.** The silks of British Burma, by Mr. R. A. Manuel . . . [n. p., 18—]

14 p. 22<sup>cm</sup>.

**Masquard, Eugène de.** Le Congrès séricicole international de Montpellier et les doctrines de ses principaux membres . . . [Lyon, Imp. L. Bourgeon, 1874]

24 p. 21 $\frac{1}{2}$ <sup>cm</sup>.

Caption title.

**Masquard, Eugène** de. . . . De l'éducation rationnelle des vers à soie et de la décentralisation de la sériciculture en France, par M. Eugène de Masquard . . . Lyon, Impr. d'A. Vingtrinier, 1869. Agr 4—3570

20 p. 23<sup>cm</sup>.

At head of title: Congrès agricole de Lyon, séance du 24 avril 1869.

**Mercolini, Luigi.** Guardate il baco. Precetti di bachicoltura razionale compilati dal Cav. Prof. Luigi Mercolini. Ed. ordinata dallo studio commissionario di Cremona . . . Guida teorico-pratica . . . Cremona, Tipografia Groppi, 1883. Agr 4—326

4 p. l., 102 p., 1 l. 22<sup>cm</sup>.

**Millet, P. A.** Notice sur les quatre éducations de vers à soie faites en 1839 dans le Département de la Vienne, par MM. Millet et Robinet, et Madame Millet. Paris, Impr. de L. Bouchard-Huzard, 1840?]

32 p. pl. 22<sup>cm</sup>.

Agr 4—3573

**Milne-Edwards, Henri.** . . . Rapport sur diverses questions relatives à la sériciculture, présenté au nom d'une commission spéciale par M. Milne-Edwards. [Paris, Impr. de M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard, n. d.]

8 p. 23<sup>cm</sup>.

Caption title.

At head of title: Société nationale et centrale d'agriculture.

**Montpellier. Station séricicole de Montpellier.** Mémoires et documents sur la sériciculture. Montpellier, Imprimerie centrale du midi, Coulet, libraire-éditeur, 1875.

sér. 1, fasc. [1]—2. 26<sup>cm</sup>.

CONTENTS.—1. sér., [1. fasc.] I. Les congrès séricicoles internationaux; compte-rendu sommaire, par E. Maillot. II. Recherches sur la gattine et la fiacherie, par Verson et Vlacovich. III. Congrès séricicole international de Montpellier; compte-rendu sommaire, par E. Maillot. IV. De la production des graines de vers à soie (sujet de la 1<sup>e</sup> série de conférences faites en 1874—75), par E. Maillot. V. Du chauffage des magnaneries (extrait des actes du Congrès de Rovereto) VI. Expériences sur l'accouplement des papillons du bombyx du mûrier, par E. Cornalia. VII. De la soie en Europe, par Pinchetti, Mattiuzzi et Nesi.—1. sér., 2. fasc. VIII. De l'art d'élever les vers à soie (sujet de la 2<sup>e</sup> série de conférences faites en 1875), par E. Maillot. IX. Méthodes de sélection (Revue des travaux récents), par E. Maillot. X. Éclosion des graines par le frottement, l'électricité et l'hivernation artificielle (Revue des travaux récents), par E. Maillot. XI. Le système Pasteur et ses résultats, par E. Maillot. XII. Congrès séricicole international de Milan; compte rendu. XIII. La façon de faire et semer la graine de meuriers, gouverner et nourrir les vers à soie, par Barthélemy de Lafemas. XIV. Essai historique sur l'industrie de la soie en France, au temps de Henri IV, par A. Poirson.

**Morikouni, Ouëkaki.** Il modo di allevare i bachi da seta al Giappone, opera dal testo giapponese di Ouëkaka Morikouni, tr. nuovamente in francese da Mermet de Cachon . . . e dal francese volta in italiano con analoghe osservazioni da Isidoro dell'Oro e pubblicata per cura della Società agraria di Lombardia, aggiunto un trattatello sulla coltivazione del yama-mai o baco della quercia. Milano, Tipografia del Pio istituto di patronato, 1865. Agr 5—175

xii, 48 p. 23<sup>cm</sup>.

**Murcia (Spain), Estacion sericícola de.** . . . Experiencias realizadas durante la campaña sedera de 1902. [Murcia] Tip. Las provincias de levante, 1902.

2 nos. fold. tab. 14<sup>cm</sup>. (Ministerio de agricultura, industria, comercio y obras públicas. Dirección general de agricultura, industria y comercio)

CONTENTS.—Cría de gusanos al sol.—Semillas que se emplean en esta huerta.

**Nenci, Tito.** . . . I bachi da seta. 3. ed. con note e aggiunte di Francesco Nenci . . . Milano, U. Hoepli, 1900.

[v]—x p., 1 l., 300 p. front. (port.) illus., 2 pl. 15<sup>cm</sup>. (Manuali Hoepli)

At head of title: Tito Nenci.

**Núñez Ortega, A.** Apuntes históricos sobre el cultivo de la seda en México, reunidos por A. Núñez Ortega . . . Bruselas, G. Mayolez, 1883. Agr 4—328

69 p. 29<sup>cm</sup>.

**Peligot, Eugène Melchior.** Études chimiques et physiologiques sur les vers à soie, par M. Eug. Peligot . . . Paris, Impr. de Madame veuve Bouchard-Huzard, 1853.

Agr 4—3582

cover-title, 43 p. 21 $\frac{1}{2}$ cm.

At head of caption title: Société nationale et centrale d'agriculture.

**Perret, Adrien.** Monographie de la condition des soies de Lyon par M. Adrien Perret . . . Publié par ordre de la Chambre de commerce de Lyon. Lyon, Impr. Pitrat aîné, 1878.

Agr 4—417

vi, 353 p. 27cm.

**Personnat, Camille.** Le ver à soie du chêne (*Bombyx yama-mai*) son histoire—sa description—ses mœurs—son éducation—ses produits. Ouvrage couronné par la Société impériale d'acclimatation, encouragé par LL. EE. le ministre de l'instruction publique et le ministre de l'agriculture, du commerce et des travaux publics . . . par Camille Personnat. 4. éd., rev. et augm. Paris, Librairie agricole de la maison rustique, 1868.

Agr 4—330

2 p. l., viii, 132 p. illus., 3 col. pl. 22 $\frac{1}{2}$ cm.

**Pestalozza, Alexandre.** Les vers-à-soie du Japon. Mémoire du Prof. Alexandre Pestalozza, tr. de l'italien sur la 2. éd. et avec approbation de l'auteur par Henri Louis. Milan, Impr. de J. Agnelli, 1865.

viii, 80 p. 21cm.

**Pinchetti, P.** . . . La soie en Europe, historique sommaire de sa production et de ses manufactures, jusqu'en 1873. Extrait du rapport de P. Pinchetti, F. Mattiuzzi, J.-B. Nessi sur les soies et soieries à l'Exposition universelle de Vienne (tr. de l'italien par E. Maillot) Montpellier, Imprimerie centrale du Midi, Coulet, libraire-éditeur, 1875.

Agr 4—332

v, [7]-50, [2] p. 26 $\frac{1}{2}$ cm. (Station séricicole de Montpellier. Mémoires et documents sur la sériciculture. [1. sér., 1. fasc.]

**Poirson, Auguste Simon Jean Chrysostome.** . . . Essai historique sur l'industrie de la soie en France au temps de Henri IV, par Auguste Poirson . . . Montpellier, C. Coulet, 1877.

Agr 4—333

60 p. 26 $\frac{1}{2}$ cm. (Station séricicole de Montpellier. E. Maillot, directeur. Mémoires et documents sur la sériciculture. [1. sér., 2. fasc.]Extrait de l'Histoire du règne de Henri IV. 3<sup>e</sup> édit., liv. VII, chap. v.—Paris, Didier et c<sup>o</sup>, 1866.

[Porter, George Richardson] A treatise on the origin, progressive improvement, and present state of the silk manufacture. London, Longman, Rees, Orme, Brown, and Green; [etc.] 1831.

Agr 5—227

2 p. l., xv, 339, [1] p. illus. 16 $\frac{1}{2}$ cm. (*Half-title:* The cabinet cyclopædia)

Work has 3 title-pages; 1st has at head of title: The cabinet cyclopædia. Conducted by the Rev. Dionysius Lardner . . . Useful arts; 2d has at head of title: The catalogue of useful arts. Conducted by the Rev. Dionysius Lardner . . . 3d is engraved and has no series note.

**Preobrazhenskii, Petr M.** Историческій обзор развитія шелководства въ Москвѣ и югозападныхъ отъ нея губерніяхъ и дѣйствій Комитета шелководства съ 1847 года апрѣля 7 и по 7 апрѣля 1872 годъ. П. М. Преображенскаго . . . Москва, Въ Университетской типографіи (Катковъ и ко.) 1872.

Agr 4—492

2 v. in 1. front. (port.) 23cm.

Historical sketch of progress of sericulture in Moscow and southwestern provinces and proceedings of the Committee on sericulture from April 7, 1847, to April 7, 1872 . . .

**Pullein, Samuel.** The culture of silk, or, An essay on its rational practice and improvement. In four parts. i. On the raising and planting of mulberry trees. ii. On hatching and rearing the silk-worms. iii. On obtaining their silk, and breed. iv. On reeling their silk-pods. For the use of the American colonies. By the Rev. Samuel Pullein . . . London, Printed for A. Millar, 1758.

Agr 4—334

xv, 299 p. front. 20cm.

- Quajat, Enrico.** Bozzoli e sete ottenuti con la *Maclura aurantiaca* . . . Padova, [1890]  
11 p. 23<sup>cm</sup>.  
Estratto dal Bollettino mensile di bachicoltura febbraio 1890.
- Quajat, Enrico.** Compendio di bacologia, presentato in venti lezioni da Enrico Dr. Quajat . . . 2. ed., riveduta ed aumentata dall' autore. Verona [etc.] Drucker & Tedeschi, 1878. Agr 4—3587  
3 p. l., 261 p., 1 l. 18<sup>cm</sup>.
- Quajat, Enrico.** . . . Elasticità della bava nei bozzoli italiani. [Padova, 1888]  
11, [1] p. 22<sup>cm</sup>.  
Estratto dal Bollettino mensile di bachicoltura.
- Quajat, Enrico.** Influence des eaux de filature sur la soie grège par M. le Dr E. Quajat . . . Lyon, Moniteur des soies, 1889. Agr 4—3588  
31 p. 22<sup>cm</sup>.
- Quajat, Enrico.** . . . Influenza delle acque di trattura sulla seta greggia. [Padova, n. d.]  
21, [1] p. 22<sup>cm</sup>.  
Estratto dal Bollettino mensile di bachicoltura.
- Quajat, Enrico.** Influenza delle medie e basse temperature sulla nascita del seme bachi. Ricerche sperimentali . . . Padova, 1883.  
1 p. l., 37 p., 1 l. 22<sup>cm</sup>.  
Estratto dal Bollettino di bachicoltura, anno 1883, n. 5 e 6.
- Quajat, Enrico.** . . . Note ed appunti di bachicoltura e di sericoltura. Padova, Stab. tip. ditta L. Penada, 1904.  
54 p. 24<sup>cm</sup>.
- Quajat, Enrico.** I. Nuove ricerche dirette a constatare il sesso nelle uova. Forma varia delle uova. II. Metodo Ishiwata per separare le larve secondo il sesso . . . Trento, 1905.  
15 p. illus. 20<sup>cm</sup>.  
Estratto dall' Almanaco agrario del Consiglio provinciale d' agricoltura, sezione di Trento, per l' anno 1905.
- Quajat, Enrico.** . . . Un nuovo serimetro per la bava dei bozzoli. Padova [n. d.]  
15 p. illus. 22<sup>cm</sup>.  
Estratto dal Bollettino mensile di bachicoltura.
- Quajat, Enrico.** Prodotti respiratori delle uova del filugello durante l' incubazione normale. Memoria . . . Torino, 1899.  
27 p. II diagr. 24<sup>cm</sup>.  
Estratto dagli Annali della R. Accademia d' agric. di Torino, vol. XLII. Adunanza del 5 marzo 1899.
- Quajat, Enrico.** . . . Rapporti tra bozzoli e seta greggia. Padova [n. d.]  
32 p. 21<sup>cm</sup>.  
Estratto dal Bollettino mensile di bachicoltura.
- Quajat, Enrico.** Recherches sur les produits de respiration des œufs du ver-à-soie . . . (Résumé de l'auteur) [Turin, 1897] Agr 4—335  
13 p., 1 l. 23<sup>cm</sup>.  
Caption title.  
Extrait des Archives italiennes de biologie, t. XXVII, fasc. III.
- Quajat, Enrico.** Sugli incrociamenti fra le razze bianche del baco da seta. [Firenze, 1885]  
11 p. 22<sup>cm</sup>.  
Estratto dal Bullettino della Società entomologica italiana, anno XVII, pag. 229-239.
- Quajat, Enrico.** Sulla diminuzione di peso nei bozzoli; ricerche sperimentali di E. dott. Quajat . . . [Padova, Stab. tip. ditta L. Penada, 1885] Agr 4—3589  
16 p. 23<sup>cm</sup>.  
" Note bibliografiche ": p. 16.
- Quatrefages de Bréau, Jean Louis Armand de.** . . . Silk-worms and sericulture . . . Tr. by Eliza A. Youmans. [New York, 1873]  
[657]—676 p. illus. 23<sup>cm</sup>.  
From Popular science monthly. October, 1873.

**Quercy, P.** . . . Instructions pratiques sur l'éducation du ver à soie, par P. Quercy . . . Oran, Impr. typographique et lithographique V. Collet, 1891.

16 p. 23 $\frac{1}{2}$ cm.

At head of title: Chaire d'agriculture du Département d'Oran.

**Quirici, Gerolamo.** La cria del gusano de seda y sus enfermedades por Gerónimo Quirici. 5. ed., revista ampliada é ilustrada, tr. del italiano. Pavia, Premiata tipografía de los hermanos Fusi, 1887.

Agr 5—230

3 p. l., xv, 47 p. front. (port.) illus. 22cm.

**Quirici, Gerolamo.** Dell' allevamento del baco da seta e sue malattie per Gerolamo Quirici. 5. ed., riveduta-ampliata ed illustrata. Pavia, Premiata tipografia fratelli Fusi, 1887.

Agr 5—231

3 p. l., xv, 45 p. front. (port.) illus. 22cm.

**Quirici, Gerolamo.** Nuovo sistema di sfarfallamento, per Gerolamo Quirici . . . Pavia [188—]

15 p. illus. 25 $\frac{1}{2}$ cm.

**Rieu, Jules.** Conférence sur l'acclimatation des vers à soie japonais du mûrier de la race annuelle à cocons blancs donnée au Palais de l'industrie à Paris le 10 septembre 1865 par Jules Rieu . . . Paris, Impr. Jouaust, 1865.

16 p. 24 $\frac{1}{2}$ cm.

**Robert, Eugène.** . . . Note sur les travaux séricicoles exécutés à la magnanerie de Sainte-Tulle (Basses-Alpes), par M. Eugène Robert. Lue à la Société d'agriculture, le 15 mai 1850. Paris, Impr. de M<sup>me</sup> Ve Bouchard-Huzard, [1850?]

8 p. 22 $\frac{1}{2}$ cm.

At head of title: Société nationale et centrale d'agriculture.

**Robinet, Stéphane.** Mémoires sur l'industrie de la soie; par Robinet . . . Ventilation des magnaneries. Paris, Millet et Robinet, 1839-41.

Agr 4—338

2 p. l., 27, 130, 38 p. 3 pl. (2 fold.) 22cm.

Consists of three memoirs, originally published in Mémoires de la Société royale et centrale d'agriculture.

**Rodez, comte de.** Compte-rendu des éducations précoces de vers à soie faites en 1868 dans la magnanerie expérimentale du Comice agricole du canton de Ganges (Hérault). Montpellier, Typographie de P. Grollier, 1868.

19, [1] p. 21 $\frac{1}{2}$ cm.

**Roman, Léopold.** Manuel du magnanier. Application des théories de M. Pasteur à l'éducation des vers à soie, par Léopold Roman . . . Paris, Gauthier-Villars, successeur de Mallet-Bachelier, 1876.

Agr 4—339

vii, 136 p. illus., vi pl. (2 col.) 18cm.

**Rondot, Natalis.** L'art de la soie. Les soies, par M. Natalis Rondot . . . 2. éd., pub. aux frais de la Chambre de commerce de Lyon . . . Paris, Imprimerie nationale, 1885-87.

Agr 4—340

2 v. illus. 28cm.

**Ruggieri, Luigi.** Atlante anatomico del baco da seta disegnato e descritto dal Prof. Luigi Ruggieri . . . 2. ed. Firenze, Stab. lit<sup>co</sup> Borrani [n. d.]

cover-title, 8 p., 17 l. 17 pl. 21 $\frac{1}{2}$ cm.

**Sauvages de la Croix, Pierre Augustin Boissier de.** L'art d'élever les vers à soie par l'abbé Boissier des Sauvages. Nouvelle éd. tirée de l'éd. de 1788, ordonnée et annotée à l'usage des sériculteurs modernes par G. Luppi . . . Lyon, Le moniteur des soies, 1881.

Agr 4—341

xix, 220 p. 22cm.

**Selvatico, S.** . . . L'aorta nel corsaletto e nel capo della farfalla del bombyce del gelso . . . Padova, Stab. tip. prov. ditta L. Penada, 1887.

Agr 5—44

cover-title, 19 p. 2 double pl. 23cm. (R. Stazione bacologica sperimentale. Pubblicazioni . . . II)

**Sericulture and silk-reeling in Hungary in 1901 . . .** Budapest, Printing office of the Franklin society [190—]

cover-title, 36 p. illus. 23cm.

**Shavrov, Nikolai Nikolaevich.** Добываніе, обработка и условия сбыта шелка и организация правительственных и общественных учреждений по шелководству и шелковой промышленности въ Австро-Венгрии, Италіи, Франціи и другихъ шелководныхъ странахъ. Отчетъ по заграничной поѣздкѣ представленный Министерству государственныхъ имуществъ П. Н. Шавровымъ. Съ приложениемъ шелководственной карты Европы и альбома рисунковъ. С.-Петербургъ, Типографія В. Киршбаума, 1890. Agr 4—494

1 p. l., ix, 588 p. fold map, and album of 50 double pl. 26<sup>cm</sup>.

Production, manufacture, and conditions of sale of silk and governmental organizations and societies for silk culture and silk industry in Austro-Hungary, Italy, France and other silk-producing countries. Report of foreign travel presented to the Minister of public domains by N. N. Shavrov. With annexed sericultural map of Europe and album of drawings.

**Shavrov, Nikolai Nikolaevich.** Наставленіе къ замариванію, сушкѣ и сохраненію коконовъ . . . Составилъ П. Н. Шавровъ. Тифлисъ, Типогр. А. С. Федорова, 1896. Agr 3—1005

16 p. 1 pl. 26<sup>cm</sup>.

Instruction for the killing, drying and preservation of cocoons . . .

“Напечатано по распоряженію г. уполномоченнаго Министра земледѣлія и государственныхъ имуществъ на Кавказѣ.”

**Shavrov, Nikolai Nikolaevich.** . . . Основныя правила выкормки шелковичныхъ червей. Сост. Н. Н. Шавровъ. Изданіе 5-е, дополненное. Тифлисъ, Типографія К. П. Козловскаго, 1900. Agr 4—898

48 p. illus., 2 pl. 25<sup>cm</sup>.

Fundamental principles of the feeding of silk worms. Ed. 5, enl.

At head of title: Кавказская шелководственная станція.

Напечатано по распоряженію г. уполномоченнаго Министра земледѣлія и государственныхъ имуществъ на Кавказѣ.

**Siau, Antoine.** Rapports sur l'industrie séricicole du Département des Pyrénées-Orientales en 1859, et sur les produits envoyés par la Société agricole au concours de Carcassonne, en mai 1859, et sur la culture des artichauts Perpignan, 1860.

1 p. l., 16 p. 22<sup>cm</sup>.

Agr 4—3605

Extrait du 12<sup>e</sup> Bulletin de la Société agricole, scientifique et littéraire des Pyrénées-Orientales.

**Sira-Kawa.** . . . Traité de l'éducation des vers à soie au Japon, par Sira-Kawa de Sendai (Osyou). Tr. pour la première fois du japonais par Léon de Rosny. Publié par ordre de son excellence le ministre de l'agriculture. Paris, Imprimerie impériale, 1868. Agr 4—3606

2 p. l., lxiv, 228, [2] p. illus., xxiv pl. (17 col., 3 double), incl. 2 double maps. 21<sup>cm</sup>.

At head of title: Yô-san-sin-sets.

**Stradivari, Cesare.** Sulla educazione dei bachi da seta e sulla coltivazione dei gelsi, memoria del dottore Cesare Stradivari. Premiata dall' I. R. Istituto Lombardo di scienze, lettere ed arti. Sul programma pubblicato il 14 marzo 1838. Milano, Dalla tipografia di G. Bernardoni di Gio, 1841. Agr 4—343

132 p. 22<sup>cm</sup>.

**Tastet, Émile.** . . . Rapport de M. Émile Tastet sur l'introduction en France des vers à soie sauvages de la Chine. Paris, Impr. S. Raçon et c<sup>o</sup>, 1854. Agr 4—3618

30 p. 23<sup>cm</sup>.

“Extrait du Bulletin de la Société zoologique d'acclimatation. no. 3. Mai 1854.”

**Tikhomirov, Aleksandr Andreievich.** Основы практическаго шелководства. Изданіе 2-е (дополненное), по порученію Министерства земледѣлія и государственныхъ имуществъ. А. Тихомирова . . . Москва, Университетская типографія, 1895. Agr 4—899

1 p. l., xliii, 374 p., 1 l. illus., pl., tab. 25<sup>cm</sup>.

Elements of practical silk culture. Ed. 2 (enl.) By order of the Department of agriculture and state domains. . .



**Toyama, Kametaro.** On the spermatogenesis of the silk-worm . . . [Tokyo, 1894]

[125]-157 p. III-IV double pl. 24<sup>cm</sup>.

"List of works referred to:" p. [152]-153.

"The preliminary note of this paper was published in the 'Zoologischen anzeiger' no. 488 this year [1893]"

From the Bulletin of the college of agriculture. Tōkyō imperial university, vol. II.

**Tranquilli, G.** Courtes observations sur la race des vers à soie à cocons blancs de forme sphérique de la province de Tsche-Kiang . . . Lyon, 1887.

16 p. 24<sup>cm</sup>.

Extrait du journal le Moniteur des soies de Lyon.

**Tranquilli, G.** Del baco da seta e suo allevamento, cenni pratici del cav. dott.

G. Tranquilli. Bologna, Tipografia Mareggiani, 1885.

Agr 4—3620

38 p. 18½<sup>cm</sup>.

**Uzielli, Gustave.** Sur l'application du sulfure de carbone à l'étouffement des chrysalides des vers à soie, la conservation et l'exportation des cocons d'après des expériences faites par M<sup>rs</sup> Edouard Beccari e Gustave Uzielli. Mémoire par Gustave Uzielli. [n. p., 18—]

24 p., 1 l. fold. pl. 23<sup>cm</sup>.

**Verein zur beförderung des seidenbaues in der mark Brandenburg und Niederlausitz.** Kurze anleitung zur erziehung und pflege des maulbeerbaums und zum seidenbau. Hrsg. von dem vorstande des Vereins zur beförderung des seidenbaues in der mark Brandenburg und Niederlausitz. 2. ausgabe. Berlin, G. Bethge, 1854.

Agr 4—346

73 p. 20½<sup>cm</sup>.

**Verein zur beförderung des seidenbaues in der provinz Pommern.** Statuten zur beförderung des seidenbaues in der provinz Pommern. Stettin, Druck von R. Grassmann, 1853.

Agr 4—347

cover-title, 8 p. 20½<sup>cm</sup>.

**Verson, Enrico.** . . . Altre cellule glandulari, di origine postlarvale (cellule glandulari epigastriche) . . . Padova, Stab. tip. prov. ditta L. Penada, 1892.

Agr 5—41

cover-title, 16 p., 1 l. fold. pl. 23<sup>cm</sup>. (R. Stazione bacologica di Padova. Pubblicazioni . . . VII)

**Verson, Enrico.** . . . Cellule glandulari ipostigmatiche nel Bombyx mori Padova, Stab. tip. prov. L. Penada, 1891.

Agr 5—59

cover-title, 19. [1] p. 2 fold. pl. 23<sup>cm</sup>. (R. Stazione bacologica di Padova. Pubblicazioni . . . VI)

At head of title: E. Verson ed E. Bisson.

**Verson, Enrico.** . . . Dei segni esterni atti a rivelare nel Bombyx m. il sesso della larva. Venezia, 1905.

[497]-501 p. illus. 25<sup>cm</sup>.

From Atti del Reale istituto veneto di scienze, lettere ed arti. vol. LXIV. pt. 2, 1904-1905.

**Verson, Enrico.** Del filugello e del suo allevamento; lezioni del dottore Enrico Verson . . . 2. ed. Torino, Unione tipografico-editrice, 1877.

Agr 4—3624

158 p. illus. 18½<sup>cm</sup>.

**Verson, Enrico.** . . . Di una serie di nuovi organi escretori scoperti nel filugello . . . Padova, Stab. tip. prov. L. Penada, 1890.

Agr 5—42

cover-title, 30 p. rv pl. 23½<sup>cm</sup>. (R. Stazione bacologica di Padova. Pubblicazioni . . . V)

**Verson, Enrico.** . . . La evoluzione del tubo intestinale nel filugello. Venezia, Tip. Ferrari, 1897.

Agr 5—62

1 p. l., 40 p. II double pl. 23<sup>cm</sup>. (On cover: R. Stazione bacologica sperimentale . . . X)

"Dagli Atti del R. Istituto veneto di scienze, lettere ed arti, tomo VIII, ser. VII. —1896-97 [p. 917-956]"

**Verson, Enrico.** . . . La evoluzione postembrionale degli arti cefalici e toracali nel bombice del gelso . . . Padova, Tip. lit. Fr.lli Salmin, 1904.

Agr 5—65

cover-title, 49 p. III pl. (2 fold). 23<sup>cm</sup>. (R. Stazione bacologica sperimentale . . . XV)

Appeared originally in Atti del Reale istituto veneto di scienze, lettere ed arti, anno accademico 1903-1904, tomo LXIII, parte seconda.

- Verson, Enrico.** . . . Il filugello e l'arte sericola. Trattato teorico-pratico . . .  
Padova, Verona, Fratelli Drucker, 1896. Agr 4-3623  
[iii]-xv, 400 p. illus. 24½<sup>cm</sup>.  
At head of title: E. Verson ed E. Quajat.  
At ends of chapters: "Opere citate."
- Verson, Enrico.** . . . La formazione delle ali nella larva del Bombyx mori . . .  
Padova, Stab. tip. prov. L. Penada, 1890. Agr 5-43  
cover-title, 17, [2] p. II pl. 23<sup>cm</sup>. (R. Stazione bacologica sperimentale. Pubblicazioni . . . IV)
- Verson, Enrico.** . . . Manifestazione rigenerative nelle zampe toracali del B.  
mori . . . Padova, Tipografia dei fratelli Gallina, 1904.  
cover-title, 41 p. 23<sup>cm</sup>. (R. Stazione bacologica sperimentale . . . XVI)  
"Dagli Atti del R. Istituto veneto di sc. lett. ed arti. [vol. XLIV]"  
"Letteratura consultata": p. 38-41.
- Verson, Enrico.** . . . Il meccanismo di chiusura negli stimmati del Bombyx  
mori . . . Padova, Stab. tip. prov. L. Penada, 1887. Agr 5-45  
cover-title, 9 p., 1 l. pl. 23½<sup>cm</sup>. (R. Stazione bacologica sperimentale. Pubblicazioni . . . I)
- Verson, Enrico.** Die postembryonale entwicklung der ausführungsgänge und der  
nebendrüsen beim männlichen geschlechtsapparat von Bombyx mori . . . [Leipzig]  
1895.  
4 p. 23<sup>cm</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 487. 1895.
- Verson, Enrico.** Die postembryonale entwicklung der ausführungsgänge und  
der nebendrüsen beim weiblichen geschlechtsapparat von Bombyx mori. [Leipzig]  
1896.  
3 p. 22½<sup>cm</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 505. 1896.
- Verson, Enrico.** Prontuario all' atlante del filugello sano e malato. [Padova,  
Stabilimento Prosperini, 1888]  
13 p. 23<sup>cm</sup>.  
Preface signed: E. Verson.
- Verson, Enrico.** . . . La spermatogenesi nel Bombyx mori . . . Padova, Stab.  
tip. prov. L. Penada, 1889. Agr 5-52  
cover-title, 25, [2] p. III pl. 23½<sup>cm</sup>. (R. Stazione bacologica sperimentale. Pubblicazioni . . . III)
- Verson, Enrico.** . . . Sull' armatura delle zampe spurie nella larva del filu-  
gello . . . Padova, 1901.  
cover-title, [3]-27 p. fold. pl. 23<sup>cm</sup>. (R. Stazione bacologica sperimentale . . . XIV)  
"Dagli Atti del R. Istituto veneto di sc. l. a."
- Verson, Enrico.** . . . Sull' ufficio della cellola gigante nei follicoli testicolari  
degli insetti. Venezia, 1899. Agr 5-64  
1 p. l., 11 p. 22½<sup>cm</sup>. (On cover: R. Stazione bacologica sperimentale . . . XII)  
"Estratto dagli Atti del R. Istituto veneto di scienze, lettere ed arti, tomo LVII.—1898-99."
- Verson, Enrico.** . . . Sviluppo postembrionale degli organi genitali accessori  
nella femmina del B. mori . . . Padova, Stab. tip. prov. L. Penada, 1896. Agr 5-53  
cover-title, 47 p. illus., 3 double pl. 23<sup>cm</sup>. (R. Stazione bacologica sperimentale. Pubblicazioni.  
. . . IX)  
At head of title: E. Verson ed E. Bisson.
- Verson, Enrico.** . . . Sviluppo postembrionale degli organi sessuali accessori  
nel maschio del B. mori . . . Padova, Stab. tip. prov. L. Penada, 1895. Agr 5-38  
cover-title, 30 p. IV pl. 23<sup>cm</sup>. (R. Stazione bacologica sperimentale. Pubblicazioni . . . VIII)  
At head of title: E. Verson ed E. Bisson.
- Verson, Enrico.** Zur entwicklung des verdauungscanals beim seidenspinner  
. . . [Leipzig] 1897-98.  
2 pts. 23<sup>cm</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger," no. 539. 1897; no. 564. 1898.
- Verson, Enrico.** Zur spermatogenesis bei der seidenraupe . . . Leipzig, 1894.  
303-313 p. pl. 23½<sup>cm</sup>.  
Separat-abdruck aus "Zeitschrift für wissenschaftliche zoologie," LVIII. 2.

**Vignon, Léo Aimé Claris.** . . . La soie au point de vue scientifique et industriel . . . Le ver à soie; la sériciculture; le dévidage des cocons. La soie, le moulage; étude physique et chimique. Les soieries; le tissage; la teinture. Documents statistiques. Paris, J.-B. Baillière et fils, 1890.

359, [1] p. illus. 18<sup>cm</sup>. (*Half-title*: Bibliothèque des connaissances utiles)

**Villon, A. M.** . . . La soie, éducation des vers à soie, filage des cocons, moulage, conditionnement, blanchiment, teinture et dorure de la soie, par A.-M. Villon . . . Paris, B. Tignol, 1890.

Agr 4—3626

3 p. l., ii, 320 p. illus. 18½<sup>cm</sup>. (Bibliothèque des actualités industrielles. n° 31)

**Wailly, Alfred.** Notes on silk-producing bombyces reared in 1884 . . . [London, 1885?]

9 p. 25<sup>cm</sup>.

Reprinted from the "Journal of the Society of arts."

**Wailly, Alfred.** On silk-producing bombyces and other Lepidoptera . . . London, 1880.

1 p. l., 6 p. 23<sup>cm</sup>.

Reprinted from the "Journal of the Society of arts," February 13th and March 5th, 1880.

**Wallace, Alexander.** Report on the culture of the Japanese silkworm, Bombyx yama-mai, in England, in 1867-68. By Alexander Wallace . . . Colchester, Benham and Harrison, 1869.

Agr 4—351

64 p. 21½<sup>cm</sup>.

**Wallace, Alexander.** Silk culture . . . [n. p., 18—]

pts. 1-7. illus. 27<sup>cm</sup>.

From the Technical educator, vol. III, p. 8-10, 71-74, 126-128, 177-179, 289-291, 327-330; vol. IV (?) p. 37-40.

**Wan Chú.** Cultivation of the mulberry and rearing the silkworm. Tr. from the Tsán Säng Hoh-pien . . . Reprinted from the Chinese repository. [n. p., n. d.]

14 p. 21<sup>cm</sup>.

Agr 4—352

Caption title.

Preface of original work dated 1844.

**Wardle, Thomas.** . . . Handbook of the collection illustrative of the wild silks of India, in the Indian section of the South Kensington museum, with a catalogue of the collection and numerous illustrations. By Thomas Wardle. London, Printed by G. E. Eyre and W. Spottiswoode, for H. M. Stationery off., 1881.

Agr 4—353

xii, 163 p. incl. LXVI pl. (1 fold., incl. 3 maps) 22<sup>cm</sup>.

At head of title: Science and art department of the Committee of council on education, South Kensington.

**Wray, Leonard, jr.** On the experimental culture of silkworms in Perak, together with a paper on the Malayan fish poison "aker tuba," and a note on a lightning discharge in Taiping. Also a note on the black limestone at Kamuning. By L. Wray, jun. . . . Taiping, Perak government printing office, 1893.

Agr 4—354

1 p. l., 29 p. 2 pl. 23½<sup>cm</sup>. (*Half title*: Perak museum notes, no. 1)

**Yoshida, Tetsutaro.** Entwicklung des seidenhandels und der seidenindustrie vom alterthum bis zum ausgang des mittelalters . . . Heidelberg, Univ.-buchdruckerei von J. Hörning, 1894.

3—16331

viii, 111 p. incl. tab. 22<sup>cm</sup>.

Inaug.-dis.—Heidelberg.

**Zacharewicz, Ed.** Le ver à soie du mûrier, son élevage, par Ed. Zacharewicz . . . Avignon, Impr. E. Millo et c<sup>ie</sup>, 1892.

cover-title, 19 p. 17<sup>cm</sup>.

## DISEASES OF THE SILKWORM.

**Bassi, Carlo Agostino.** De la muscardine (maladie des vers à soie), de ses principes et de sa marche; moyens de la reconnaître, de la prévenir et de la détruire. Abrégé de l'ouvrage de M. le docteur Agostino Bassi . . . par M. le comte Jacques Barbò . . . Paris, Chez les principaux libraires, 1836. Agr 4—197

2 p. 1., xii, 82 p. pl. 20 $\frac{1}{2}$ cm.

**Bernard-Durand.** Méthode et instruction pratique pour l'extinction progressive de la gattine et des autres maladies constitutionnelles et héréditaires qui peuvent en général frapper le ver à soie, par M. et M<sup>me</sup> Bernard-Durand; traité publié avec l'encouragement et sous les auspices de la Commission des soies dépendante de la Société impériale d'agriculture, sciences et arts utiles de Lyon . . . Paris, F. Savy, 1860

47 p. 23cm.

Agr 4—3482

**Charrel, J.** Acétrophie, ou gattine des vers à soie, nouveaux et importants détails sur cette maladie, opinion de l'auteur sur la méthode André Jean, et conseils pour régénérer les vers et se débarrasser du fléau, par M. J. Charrel . Grenoble, Impr. de Prudhomme, 1857. Agr 4—3509

38, [3]—19 p. 22cm.

**Charrel, J.** Gattine des vers à soie, ou Étude des causes du fléau qui a frappé plus ou moins les éducations de 1856, et conseils pour régénérer les vers et obtenir de bon résultats . . Grenoble, 1856. Agr 4—3510

19 p. 22 $\frac{1}{2}$ cm.

"Extrait du Sud-est, année 1856, pag. 577."

**Ciccone, Antonio.** . . . De la muscardine et des moyens d'en prévenir les ravages dans les magnaneries, par M. Ciccone . . . Paris, M<sup>me</sup> V<sup>e</sup> Bouchard-Huzard, 1858. Agr 4—266

196 p. iii pl. 21 $\frac{1}{2}$ cm.

At head of title: Société impériale et centrale d'agriculture.

**Franceschini, Felice.** Le malattia dei bachi da seta . . . [Milano, 1867?]

16 p. illus. 18 $\frac{1}{2}$ cm.

Agr 4—3536

Estratto dal vol. vi dell' Enciclopedia nazionale.

**Guérin-Ménéville, Félix Édouard.** . . . Analyse des expériences sur la muscardine et les autres maladies des vers à soie en 1849; par MM. Guérin-Ménéville et Eugène Robert. [Paris, 1850] Agr 4—3542

38 p. pl. 24 $\frac{1}{2}$ cm,

Extrait des Annales de la Société séricicole.

**Guérin-Ménéville, Félix Édouard.** . . . Note sur le résultat le plus important des études séricoles faites avec le concours de M. Eugène Robert, à la magnanerie expérimentale de Sainte-Tulle (Basses-Alpes).—Extrait du Journal d'observations scientifiques et pratiques de la campagne de 1851, par M. F.-E. Guérin-Ménéville. [Paris, Typographie Schneider, 1851]

8 p. 22 $\frac{1}{2}$ cm.

**Guérin-Ménéville, Félix Édouard.** Recherches sur la muscardine faites à la magnanerie de Sainte-Tulle, par MM. Guérin-Ménéville et Eugène Robert. [Marseille, 1847?]

12 p. 22cm.

Caption title.

**Mason, James Wood.** [Report on the disease among the silk-worms in India] [Calcutta, Government of India central printing office, 1887]

3 p. 28 $\frac{1}{2}$ cm.

**Méritan, Édouard.** De la gattine, son origine, les causes qui l'ont produite et son invasion épidémique. Moyens, pour la combattre, employés jusqu'à nos jours. Nos appréciations sur ce sujet. Par Édouard Méritan fils . . . Carpentras, Impr. de L. Devillario, 1858. Agr 4—3572

24 p. 21cm.

**Moniez, Romain Louis.** Note sur un parasite nouveau du ver à soie . . . [Paris] 1887.

2 p. 25<sup>em</sup>.

Extrait du Bulletin de la Société zoologique de France, t. XII, 1887.

**Nysten, Pierre Hubert.** Recherches sur les maladies des vers à soie, et les moyens de les prévenir, suivies d'une instruction sur l'éducation de ces insectes; ouvrage publié par ordre du ministre de l'intérieur, par P. H. Nysten . . . Paris, De l'imprimerie impériale, 1808.

Agr 4—329

2 p. l., 188 p. 21 $\frac{1}{2}$ <sup>em</sup>.

**Pasteur, Louis.** Études sur la maladie des vers à soie, moyen pratique assuré de la combattre et d'en prévenir le retour, par M. L. Pasteur . . . Paris, Gauthier-Villars, successeur de Mallet-Bachelier, 1870.

Agr 4—3581

2 v. front. (v. 1) illus., plates (partly col.) 23<sup>em</sup>.

CONTENTS.—tome I. La pébrine et la flacherie.—tome II. Notes et documents.

**Quatrefages de Bréau, Jean Louis Armand de.** Études sur les maladies actuelles du ver à soie, par A. de Quatrefages . . . Paris, V. Masson, 1859.

Agr 4—336

1 p. l., 382, [2], vii p. vi col. pl. 27<sup>em</sup>.

**Quatrefage de Bréau, Jean Louis Armand de.** Nouvelles recherches faites en 1859 sur les maladies actuelles du ver à soie, par A. de Quatrefages . . . Paris, V. Masson, 1860.

Agr 4—337

2 p. l., 120 p. 26 $\frac{1}{2}$ <sup>em</sup>.

**Robert, Eugène.** . . . Observations sur la muscardine. [Paris, 188—]

23 p. 24 $\frac{1}{2}$ <sup>em</sup>.

Agr 4—3597

Extrait des Annales de la Société séricicole.

**Sirand.** Étude sur la maladie des vers à soie et pratique du grainage suivant le procédé Pasteur. [Grenoble, Impr. de Prudhomme, 1868]

[3]—15 p. 22<sup>em</sup>.

Caption title.

**Vasco, Amedeo.** . . . Hygiène antimuscardinique du ver à soie, par M. Amédée Vasco . . . Précédé d'une lettre à M. le directeur du Moniteur des soies par le docteur G. Luppi. Lyon, Le moniteur des soies, 1883.

Agr 4—3621

32 p. 19<sup>em</sup>.

Mémoire lu et approuvé à l'Académie royale d'agriculture de Turin dans la séance du 5 décembre 1882.

**Vasco, Amedeo.** . . . Igiene anticalcinica del filugello . . . Memoria letta ed approvata nell' Adunanza delli 5 dicembre 1882 . . . Torino, 1883.

[3]—23 p. III fold. col. pl. 23 $\frac{1}{2}$ <sup>em</sup>.

Estratto dagli Annali della R. Accademia d' agricolt. di Torino, vol. xxvi.

**Verson, Enrico.** . . . Un affezione parassitaria del filugello non descritta ancora . . . Padova, Tipografia cooperativa, 1899.

Agr 5—61

11 p. pl. 23<sup>em</sup>. (R. Stazione bacologica sperimentale . . . XIII)

**Verson, Enrico.** . . . Recherches sur la gattine & la flacherie, par Verson . . . et Vlacovich . . . Montpellier, Imprimerie centrale du Midi, Ricateau, Hamelin et c<sup>e</sup>, 1874.

Agr 4—348

44 p. 26 $\frac{1}{2}$ <sup>em</sup>. (Station séricicole de Montpellier. Mémoires et documents sur la sériciculture [1. sér., 1. fasc.] )

#### SERICULTURAL PERIODICALS.

**American silk journal.** Devoted to the interests of the American silk industry and trade [monthly] Jan. 1882—Dec. 1890; Feb.—Dec. 1891; Jan. 1903—Dec., 1904. v. 1—9; v. 10, no. 2—12; v. 22—23. illus. f<sup>o</sup>. New York, 1882—[1904]

**American silk society.** See **Journal** of the American silk society and rural economist.

**Annuaire** du commerce des soies & soieries de France et de l'étranger, 1889. 12°. Lyon, 1889.

**Annuario serico**, vade-mecum per l'industria ed il commercio delle sete, 1888. v. 1. 8°. Milano [1888]

**Associazione delle industrie tessili.** See *La seta*.

**Bollettino mensile** di bachicoltura, 1874-Feb. 1892; Apr. 1892-Dec. 1898. v. 1-ser. 2, v. 9, no. 11; ser. 2, v. 10-ser. 3, v. 4. illus., plates. 8°. Padova, 1874-98.

Vol. 1-9, title reads: Bollettino di bachicoltura

Vol. 1-9 by Enrico Verson; ser. 2, v. 1-ser. 3, v. 4 by Enrico Quajat and Enrico Verson.

**Brandenburg. Verein zur beförderung des seidenbaues.** See **Verein zur beförderung des seidenbaues für die provinz Brandenburg; also Verein zur beförderung des seidenbaues in der mark Brandenburg und Niederlausitz.**

**Bulletin des soies & des soieries de Lyon**, organe international de l'industrie de la soie, Nov. 14, 1885-Oct. 15, 1892. v. 9, no. 450-v. 16, no. 808. f°. Lyon, 1885-[92] Vol. 10, 12-13, 15-16, incomplete.

Vol. 9-13, title reads: Bulletin des soies & des soieries de Lyon, revue hebdomadaire lyonnaise.

**California, Ladies' silk culture society of.** See **Ladies' silk culture society of California.**

**California silk culture association.** Annual report, 1st-2d, 1882-83. 8°. San Francisco, 1882-83.

For later reports, see *Ladies' silk culture society of California*.

**California—State board of silk culture.** Annual report of the State board of silk culture of California, 1st-2d, 1883-84. 8°. Sacramento, J. J. Ayers, supt. state printing, 1884-85.

**California—State board of silk culture.** First biennial report of the State board of silk culture of California for the years 1883-84. 8°. Sacramento, 1884.

**California—State board of silk culture.** . . . Bulletin of the State board of silk culture. no 1-2; June-Sept. 1883. 8°. San Francisco, California, 1883.

**California—State board of silk culture.** By-laws of the California State board of silk culture. Adopted and approved May 7th, 1885. 6p. 8°. Sacramento, J. J. Ayers, Supt. state printing, 1885.

**California—State board of silk culture.** Report of the State board of silk culture of California, for the year 1886, 1888. 8°. Sacramento, 1886-88.

**Congrès séricicole international.** 4th, *Montpellier, 1874.* Actes et mémoires. 319 p. 8°. Montpellier, 1875.

**Congresso bacologico internazionale.** 2d, *Udine, 1871.* Atti e memorie. 287 p. 8°. Udine, 1872.

**Congresso nazionale di bacologia e sericoltura.** 1st, *Torino, 1884.* Atti. 153 p. 8°. Torino, 1884.

**Congresso nazionale di bacologia e sericoltura.** 2d, *Varese, 1886.* Atti. 149 p. 8°. Varese, 1887.

**Congresso nazionale di bacologia e sericoltura.** 3d, *Cuneo, 1895.* Atti. 224 p. illus. 8°. Torino, 1895.

**École d'ailanticulture annexée à la ferme impériale de Vincennes.** See **Revue de sériciculture comparée.**

The **Family visitor and silk culturist** [weekly] Jan. 5-[Apr. 28] 1839; vol. 1, no. 1-[16] illus. 4°. New York, 1839.

**France, Laboratoire central de sériciculture des sociétés agricoles de.** See **Revue de sériciculture comparée.**

**France, Société séricicole pour la propagation et l'amélioration de l'industrie de la soie en.** See **Société séricicole pour la propagation et l'amélioration de l'industrie de la soie en France.**

**Giornale della industria serica**, ufficiale per l'Associazione serica e pel Museo nazionale di bacologia e sericoltura [weekly] May 21, 1887-Jan. 14, 1893. v. 21, no. 21-v. 27, no. 2. f°. Torino [1887-93]

Wanting v. 22, no. 8, 11-13, Feb. 25, Mar. 17-31, 1888; v. 23, no. 19, May 11, 1889; v. 26, no. 2, 11, 16, Jan. 9, Mar. 12, Apr. 16, 1892; v. 27, no. 1, Jan. 7, 1893. Also scattering numbers in v. 21 and v. 25.

**Göriz, Austria. I. R. Istituto bacologico sperimentale di Gorizia.** Annuario. 1873. 8° Gorizia, 1873.

**Italy—Ministero di agricoltura, industria e commercio—Direzione generale dell'agricoltura.** Campagna serica. 1890-96. v. 12, no. 1-6; v. 13, no. 2-6; v. 14, no. 1-5; v. 15, no. 1-7; v. 16, no. 1-7; v. 17, no. 1-7; v. 18, no. 1-6. 4° Roma, 1890-96.

Published as supplementary numbers to *Bollettino di notizie agrarie*.

**Japan. Station séréricole impériale.** See **Kyoto, Station séréricole impériale de.**

**Journal of the American silk society and rural economist** [monthly] Jan.-Dec. 1839. v. 1. illus. 8°. Baltimore, 1839.

**Kansas—Silk commissioner.** . . . Biennial report . . . 2d. 1889-90. 8°. Topeka, 1891.

**Kavkazskaiâ shelkovodstvennaiâ stantziâ.** Извѣстія Кавказской шелководственной станціи. (Приложение къ "Трудамъ Кавказской шелководственной станціи") 1898, no. 1-9; 1899, no. 1-5, 9; 1900, no. 1-4. 8°. Тифлисъ, 1898-1900.

Bulletin of the Caucasian sericultural station.

**Kavkazskaiâ shelkovodstvennaiâ stantziâ.** Труды Кавказской шелководственной станціи . . . v. 1-5, 6, pt. 1-3; v. 7, pt. 1-2; v. 8; v. 9, pt. 1-2; v. 10, pt. 1; v. 12, no. 3. 4°. Тифлисъ, 1889-1902.

Transactions of the Caucasian sericultural station.

**Kyoto, Station séréricole impériale de.** Rapport, 1904.\* v. 5-6. illus. 8°. [n. p., 1904]

Text in Japanese.

**Laboratoire central de sérériculture des sociétés agricoles de France.** See **Revue de sérériculture comparée.**

**Ladies' silk culture society of California.** Annual report, 4th-5th, 1888/89-89/90. 8° San Francisco, 1889-91.

For earlier reports, see *California silk culture association*.

**Ladies' silk culture society of California.** Constitution and by-laws. 39 p. 24°. San Francisco, 1885.

**Ladies' silk culture society of California.** Constitution and by-laws of the Ladies' silk culture society of California. Organized as the California silk culture association, November 18th, 1880, incorporated as the Ladies' silk culture society of California, January 2d, 1885. San Francisco, G. Spaulding & co., printers, 1885.

41 p. 15<sup>mm</sup>.

**Ladies' silk culture society of California.** Silk bulletin no. 1. 8°. [San Francisco, 188-?]

**Lyon, France. Laboratoire d'études de la soie.** Rapport, 1884-94. v. 1-7. illus., plates. 4°. Lyon, 1885-95.

**Le Moniteur des soies**, organe international et indépendant, journal hebdomadaire avec bulletin quotidien. Jan. 1, 1881-Dec. 30, 1882; Jan. 5, 1884-Feb. 27, 1892. v. 20, no. 957-v. 21, no. 1061; v. 23, no. 1114-v. 30, no. 1537. f°. Lyon [1881-92]

Vols. for 1885 and 1886 each numbered v. 24.

Wanting v. 20, no. 1009, Dec. 31, 1881; v. 24, no. 1184, May 9, 1885; v. 24, no. 1221, Jan. 23, 1886. Also several numbers in v. 25-26, 29. Library has only scattering numbers of 1882.

v. 20, no. 957-v. 23, no. 1165, title reads: *Le moniteur des soies, journal hebdomadaire avec bulletin quotidien*.

**Murcia** (*Spain*), **Estación sericícola de**. Resumen de los principales trabajos realizados en este establecimiento durante la campaña sedera de 1904. 8°. Murcia, 1904.

At head of title: Agricultura, industria y comercio.

**New England silk convention**. Annual report, 1st, 1842. 8°. Northampton, 1842.

**Padua**. **R. stazione bacologica sperimentale**. Annuario. 1873, 1882, 1898-1903. v. 2, 11, 27-32. 8°. Padova, 1874-1904.

**Padua**. **R. stazione bacologica sperimentale**. [Pubblicazione] 1-15. illus. 8°. Padova, 1887-1904.

**Revue de sériciculture comparée**, journal agricole formant les annales du Laboratoire central de sériciculture des sociétés agricoles de France et de l'École d'ailanticulture annexés à la ferme impériale de Vincennes, Feb. 23, 1863-Apr. 30, 1867. 8°. Paris, 1863-66.

Ed. by F. E. Guérin-Méneville.

**Rivista di bachicoltura** . . [semi-monthly] Dec. 16, 1889; Mar. 1, 1890-Dec. 16, 1894. v. 21, no. 28; v. 22, no. 5-v. 26. f°. Milano [1889-94]  
Incomplete.

Ceased publication Dec. 16, 1904. Ed. by Felice Franceschini.

**La Seta**, giornale settimanale, organo indipendente dell'industria, del commercio serico ed altri tessili, Dec. 29, 1884-Jan. 27, 1887; Jan. 29-Dec. 2, 1887; Dec. 15-Dec. 30, 1887. anno 2, no. 73-anno 4, no. 295; anno 4, no. 297-406; anno 4, no. 408-410. f°. Milano [1885-87]

anno 2, no. 73-172, title reads: *La seta, rivista periodica milanese del commercio e dell'industria serica* . . .

anno 3, title reads: *La seta, rivista periodica italiana del commercio* . . .

anno 2, no. 82-anno 3, organ of the *Associazione delle industrie tessili*,

anno 2, no. 72-anno 3, semi-weekly.

anno 4, no. 275-375, daily.

anno 4, no. 275-410 also numbered v. 4, no. 1-v. 6, no. 26.

**Silk association of America**. Annual report. 1st-14th. 1873-86. 8° (1st, 12°) New York, 1873-[86]

**Silk culture league of America**. *See Silk*.

**Silk**, devoted to the interests of the silkculturist and manufacturer, published monthly . . . Feb. 1903-Dec. 1904. v. 1-2, no. 9. illus. 4° Tallulah Lodge, Ga. [1903-04]

No numbers issued for Mar. 1903; Jan., Sept.-Oct. 1904.

Beginning with v. 1, no. 7, official organ of the Silk culture league of America.

The **Silk exhibit daily record**, Apr. 21-May 3, 1884. no. 1-12 and supplement. f°. [Philadelphia, 1884]

No more issued.

Published in the interest of the **Women's silk culture association** during their second silk exhibit.

**Société séricicole pour la propagation et l'amélioration de l'industrie de la soie en France**. Annales. 1847-48. v. 11-12. illus. 8°. Paris, 1848-49.

**Station séricicole impériale de Kyoto**. *See Kyoto, Station séricicole impériale de*.

**United States, Women's silk culture association of the**. *See Women's silk culture association of the United States*.

**Vincennes, École d'ailanticulture annexée à la ferme impériale de**. *See Revue de sériciculture comparée*.

**Women's silk culture association of the United States**. Annual report, 1st-10th, 1880/81-89/90. 8° (1st, 12°) Philadelphia, 1881-90.



**Women's silk culture association of the United States.** Bulletin no. 1—[3] 8°. Philadelphia, 1885-86.

No. 1, title reads: Bulletin no. 1 of the Women's silk culture association of the United States and the government experiment station.

**Women's silk culture association of the United States.** Constitution and by-laws . . . 12 p. 12°. Philadelphia, 1880.

**Women's silk culture association of the United States.** Report to the agricultural bureau at Washington . . . 1886/87-89/90. 8° (1886/87, 12°) Philadelphia, 1887-90.

**Women's silk culture association of the United States.** *See also* The Silk exhibit daily record.

## FAUNA.

### AFRICA.

**Distant, William Lucas.** *Insecta transvaaliensia; a contribution to a knowledge of the entomology of South Africa.* By W. L. Distant . . . assisted by many specialists. London, West, Newman & co., 1900-1904.

pt. I-VI. illus., xv pl. (partly col.) 324<sup>em</sup>.

**Distant, William Lucas.** . . . On some South-African insects. . . [London] 1899.

[178]-180 p. 214<sup>em</sup>.

From the *Annals and magazine of natural history*, ser. 7; vol III, February, 1899.

**Guérin-Méneville, Félix Édouard.** . . . *Insectes.* Paris, A. Bertrand [1849] cover-title, 1 p. l., [243]-398 p. 244<sup>em</sup>.

From *Voyage en Abyssinie exécuté pendant les années 1839-43 par une commission scientifique composée de MM. Théophile Lefebvre . . . A. Petit et Martin Dillon* 4 ptie. *Histoire naturelle—Zoologie* . . . Tome 6.

[**Klug, Johann Christoph Friedrich**] [*Symbolæ physicae, seu Icones et descriptiones insectorum quæ ex itinere per Africam borealam et Asiam occidentalem F. G. Hemprich et C. G. Ehrenberg studio novæ aut illustratæ redierunt. Persequensuit . . . P. Klug*] [*Berolini, ex officina academica, 1829-45*]

unp. 50 col. pl. 49<sup>em</sup>.

Issued in 5 pts.

Title-page wanting.

From C. G. Ehrenberg's *Symbolæ physicae, seu Icones et descriptiones corporum naturalium novorum aut minus cognitorum . . . Pars zoologica I.* 1828-45.

**Kolbe, Hermann Julius.** . . . *Beiträge zur zoogeographie Westaflicas nebst einem bericht über die während der Loango-expedition von Herrn Dr. Falkenstein bei Chinchoxo gesammelten Coleoptera, von Hermann Julius Kolbe . . . Mit 3 tafeln nr. XIV-XVI. Eingegangen bei der Akademie am 9. januar 1884. Halle, 1887.* 212 p. 3 col. pl. 324<sup>em</sup>. (*Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher. Bd. L, nr. 8*)

"Verzeichniss der für diese arbeit benutzten litteratur" : p. 208-210.

**Macleay, William Sharp.** *Illustrations of the Annulosa of South Africa, being a portion of the objects of natural history chiefly collected during an expedition into the interior of South Africa, under the direction of Dr. Andrew Smith, in the years 1834, 1835, and 1836; fitted out by "The Cape of Good Hope association for exploring central Africa."* By W. S. Macleay . . . Published under the authority of the Lords commissioners of Her Majesty's treasury. London, Smith, Elder and co., 1838.

3 p. l., 75 p. 4 col. pl. 32 × 26<sup>em</sup>. (*Added t. p.: Illustrations of the zoology of South Africa. . . By Andrew Smith . . . Invertebratae.* 1849)

**Negreiros, Almada.** Sur les arthropodes du Mozambique et de San Thomé offerts au Muséum . . . [Paris] 1901.

4 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle. —1901, n<sup>o</sup> 1, p. 12.

**Palisot de Beauvois, Ambroise Marie François Joseph.** Insectes recueillis en Afrique et en Amérique, dans les royaumes d'Oware et de Benin, à Saint-Domingue et dans les États-Unis, pendant les années 1786–1797; par A.-M.-F.-J. Palisot de Beauvois . . . Paris, Impr. de Fain et compagnie [etc.] 1805.

2 p. l., xvi, 276 p. col. plates. 39<sup>cm</sup>.

Date of publication given by Hagen and others as 1805–21.

**Riley, Charles Valentine.** . . . Scientific results of the U. S. eclipse expedition to West Africa, 1889–'90. Report on the Insecta, Arachnida, and Myriapoda Washington, 1893.

cover title, 565–590 p. illus., pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xvi, p. 565–590 . . . (No. 951.)

**Thomson, James.** Voyage au Gabon. Histoire naturelle des insectes et des arachnides recueillis pendant un voyage fait au Gabon en 1856 et en 1857 par M. Henry C. Deyrolle sous les auspices de MM. le comte de Mniszech et James Thomson, précédée de l'histoire du voyage par M. James Thomson . . . Arachnides, par M. H. Lucas . . . [Paris, Au bureau du trésorier de la Société entomologique de France, 1858]

469, [2] p. xiv col. pl. 27<sup>cm</sup>. (*Added t.-p.*: Archives entomologiques . . . par M. James Thomson. t. 2)

CONTENTS.—Histoire du voyage [par M. James Thomson]—Ordre coléoptères [par M. James Thomson]—Supplément aux coléoptères, par M. A. Chevrolat.—Ordre orthoptères, par M. Léon Fairmaire.—Ordre névroptères, par M. Léon Fairmaire.—Ordre hyménoptères, par M. Léon Fairmaire.—Ordre hémiptères, par MM. Léon Fairmaire et Signoret.—Lepidopteridæ [par M. James Thomson]—Diptères, par M. J. Bigot.—Aptères [par M. H. Lucas]

**Westwood, John Obadiah.** Matabele land and the Victoria Falls from the letters and journals of the late Frank Oates, F. R. G. S. Appendix iv. Entomology by J. O. Westwood. London, C. K. Paul & co., 1882.

1 p. l., [331]–365 p. 4 pl. (3 col.) fold. map. 22 $\frac{1}{2}$ <sup>cm</sup>.

**Wollaston, Thomas Vernon.** Insecta maderensia; being an account of the islands of the Madeiran group. By T. Vernon Wollaston . . . London, J. Van Voorst, 1854.

xliii, 634 p. xliii col. pl. 32 $\frac{1}{2}$ <sup>cm</sup>.

**Wulfen, Franz Xaver.** Xaverii Wulfen Descriptiones quorundam Capensium insectorum. Erlangæ, Sumtu W. Waltheri, 1786.

xl p. 11 pl. 27<sup>cm</sup>.

### AMERICA.

**Ashmead, William Harris, ed.** Reports upon the insects, spiders, mites, and myriapods collected by Dr. L. Stejneger and Mr. G. E. H. Barrett-Hamilton on the Commander Islands. Ed. by William H. Ashmead . . . Washington, Govt. print. off., 1899.

cover-title, 328–351 p. pl. 28<sup>cm</sup>.

Extracted from The fur seals and fur-seal islands of the North Pacific ocean, pt. iv, pp. 328–351.

CONTENTS.—Coleoptera. By Martin L. Linell and E. A. Schwarz.—Lepidoptera. By H. G. Dyar.—Hymenoptera and Rhynchota. By William H. Ashmead.—Diptera and Siphonaptera. By D. W. Coquillett.—Plecoptera, Trichoptera, and Arachnida. By Nathan Banks.—Myriapoda. By Prof. O. F. Cook.

**Bethune, Charles James Stewart . . .** The rise and progress of entomology in Canada . . . [Toronto, 1898]

cover-title, 155–165. 25<sup>cm</sup>.

From the Transactions of the Royal society of Canada. 2d series—1898–99. vol. iv. section iv.

**Blanchard, Émile, i. e., Charles Émile.** Insectes de l'Amérique méridionale, recueillis par Alcide d'Orbigny, et décrits par Émile Blanchard . . . et Auguste Brullé . . . [Paris, P. Bertrand; Strasbourg, V° Levrault, 1837-43]

4 p. l., 222 p. 32 col. pl. 36<sup>em</sup>. (Added t.-p.: Voyage dans l'Amérique méridionale . . . exécuté pendant les années 1826, 1827, 1828, 1829, 1830, 1831, 1832 et 1833, par Alcide d'Orbigny . . . tome 6. 2. pte: Insectes)

[**Brodie, William**] Check list of insects of the Dominion of Canada. Compiled by the Natural history society of Toronto . . . July 1883. Toronto, Printed by C. B. Robinson, 1883.

iv, 67 p. 21 $\frac{1}{2}$ <sup>em</sup>.

Preface signed by W. Brodie and J. E. White.

**Cockerell, Theodore Dru Alison.** . . . Contributions to the entomology of New Mexico . . . Davenport, Iowa, 1898.

cover-title, 139-156 p. 24 $\frac{1}{2}$ <sup>em</sup>.

Reprinted from vol. VII, Proceedings of the Davenport academy of natural sciences, Davenport, Iowa.

Published from the income of the Putnam memorial fund.

**Cockerell, Theodore Dru Alison.** . . . New and little-known insects from New Mexico . . . [London, 1901]

[333]-337 p. 22 $\frac{1}{2}$ <sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. VII, April 1901.

**Cockerell, Theodore Dru Alison.** On some insects in the state of Chihuahua, Mexico . . . [London, 1895]

[204]-210 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 6, vol. xv., February, 1895.

**Davis, B. M.** Some common insects of southern California, with references to literature . . . [San Diego?, 1904]

[8] p. 23 $\frac{1}{2}$ <sup>em</sup>.

From Proceedings of the Southern California teachers' association for 1904.

**Gundlach, Juan.** Contribución á la entomología cubana, por el Dr. Juan Gundlach . . . Habana, Imp. "La Antilla," de Cacho-Negrete, 1881-91.

3 v. 23 $\frac{1}{2}$ <sup>em</sup>.

**Harriman Alaska Expedition.** . . . Insects . . . New York, Doubleday, Page & company, 1904.

2 v. fronts. (v. 1, col.) illus., 19 pl. 26<sup>em</sup>. (Harriman Alaska expedition with cooperation of Washington academy of sciences. Alaska. vol. VIII-IX)

**Harrington, W. Hague.** Extra limital insects found at Ottawa . . . [Ottawa], 1899.

1 p. l., [117]-125 p. 22<sup>em</sup>.

Reprinted from the Ottawa naturalist, vol. XIII, no. 5, August, 1899.

**Hart, Charles Arthur.** I. On the entomology of the Illinois river and adjacent waters. By C. A. Hart. II. Description of three new parasitic Hymenoptera from the Illinois river. By Wm. H. Ashmead. Springfield, Ill., H. W. Rokker, printer and binder, 1895.

iv, [149]-284 p. xv pl. 22 $\frac{1}{2}$  cm. (On cover: Bulletin of the Illinois state laboratory of natural history . . . vol. IV. art. VI-VII.)

**Howard, Leland Ossian.** . . . Annotated catalogue of the insects collected in 1837-38. Washington, 1889.

185-216 p. 24 $\frac{1}{2}$ <sup>em</sup> (Scientific results of explorations by the U. S. Fish commission steamer Alba. tross. v)

From the Proceedings of the United States national museum, vol. XII, p. 185-216. [No. 771.]

**Howard, Leland Ossian.** A list of the invertebrate fauna of South Carolina. By L. O. Howard. Charleston, S. C., Walker, Evans & Cogswell, printers [1882]

47 p. 25<sup>em</sup>.

This article forms chapter XI of a "Hand book of the state of South Carolina," published by the state.

"List of works:" p. 2-3; also a short list: p. 47.

**Jaeger, Benedict.** The life of North American insects; illustrated by numerous colored engravings and narratives. By Prof. B. Jaeger, assisted by H. C. Preston, M. D. Published for the author. Providence, Sayles, Miller and Simons, printers, 1854.

iv, 204 p. front. (port.) vi col. pl. 23<sup>mm</sup>.

"Life of Sir Hans Sloane;" p. 1-16.

**Jones, William.** Observations on the insects of Jamaica . . . [Kingston, Jamaica, 1894]

368-372 p. 25<sup>mm</sup>.

From the Journal of the Institute of Jamaica, vol. 1.

**Kirby, William.** Fauna boreali-americana. Part the fourth and last. The insects. By the Rev. William Kirby . . . [Norwich, J. Fletcher, 1837]

xxxix, 325, [1] p., 1 l. viii pl. 26½<sup>mm</sup>. (Fauna boreali-americana; or The zoology of the northern parts of British America . . . by John Richardson . . . assisted by William Swainson . . . and the Reverend William Kirby . . . [pt. 4])

"List of authors referred to in this volume in addition to those referred to in the preceding volumes;" p. [xxix]-xxxix.

**Klug, Johann Christoph Friedrich.** Entomologiæ brasilianæ specimen. Dedit Dr. Fr. Klug . . . [Halle, 1821]

1 p. l., [279]-324 p. xxi-xxiii col. pl. 27½<sup>mm</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. vol. x.

— Entomologiæ brasilianæ specimen alterum, sistens insectorum Coleopterorum nondum descriptorum centuriam. Scripsit Fridericus Klug . . . [Halle, 1825]

1 p. l., 421-476 p. xl-xliv col. pl. 27½<sup>mm</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. vol. xii.

**Latreille, Pierre André.** . . . Insectes de l'Amérique équinoxiale, recueillis pendant le voyage de MM. de Humboldt et Bonpland, et décrits par M. Latreille. [Paris, 1805?-11]

2 pts. col. plates. 36<sup>mm</sup>.

From Humboldt and Bonpland's Voyage dans l'intérieur de l'Amérique méridionale dans les années 1799-1804. 2. ptie. Recueil d'observations de zoologie et d'anatomie comparée. 1. vol., p. 127-252, 9-64, pl. xv-xviii, xxii-xxv, xxxi-xxxiv.

Another copy contains pl. xix-xxi, designed to accompany Latreille's Des abeilles (p. 260-297 of same vol. of Humboldt and Bonpland) but Library does not possess the text.

Library has also another (earlier?) ed. of pt. 1 of the Insectes with paging 197-283, 344-397 and pl. xv-xviii, xxii-xxv.

**Lucas, Hippolyte i. e. Pierre Hippolyte.** Animaux nouveaux ou rares recueillis pendant l'expédition dans les parties centrales de l'Amérique du Sud, de Rio de Janeiro à Lima, et de Lima au Para; exécutée par ordre du gouvernement français pendant les années 1843 à 1847, sous la direction du comte Francis de Castelnau. Ouvrage qui a obtenu une médaille hors ligne de la Société de géographie. Entomologie par M. H. Lucas . . . Paris, P. Bertrand, 1857.

2 p. l., 204 p. 20 col. pl. 82<sup>mm</sup>. (Cover-title: Expédition dans les parties centrales de l'Amérique du Sud . . . 7. ptie. Zoologie. Entomologie)

**Packard, Alpheus Spring.** . . . List of hymenopterous and lepidopterous insects collected by the Smithsonian expedition to South America, under Prof James Orton . . . [Salem, Mass., 1869]

56-69 p. 24<sup>mm</sup>.

From the First annual report of the trustees of the Peabody academy of science, January, 1869.

**Packard, Alpheus Spring.** List of the spiders, myriopods and insects of Labrador. [n. p., n. d.]

8 p. 23<sup>mm</sup>.

**Packard, Alpheus Spring.** Report on the insects collected on the Penobscot and Allequash Rivers, during August and September, 1861 . . . [Angusta, 1861]

[378]-376 p. 24<sup>mm</sup>.

From the Sixth Annual report of the Secretary of the Maine Board of agriculture 1861.

**Palisot de Beauvais, Ambroise Marie François Joseph.** Insectes recueillis en Afrique et en Amérique. *See under Africa*, p. 138.

**Perty, Maximilian.** Delectus animalium articulorum, quæ in itinere per Brasiliam annis MDCCCXVII-MDCCCXX jussu et auspiciis Maximiliani Josephi I. Bavarie regis augustissimi peracto collegerunt Dr. J. B. de Spix . . . et Dr. C. F. Ph. de Martius. Digessit, descripsit, pingenda curavit Dr. Maximilianus Perty . . . præfatus est et edidit Carol. Frideric Philip. de Martius . . . Accedit dissertatio de insectorum in America meridionali habitantium vitæ genere, moribus et distributione geographica. Monachii, Impensis editoris, 1830-34.

1 p. l., iii, 44, 224 p. 40 pl. 86<sup>em</sup>.

"Opera in descriptionibus citata:" p. [223]-224.

**Provancher, Léon.** Petite faune entomologique du Canada et particulièrement de la province de Québec . . . par l'Abbé L. Provancher . Québec, Typographie de C. Darveau, 1883.

v. 2. illus. 22<sup>em</sup>.

Pages 361-364 lacking.

CONTENTS.—Vol. II. Comprenant les orthoptères les névroptères et les hyménoptères.

— Additions et corrections au volume II de la Faune entomologique du Canada traitant des hyménoptères, par l'Abbé L. Provancher. Québec, Typographie de C. Darveau, 1889.

6-361

476 p., 1 l. illus. 23<sup>em</sup>.

Pages 51-54, 377-392 lacking.

**Riley, Charles Valentine.** Entomology in Missouri . . . [Salem, 1874]

10 p. 24<sup>em</sup>.

From the American naturalist, vol. VIII, March and April, 1874.

**Riley, Charles Valentine.** . . . Report on a small collection of insects made during the Death Valley expedition, by C. V. Riley, PH. D. List of Diptera from Death Valley, California, and adjoining regions, by S. W. Williston, M. D. Hemiptera and Heteroptera of the Death Valley expedition, by P. R. Uhler . . . [Washington, 1893]

cover-title, 235-268 p. 23<sup>em</sup>.

At head of title: U. S. Department of Agriculture. Division of ornithology and mammalogy.

From North American fauna, no. 7, p. 235-268, May 31, 1893.

**Rivera, Manuel J.** Desarrollo i costumbres de algunos insectos de Chile, por Manuel J. Rivera . . . Santiago de Chile, Imprenta Cervantes, 1904.

pt. 1. illus. 25<sup>em</sup>.

Estracto de las Actas de la Sociedad científica de Chile.

CONTENTS.—Pt. 1. Coleópteros.

**Say, Thomas.** The complete writings of Thomas Say on the entomology of North America. Ed. by John L. Le Conte, M. D. With a memoir of the author, by George Ord . . . New York, Baillièrre brothers; London, H. Baillièrre, [etc., etc.] 1859.

2 v. 54 (i. e. 55) pl. (54 col.) 23<sup>em</sup>.

Agr 5-237

**Scudder, Samuel Hubbard.** The distribution of insects in New Hampshire. A chapter from the first volume of the Final report upon the geology of New Hampshire. By Samuël H. Scudder . . . Concord, N. H., E. A. Jenks, state printer, 1874.

cover-title, [331]-384 p., 1 l. pl., 2 maps. 26½<sup>em</sup>.

**Scudder, Samuel Hubbard.** Remarks on some characteristics of the insect-fauna of the White Mountains, New Hampshire . . . [Boston, 1863]

612-631 p. xiv-xv pl. 23<sup>em</sup>.

From the Boston journal of natural history, vol. VII.

**Smith, John Bernhard.** Catalogue of insects found in New Jersey . . . Trenton, N. J., Printed by the J. L. Murphy publishing co., 1890.

Agr 3-1151

cover-title, 486 p. 24½<sup>em</sup>.

Half-title.

From the Final report of the state geologist, vol. II.

**Smith, John Bernhard.** . . . Insects of New Jersey; a list of the species occurring in New Jersey, with notes on those of economic importance, by John B. Smith . . . Printed as a supplement to the Twenty-seventh annual report of the State board of agriculture. Trenton, N. J., MacCrellish & Quigley, state printers, 1900.

2 p. l., 755 p. front., illus., plates, fold. maps. 23<sup>cm</sup>.

At head of title: State of New Jersey.

— . . . Insects of New Jersey, a supplemental index, giving popular names and the chief crops preyed upon by destructive species. By John B. Smith . . . Printed for the New Jersey state board of agriculture. To be used with the supplement to the 27th annual report (1899) entitled "Insects of New Jersey." Camden, N. J., S. Chew & sons, printers, 1901.

9 p. 23<sup>cm</sup>.

**Snow, Francis Huntington.** Lists of Lepidoptera and Coleoptera collected in New Mexico by the Kansas university scientific expeditions of 1881 and 1882. [Topeka, 1883]

35-57 p. 22 $\frac{1}{2}$ <sup>cm</sup>.

From the Transactions of the Kansas academy of science, 1881-82, vol. VIII.

**Townsend, Charles Henry Tyler.** Insects in popular dread in New Mexico . . . [New York, 1892]

[1] p. 30<sup>cm</sup>.

From Science, June 17, 1892.

**Uhler, Philip Reese.** . . . Report upon the insects collected by P. R. Uhler during the explorations of 1875, including monographs of the families Cydnidæ and Saldæ, and the Hemiptera collected by A. S. Packard, jr., M. D. . . . Washington, 1877.

[355]-475, 765-801 p. 27-28 pl. 23<sup>cm</sup>. (Department of the interior. United States geological and geographical survey. F. V. Hayden, U. S. geologist-in-charge)

Extracted from the Bulletin of the Survey, vol. III, no. 2, no. 4.

**Webster, Francis Marion.** Biological effects of civilization on the insect fauna of Ohio. [n. p., 1897?]

15 p. illus. 23 $\frac{1}{2}$ <sup>cm</sup>.

From the Fifth annual report of the Ohio state academy of science.

**Webster, Francis Marion.** Some insect immigrants in Ohio . . . New York, 1893.

[57]-59 p. illus. 29<sup>cm</sup>.

From Science, vol. XXI, no. 522, February 3, 1893.

**Wickham, Henry Frederick.** List of insects collected by Mr. Frank Russell, in the Northwest Territory, Canada . . . Iowa City, Iowa, 1898.

[1], 276-280 p. 24<sup>cm</sup>.

From Explorations in the far north by Frank Russell.

### ARCTIC REGIONS.

**Aurivillius, Per Olof Christopher.** Insektlifvet i arktiska länder . . . Stockholm, 1884.

1 p. l., 405-459 p. 25 $\frac{1}{2}$ <sup>cm</sup>.

Ur: "A. E. Nordenskiöld, Studier och forskningar föranledda af mina resor i höga Norden."

**McLachlan, Robert.** . . . Report on the insects (including Arachnida) collected by Captain Feilden and Mr. Hart between the parallels of 78° and 83° north latitude, during the recent Arctic expedition . . . [London, 1879]

98-122 p. 21 $\frac{1}{2}$ <sup>cm</sup>.

Extracted from the Linnean society's Journal—Zoology, vol. XIV.

**Packard, Alpheus Spring.** Explorations of the Polaris expedition to the North Pole. [Boston, 1877]

2 p. 22<sup>cm</sup>.

From the American naturalist, January, 1877, vol. XI, p. 51-58.

## ASIA.

**Donovan, Edward.** Natural history of the insects of China, containing upwards of two hundred and twenty figures and descriptions, by E. Donovan . . . A new ed. brought down to the present state of the science, with systematic characters of each species, synonyms, indexes, and other additional matter, by J. O. Westwood . . . London, H. G. Bohn, 1842.

Agr 3—1248

3 p. l., 96 p. 50 col. pl. 31<sup>em</sup>.

**Donovan, Edward.** Natural history of the insects of India, containing upwards of two hundred and twenty figures and descriptions, by E. Donovan . . . A new ed. brought down to the present state of the science, with systematic characters of each species, synonyms, indexes, and other additional matter, by J. O. Westwood . . . London, H. G. Bohn, 1842.

Agr 3—1249

vi, 102 p. LVIII col. pl. 31<sup>em</sup>.

**Kirby, William Forsell.** . . . Notes on some insects from Yang-tse-Kiang . . . [London] 1900.

[380]—382 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. vi, October 1900. .

**Klug, Johann Christoph Friedrich.** Symbolæ physicæ. *See under* Fauna. Africa, p. 137.

**Linell, Martin Lawson.** . . . On the insects collected by Dr. Abbott on the Seychelles, Aldabra, Glorioso, and Providence Islands, with descriptions of nine new species of Coleoptera . . . Washington, 1897.

cover-title, 695-706 p. 24<sup>1</sup>/<sub>2</sub><sup>em</sup>.

From the Proceedings of the United States national museum, vol. xix, pages 695-706. &lt;no. 1119&gt;

**Westwood, John Obadiah.** The cabinet of oriental entomology; being a selection of some of the rarer and more beautiful species of insects, natives of India and the adjacent islands, the greater portion of which are now for the first time described and figured. By J. O. Westwood . . . London, William Smith, 1848.

1 p. l., 2, 88 p. 42 col. pl. 30<sup>em</sup>.

**Zincken, Julius Leopold Theodor Friedrich, called Sommer.** . . . Beitrag zur insecten-fauna von Java. Erste abtheilung, mit den figuren 1. bis. 19. Tab. xiv, xv, xvi. [n. p., 1831]

[129]—194 p. 3 col. pl. 28<sup>1</sup>/<sub>2</sub><sup>em</sup>.

At head of title: Dr. Jul. Leop. Theod. Friedr. Zinken genannt Sommer.

From Nova acta Acad. natur. curios. 1831. vol. xv, p. i.

## AUSTRALASIA.

**Erichson, Wilhelm Friedrich.** Beitrag zur insecten-fauna von Vandiemensland, mit besonderer berücksichtigung der geographischen verbreitung der insecten, vom herausgeber . . . [Berlin, 1842]

83-288 p. iv-v pl. 21<sup>1</sup>/<sub>2</sub><sup>em</sup>.

Caption title.

From Archiv für naturgeschichte. jahrg. viii, bd. 1.

**Hudson, George Vernon.** An elementary manual of New Zealand entomology. Being an introduction to the study of our native insects. By G. V. Hudson . . . London, West, Newman, & co., 1892.

4 p. l., 128 p., 20 l. col. front., xx col. pl. 22<sup>1</sup>/<sub>2</sub><sup>em</sup>.

**Hutton, Frederick Wollaston.** . . . Catalogues of the New Zealand Diptera, Orthoptera, Hymenoptera; with descriptions of the species. By Frederick Wollaston Hutton. . . . Wellington, New Zealand, G. Didsbury, government printer, 1881.

x, 132 p. illus. 24<sup>1</sup>/<sub>2</sub><sup>em</sup>.

At head of title: Colonial museum and geological survey of New Zealand.

**Montrouzier, A.** Essai sur la faune de l'île de Woodlark ou Moiou, par le P. Montrouzier . . . Lyon, F. Dumoulin, 1857.

2 p. l., 226, 7 p. 26<sup>em</sup>.

**Rainbow, William Joseph.** The Insecta and Arachnida of the county of Cumberland . . . [Melbourne, etc., 1898.]

[143]-150 p. 16<sup>cm</sup>.

"Reprinted from Handbook of Sydney and the county of Cumberland. For the . . . Australasian association for the advancement of science."

**Tepper, J. Gottlieb Otto.** Common native insects of South Australia. A popular guide to South Australian entomology. By J. G. O. Tepper . . . Adelaide, E. S. Wigg & son, 1890.

pt. II. 20½ x 16½ <sup>cm</sup>.

pt. II first published in Garden and field, vol. XII-XIII.

CONTENTS.—pt. II Lepidoptera, or Butterflies and moths. 1890.

**White, Adam.** . . . Insects. By Adam White . . . and Arthur Gardiner Butler . . . London, E. W. Janson, 1846-1874.

1 p. 1., 51 p. 10 pl. 31<sup>cm</sup>. (The zoology of the voyage of H. M. S. Erebus & Terror . . . Ed. by John Richardson . . . and John Edward Gray . . .)

## EUROPE.

**Albin, Eleazar.** A natural history of English insects. Illustrated with a hundred copper plates curiously engraven from the life: and (for those who desire it) exactly coloured by the author, Eleazar Albin, painter. London, Printed for the author, and sold by W. and J. Innys, 1720.

6 p. 1., 100 l. 100 col. pl. 28½ <sup>cm</sup>.

**Cederhjelm, Johann.** Faunæ ingriscæ prodromus exhibens methodicam descriptionem insectorum agri petropolensis præmissa mammalium, avium, amphibiorum et piscium enumeratione. Auctore Johanne Cederhielm . . . Lipsiæ, Impensis I. F. Hartknoch, 1798.

xviii, [2], 348 p. III col. pl. 22½<sup>cm</sup>.

**Cirillo, Domenico.** . . . Entomologiæ neapolitanæ specimen primum. Neapoli, 1787.

15 l. XII col. pl. 47<sup>cm</sup>.

Engr. t. p. & engr. dedication.

At head of title: "Dominici Cyrilli" . . .

Agr 3-152

**Curtis, John.** British entomology; being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species and in many instances of the plants upon which they are found. By John Curtis . . . London, Printed for the author, 1824-39.

16 v. 769 (i. e. 770) col. pl. 26<sup>cm</sup>.

**Curtis, John.** A guide to an arrangement of British insects; being a catalogue of all the named species hitherto discovered in Great Britain and Ireland. By John Curtis . . . London, Printed for the author, 1829.

vi p., 256 col., [1] p. 21½<sup>cm</sup>.

Agr 4-1778

**Donovan, Edward.** The natural history of British insects; explaining them in their several states, with the periods of their transformations, their food, æconomy, &c. together with the history of such minute insects as require investigation by the microscope. The whole illustrated by coloured figures, designed and executed from living specimens. By E. Donovan. London, Printed for the author, and for F. & C. Rivington, 1792-1813.

16 v. DLXXXVI col. pl. 24<sup>cm</sup>.

Agr 3-1131

Vol. 2-16, Printed for the author, and for F. C. and J. Rivington.

**Dufts Schmid, Kaspar.** Fauna Austriæ, oder Beschreibung der österreichischen insecten für angehende freunde der entomologie Von Kaspar Dufts Schmid . . . Linz und Leipzig, Im verlag der K. K. Priv. Akademischen kunst-, musik-, und buchhandlung, 1805-25.

3 v. 13<sup>cm</sup>.

Agr 5-144



**Förster, Arnold.** Der Lousberg bei Aachen, eine naturhistorische skizze . . . [Aachen, 1871]

[3]—50 p. 25 x 20<sup>mm</sup>.

From Programm der Realschule erster ordnung zu Aachen, für das schuljahr 1870/71.

**Fourcroy, Antoine François de.** Entomologia Parisiensis, sive Catalogus insectorum quæ in agro parisiensi reperiuntur; secundum methodum Geoffræanum in sectiones, genera & species distributus: cui addita sunt nomina trivalia & fere trecentæ novæ species. Edente A. F. de Fourcroy . . . Parisiis, 1785.

2 v. in 1. 144<sup>mm</sup>.

Paged continuously; pt. 1: vii, [1], 231 p.; pt. 2: [233]—544 p.

**Frisch, Johann Leonhard.** . . . Beschreibung von allerley insecten in Teutschland, nebst nützlichen anmerckungen und nöthigen abbildungen von diesem kriechenden und fliegenden inländischen gewürme, zur bestâtigung und fortsetzung der gründlichen entdeckung, so einige von der natur dieser creaturen hrsg., und zur ergänzung und verbesserung der andern . . . Berlin, C. G. Nicolai, 1721—38.

13 pts. in 1 v., illus., plates (partly fold.) 21<sup>cm</sup>.

At head of title: Joh. Leonhard Frisch.

1 th. is [Ed. 2].

[**Geoffroy, Étienne Louis**] Histoire abrégée des insectes qui se trouvent aux environs de Paris; dans laquelle ces animaux sont rangés suivant un ordre méthodique . . . Paris, Durand, 1762.

2 v. xxii pl., fold. tab. 26<sup>cm</sup>.

**Harris, Moses.** Exposition of English insects including the several classes of Neuroptera, Hymenoptera, & Diptera, or bees, flies, & Libellulæ. Exhibiting on 51 copper plates near 500 figures, accurately drawn, & highly finished in colours, from nature. The whole minutely described, arranged, & named, according to the Linnean system, with remarks. The figures of a great number of moths, not in the Aurelian collection, formerly published by the same author, and a plate with an explanation of colours, are likewise given in the work. By Moses Harris. London, Sold by Mr. White & Mr. Robson, 1782.

2 p. l., viii, [9]—166, [4] p. 52 pl. (51 col.) 30<sup>cm</sup>.

Engr. t.-p.

Added title: Exposition des insectes qui se trouvent en Angleterre . . . par Moysse Harris. Londres, Chez B. White et J. Edwards, 1786.

Text in English and French.

**Heeger, Ernst.** Beiträge zur naturgeschichte der insecten. Als beiträge zur fauna Oesterreichs . . . Von Ernst Heeger . . . [Wien, 1851] Agr 3—1060—1077

1 p. l., 33 p. xi (i. e. 12) pl. 23<sup>cm</sup>.

Aus dem juni-u. juli-hefte des jahrganges 1851 der Sitzungsberichte der math.-naturw. classe der Kais. Akademie der wissenschaften besonders abgedruckt.

— Beiträge zur naturgeschichte der physopoden (blasenfüsse). Von Ernst Heeger . . . [Wien, 1852] Agr 3—1060—77

20 p. x fold. pl. 23<sup>cm</sup>

Aus dem jahrgange 1852 der Sitzungsberichte der math.-naturw. classe der Kais. Akademie der wissenschaften <viii. bd.> besonders abgedruckt.

— Beiträge zur naturgeschichte der insecten. Von Ernst Heeger . . . [Wien, 1852] Agr 3—1060—77

26 p. xii—xvi pl. 23<sup>cm</sup>.

Aus dem juli-hefte des jahrganges 1852 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <ix. bd., s. 263> besonders abgedruckt.

— Beiträge zur insecten-fauna Österreichs. Von Ernst Heeger. (5. fortsetzung . . .) [Wien, 1852] Agr 3—1060—77

20 p. xvii—xxi pl. (3 fold.) 25<sup>cm</sup>.

Aus dem octoberhefte des jahrganges 1852 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <ix. bd., s. 473> besonders abgedruckt.

- Beiträge zur naturgeschichte der insecten. Von Ernst Heeger . . . [Wien, 1852] Agr 3—1060-77  
 11 p. iv pl. 23<sup>em</sup>.  
 Aus dem novemberhefte des jahrganges 1852 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <bd. ix, s. 774> besonders abgedruckt.
- — [Wien, 1853] Agr 3—1060-77  
 28 p. vi pl. 23<sup>em</sup>.  
 Aus dem jännerhefte des jahrganges 1853 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <x. bd., s. 7> besonders abgedruckt.
- — [Wien, 1853] Agr 3—1060-77  
 20 p. vi pl. 23<sup>em</sup>.  
 Aus dem februarhefte des jahrganges 1853 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <x. bd., s. 161> besonders abgedruckt.
- — [Wien, 1853] \* Agr 3—1060-77  
 24 p. vi pl. 23<sup>em</sup>.  
 Aus dem aprilhefte des jahrganges 1853 der Sitzungsberichte der mathem.-naturw. classe der Kai. Akademie der wissenschaften <x. bd., s. 460> besonders abgedruckt.
- — [Wien, 1853] Agr 3—1060-77  
 24 p. vi pl. 23<sup>em</sup>.  
 Aus dem junihefte des jahrganges 1853 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <xi. bd., s. 24> besonders abgedruckt.
- — [Wien, 1853] Agr 3—1060-77  
 18 p. vi pl. 23<sup>em</sup>.  
 Aus dem decemberhefte des jahrganges 1853 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <bd. xi, s. 927> besonders abgedruckt.
- — [Wien, 1854] Agr 3—1060-77  
 16 p. v pl. 23<sup>em</sup>.  
 Aus dem octoberhefte des jahrganges 1854 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <bd. xiv, s. 28> besonders abgedruckt.
- — [Wien, 1854] Agr 3—1060-77  
 13 p. iv pl. 23<sup>em</sup>.  
 Aus dem novemberhefte des jahrganges 1854 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <bd. xiv, s. 273> besonders abgedruckt.
- Beiträge zur naturgeschichte der insecten Österreichs. Von Ernst Heeger. [Wien, 1854] Agr 3—1060-77  
 11 p. ii fold. pl. 23<sup>em</sup>.  
 Aus dem decemberhefte des jahrganges 1854 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <bd. xiv, s. 365> besonders abgedruckt.
- Beiträge zur naturgeschichte der insecten. Von Ernst Heeger. (15. folge . . .) [Wien, 1855] Agr 3—1060-77  
 17 p. iv pl. 24<sup>em</sup>.  
 Aus dem novemberhefte des jahrganges 1855 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <bd. xviii, s. 33> besonders abgedruckt.
- — (16. fortsetzung) Wien, Aus der Kais.- Kön. Hof- und staatsdruckerei, 1857. Agr 3—1060-77  
 22 p. vi pl. 24<sup>em</sup>.  
 Aus dem aprilhefte des jahrganges 1857 der Sitzungsberichte der mathem.-naturw. classe der Kais. Akademie der wissenschaften <bd. xxiv, s. 315> besonders abgedruckt.
- — (17. fortsetzung) . . . (Vorgelegt in der sitzung vom 17. december 1857) [Wien, 1858] Agr 3—1060-77  
 100-120 p. vi pl. 24<sup>em</sup>.  
 Sitzungsberichte der Kaiserlichen Akademie der wissenschaften. Mathematisch-naturwissenschaftliche classe. xxix. bd. Sitzung vom 18. märz 1858, no. 8.
- — 13. [!] fortsetzung . . . (Vorgelegt in der sitzung vom 11. november 1858) [Wien, 1859] Agr 3—1060-77  
 212-226 p. v pl. 24<sup>em</sup>.  
 Sitzungsbd. d. K. Akad. d. w. math.-naturw. cl., xxxiv bd., no. 3, 1859.
- — (19. fortsetzung) . . . (Vorgelegt in der sitzung am 7. mai 1866) [Wien, 1866] Agr 3—1060-77  
 538-542 p. iv pl. 24<sup>em</sup>.  
 Sitzungsbd. d. k. Akad. d. w. math. naturw. cl., LIII, bd., I, abth, 1866,

**Labram, J. David.** Insekten der Schweiz, die vorzüglichsten gattungen je durch eine art bildlich dargestellt von J. D. Labram. Nach anleitung und text von Dr. Ludwig Imhoff . . . Basel, Bei den verfassern, 1836-[45] Agr 5—289  
5 v. in 6. col. plates. 17½<sup>em</sup>.  
Issued in 100 pts., 1835—45.

[**Mueller, Otto Friedrich**] Fauna insectorum fridrichsdalina, sive Methodica descriptio insectorum agri fridrichsdalensis, cum characteribus genericis et specificis, nominibus trivialibus, locis natalibus, iconibus allegatis, novisque pluribus speciebus additis. Hafniae et Lipsiae, in officina libraria I. F. Gleditschii, 1764. Agr 3—195  
xxiv, 96 p. 20<sup>em</sup>.

**Olivier, Ernest.** Faune de l'Allier, ou Catalogue raisonné des animaux sauvages observés jusqu'à ce jour dans ce département . . . Moulins, 1883—[99]  
v. 2, pt. 1; 3, fasc. 2. 22—23<sup>em</sup>.  
Slip pasted over date of v. 2, pt. 1, reads 1890.  
CONTENTS.—Vol. II. Annelés. 1. ptie. Coléoptères.—Tome III, fasc. 2. Hémiptères hétéroptères.

**Pallas, Peter Simon.** Icones insectorum praesertim Rossiae Sibiriaeque peculiarium quae collegit et descriptionibus illustravit Petrus Simon Pallas . . . Erlangae, sumtu W. Waltheri, 1781.  
4 p. l., 104 p. 8 col. pl. 23<sup>em</sup>.

**Patterson, Robert.** Letters on the natural history of the insects mentioned in Shakspeare's plays. See under Miscellaneous, p. 54.

**Paykull, Gustaf von.** Gustavi Paykull . . . Fauna suecica. Insecta . . . Upsaliae, litteris J. F. Edman [1798]—1800. Agr 4—3396  
3 v. in 2. 19<sup>em</sup>.

**Rosenhauer, Wilhelm Gottlob.** Die thiere Andalusiens nach dem resultate einer reise zusammengestellt, nebst den beschreibungen von 249 neuen oder bis jetzt noch unbeschriebenen gattungen und arten. Von Wilhelm Gottlob Rosenhauer . . . Erlangen, T. Blaesing, 1856. Agr 5—100  
viii, 429 p. III pl. incl. front. 23<sup>em</sup>.

**Rossi, Pietro.** Fauna etrusca, sistens insecta quae in provinciis florentina et pisana praesertim collegit Petrus Rossius . . . Helmstadii, C. G. Fleckeisen, 1795—1807.  
2 v. 20 pl. (11 col., 9 fold.) 20½<sup>em</sup>.

Vol. 1 has title: Fauna etrusca, sistens insecta quae in provinciis florentina et pisana praesertim collegit Petrus Rossius . . . Tomus primus . . . Mantissae priore parte adiecta, iterum edita et annotatis perpetuis aucta a D. Joh. Christ. Lud. Hellwig . . .

Vol. 2 has title: Fauna etrusca sistens insecta quae in provinciis florentina et pisana praesertim collegit Petrus Rossius . . . Tomus secundus . . . Iterum edita et annotatis perpetuis aucta a D. Carolo Illiger . . .

**Samouelle, George.** The entomological cabinet; being a natural history of British insects. With plates illustrative of the principal families and genera. 2d ed. By George Samouelle. . . London, G. Henderson, 1841. Agr 3—1150  
xvi, [326] p. col. plates. 15½<sup>em</sup>.

**Samouelle, George.** The entomologist's useful compendium; or, An introduction to the knowledge of British insects, comprising the best means of obtaining and preserving them, and a description of the apparatus generally used; together with the genera of Linné, and the modern method of arranging the classes crustacea, myriapoda, spiders, mites and insects, from their affinities and structure, according to the views of Dr. Leach. . . By George Samouelle . . . London, T. Boys, 1819.  
496 p. 12 pl. incl. front. 20<sup>em</sup>.  
Authors quoted: p. [11]—15.

— London, Longman, Hurst, Rees, Orme, Brown, and Green, 1824.  
1 p. l., 496 p. 12 pl. incl. front. 20<sup>em</sup>.  
Authors quoted: p. [11]—15.

**Schaeffer, Jakob Christian.** D. Iacobi Christiani Schaefferi Icones insectorum circa Ratisbonam indigenorum coloribus nativam referentibus expressae . . . D. Iacob Christian Schaeffer's Natürlich ausgemahlte abbildungen regensburgischer insecten . . . Regensburg, Gedruckt bey H. G. Zunkel [1766-79] Agr 4-3423

3 v. front. (v. 1, port.) cclxxx col. pl. 29<sup>m</sup>.

Text in Latin and German.

Plates printed on both sides of the leaf.

**[Schellenberg, Johann Rudolf]** Helvetische entomologie; oder, Verzeichniss der schweizerischen insecten nach einer neuen methode geordnet. Mit beschreibungen und abbildungen. Zürich, Bei Orell, Füssli und compagnie, 1798-1806.

2 v. 48 col. pl. 24<sup>m</sup>.

Agr 3-205

Engr. half-title.

Added t-p. "Entomologie helvétique; ou, Catalogue des insectes de la Suisse." Text in German and French.

The translation of the text into French was done by J. de Clairville.

**Schøyen, Wilhelm Maribo.** Bidrag til kundskaben om Norges hemipter- og orthopter-fauna, af W. M. Schøyen . . . Christiania, J. Dybwad, 1889.

13 p. 23<sup>m</sup>. (Christiania videnskabs-selskabs Forhandling 1889. no. 5)

**Scopoli, Johann Anton.** Ioannis Antonii Scopoli . . . Entomologia carniolica exhibens insecta carniolæ indigena et distributa in ordines, genera, species, varietates. Methodo Linnæana. Vindobonæ, Typis I. T. Trattner, 1763.

18 p. 1., 420 p., 2 l. 21<sup>m</sup>.

**Sepp, Jan Christiaan.** Beschouwing der wonderen gods, in de minstgeachte schepzelen, of nederlandsche insecten, naar hunne aanmerkelyke huishouding, verwonderlyke gedaantewisseling en andere wetenswaardige byzonderheden, volgens eigen ondervinding beschreeven, naar 't leven naauwkeurig getekent, in 't koper gebracht en gekleurd, door Jan Christiaan Sepp . . . Amsterdam, By J. C. Sepp [1762-1860]

8 v. 400 col. pl. 26<sup>m</sup>.

Agr 3-362

Col. engr. t-p. added in each vol.

**Siebke, Johan Heinrich Spalckhauer.** Enumeratio insectorum norvegicorum. Fasciculus I-[IV] Auctore H. Siebke . . . Christiania, Trykt hos A. W. Brøgger, 1874-77.

Pt. I-IV. fold. map. 22<sup>m</sup>.

CONTENTS.—Fasciculus I. Catalogum Hemipterorum et Orthopterorum continens. Auctore H. Siebke. 1874.—Fasciculus II. Catalogum Coleopterorum continens. Auctore H. Siebke. 1875.—Fasciculus III. Catalogum Lepidopterorum continentem, auctore H. Siebke defuncto, edidit J. Sparre Schneider. 1876.—Fasciculus IV. Catalogum Dipterorum continentem, auctore H. Siebke defuncto, edidit J. Sparre Schneider. 1877.

—— Supplement til H. Siebke's Enumeratio insectorum norvegicorum, fasc. IV, [fasc. v, pars I] af W. M. Schøyen . . . Christiania, J. Dybwad, 1887-89.

16 p. 24<sup>m</sup>. (Christiania videnskabs-selskabs Forhandling 1887, no. 5, 1889, no. 12)

**Silvester, F. W.** . . . Report on insects observed in Hertfordshire during the year 1883 . . . [London, 1886]

[91]-94 p. 22<sup>m</sup>.

From the Transactions of the Hertfordshire natural history society, vol. III, pt. 2, September, 1884.

**Silvester, F. W.** . . . Report on insects observed in Hertfordshire in 1888 . . . [London, 1890]

[184]-188 p. 21<sup>m</sup>.

From the Transactions of the Hertfordshire natural history society, vol. v, pt. 5, June, 1889.

**Spinola, Massimiliano.** Insectorum Liguriæ species novæ aut rariores, quas in agro ligustico nuper detexit, descripsit, et iconibus illustravit Maximilianus Spinola, adjecto catalogo specierum auctoribus jam enumeratarum, quæ in eadem regione passim occurrunt . . . Genuæ, sumptibus auctoris, 1806-08.

2 v. 7 pl., fold tab. 27<sup>m</sup>.

Issued in 4 fascicles.

**Stephens, James Francis.** Illustrations of British entomology; or, A synopsis of indigenous insects: containing their generic and specific distinctions; with an account of their metamorphoses, times of appearance, localities, food, and economy, as far as practicable. By James Francis Stephens . . . Embellished with coloured figures of the rarer and more interesting species . . . London, Printed for the author, published by Baldwin and Craddock, 1828-35. Agr 3—1152-3

11 v. col. plates. 25 $\frac{1}{2}$ cm.

CONTENTS.—Haustellata. 4 v.—Mandibulata. 7 v.

— — — Supplement . . . London, H. G. Bohn, 1867.

Agr 3—1152-3

vi, 32 p., 11. col. plates. 25 $\frac{1}{2}$ cm.

**Stephens, James Francis.** A systematic catalogue of British insects: being an attempt to arrange all the hitherto discovered indigenous insects in accordance with their natural affinities. Containing also the references to every English writer on entomology, and to the principal foreign authors. With all the published British genera to the present time. By James Francis Stephens . . . London, Published for the author, by Baldwin and Craddock, 1829. Agr 3—1154

xxxiv, 416, 388 p. 23cm.

“Authors quoted:” p. [xxi]—xxx.

**Taschenberg, Ernst Ludwig.** Praktische insekten-kunde oder Naturgeschichte aller derjenigen insekten, mit welchen wir in Deutschland nach den bisherigen erfahrungen in nähere berührung kommen können, nebst angabe der bekämpfungsmittel gegen die schädlichen unter ihnen von Prof. Dr. E. L. Taschenberg . . . Bremen, M. Heinsius, 1879-80. Agr 5—587

5 v. in 2. illus. 23cm.

Each part has both general and special t.-p.

CONTENTS.—1. Einführung in die insekten-kunde. 1879.—2. Die käfer und hautfügler. 1879.—3. Die schmetterlinge. 1880.—4. Die zweiflügler, netzflügler und kaukerfe. 1880.—5. Die schnabelkerfe, flügellosen parasiten und als anhang einiges ungeziefer, welches nicht zu den insekten gehört. 1880.

**Walckenaer, Charles Athanase, baron.** Faune parisienne, insectes. Ou Histoire abrégée des insectes des environs de Paris, classés d’après le système de Fabricius; précédée d’un discours sur les insectes en général, pour servir d’introduction à l’étude de l’entomologie . . . Par C. A. Walckenaer . . . Paris, Dentu, 1802. Agr 4—34

2 v. in 1. VII pl. 21 $\frac{1}{2}$ cm.

**Zetterstedt, Johann Wilhelm.** Insecta lapponica descripta a Johanne Wilhelmo Zetterstedt . . . Lipsiae, sumtibus L. Voss, 1840.

vi p., 2 l., [10]—1139 p. 30cm.

## OCEANICA.

**Kirby, William Forsell.** On the insects (exclusive of Coleoptera and Lepidoptera) of Christmas Island . . . London, 1888.

546-555 p. 22 $\frac{1}{2}$ cm.

From the Proceedings of the Zoological society of London, December 4, 1888.

**Sharp, David, ed.** Fauna hawaiiensis, or, The zoology of the Sandwich (Hawaiian) isles: being results of the explorations instituted by the joint committee appointed by the Royal society of London for promoting natural knowledge and the British association for the advancement of science, and carried on with the assistance of those bodies and of the trustees of the Bernice Pauahi museum at Honolulu. Ed. by David Sharp . . . Cambridge [Eng.] At the University press; [etc., etc.] 1899-1903.

v. 1, pt. 1-3; v. 2, pt. 1-3; v. 3, pt. 1-3. plates (partly col.) double map. 32 $\frac{1}{2}$ cm.

CONTENTS.—I, pt. I. Hymenoptera Aculeata, by R. C. L. Perkins and A. Forel. 1899.—I, pt. II. Macrolepidoptera, by E. Meyrick. 1899.—I, pt. III. Hymenoptera Parasitica, by W. H. Ashmead. 1901.—II, pt. I. Orthoptera, by R. C. L. Perkins. 1899.—II, pt. II. Neuroptera, by R. C. L. Perkins. 1899.—II, pt. III. Coleoptera, I, by D. Sharp and R. C. L. Perkins. 1900.—III, pt. I. Diptera, by P. H. Grimshaw. 1901.—III, pt. II. Diptera (sup.) by P. H. Grimshaw and P. Speiser. Hemiptera, by G. W. Kirkaldy.—III, pt. III. Coleoptera, II, by D. Sharp. 1903.

**HYMENOPTERA.****BIBLIOGRAPHY.**

**Dalla Torre, Karl Wilhelm von.** Die hymenopterologischen arbeiten Prof. Dr. Arn. Försters. Bibliographische studie . . . [Chur, n. d.]

[44]-82 p. 22<sup>em</sup>.

Separat-abdruck aus dem Jahresbericht der Naturforschenden gesellschaft Graubünden's. xxviii. jahrg.

**Mocsáry, Sándor.** Literatura hymenopterorum . . . Ab Alexandro Mocsáry conscripta. Budapest, Franklin társulat könyvnyomdája, 1882.

122 p. 25<sup>em</sup>.

Editio separata a "Természetráji füzetek," vol. vi, pt. I-II. 1882. A Museo nationali hungarico edito.

**GENERAL.**

**Adolph, Georg Ernst.** . . . Ueber abnorme zellenbildungen einiger hymenopterenflügel. Von Dr. E. Adolph in Schwelm . . . Halle, 1880.

36 p. pl. 32<sup>em</sup>. (Nova acta der Ksl. Leop.-Carol.-Deutschen akademie der naturforscher. Bd. xli. pars II, nr. 4 [p. 298-328])

Eingegangen bei der Akademie den 14. august 1879.

**Adolph, Georg Ernst.** . . . Zur morphologie der hymenopterenflügel. Zugleich ein beiträg zu den fragen der speciesbildung und des atavismus. Von Dr. E. Adolph . . . Eingegangen bei der Akademie den 9. december 1881. Halle, 1883.

92 p. vi pl. 32<sup>em</sup>. (Nova acta der Ksl. Leop.-Carol.-Deutschen akademie der naturforscher. Bd. xlvi, nr. 2)

**Ashmead, William Harris.** Descriptions of thirteen new parasitic Hymenoptera, bred by Prof. F. M. Webster . . . [Cincinnati, 1894]

45-55 p., 1 l. II-III pl. 23<sup>em</sup>.

Reprint from the Journal of the Cincinnati society of natural history, vol. xvii, April, 1894.

**Ashmead, William Harris.** Some parasitic Hymenoptera from Lower California . . . [San Francisco, 1894]

[122]-129 p. 24<sup>em</sup>.

Extract from Proceedings of the California academy of sciences, ser. 2, vol. iv.

**Avebury, John Lubbock, 1st baron.** . . . Ants, bees, and wasps. A record of observations on the habits of the Hymenoptera. By Sir John Lubbock . . . New York, D. Appleton and company, 1882.

4-24911.

1 p. l., 4, [iii]-xix, 448 p. illus., 5 col. pl. 19<sup>em</sup>. (International scientific series. vol. xlii)

"List of the principal books and memoirs referred to": p. [xvii]-xix.

**Avebury, John Lubbock, 1st baron.** . . . Observations on bees, wasps, and ants . . . [London] 1874-88.

pt. II, VI-VIII, X-XI. illus., 3 pl. 22<sup>em</sup>.

Extracted from the Linnean society's journal—Zoology, vol. xii, p. 237-251; vol. xiv, p. 607-626; vol. xv, p. 167-187, 362-387; vol. xvii, p. 41-52; vol. xx, p. 118-136.

**Cameron, Peter.** . . . A decade of new Hymenoptera . . . Manchester [Eng.] 1889.

9 p. 21<sup>em</sup>.

From "Memoirs and proceedings of the Manchester literary and philosophical society, session 1888-89, ser. 4, v. 2.

**Cameron Peter.** . . . Descriptions of new genera and species of Hymenoptera . . . [London, 1900]

pt. 1-3. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. vi., October 1900, p. 410-419; November 1900, p. 495-506; December 1900, p. 530-541.

**Cameron, Peter.** Descriptions of one new genus and some new species of parasitic Hymenoptera . . . [London, 1887]

20 p. 21<sup>em</sup>.

From the Proceedings of the Manchester literary and philosophical society, vol. xxvi.

**Cameron, Peter.** . . . Descriptions of twenty-three new species of Hymenoptera . . . Manchester, 1888.

24 p. 21 $\frac{1}{2}$ cm.

From "Memoirs and proceedings of the Manchester literary and philosophical society," session 1887-88, ser. 4, v. 1.

**Cameron, Peter.** Hymenopterological notices . . . Manchester, [Eng.] 1891.

13 p. pl. 21 $\frac{1}{2}$ cm.

From "Memoirs and proceedings of the Manchester literary and philosophical society," session 1890-91, ser. 4, v. 4.

**Cameron, Peter.** On parthenogenesis in the Hymenoptera. [Glasgow] 1889.

194-201 p. 22 $\frac{1}{2}$ cm.

From the Transactions of the Natural history society of Glasgow. v. 2.

**Carpenter, George Herbert.** . . . Some recent researches on the habits of ants, wasps and bees . . . London, 1893.

[267]-272 p. 25cm.

Reprinted from "Natural science," v. 3, no. 20, October 1893.

**Dalla Torre, Karl Wilhelm von.** Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus. Auctore C. G. de Dalla Torre . . . Lipsiæ, G. Engelmann, 1892-1902.

10 v. 23 $\frac{1}{2}$ cm.

**Dalla Torre, Karl Wilhelm von.** Die hermaphroditen und gynandromorphen hymenopteren von K. W. v. Dalla Torre und H. Friese . . . Innsbruck, 1899.

96 p. pl. 22cm.

Separatabdruck der Berichte des Naturwissenschaftlich-medizinischen vereines in Innsbruck. xxiv. jahrg. 1898.

"Chronologische literaturliste": p. 29-33.

**Dufour, Léon.** Recherches anatomiques et physiologiques sur les orthoptères. See under Orthoptera, p. 276.

**Fabricius, Johann Christian.** . . . Systema piezatorum secundum ordines, genera, species adiectis synonymis, locis, observationibus, descriptionibus. Brunsvigæ, C. Reichard, 1804. Agr 3-780

xiv, [15]-439, [1], 30 p. 21cm.

**Förster, Arnold.** Eine centurie neuer hymenopteren. Von Arn. Foerster . . . Erste [bis zehnte] dekade. [Bonn, 1850-53]

4 pts. 1 pl. 22cm.

From Verhandlungen des Naturhistorischen vereines der preussischen Rheinlande. 1850, jahrg. 7, p. [277]-288, [485]-518; 1851, jahrg. 8, p. 1-42; 1853, jahrg. 10, p. [266]-362.

— Die 2te centurie neuer hymenopteren, von Professor Dr. Foerster . . . [Bonn, 1855-60]

3 pts. 22cm.

Title of part in jahrg. 16, p. 87-124: Zweite centurie neuer hymenopteren.

Title of part in jahrg. 17, p. [98]-158. Eine centurie neuer hymenopteren.

From Verhandlungen des Naturhistorischen vereines der preussischen Rheinlande. 1855, jahrg. 12, p. [226]-258; 1859, jahrg. 16, p. [87]-124; 1860, jahrg. 17, p. [93]-153.

**Förster, Arnold.** Hymenopterologische studien von Arnold Foerster. . . . Aachen, E. ter Meer, 1850-56.

2 pts. 28 x 22 $\frac{1}{2}$ cm.

CONTENTS.—I. hft. Formicariæ.—II. hft. Chalcidiae und proctotrupii.

**Förster, Arnold.** Kleine monographien parasitischer hymenopteren . . . [Bonn 1878]

[42]-82 p. 22cm.

From Verhandlungen des Naturhistorischen vereines der preussischen Rheinlande und Westphalens, jahrg. 35, 1878.

**Glover, Townend.** Hymenoptera. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the year 1877. Washington, 1878. p. 89-117. 5 pls.)

**Holmgren, August Emil.** Hymenoptera. Species novas descripsit Aug. Emil Holmgren. [Stockholm, P. A. Norstedt & söner, 1868]

[391]—442 p. 1 pl. 31<sup>em</sup>. ([Kongliga svenska fregatten *Eugenies* resa omkring jorden. Vetenskapliga iakttagelser. II. Zoologi. 1. Insekta. p. [391]—442])

**Janet, Charles.** . Structure des membranes articulaires des tendons et des muscles (*Myrmica*, *Camponotus*, *Vespa*, *Apis*) Limoges, V<sup>e</sup> H. Ducourtieux, 1895.

4—3555

cover-title, 25, [1] p. illus. 24<sup>em</sup>. (*His Études sur les fourmis, les guêpes et les abeilles*, 12<sup>me</sup> note)

**Janet, Charles.** Sur les limites morphologiques des anneaux du tégument et sur la situation des membranes articulaires chez les hyménoptères arrivés à l'état d'imago . . . Paris, 1898.

4 p. illus. 28<sup>em</sup>. (*His* [Notes sur les fourmis et les guêpes] 11)

Extrait des comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 126, p. 435—438.

**Jurine, Louis.** Nouvelle méthode de classer les hyménoptères et les diptères . . . Par L. Jurine . . . Hyménoptères. Tome 1<sup>er</sup>. Genève, J. J. Paschoud, 1807.

2 p. l., 319, [1], 4 p. 14 pl. (partly col.) 27<sup>em</sup>.

**Kirby, William Forsell.** List of hymenoptera, with descriptions and figures of the typical specimens in the British museum. Vol. I. Tenthredinidæ and Siricidæ. By W. F. Kirby. London, Printed by order of the trustees, 1882.

xxviii, 450 p. xvi col. pl. 25<sup>em</sup>.

**Kohl, Franz Friedrich.** Neue hymenopteren in den sammlungen des K. K. Zoolog. Hof-cabinetes zu Wien . . . [Wien] 1883.

331—386 p. xviii—xviii pl. 22<sup>em</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. xxxiii, 1883.

**Latreille, Pierre André.** Histoire naturelle des fourmis, et recueil de mémoires et d'observations sur les abeilles, les araignées, les faucheurs, et autres insectes. Par P. A. Latreille . . . Paris, De l'impr. de Crapelet, 1802.

Agr 4—214

xvi, 445 p. xii pl. 22<sup>em</sup>.

**Marchal, Paul.** . . La castration nutritive chez les hyménoptères sociaux . . . [Paris] 1897.

2 p. 24<sup>em</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (Seance du 5 juin 1897)

**Mocsáry, Sándor.** . . Studia synonymica . . . [Budapest, 1887]

12—20 p. 25<sup>em</sup>.

Éditio separata e Természetráji füzetek, vol. xi, pt. 1, 1887/8. A Museo nationali hungarico budapestinensi vulgato.

**Ratzeburg, Julius Theodor Christian.** Über entwicklung der fusslosen hymenopteren-larven, mit besonderer rücksicht auf die gattung *Formica*, von Dr. F. T. C. Ratzeburg . . . (Bei der Akademie eingegangen den 4. jan. 1832) [Halle, 1832]

1 p. l., [145]—176 p. pl. 29<sup>em</sup>.

From Nova acta Acad. Cæs. Leopold. Carol. Germ. nat. cur. vol. xvi.

**Saint-Fargeau, Amédée Louis Michel Lepeletier, comte de.** Histoire naturelle des insectes. Hyménoptères. Par M. le comte Amédée Lepeletier de Saint-Fargeau . . . Paris, Librairie encyclopédique de Roret, 1836—46.

Agr 3—356

4 v. and atlas (16 p., 48 col. pl.) 21<sup>em</sup>. (Suites à Buffon)

Tome 4, by M. Aug. Brullé.

**Saussure, Henri de.** Mélanges hyménoptérologiques, par Henri de Saussure . . . Genève et Bâle, H. Georg, 1854—63.

2 pts. 2 col. pl. 29<sup>em</sup>.

Imprint of II. fascicule: Genève, Impr. Ramboz et Schuchardt, 1863.

Tiré des Mémoires de la Société de physique et d'histoire naturelle de Genève. tome xiv, xvii.

**Schulz, W. A.** Hymenopteren-studien von W. A. Schulz . . . Aus der sammlung des Zoologischen instituts der Kaiser Wilhelms-universität zu Strassburg i. E. Leipzig, W. Engelmann, 1905.

Agr 5—842

2 p. l., 147 p., 1 l. illus. 24<sup>em</sup>.



**Seurat, L. G.** . . . Contributions à l'étude des hyménoptères entomophages . . . Paris, Masson et cie, 1899.

2 p. l., 159 p., 1 l. illus., 5 pl. 25½<sup>mm</sup>.

Thèse—Univ. de Paris.

Reprinted from Annales des sciences naturelles, 8<sup>e</sup> sér. Zoologie t. x.

**Sichel, Jules.** . . . Considérations zoologiques sur la détermination de l'espèce et sur la fixation des limites entre elle et la variété, tirées principalement de l'étude de l'ordre des insectes hyménoptères . . . Paris, 1866.

19 p. 23½<sup>mm</sup>.

Mémoire lu à l'Académie des sciences de Paris, le 22 janvier 1866.

**Smith, Frederick.** Catalogue of hymenopterous insects in the collection of the British museum . . . London, Printed by order of the trustees, 1853-59. Agr 3-814

7 pts. 47 pl. 17½<sup>mm</sup>.

Pt. I-II paged continuously; pt. III-IV paged continuously.

CONTENTS.—Pt. I. Andrenidæ and Apidæ. 1853.—Pt. II. Apidæ. 1854.—Pt. III. Mutillidæ and Pompilidæ. 1855.—Pt. IV. Sphegida, Larridæ, and Crabronidæ. 1856.—Pt. V. Vespidæ. 1857.—Pt. VI. Formicidæ. 1858.—Pt. VII. Dorylidæ and Thynnidæ. 1859.

**Smith, Frederick.** Descriptions of new species of Hymenoptera in the collection of the British museum. By Frederick Smith . . . London, Printed by order of the trustees, 1879. Agr 3-815

xxi, 240 p. 23<sup>mm</sup>.

**Verhoeff, Carl Wilhelm.** . . . Neue und wenig bekannte gesezte aus der hymenopteren-biologie . . . [Leipzig] 1892.

8 p. 23<sup>mm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," v. 15, no. 402, 1892.

**Vollenhoven, Samuel Constantius Snellen van.** Schetsen ten gebruike bij de studie der Hymenoptera, geteekend door Mr. S. C. Snellen van Vollenhoven. Uitgegeven door de Nederlandsche entomologische vereeniging . . . 's Gravenhage, M. Nijhoff, 1868-73. Agr 3-819

4 pts (1 l., XIV pl.) 27 × 36½<sup>mm</sup>.

CONTENTS.—I. Ichneumoniden. 1868.—II. Braconiden. 1869.—III. Pteromalinen. 1871.—IV. Proctotrupiden. 1873.

**Wolf, Otto Immanuel Bernhard.** . . . Das riechorgan der biene nebst einer beschreibung des respirationswerkes der hymenopteren, des saugrüssels und geschmacksorganes der blumenwespen, einer vergleichenden betrachtung der riechhaut sämtlicher aderflüglerfamilien und erläuterungen zur geruchs- und geschmacksphysiologie überhaupt, von Dr. O. J. B. Wolf . . . (Eingegangen bei der Akademie den 18. nov. 1874) Dresden, 1875.

251 p. viii pl. 32<sup>mm</sup>. (Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher. bd. xxxviii. nr. 1)

## FAUNA.

### UNITED STATES.

**Ashmead, William Harris.** . . . Hymenoptera. By William Harris Ashmead . . . Washington, D. C., Pub. by the Academy, 1902. Agr 3-144

cover-title, 117-274 p. IX-XI pl. 25<sup>mm</sup>. (Papers from the Harriman Alaska expedition. xxviii)  
From Proceedings of the Washington academy of sciences. v. IV, p. 117-274. pl. IX-XI. May 29, 1902.

**Ashmead, William Harris.** . . . On the Hymenoptera of Colorado; descriptions of new species, notes, and a list of the species found in the state, by William H. Ashmead . . . Washington, D. C., 1890.

46, [1] p. 23<sup>mm</sup>. (Bulletin no. 1 of the Colorado biological association)

**Cockerell, Theodore Dru Alison.** A first list of the hymenopterous families Tenthredinidæ, Siricidæ, Chrysididæ, Proctotrypidæ, Cynipidæ, Chalcididæ and Braconidæ collected in New Mexico . . . [Topeka, 1899]

212-214 p. 24½<sup>mm</sup>.

From the Kansas academy of science. Transactions, v. 16, 1899.

**Cockerell, Theodore Dru Alison.** . . . Hymenoptera of Southern California . . . [Los Angeles, 1902]

Pt. 2. 23<sup>em</sup>.

Reprint from the Bulletin of the Southern California academy of sciences, Dec. 1902. v. 1, p. 137-140.

**Cockerell, Theodore Dru Alison.** . . . New and little-known Hymenoptera taken by Prof. C. H. T. Townsend and Mr. C. M. Barber in New Mexico in 1898 . . . [London] 1898.

[448]-457 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. ii, December 1898.

**Cresson, Ezra Townsend.** Synopsis of the families and genera of the Hymenoptera of America, north of Mexico, together with a catalogue of the described species, and bibliography. Comp. by E. T. Cresson . . . [Philadelphia] 1887. 3-1170

vi, 350 p., 1 l. illus. 23 $\frac{1}{2}$ <sup>em</sup>. (Transactions, American entomological society. Supplementary volume, 1887)

"Bibliography of the Hymenoptera of America, north of Mexico": p. 315-337.

**Walsh, Benjamin Dann.** Descriptions of North American Hymenoptera . . . (with notes by E. T. Cresson) [St. Louis] 1873.

65-166 p. 25 $\frac{1}{2}$ <sup>em</sup>.

From the Transactions of the St. Louis academy of science, vol. III, 1873.

#### FOREIGN.

**André, Edmond.** Species des hyménoptères d'Europe & d'Algérie, enrichi de planches coloriées donnant, d'après nature, outre un ou plusieurs specimens des insectes de chaque genre, de nombreux dessins au trait des caractères utiles à l'intelligence du texte; rédigé d'après les principales collections, les mémoires les plus récentes des auteurs et les communications des entomologistes spécialistes, par Ed. André. . . . Beaune (Côte-d'Or), Chez l'auteur, 1879-[1904]

v. 1-5, v. 5<sup>bis</sup>, p. 1\*-24\*, 337-373, v. 6-7, v. 7<sup>bis</sup>, v. 8, v. 9, p. 1-64. plates (partly col.) 25<sup>em</sup>.

Pl. VIII, XI, XII, XIII, XV of tome III not yet published.

Imprint varies: tome 4-5, Gray, Bouffaut frères; tome 7, 7<sup>bis</sup>, 8, Paris, M<sup>me</sup>. Froment-Duboscq; tome 9, Paris, A. Hermann.

Tome 4-5, 5<sup>bis</sup>, Les braconides, par le rév. T.-A. Marshall; tome 6, Les chrysidés, par M. R. du Buysson; tome 7, 7<sup>bis</sup>, Monographie des cynipides, par l'abbé J.-J. Kieffer; tome 8, Les mutillides, par Ernest André; tome 9, Proctotrypidæ par l'abbé J.-J. Kieffer et le rév. T. A. Marshall.

Vol. 7-9, sous la direction de Ernest André.

Contains bibliographies.

**Ashmead, William Harris.** . . . Descriptions of new genera and species of Hymenoptera from the Philippine Islands. . . . Washington, 1904.

127-158 p. II pl. 24 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the United States national museum, vol. XXVIII, p. 127-158 [No. 1387]

**Ashmead, William Harris.** . . . Notes on some New Zealand and Australian parasitic Hymenoptera, with descriptions of new genera and new species. . . . Sydney, 1900.

[327]-360 p. 22<sup>em</sup>.

From the Proceedings of the Linnean society of New South Wales, 1900, pt. 3, June 27th.

**Ashmead, William Harris.** . . . Notes on the Hymenoptera collected by the Bahama expedition from the State university of Iowa. . . . Iowa city, 1896.

28-32 p. 24 $\frac{1}{2}$ <sup>em</sup>.

Extract from Bull. Lab. nat. sci. State univ. Iowa, June 1896.

**Ashmead, William Harris.** Report on the parasitic Hymenoptera of the Island of Grenada, comprising the families Cynipidæ, Ichneumonidæ, Braconidæ, and Proctotrypidæ. . . . [London, 1895]

742-812 p. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, November 19, 1895.

**Aurivillius, Per Olof Christopher.** Grönlands insektfauna. See under Lepidoptera, p. 305.

**Biologia centrali-americana.** Insecta. Hymenoptera. [London, Pub. for the editors by R. H. Porter] 1883-1900. Agr 5-502

3 v. plates (partly col.) 32<sup>cm</sup>.

Issued in parts.

Cover-titles: *Biologia centrali-americana*; or, Contributions to the knowledge of the fauna and flora of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1900, ed. by F. Ducane Godman.

CONTENTS.—I. Families Tenthredinidæ-Chrysididæ, by P. Cameron. 1883-1900.—II. Fossores, by P. Cameron. 1888-1900.—III. Formicidæ, by Professor A. Forel. 1899-1900.

**Blackburn, Thomas.** . . . On the Hymenoptera of the Hawaiian islands. By the Rev. T. Blackburn and P. Cameron. London, 1886.

[194]-245 p. 22<sup>cm</sup>.

From the "Memoirs of the Manchester literary and philosophical society," session 1885-86, ser. 3, v. 10.

**Brischke, C. G. A.** Die hymenopteren der provinz Preussen. Von G. Brischke . . . [Königsberg, 1862-71] Agr 4-3494

5 pts. 28<sup>cm</sup>.

From *Schriften der Königlichen physikalisch-ökonomischen gesellschaft zu Königsberg*, jahrg. 2, p. 1-37, [97]-118, jahrg. 3, p. [1]-14, jahrg. 5, p. [177]-212, jahrg. 11, p. [65]-106.

**Cameron, Peter.** . . . Description of a genus and species, probably representing a new tribe of Hymenoptera from Chili . . . Manchester [Eng.] 1899.

5 p. 22<sup>cm</sup>.

From "Memoirs and proceedings of the Manchester literary and philosophical society," session 1898-9, v. 43, pt. IV.

**Cameron, Peter.** . . . Descriptions of new genera and species of aculeate Hymenoptera from the oriental zoological region . . . [London, 1900]

[17]-41 p. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. v., January 1900.

**Cameron, Peter.** Descriptions of new genera and species of Hymenoptera from Dunbrody, Cape Colony . . . [Grahamstown, 1904]

[125]-176 pp. 24<sup>4</sup><sup>cm</sup>.

From *Records of the Albany Museum*, vol. I, no. III.

**Cameron, Peter.** Descriptions of new genera and species of Hymenoptera from the oriental zoological region (Ichneumonidæ, Fossores, and Anthophila) London, 1902.

pt. 1. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. IX, February 1902, p. 145-155.

**Cameron, Peter.** Descriptions of new genera and species of Hymenoptera taken by Mr. Robert Shelford at Sarawak, Borneo. [Singapore, 1903] Agr 4-50

[89]-181 p. 25<sup>4</sup><sup>cm</sup>.

From *Journal of the Straits branch of the Royal Asiatic society*, June 1903, no. 39, p. [89]-181.

Continuation of his *On the Hymenoptera collected by Mr. Robert Shelford at Sarawak*.

**Cameron, Peter.** . . . Descriptions of three new genera and seven new species of Hymenoptera from eastern Asia and Australia . . . London, 1901.

[116]-123 p. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. VIII, August 1901.

**Cameron, Peter.** The fauna of Scotland with special reference to Clydesdale and the western district. Hymenoptera. Glasgow, 1886.

pt. 2. 21<sup>4</sup><sup>cm</sup>.

**Cameron, Peter.** Hymenoptera orientalia, or Contributions to the knowledge of the Hymenoptera of the oriental zoological region . . . Manchester [Eng.] 1897-1900.

pt. VI-VII, IX. 2 pl. 22<sup>cm</sup>.

From the *Memoirs and proceedings of the Manchester literary and philosophical society*, v. 41, pt. IV; v. 42, pt. IV; v. 44, pt. V.

**Cameron, Peter.** A monograph of the British phytophagous Hymenoptera. . . . By Peter Cameron. London, Printed for the Ray society, 1890-93.

v. 3-4. plates (partly col.) 22<sup>4</sup><sup>cm</sup>.

Bibliography. List of the principal papers published in journals and transactions of scientific societies. For titles of complete works see v. 1, p. 321-325; v. 4, p. [208]-234.

**Cameron, Peter.** New Hymenoptera mostly from Nicaragua . . . [Habana, 1904]

46-69 p. 22½<sup>cm</sup>.

From *Invertebrata pacifica*, ed. by C. F. Baker, v. 1.

**Cameron, Peter.** . . . Notes on a collection of Hymenoptera from Greymouth, New Zealand, with descriptions of new species . . . Manchester [Eng.] 1898.

53 p. 21¼<sup>cm</sup>.

From *Memoirs and proceedings of the Manchester literary and philosophical society*, session 1897-8, v. 42, pt. 1.

**Cameron, Peter.** . . . On some new genera and species of parasitic and fossorial Hymenoptera from the Khasia Hills, Assam . . . [n. p., 1903] Agr 3-599

[173]-185, [313]-331 p. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. xi, February-March, 1893.

**Cameron, Peter.** . . . On some new species of Hymenoptera from northern India . . . [London, 1904]

[277]-303 p. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. xiii, April, 1904.

**Cameron, Peter.** On the Hymenoptera collected by Mr. Robert Shelford at Sarawak, and on the Hymenoptera of the Sarawak museum. [Singapore, 1902]

[29]-140 p. 25¼<sup>cm</sup>.

Agr 3-122

From *Journal of the Straits branch of the Royal Asiatic society*, Jan. 1902, no. 37, p. 29-140.

**Cameron, Peter.** On the Hymenoptera collected in New Britain by Dr. Arthur Willey . . . [London] 1901.

224-248 p. 22<sup>cm</sup>.

From the *Proceedings of the Zoological society of London*, March 19, 1901.

**Costa, Achille.** Prospetto sistematico degli imenotteri italiani da servire di prodromo della imenotterologia italiana. [Napoli, 1867-94]

3 v. 7 col. pl. 27¼<sup>cm</sup>. (v. 3, 26<sup>cm</sup>.)

Pte. I has no t.-p.

Pte. 2-3 have title: Prospetto degli imenotteri italiani da servire di prodromo di imenotterologia italiana per Achille Costa.

[Pte. I] published in *Annuario del Museo zoologico*, Napoli, v. 4, 5, 6.

Pte. II published in *Atti dell' Accademia reale delle scienze*, Napoli, ser. 2, v. 3.

"Opere e memorie di entomologi italiani nelle quali trattasi di imenotteri della fauna italiana": [pte. I] p. [62] (1st ser. of pages)

"Memorie di imenotterologia italiana": [pte. I] p. 29 (3d ser. of pages)

"Memorie relative ad imenotteri italiani pubblicate dal 1870 al 1886": pte. 2, p. 7-8.

"Memorie relative ad imenotteri italiani pubblicate dal 1886 al 1893": pte. 3, p. 10-11.

CONTENTS.—Parte 1. Sfigidei.—Parte 2. Pompilidei, dolichuridei, scoliidei, sapigidei, tifiidei e mutillidei. 1887.—Parte 3. Tentredinidei e siricidei. 1894.

**Dahlbom, Anders Gustav.** Dispositio methodica specierum scandinavicarum ad familias hymenopterorum naturales pertinentium, ab Andrea Gustavo Dahlbom . . . pt. I. Sphex in sensu Linnaeano. Lundæ, Typis excudit C. F. Berling, 1842. cover-title, 1 p. l., 16 p. fold. pl. 20¼<sup>cm</sup>. Agr 4-3420

Pages 1-16 are 25 × 20<sup>cm</sup> folded to size of book.

The work originally appeared as a dissertation in 4 pts.; it was subsequently considered as pt. I of his *Dispositio methodica specierum Hymenopterorum secundum familias insectorum naturales* . . . 1845.

**Dahlbom, Anders Gustav.** Exercitationes hymenopterologicæ . . . ad illustrandam faunam svecicam . . . Londini Gothorum, Typis Berlingianis, 1831-33.

6 pts. in 1 v. 19<sup>cm</sup>.

Agr 5-280

Paged continuously; pt. I: 2 p. l., 18 p.; pt. II: 2 p. l., 19-32 p.; pt. III: 2 p. l., 33-48 p.; pt. IV: 1 p. l., 49-72 p.; pt. V: 1 p. l., 73-79 p.

Consists of dissertations each having its own title-page, but with text and paging continuous.

Inaug.-dis.—Lund.

**Dahlbom, Anders Gustav.** Hymenoptera europaea praecipue borealia, formis typicis nonnullis specierum generumve exoticorum propter nexum systematicum associatis, per familias, genera, species et varietates disposita atque descripta ab Andrea Gustavo Dahlbom . . . Berolini, Libraria F. Nicolai, 1845-54. Agr 5-512  
2 v. XII pl., fold. tables. 20<sup>em</sup>.

CONTENTS.—1. SpheX in sensu Linnaeano.—2. Chrysis in sensu Linnaeano.

**Dominique, J.** Contributions au catalogue des hyménoptères fouisseurs chrysidides et vespides de la Loire-Inférieure . . . [Nantes] 1901.

[505]-511 p. 25<sup>em</sup>.

From Bulletin de la Société des sciences naturelles de l'ouest de la France, sér. 2, t. I, fasc. III-IV, décembre 1901.

**Dours, Antoine i. e. Jean Marie Antoine.** Catalogue synonymique des hyménoptères de France, par A. Dours . . . Amiens, Impr. de Lenoel-Herouart, 1874.

2 p. l., 129, [1] p. 22<sup>em</sup>.

Agr 3-332

Extrait des Mémoires de la Société linnéenne du nord de la France, t. III.

**Du Buysson, Robert, vicomte.** Hyménoptères récoltés au Japon par M. J. Harmand . . . [Paris] 1903.

3 p. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1903, v. 9, p. 125-127.

**Emery, Carlos.** . . . Estudios sobre las hormigas de Costa Rica. San José, Tipografía nacional, 1894.

1 p. l., 45-67 p. 1 l., II pl. 28<sup>em</sup>.

At head of title: Ministerio de fomento.

Nota:—Estas páginas fueron tiradas para los Anales del Museo nacional de 1888 á 1889.—El resto de los trabajos correspondientes á este tomo se publicó en los Anales del Instituto fisico-geográfico.

**Fox, William J.** . . . Report on some Mexican Hymenoptera, principally from Lower California . . . [San Francisco] 1893.

25 p. 24<sup>em</sup>.

From the Proceedings of the California academy of sciences, ser. 2, vol. IV, September 14, 1893.

**Fox, William J.** Report on the Hymenoptera collected in West Greenland. . . . [Philadelphia] 1892.

133-135 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1892.

**Fox, William J.** Second report on some Hymenoptera from Lower California, Mexico . . . [San Francisco] 1894.

92-121 p. 24<sup>em</sup>.

From the Proceedings of the California academy of sciences, ser. 2, vol. IV, April 19, 1894.

**Froggatt, Walter Wilson.** . . . Catalogue of the described Hymenoptera of Australia . . . [Sydney] 1890-92.

2 pts. 22<sup>em</sup>.

From the Proceedings of the Linnean society of New South Wales, ser. 2, vol. v, p. 689-762, December 31, 1890, and vol. VII, p. 205-248, May 25, 1892.

**Froggatt, Walter Wilson.** . . . Notes on a small collection of Hymenoptera from Narrabri, N. S. W. . . . [Sydney] 1891.

[13]-16 p. 21<sup>em</sup>.

From vol. VI. (ser. 2) of the "Proceedings of the Linnean society of New South Wales" (25th February, 1891).

**Holmberg, Eduardo Ladislao.** Delectus hymenopterologicus argentinus; hymenopterorum argentinorum et quorundam exoticorum observationes synonymicas, addendas, novorumque generum specierumque descriptiones continens . . . [Buenos Aires, Impr. de J. A. Alsina, 1903]

374-517 p. 28<sup>em</sup>. (Anales del Museo nacional de Buenos Aires, ser. III, t. II)

**Howard, Leland Ossian.** . . . On some reared parasitic hymenopterous insects from Ceylon. By L. O. Howard and Wm. H. Ashmead . . . Washington, 1896.

633-648 p. 24<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XVIII, p. 633-648. <No. 1092>

**Kirby, William Forsell.** Descriptions of new species of Hymenoptera collected by Mr. Ogilvie-Grant and Dr. Forbes in the islands of Sokotra and Abd-el-Kuri . . . [Liverpool] 1900.

[13]-24 p. 26<sup>cm</sup>.

Reprinted from Bull. Liverp. Mus., vol. III, no. 1 (15th August, 1900)

**Kirby, William Forsell.** Hymenoptera . . . [London, 1896]

[203]-209 p. 25<sup>4</sup><sup>cm</sup>.

Reprinted from the Report of the Horn expedition to Central Australia, pt. I.—Narrative, etc. September, 1896.

**Kirchner, Leopold Anton.** Catalogus hymenopterorum Europae. Auctore Leop. Kirchner . . . (Hrsg. von der K. K. Zool.-botan. gesellschaft in Wien) Vin-dobonae, Propriis expensis Societatis zoologico-botanicae, 1867. Agr 3—791

2 p. l., 285 p. 22<sup>cm</sup>.

**Kirchner, Leopold Anton.** Verzeichniss der in der gegend von Kaplitz, Bud-weiser kreises in Böhmen, vorkommenden aderflügler . . . [Wien, 1854] Agr 3—792

32 p. 22<sup>cm</sup>. [With his Catalogus hymenopterorum Europae]

Aus den Schriften des Zoologisch-botanischen vereins 1854.

**McGregor, Thomas M.** Notes on the aculeate Hymenoptera, with a list of the wild bees and wasps collected in Perthshire in 1887. [Perth, 1888]

65-72 p. 22<sup>cm</sup>.

From the Transactions and proceedings of the Perthshire society of natural science, vol. I, pt. II, 1887-88.

**Nees von Esenbeck, Christian Gottfried.** Hymenopterorum ichneumonibus affinium monographiæ, genera europæa et species illustrantes. Scripsit Christ. Godofr. Nees ab Esenbeck . . . Stuttgartiæ et Tubingæ, Sumptibus J. G. Cottæ, 1834. Agr 5-149

2 v. 21<sup>4</sup><sup>cm</sup>.

**Panzer, Georg Wolfgang Franz.** Entomologischer versuch die Jürineschen gattungen der Linnéschen hymenoptern nach dem Fabrziusschen system zu prüfen: im bezug auf die in der deutschen insektenfaune bekannt gemachten gattungen und arten dieser klasse, von Dr. Georg Wolfg. Franz Panzer . . . Nürnberg, In der Felseckerschen buchhandlung, 1806.

8 p. l., 271 p. 2 col. pl. 18<sup>cm</sup>. (Added t.-p.: Kritische revision der insektenfaune Deutschlands nach dem system bearb. von Dr. Georg Wolfg. Franz Panzer. I-c. hft. II. bändchen . . .)

**Panzer, Georg Wolfgang Franz.** Faunae insectorum germanicæ initia oder Deutschlands insecten gesammelt und hrsg. von D. Georg Wolfgang Franz Panzer . . . Classis iv. Piezata. Nürnberg, In der Felseckerschen buchhandlung, 1801.

3 v. col. plates. 10 x 14<sup>cm</sup>.

Apparently a collection of the plates and descriptions of Hymenoptera taken from Panzer's Faunae insectorum germanicæ initia.

**Radoshkovskii, Octavii Ivanovich.** Comte [!]-rendu des hyménoptères recueil lis en Égypte et Abyssinie en 1873. Par général d'artillerie O. Radoszkowsky. [St. Petersburg, 1876-77]

40 p. 24<sup>4</sup><sup>cm</sup>.

From Horæ Societatis entomologicæ Rossicæ, t. XII, no. 2, p. 111-150.

**Riley, Charles Valentine.** . . . Report upon the parasitic Hymenoptera of the Island of St. Vincent. By C. V. Riley, William H. Ashmead, and L. O. Howard. [London], 1894.

56-264 p. 22<sup>cm</sup>.

Extracted from the Linnean society's Journal—zoology, vol. xxv.

**Saunders, Edward.** The Hymenoptera Aculeata of the British islands. A descriptive account of the families, genera, and species indigenous to Great Britain and Ireland, with notes as to habits, localities, habitats, etc. By Edward Saunders, F. L. S. London, L. Reeve & co., 1896.

xii, 391, [1] p., 54 l. 52 (i. e. 54) pl. (51 col.) 26<sup>cm</sup>.

- Saussure, Henri de.** Hymenoptera. Familien der vespiden, sphegiden, pompileden, crabroniden und heterogynen. Bearb. von Dr. Henri de Saussure . . . [Wien, 1867] Agr 5—643  
156 p., 4 l. 4 pl. 30½ cm. (Novara-expedition—Zoologischer theil. Bd. II [abt 2])  
"Hymenoptera fossoria et mellifera. Supplement von J. Sichel": p. 139-156.
- Savigny, Marie Jules César Lelorgne de.** [Iconographie des insectes de l'Égypte] Hyménoptères, par J.-Cés. Savigny. [Paris, 1805-13]  
20 pl. 71<sup>cm</sup>.  
From Description de l'Égypte: Histoire naturelle, tome I, Zoologie. Published by French Commission des monuments de l'Égypte.
- Schøyen, Wilhelm Maribo.** Supplement til H. Siebke's Enumeratio insectorum norvegicorum, fasc. v, pars I (Hymenoptera Phytophaga et Aculeata) . . . Christiania, 1887.  
11 p. 24<sup>cm</sup>.  
From Christiania Videnskabselskabs, Forhandling 1887, no. 5.
- Schrottky, Curt.** Hyménoptères nouveaux de l'Amérique méridionale . . . Buenos Aires, 1902.  
[309]-314, [1] p. 27<sup>cm</sup>.  
From Anales del Museo nacional de Buenos Aires, t. VII.
- Schrottky, Curt.** Neue argentinische hymenopteren . . . Buenos Aires, 1902.  
[91]-117 p. 27<sup>cm</sup>.  
From Anales del Museo nacional de Buenos Aires, t. VIII (ser. 3<sup>a</sup>, t. I)
- Smith, Frederick.** Catalogue of British fossorial Hymenoptera, Formicidæ, and Vespidæ, in the collection of the British museum. By Frederick Smith, V. P. E. S. London, Printed by order of the trustees, 1858.  
2 p. l., 236 p. VI pl. 18¼<sup>cm</sup>.
- Smith, Frederick.** List of the specimens of British animals in the collection of the British museum. Part VI. Hymenoptera Aculeata. London, Printed by order of the trustees, 1851. Agr 3—816  
2 p. l., 134 p. 18<sup>cm</sup>.
- Smith, Frederick.** List of the specimens of British animals in the collection of the British museum. Part XIII. Nomenclature of Hymenoptera. London, Printed by order of the trustees, 1853. Agr 4—1774  
2 p. l., 74 p. 18<sup>cm</sup>.  
Printed on one side of leaf only.
- Taschenberg, Ernst Ludwig.** Die hymenopteren Deutschlands nach ihren gattungen und theilweise nach ihren arten als wegweiser für angehende hymenopterologen und gleichzeitig als verzeichniss der Halle'schen hymenopterenfauna analytisch zusammengestellt von Dr. E. L. Taschenberg . . . Leipzig, E. Kummer, 1866.  
vi, 277 p. 21¼<sup>cm</sup>.  
Slip pasted over imprint reads: Bremen, Verlag von M. Heinsius.
- Thomson, Carl Gustaf.** Hymenoptera Scandinaviæ, auctore C. G. Thomson . . . Lundæ, Typis expressit H. Ohlsson, 1871-78. Agr 4—1774  
5 v. in 3. plates. 32<sup>cm</sup>.  
Added t.-p. in Swedish.  
Vol. 2-3 printed by F. Berling.
- Trail, James William Helenus.** The gall-making Hymenoptera of Scotland (exclusive of those that live on oaks) . . . [Perth, 1888]  
72-80 p. 22<sup>cm</sup>.  
From the Transactions and proceedings of the Perthshire society of natural science, vol. I, pt. II, 1887-88.

## FAMILIES.

## TENTHREDINIDÆ.

**Boas, Johan Erik Vesti.** Det store bladhevseangreb paa lærkene i almindingen 1839-47. [Kjøbenhavn] 1897.

[52]-64 p. 30<sup>mm</sup>.

Særtryk af Tidsskrift for skovvæsen IX, A, 1897.

**Bos, Jan Ritzema.** . . . Mittel zur bekämpfung der Lophyrus-arten . . . [München] 1895.

[175]-176 p. 23<sup>1/2</sup><sup>mm</sup>.

Sonder-abdruck aus der "Forstlich-naturwissenschaftlichen zeitschrift," 4. hft., 1895.

**Brischke, C. G. A.** Beobachtungen über die arten der blatt- und holzwespen, von C. G. A. Brischke . . . und Dr. Gustav Zaddach . . . [Königsberg, 1863-84]

2 v. col. plates. 26 x 20<sup>1/2</sup><sup>mm</sup>. (v. 2, 25<sup>mm</sup>.)

Agr 5-506

Imprint of 2. abth.: Danzig, 1883.

1 abth. has no general t.-p. or continuous paging, but consists of papers published in Schriften der Physikalisch-ökonomischen gesellschaft zu Königsberg, jahrg. III-XXIV, 1862-83, pub. 1863-84.

**Brischke, C. G. A.** Ueber parthenogenesis bei den blattwespen . . . [Danzig, 1887]

168-172 p. 35<sup>1/2</sup><sup>mm</sup>.

From Schriften der Naturforschenden gesellschaft in Danzig, bd. 6, hft. 4, p. 168-172.

**Cameron, Peter.** . . . Memoirs of Scottish Tenthredinidæ . . . [Perth, 1873]

no. 1. col. pl. 23<sup>mm</sup>.

From the "Scottish naturalist," 1873, vol. II, p. 11-15.

CONTENTS.—No. 1. *Nematus gallicola*.

**Fallén, Karl Fredrik, præses.** Monographia tenthredinidum Sueciæ. Quorum descriptionem venia ampl. facult. philos. Acad. lund. præside Carol. Fred. Fallén . . . pro laurea publicæ disquisitioni subjicit Sveno Ludov. Lovén . . . Londini Gothorum, ex officina Berlingiana, 1829.

Agr 3-781

1 p. l., 48 p. 18<sup>1/2</sup><sup>mm</sup>.

**Förster, Arnold.** Neue blattwespen . . . [Bonn, 1854]

265-350 p. 4 pl. 21<sup>1/2</sup><sup>mm</sup>.

From Verhandlungen des Naturhistorischen vereines der Rheinlande. 1854, jahrg. 11.

**Frauenfeld, Georg, ritter von.** Weitere mittheilung über die rapswespe . . . [Wien] 1866.

[840]-844 p. 22<sup>1/2</sup><sup>mm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, bd. xvi.

**Froggatt, Walter Wilson.** . . . Descriptions of a new genus and two new species of Tenthredinidæ . . . [Sydney] 1890.

[487]-490 p. 22<sup>mm</sup>.

From vol. v (ser. 2nd) of the "Proceedings of the Linnean society of New South Wales" (30th July, 1890)

**Froggatt, Walter Wilson.** . . . Notes on the life-history of certain saw flies (genus *Perga*), with description of a new species . . . [Sydney] 1890.

[283]-288 p. 22<sup>mm</sup>.

From vol. v (ser. 2nd) of the "Proceedings of the Linnean society of New South Wales" (28th May, 1890)

**Great Britain—Board of agriculture.** . . . The gooseberry saw-fly (*Nematus ribesii*). [London, 1893]

[65]-67 p. illus. 24<sup>1/2</sup><sup>mm</sup>. (*Its* [Leaflet], 1893, [no.] 12)

————— [London, 1898]

3, [1] p. illus. 21<sup>1/2</sup><sup>mm</sup>. (*Its* Leaflet, no. 12)

**Great Britain—Board of agriculture.** . . . The pear and cherry sawfly. (*Eriocampa limacina*, Cameron.) [London, 1900]

4 p. illus. 21<sup>1/2</sup><sup>mm</sup>. (*Its* Leaflet no. 62)



**Hartig, Theodor.** Die familien der blattwespen und holzwespen nebst einer allgemeinen einleitung zur naturgeschichte der hymenopteren von Dr. Th. Hartig . . . Neue ausg. . . Berlin, Haude- und Spener'sche buchhandlung (F. Weidling), 1860. xiv, 416 p. VIII pl. 22 $\frac{1}{2}$ <sup>cm</sup>.

**Klug, Johann Christoph Friedrich.** Dr. Fr. Klug's gesammelte aufsätze über blattwespen. Hrsg. von Dr. Jos. Kriechbaumer . . . Berlin, R. Friedlaender & sohn, 1884. Agr 3—793  
4 p. l., 300 p. col. pl. 27<sup>cm</sup>.

**Kollar, Vincenz.** Die cerr-eichen-blattwespe, *Tenthredo* (*Emphytus*) *cerris*, ein forstschädliches insect . . . Wien, 1852.  
1 p. l., 3 p. col. pl. 31<sup>cm</sup>.

Aus dem III. bande der Denkschriften der Mathematisch-naturwissenschaftlichen classe der Kaiserlichen akademie der wissenschaften besonders abgedruckt.

**Marchal, Paul.** Rapport sur la tenthrède de la rave et sur les dégâts exercés par cet insecte en 1901 aux environs de Paris . . . Paris, 1902.  
10 p. illus. 27<sup>cm</sup>.

“Principaux ouvrages à consulter”: p. 10.

Extrait des Annales du Ministère de l'agriculture. 1902, no. 2.

**Marchand, Ernest.** Inventaire des tenthredonides ou mouches à scie (Hymenoptera-Chalastogastra) recueillies aux environs de Nantes, suivi de notices sur quelques espèces particulièrement nuisibles . . . Nantes, 1902.

[233]—296 p. 25 $\frac{1}{2}$ <sup>cm</sup>.

From Bulletin de la Société des sciences naturelles de l'ouest de la France, 2<sup>e</sup> sér., t. II, fasc. III-IV. Bibliographie: p. 238.

**Marlatt, Charles Lester.** . . . Japanese Hymenoptera of the family Tenthredinidæ . . . Washington, 1898.  
493—506 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

From the Proceedings of the United States national museum, vol. XXI, p. 493—506 <no. 1157>

**Marlatt, Charles Lester.** Notes on a red cedar saw-fly . . . Topeka [1887]  
80—[83] p. illus. 22<sup>cm</sup>.

From the Transactions of the Kansas academy of science, vol. X, 1885-6.

**Marlatt, Charles Lester.** Pear slug (*Eriocampoides limacina* Retzius) Washington, 1897.

7 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 26)

**Marlatt, Charles Lester.** Revision of the Nematinae of North America, a subfamily of leaf-feeding Hymenoptera of the family Tenthredinidæ. Washington, 1896.  
135 p. illus., pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 3)

**Newport, George.** Observations on the anatomy, habits and economy of *Athalia centifolia*, the saw-fly of the turnip, and on the means which have been adopted for the prevention of its ravages. The prize essay of the Entomological society and Agricultural association of Saffron Walden, for the year 1837 . . . London, 1838.  
32 p. 1 pl. 21 $\frac{1}{2}$ <sup>cm</sup>.

**Norton, Edward.** . . . Catalogue of American species of *Tenthredo*, as arranged by Hartig . . . [Boston, 1862]  
116—122 p. 22 $\frac{1}{2}$ <sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. IX, September, 1862.

**Norton, Edward.** Catalogue of several genera of the Tenthredinidæ in the United States . . . Boston, 1861.  
14 p. 23<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, April 3, 1861.

**Norton, Edward.** . . . Notice of the genus *Selandria* . . . [Boston, 1861]  
219—223 p. 23<sup>cm</sup>.

From the Journal of the Boston society of natural history, October 16, 1861.

- Norton, Edward.** Descriptions of several of Harris's named Tenthredinidæ . . . [Boston, 1861]  
223-224 p. 23<sup>cm</sup>.  
From the Journal of the Boston society of natural history, October 16, 1861.
- Norton, Edward.** On the Hymenoptera of the genus *Allantus* in the United States . . . [Boston, 1860]  
236-260 p. 23<sup>cm</sup>.  
From the Journal of the Boston society of natural history, Dècember, 1860.
- Saint-Fargeau, Amédée Louis Michel Le Peletier, comte de.** Monographia tenthredinetarum, synonymia extricata. Auctore Am. Le Peletier de Saint-Fargeau . . . Parisiis, apud auctorem [etc.] 1823.  
xvii, 176 p. 20<sup>cm</sup>.
- Sajó, Karl.** Zur lebensweise von *Lyda erythrocephala* L. und *Lyda stellata* Christ . . . [München] 1898.  
[237]-247 p. illus. 23½<sup>cm</sup>.  
Sonder-abdruck aus der Forstlich-naturwissenschaftlichen zeitschrift. 7. heft, 1898.
- Schøyen, Wilhelm Maribo.** Den hvidbenede rosenbladhveps. (*Eriocampa rosæ*, Harris) . . . [n. p., 189-]  
3 p. illus. 23¼<sup>cm</sup>.
- Semenov, Andrei Petrovich.** De tenthredinidarum genere novo *Clavellariae*. Oliv. proximo . . . [St. Pétersbourg, 1896]  
[95]-104 p. 25<sup>cm</sup>.  
From Annuaire du Musée zoologique de l'Académie impériale des sciences de St. Pétersbourg, 1896.
- Slaviček, Johann.** Die blattwespen der umgebung von Milkov. Ein beitrug zur hymenopterenfauna von Mähren . . . [Brunn, 1891]  
[259]-267 p. illus. 23<sup>cm</sup>.  
From Verhandlungen des Naturf. vereines in Brunn, bd. xxix.
- Thomas, Friedrich August Wilhelm.** . . . Ueber das durch eine tenthredinide erzeugte myelocecidium von *Lonicera*. [Berlin 1888]  
xxiv-xxvii p. 25<sup>cm</sup>.  
Separat-abdruck aus den Verhandlungen des Botanischen vereines der provinz Brandenburg, xxix.
- Westwood, John Obadiah.** A monograph of the sawflies composing the Australian genus *Perga* of Leach . . . [London] 1880.  
359-379, xxxiii-xxxvii p. 23¼<sup>cm</sup>.  
From Proceedings of the Zoological society of London, 1880.

## URO CERIDÆ.

- Brischke, C. G. A.** Beobachtungen über die arten der blatt- und holzwespen. *See under* Tenthredinidæ, p. 160.
- Harrington, W. Hague.** Canadian Uroceridæ . . . [Ottawa, 1894]  
cover-title, 131-153 p. 29<sup>cm</sup>.  
From Trans. Royal soc. Canada, 1893, section iv.
- Hartig, Theodor.** Die familien der blattwespen und holzwespen. *See under* Tenthredinidæ, p. 161.

## CYNIPIDÆ.

- Ashmead, William Harris.** . . . Descriptions of new cynipidous galls and gall-wasps in the United States national museum . . . Washington, 1896.  
113-136 p. 24¼<sup>cm</sup>.  
From the Proceedings of the U. S. National museum, vol. xix, p. 113-136. <No. 1102>
- Beutenmüller, William.** The types of Cynipidæ in the collection of the American museum of natural history . . . New York, 1904.  
23-28 p. 24¼<sup>cm</sup>.  
Author's edition, extracted from Bulletin of the American museum of natural history, vol. xx, article III, p. 23-28.

- Förster, Arnold.** Ueber die gallwespen . . . Wien, 1869.  
44 p. 22<sup>em</sup>.  
Aus den Verhandlungen d. K. K. Zoolog.-botanischen gesellschaft in Wien <jahrgang 1869> besonders abgedruckt.
- Froggatt, Walter Wilson.** . . . Notes on Australian Cynipidæ, with descriptions of several new species . . . [Sydney] 1892.  
[152]-156 p. 21<sup>4</sup><sup>em</sup>.  
From vol. VII (ser. 2nd) of the "Proceedings of the Linnean society of New South Wales" (March 30th, 1892)
- Gillette, Clarence P.** . . . Descriptions of new Cynipidæ in the collection of the Illinois state laboratory of natural history . . . [Urbana, 1887-95]  
[191]-205 p. pl. 23<sup>em</sup>.  
From the Bulletin of the Illinois state laboratory of natural history, vol. III.
- Giraud, Joseph Étienne.** Signalements de quelques espèces nouvelles de cynipides et de leurs galles . . . [Wien] 1859.  
[337]-374 p. 23<sup>em</sup>.  
From Verhandlungen der K. K. Zoolog.-botanischen gesellschaft in Wien, jahrg. 1859, vol. IV, Abh., p. 337-374.
- Kessler, Hermann Friedrich.** . . . Die entwicklungs- und lebensgeschichte der gallwespe *Cynips calicis* Brgsd. und der von derselben an den weiblichen blüthen von *Quercus pedunculata* Ehrh. hervorgerufenen gallen, knoppfern genannt . . . Cassel, 1895.  
28 p., 1 l. fold. pl. 20<sup>4</sup><sup>em</sup>.  
Sonderabdruck aus dem 40. jahresbericht des Vereins für naturkunde zu Cassel.
- Müller, Albert.** Note on a Chinese artichoke gall (mentioned and figured in Dr. Hance's paper "On silkworm-oaks") allied to the European artichoke gall of *Aphilothrix gemmae*, Linn. . . . [London, 1872]  
4 p. 24<sup>em</sup>.  
Reprinted from "The Journal of the Linnean society," London, vol. XI, Zoology, no. 55, 1872, p. 428-431.
- Riley, Charles Valentine.** A new oak-gall on acorn cups . . . [St. Louis] 1877.  
577-578 p. 24<sup>em</sup>.  
From the Transactions of the St. Louis academy of science, vol. III, Dec. 20, 1877.
- Thomas, Friedrich August Wilhelm.** Bemerkungen zu R. Hess' Beobachtung der knoppfern-gallwespe bei Giessen . . . [München] 1893.  
3 p. 23<sup>4</sup><sup>em</sup>.  
Sonderabdruck aus der "Forstlich-naturwissenschaftlichen zeitschrift" 1893. 7. hft.

## ICHNEUMONIDÆ.

- Ashmead, William Harris.** . . . Classification of the ichneumon flies, or the superfamily Ichneumonoidea . . . Washington, 1900. Agr 5-138  
viii, 220 p. 25<sup>em</sup>.  
From the Proceedings of the United States national museum, vol XXXIII, p. 1-220 <no. 1206>  
List of the works consulted and quoted: p. 153-160.
- Ashmead, William Harris.** . . . Descriptions of new Ichneumonidæ in the collection of the U. S. National museum . . . Washington, 1890.  
387-451 p. 24<sup>4</sup><sup>em</sup>.  
From the Proceedings of the United States national museum, vol. XII, p. 387-451. <No. 779>
- Baudry des Lozières, Louis Narcisse.** A memoir on animal cotton, or the insect fly-carrier . . . [Philadelphia, 1802]  
150-159 p. 25<sup>em</sup>.  
From Transactions of the American philosophical society, vol. V, 1802.
- Brischke, C. G. A.** Die ichneumoniden der provinzen West- und Ostpreussen . . . [Danzig, 1880-81]  
pt. 3. 23<sup>4</sup><sup>em</sup>.  
From Schriften der Naturforschende gesellschaft in Danzig, v. 5, p. 331-353.

**Cameron, Peter.** Descriptions of seventeen new genera of Ichneumonidæ from India and one from Australia. [London, 1901]

pt. 1-3. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. VII, March, 1901, p. 275-284; April 1901, p. 374-384; May 1901, p. 480-487.

**Desvignes, Thomas.** Catalogue of British Ichneumonidæ in the collection of the British museum. By Thomas Desvignes, M. E. S. London, Printed by order of the trustees, 1856. Agr 3—778

2 p. l., 120 p. 18<sup>cm</sup>.

**Förster, Arnold.** Monographie der gattung *Campoplex* Grv. Von Dr. Förster in Aachen. (Mit tafel x). [Wien, Druck von C. Ueberreuter (M. Salzer), 1868]

116 p. 1 pl. 22<sup>cm</sup>.

Aus den Verhandlungen d. K. K. Zoologisch-botanischen gesellschaft in Wien <Jahrg. 1868> besonders abgedruckt. Vorgelegt in der sitzung vom 7. October 1868.

**Förster, Arnold.** Monographie der gattung *Pezomachus* (Grv.) von Arn. Foerster . . . Berlin, Verlag der Nicolai'schen buchhandlung, 1851.

1 p. l., 244 p. 22½<sup>cm</sup>.

Paging irregular. no. 81-96 omitted.

Wanting p. 177-192.

**Förster, Arnold.** Uebersicht der gattungen und arten der familie der plectiscoiden . . . [Bonn, 1871]

[71]-123 p. 21<sup>cm</sup>.

From Verhandlungen des Naturhistorischen vereines der preussichen Rheinlande und Westphalens, 28 jahrg., 1871.

**Gravenhorst, Johann Ludwig Carl.** *Hellwigia*, novum insectorum genus. Condidit Dr. J. L. C. Gravenhorst . . . [Halle, 1823]

1 p. l., 317-322 p. col. pl. 28<sup>cm</sup>.

From *Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur.* vol. IX.

**Gravenhorst, Johann Ludwig Carl.** *Ichneumonologia europaea*, auctore I. L. C. Gravenhorst . . . Vratislaviae, sumtibus auctoris; [etc., etc.] 1829. Agr 3—339

3 v. II pl., 2 fold. tab. 21<sup>cm</sup>.

CONTENTS.—Pars I, continens generalia de ichneumonidibus, ichneumones, supplementa, indices et tabulas duas lapidi incisas.—Pars II, continens tryphones, trogos, alomyas et cryptos.—Pars III, continens pimplas, motopios, bassos, banchos, ophiones, hellwigias, acænitias, xoridas, et supplementa.

"Index librorum, in ichneumonologia allegatorum, secundum ordinem alphabeticum auctorum:" pars I, p. xv-xxvii.

**Gravenhorst, Johann Ludwig Carl.** *Monographia ichneumonum pedestrium*, præmisso proœmio de transitu et mutabilitate specierum et varietatum, auctore I. L. C. Gravenhorst . . . Lipsiæ, G. I. Göschen, 1815. Agr 3—784

viii, 110 p. 1 fold. tab. 22<sup>cm</sup>.

"Opera, quæ in hac monographia citantur, ordine alphabetico hæc sunt:" p. [v]-viii.

**Holmgren, August Emil.** *Ichneumonologia suecica*, auctore Aug. Emil Holmgren. Holmiæ, ex officina Norstedtiana, 1864-89. Agr 3—786

3 v. 1 pl. 22<sup>cm</sup>.

Paged continuously.

**Morley, Claude.** *Ichneumonologia britannica*. The ichneumons of Great Britain; a descriptive account of the families, genera and species indigenous to the British islands, together with notes as to classification, localities, habitats, hosts, etc. By Claude Morley . . . *Ichneumoninæ* . . . Plymouth, J. H. Keys, 1903.

L, 315 p., [1] p. front., illus. 24<sup>cm</sup>.

Agr 4—944

"Works consulted:" p. [xvii]-xxi.

**Packard, Alpheus Spring.** Descriptions of some new ichneumon parasites of North American butterflies . . . [Boston] 1880.

18-38 p. 24½<sup>cm</sup>.

From *Proceedings of the Boston society of natural history*, vol. XXI, 1881.

**Schmiedeknecht, Otto.** Opuscula ichneumonologica. Hrsg. von Dr. Otto Schmiedeknecht . . . Blankenburg i. Thür, 1902-05.

fasc. 1-11. 23<sup>em</sup>.

CONTENTS.—Fasc. 1-11. Allgemeine eintheilung. Die gattungen der joppinen, ichneumoninen, listrodrominen, heresiarchinen, gyrodonininen und alomyinen. Bestimmungstabelle der paläarktischen arten der gattung Ichneumon.

**Szépligeti, Gyözö.** Espèces nouvelles d'ichneumonides et de braconides du Muséum d'histoire naturelle de Paris . . . [Paris] 1903.

2 p. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle. 1903, no. 7, p. 336.

**Vollenhoven, Samuel Constantius Snellen van.** Pinacographia. Illustrations of more than 1,000 species of north-west-European Ichneumonidæ, sensu Linnaeano. Afbeeldingen van meer dan 1,000 soorten van noord-west-europeesche sluipwespen (ichneumones sensu Linnaeano), door Mr. S. C. Snellen van Vollenhoven. 's Gravenhage, M. Nijhoff, 1880.

xi, 68 p. 45 col. pl. 32<sup>4</sup><sup>em</sup>.

Preface states that the author died before his work was completed and that only some 400 species were figured.

**Wesmael, Constantin.** . . . Tentamen dispositionis methodicæ Ichneumonum Belgii, auctore C. Wesmael . . . [Bruxelles] 1844. Agr 4—3627

238 p. pl. 29<sup>em</sup>.

At head of title: Académie royale de Bruxelles. (Extrait du tome XVIII des Mémoires)

#### BRACONIDÆ.

**Ashmead, William Harris.** . . . Descriptions of new Braconidæ in the collection of the U. S. National museum . . . [Washington, 1888]

611-671 p. 25<sup>em</sup>.

From the Proceedings of the United States national museum, vol. II, 1888.

**Förster, Arnold.** Synopsis der familien und gattungen der braconen . . . [Bonn, 1862]

[225]-288 p. pl. 20<sup>4</sup><sup>em</sup>.

From Verhandlungen des Naturhistorischen vereines der preussischen Rheinlande und Westphalens, jahrg. 19, 1862.

**Marshall, Thomas Ansell.** Description de deux espèces nouvelles de braconides . . . [Paris] 1900.

1 p. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1900, n° 7, p. 363.

**Riley, Charles Valentine.** Notes on North American microgasters, with descriptions of new species . . . [St. Louis] 1881.

cover-title, 20 p. illus. 22<sup>em</sup>.

From the Transactions of the Academy of science of St. Louis, vol. IV, no. 2.

**Ruthe, Johann Friedrich.** Deutsche braconiden, von J. F. Ruthe. (Aus dessen nachlass veröffentlicht) Erstes[-drittes] stück. Berlin, 1860-62.

3 pts. 21<sup>em</sup>.

From the Berliner entomologische zeitschrift, v. 4, 1860, p. 105-160; v. 5, 1861, p. 132-162; v. 6, 1862, p. 1-58.

**Weed, Clarence Moores.** Notes on some Illinois microgasters; with descriptions of new species . . . [Urbana, 1887]

8 p. 23<sup>4</sup><sup>em</sup>.

From Bulletin of the Illinois state laboratory of natural history, vol. III.

## CHALCIDIDÆ.

**Ashmead, William Harris.** . . . Classification of the chalcid flies, or the superfamily Chalcidoidea, with descriptions of new species in the Carnegie museum, collected in South America by Herbert H. Smith. By William Harris Ashmead . . . Pittsburgh, Carnegie institute, 1904. 4-19097

xi, 225-561 p. xxxi-xxxix pl. 33<sup>om</sup>. (Memoirs of the Carnegie museum. vol. i, no. 4)  
"Literature and abbreviations": p. 522-532.

Publications of the Carnegie museum. Serial no. 21.

**Ashmead, William Harris.** A new genus and species of Proctotrypidæ. *See under Proctotrypidæ*, p. 167.

**Ashmead, William Harris.** . . . On the genera of the chalcid-flies belonging to the subfamily Encyrtinæ . . . Washington, 1900.

1 p. l., 323-412 p. 254<sup>om</sup>.

From the Proceedings of the United States national museum, vol. xxii, p. 323-412. <No. 1202>

**Cook, Albert John.** The black wheat stock *Isosoma*. *Isosoma nigrum* n. s. Rochester & New York, 1885.

1 p. illus. 44 x 22<sup>om</sup>.

From Rural New-Yorker of May 9th, 1885.

**Dalman, Johann Wilhelm.** Försök till uppställning af insect-familjen Pteromalini, i synnerhet med afseende på de i Sverige funne arter; af J. V. Dalman. [Stockholm, 1820-22]

3 pts. fold. pl., fold. tables. 204<sup>om</sup>.

From Svenska kongliga vetenskaps-akademien. Handlingar, 1820, p. 123-182, 340-385; 1822, p. 394-403.

**Förster, Arnold.** Beiträge zur monographie der pteromalinen Nees. Von Arn. Foerster . . . I. heft. Aachen, J. A. Mayer, 1841.

46 p., 1 l. pl. 26<sup>om</sup>.

**Giard, Alfred.** . . . Retard dans l'évolution déterminé par anhydrobiose chez un hyménoptère chalcidien (*Lygellus epilachnæ*, nov. gen. et nov. spec.) . . . [Paris] 1896.

3 p. 244<sup>om</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (séance du 26 juillet 1896)

**Howard, Leland Ossian.** . . . The biology of the hymenopterous insects of the family Chalcididæ . . . Washington, 1892.

567-588 p. 244<sup>om</sup>.

From the Proceedings of the United States national museum, vol. xiv, p. 567-588 <no. 881>

**Howard, Leland Ossian.** The correlation of structure and host-relation among the Encyrtinæ . . . Ithaca, 1893.

[177]-185 p. 234<sup>om</sup>.

Reprinted from the Wilder quarter-century book.

**Howard, Leland Ossian.** Descriptions of North American Chalcididæ from the collections of the U. S. Department of agriculture and of Dr. C. V. Riley, with biological notes. First paper. Together with a list of the described North American species of the family. Washington, 1885.

47 p. 23<sup>om</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 5)

**Howard, Leland Ossian.** Grass and grain joint-worm flies and their allies: a consideration of some North American phytophagic Eurytominae. Washington, 1896.

24 p. illus. 23<sup>om</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 2)

**Howard, Leland Ossian.** . . . On the bothriothoracine insects of the United States . . . Washington, 1895.

605-613 p. 244<sup>om</sup>.

From the Proceedings of the United States national museum, vol. xvii, p. 605-613 <no. 1025>

**Howard, Leland Ossian.** . . . On the Chalcididæ of the Island of Grenada, B. W. I. . . . [London] 1896.

[129]-178 p. 22<sup>em</sup>.

Extracted from the Linnean society's journal.—zoology, vol. xxvi.

**Howard, Leland Ossian.** Revision of the Aphelininæ of North America, a subfamily of the hymenopterous parasites of the family Chalcididæ. Washington, 1895. 44 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 1)

**Howard, Leland Ossian.** . . . Sulla Scutellista cyanea Motsch. . . . Firenze, 1896.

7 p. pl. 23<sup>em</sup>.

Estratto dalla Rivista di patologia vegetale, anno v, num. 1-4. 1896.

**Kirby, William.** . . . Some account of a new species of Eulophus Geoffroy . . . [London, 1822]

111-113 p. 29½<sup>em</sup>.

From Transactions, Linnean society of London. vol. xiv.

**Kirby, William Forsell.** . . . Remarks on the genera of the subfamily Chalcidinae, with synonymic notes and descriptions of new species of Leucospidinae and Chalcidinae . . . [London] 1882.

53-78 p. 3-4 pl. 22<sup>em</sup>.

From the Journal of the Linnean society of London. Zoology, vol. xvii.

**Riley, Charles Valentine.** Notes on joint worms . . . [Rochester] 1885.

1 p. illus. 39<sup>em</sup>.

From the Rural New-Yorker of June 20, 1885, vol. 44, p. 418.

**Schrottky, Curt.** . . . Les parasites de l'Oeceticus platensis Berg (bicho de cesto) . . . Buenos Aires, 1902.

[45]-48 p. 27<sup>em</sup>.

From Anales del Museo nacional de Buenos Aires, t. VIII (ser. 3<sup>a</sup>, t. 1)

**Schwarz, Eugene Amandus.** . . . Biological note on Euplectrus comstockii Howard. [Philadelphia] 1881.

61-63 p. 23<sup>em</sup>.

From the American naturalist, January, 1881. vol. xv.

**Walker, Francis.** List of the specimens of hymenopterous insects in the collection of the British museum. Part II.—Chalcidites. Additional species. London, Printed by order of the trustees, 1848.

iv, [99]-237 p. 18½<sup>em</sup>.

#### PROCTOTRYPIDÆ.

**Ashmead, William Harris.** A monograph of the North American Proctotrypidæ. By William H. Ashmead. Washington, Gov't print. off., 1893.

472 p. xviii pl. 24<sup>em</sup>. (Added t.p.: Smithsonian institution. United States national museum. Bulletin of the United States national museum. no. 45)

"Literature and abbreviations": p. [458]-457.

**Ashmead, William Harris.** A new genus and species of Proctotrypidæ and a new species of Brachysticha, bred by Prof. F. M. Webster . . . [Cincinnati, 1894] 170-172 p. pl. 23½<sup>em</sup>.

Reprint from the Journal of the Cincinnati society of natural history, vol. xvii, 1894.

**Foerster, Arnold.** Ueber die familie der mymariden . . . [Berlin and Halle, 1847]

195-233 p. 22½<sup>em</sup>.

From Linnæa, jahrg. 2, 1847.

**Harrington, W. Hague.** . . . Catalogue of Canadian Proctotrypidæ . . . Ottawa, Toronto [etc.] 1899.

169-206 p. 25<sup>em</sup>.

From the Transactions of the Royal society of Canada, 2nd ser., 1899-1900, vol. v, section iv, geological and biological sciences.

**Marchal, Paul.** . . . Le parasitisme des Inostemma . . . [Paris] 1902.

[78]-81 p. 25½<sup>em</sup>.

Extrait du Bulletin de la Société zoologique de France, tome xxvii, séance du 25 février 1902.

## CHRYSIDIDÆ.

**Brèthes, Juan.** . . . Contributions à l'étude des hyménoptères de l'Amérique du sud et spécialement de la République Argentine: les chrysidides . . . Buenos Aires, 1902.

[263]-292 p., 1 l. pl. 27<sup>cm</sup>.

From *Anales del Museo nacional de Buenos Aires*, tomo VIII (ser. 3, t. 1)

**Du Buysson, Robert, vicomte.** Catalogue des insectes hyménoptères de la famille des chrysidides du Muséum de Paris . . . [Paris] 1899.

11 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1899, v. 5, p. 159-169.

**Medina y Ramos, Manuel.** Chrysididos de España . . . [Madrid, 1902] , [341]-490 p. 25<sup>cm</sup>.

From *Sociedad española de historia natural. Anales*, v. 30, 1902.

**Mocsáry, Sándor.** Monographia chrysididarum orbis terrarum universi. Auctore Alexandro Mocsáry . . . Dissertatio inauguralis in Academia scientiarum hungarica habita die 15 aprilis 1889 . . . Budapestini, typis Societatis Franklinianæ, 1889.

Agr 5-845

xv, 643 p. II pl. 32<sup>cm</sup>.

Added t.-p. in Hungarian.

"Literatura chrysididarum": p. 1-19.

Éditio separata sectionis tertix eiusdem Academiæ 1889-89. II.

## FORMICIDÆ.

**André, Ernest.** Sur la femelle de l'*Anomma nigricans* Ill. (hyménoptère) . . . [Paris] 1900.

5 p. illus. 23<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1900, n° 7, p. 364-368.

**Barrett, Otis Warren.** The brown ant in orange orchards . . . Kingston, 1904. 204-206 p. 25<sup>cm</sup>.

From the Bulletin of the Department of agriculture, Jamaica, vol. II, pt. 9.

**Cook, Orator Fuller.** An enemy of the cotton-boll weevil. Washington, 1904. 7 p. 22<sup>cm</sup>. (U. S. Agriculture, Department of. Report no. 78)

**Cook, Orator Fuller.** Report on the habits of the kelep, or Guatemalan cotton-boll-weevil ant. Washington, 1904.

15 p. 22<sup>cm</sup>. (U. S. Agriculture, Department of—Entomology, Bureau of. Bulletin no. 49)

**Downs, H. M.** . . . Ants and their surroundings . . . Rutland, 1886. [259]-272 p. 15<sup>cm</sup>. (Science series, vol. I, no. 13)

**Fielde, Adele M.** The reactions of ants to material vibrations. By Adele M. Fielde and George H. Parker. Philadelphia, 1904.

642-650 p. illus. 26<sup>cm</sup>.

"Bibliography": p. 650.

From the Proceedings of the Academy of natural sciences of Philadelphia, September, 1904.

**Forel, Auguste Henri.** . . . Les formicides, par A. Forel . . . Paris, Imprimerie nationale, 1891.

Agr 4-1775

2 p. l., v, 280 p. 7 pl. (6 col.) 32<sup>cm</sup>. (*In* Grandidier, A., ed. *Histoire physique, naturelle et politique de Madagascar*. Paris, 1875. Vol. xx. *Histoire naturelle des hyménoptères*, 2. ptie.)

"Ouvrages dans lesquels sont décrites des fourmis de Madagascar": p. v.

**Forel, Auguste Henri.** Les fourmis de la Suisse; systématique, notices anatomiques et physiologiques, architecture, distribution géographique, nouvelles expériences et observations de mœurs. Par Auguste Forel . . . Ouvrage couronné par la Société helvétique des sciences naturelles. [Zurich, 1874]

1 p. l., iv, 10, 452 p., 11., v p. II pl. 28<sup>cm</sup>.

"Notice bibliographique": p. [449]-452.

Published in Société helvétique des sciences naturelles. *Nouveaux mémoires*. vol. 26, 1874.



**Gould, William.** An account of English ants; which contains—i. Their different species and mechanism. ii. Their manner of government and a description of their several queens. iii. The production of their eggs, and process of the young. iv. The incessant labours of the workers or common ants. With many other curiosities observable in these surprising insects . . . By the Rev. William Gould . . . London, A. Millar, 1747.

Agr 3—788

8 p. l., 109 p. 16<sup>em</sup>.

**Hay, Robert.** Note on a habit of the red ants . . . [Topeka, 1887]

27—28 p. 22<sup>em</sup>.

From the Transactions of the Kansas academy of science, vol. x, 1887.

**Huth, Ernst.** Ameisen als pflanzenschutz. Verzeichniss der bisher bekannten myrmekophilen pflanzen bearb. von Dr. Ernst Huth . . . Frankfurt a. Oder, B. Waldmann's verlag, 1886.

15, [1] p., 1 l. incl. front., illus. 25<sup>em</sup>. (*On cover*: Sammlung naturwissenschaftlicher vorträge hrsg. von Dr. Ernst Huth, III)

**Huth, Ernst.** Myrmecophile und myrmekophobe pflanzen. Von Ernst Huth . . . Berlin, R. Friedländer & sohn, 1887.

27 p. incl. front., illus. 24<sup>em</sup>. (*On cover*: Sammlung naturwissenschaftlicher vorträge hrsg. von Dr. Ernst Huth, VII)

"Litteratur-verzeichniss": p. [25]—27.

**Thering, Hermann von.** . . . Die anlage neuer colonien und pilzgärten bei *Atta sexdens* . . . [Leipzig] 1898.

[238]—245 p. illus. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 556, 1898.

**Janet, Charles.** . . . Aiguillon de la *Myrmica rubra*, appareil de fermeture de la glande à venin. Paris, G. Carré et C. Naud, 1898.

4—35556

27 p. illus., 3 pl. (1 fold.) 23<sup>em</sup>. (*His Études sur les fourmis, les guêpes et les abeilles*, note 18)

"Listes des auteurs cités": p. 26.

**Janet, Charles.** . . . Anatomie du gaster de la *Myrmica rubra*. Paris, G. Carré et C. Naud, 1902.

Agr 3—1081

68 p. illus., 8 (i. e. 9) pl. (2 fold.) 24<sup>em</sup>.

At head of title: Janet Charles.

"Liste des ouvrages cités": p. 64—66.

**Janet, Charles.** . . . Appareils pour l'observation des fourmis et des animaux myrmécophiles . . . Paris, 1897.

[302]—323 p. illus., pl. 24<sup>em</sup>. (*His Études sur les fourmis, les guêpes et les abeilles*, note 15)

"Auteurs cités": p. 322.

Extrait des Mémoires de la Société zoologique de France vol. x, 1897.

**Janet, Charles.** . . . Les fourmis. Conférence faite le 28 février 1896 à l'occasion de la réunion générale annuelle de la Société [zoologique de France] . . . Paris, 1896.

36, [1] p. 24<sup>em</sup>.

**Janet, Charles.** Réaction alcaline des chambres et galeries des nids de fourmis. Durée de la vie des fourmis décapitées . . . Paris, 1898.

4 p. 28<sup>em</sup>. (*His* [Notes sur les fourmis et les guêpes] 13)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 127, p. 130—133.

**Janet, Charles.** . . . Sur le système glandulaire des fourmis . . . Paris, 1894.

4 p. 28<sup>em</sup>. (*His* [Notes sur les fourmis et les guêpes] 3)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 118, p. 989—992.

**Janet, Charles.** . . . Sur les nématodes des glandes pharyngiennes des fourmis (*Pelodera*, sp.) . . . Paris, 1893.

3 p. illus. 28<sup>em</sup>. (*His* [Notes sur les fourmis et les guêpes] 1)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 117, p. 700—702.

**Janet, Charles.** . . . Sur les nerfs céphaliques, les corpora allata et le tentorium de la fourmi (*Myrmica rubra* L.) . . . Paris, 1899.

[295]-337 p. illus., III-VI pl. 24<sup>1</sup>/<sub>2</sub>cm.

Extrait des Mémoires de la Société zoologique de France, vol. XII, 1899.

"Liste des auteurs cités": p. 333-334.

**Janet, Charles.** . . . Sur les nerfs de l'antenne et les organes chordotonaux chez les fourmis. Paris, 1894.

4 p. illus. 23<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 2)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 118, p. 814-817.

**Janet, Charles.** Sur les rapports de l'*Antennophorus Uhlmanni* Haller avec le *Lasius mixtus* Nyl. Paris, 1897.

3 p. illus. 23<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 10)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 124, p. 583-585.

**Janet, Charles.** Sur les rapports des lépismides myrmécophiles avec les fourmis. Paris, 1896.

4 p. 23<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 8)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 122, p. 799-802.

**Janet, Charles.** Sur les rapports du *Discopoma comata* Berlese, avec le *Lasius mixtus* Nylander . . Paris, 1897.

4 p. illus. 23<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 9)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 124, p. 102-105.

**Janet, Charles.** Sur un organe non décrit, servant à la fermeture d'un réservoir du venin et sur le mode de fonctionnement de l'aiguillon chez les fourmis . . Paris, 1898.

4 p. illus. 23<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 14)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 127, p. 638-641.

**Janet, Charles.** Sur une cavité du tégument servant chez les Myrmicinae, à étaler, au contact de l'air, un produit de sécrétion . . . Paris, 1898.

4 p. illus. 23<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 12)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 126, p. 1168-1171.

●**McCook, Henry Christopher.** Ants as beneficial insecticides . . [Philadelphia] 1882.

263-271 p. 25<sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1882.

**McCook, Henry Christopher.** The honey ants of the Garden of the Gods, and the occident ants of the American plains. A monograph of the architecture and habits of the honey-bearing ant, *Myrmecocystus melliger*, with notes upon the anatomy and physiology of the alimentary canal; together with a natural history of the occident harvesting ants, or, stone-mound builders of the American plains. By Henry C. McCook. Philadelphia, J. B. Lippincott & co., 1882. Agr 2-346

188 p. illus., XIII pl. 23<sup>cm</sup>.

**McCook, Henry Christopher.** The natural history of the agricultural ant of Texas. A monograph of the habits, architecture, and structure of *Pogonomyrmex barbatus*. By Henry Christopher McCook. Author's edition. [Philadelphia] Academy of natural sciences of Philadelphia, 1879.

311 p., incl. XXIII pl. 23<sup>cm</sup>.

**McLaren, J. D.** The occidental ant in Kansas . . [Topeka, 1887]

[7]-10 p. 23<sup>cm</sup>.

From the Bulletin of the Washburn college laboratory of natural history, v. 2, 1887.

- Marlatt, Charles Lester.** House ants (*Monomorium pharaonis*, et al.) Washington, 1898.  
4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 34)
- Mayr, Gustav L.** Südamerikanische formiciden . . . Wien, 1887.  
124 p. 23<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1887> besonders abgedruckt.
- Moggridge, J. Traherne.** Harvesting ants and trap-door spiders. Notes and observations on their habits and dwellings. By J. Traherne Moggridge, F. L. S. London, L. Reeve & co., 1873.  
xi, 156 p. illus., xlii pl. (4 col., 4 double). 23<sup>cm</sup>.
- Norton, Edward.** . . . Description of Mexican ants noticed in the American naturalist, April, 1868 . . . [Salem] 1868.  
10 p. illus. 23<sup>cm</sup>.  
From Communications of the Essex institute, vol. vi.
- Patton, William Hampton.** A gall-inhabiting ant . . . [Boston] 1879.  
1 p. 22½<sup>cm</sup>.  
From the American naturalist, 1879, vol. XIII, p. 126.
- Pergande, Theodore.** Formicidæ of Lower California, Mexico . . . [San Francisco] 1894.  
[161]–165 p. 24½<sup>cm</sup>.  
From the Proceedings of the California academy of sciences, ser. 2, vol. iv, May 17, 1894.
- Pergande, Theodore.** Mexican Formicidæ . . . [San Francisco, 1895]  
[838]–896 p. 24½<sup>cm</sup>.  
Extract from Proceedings of the California academy of sciences, ser. 2, vol. v, 1895.
- Pergande, Theodore.** On a collection of Formicidæ from Lower California and Sonora, Mexico . . . [San Francisco] 1893.  
[26]–36 p. 24½<sup>cm</sup>.  
From the Proceedings of the California academy of sciences, ser. 2, vol. iv, September 19, 1893.
- Schimper, Andreas Franz Wilhelm.** Die wechselbeziehungen zwischen pflanzen und ameisen im tropischen Amerika. Von A. F. W. Schimper. Jena, G. Fischer, 1888. Agr—239  
2 p. l., 95, [1] p., 1 l. III pl. (1 fold., 2 double) 25½<sup>cm</sup>. (Botanische mittheilungen aus den tropen, hrsg. von A. F. W. Schimper, hft 1.)  
Uebersicht der benutzten literatur, p. [1]–3.
- [Treat, Mrs. Mary (Davis)]** A chapter in the history of ants. [New York, 1879]  
176–184 p. illus. 25½<sup>cm</sup>.  
From Harper's new monthly magazine, vol. LVIII, p. 176–184.
- Tryon, Henry.** . . . Harvesting ants. [Brisbane] 1900.  
[71]–79 p. 25<sup>cm</sup>.  
From the Queensland agricultural journal, vol. VII, July 1900.
- Turner, Gilbert.** Notes upon the Formicidæ of Mackay, Queensland . . . Sydney, 1897.  
129–144 p., 22<sup>cm</sup>.  
From the Proceedings of the Linnean society of New South Wales, 1897, pt. 1, May 26th.
- Ule, E.** Blumengärten der ameisen am Amazonenstrom. Jena, 1905.  
[14] p. 6 pl. 31<sup>cm</sup>. (Karsten, Georg, ed. Vegetationsbilder, hrsg. von Dr. G. Karsten . . . [und] Dr. H. Schenck. 3. reihe, hft. 1)
- Wasmann, Eric.** Ameisenfang von *Theridium triste* Hahn . . . [Leipzig] 1898.  
230–232 p. 23<sup>cm</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger," v. 21, no. 555, 1898.  
Bibliography; p. 232.

**Wasmann, Eric.** Bemerkungen über einige ameisen von Madagascar . . . [Leipzig] 1897.

[249]—250 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," v. 20, no. 536, 1897.

**Wasmann, Eric.** Formica exsecta Nyl. und ihre nestgenossen . . . [Bonn, 1894]

[10]—22 p. 21<sup>cm</sup>.

From Verhandlungen des Naturhistorischen vereins der preussischen Rheinlande, Westfalens und des reg.-bezirks Osnabrück. v. 51.

**Wasmann, Eric.** . . . К познавању Босанских мрва и мрваљуба (мирмекофила) Написао Е. Васман (Wasmann), S. J. . . . Сарајево, Земалска штампа-рија, 1898.

7 p. illus. 27<sup>cm</sup>.

Contribution to the knowledge of Bosnian ants and myrmecophilous insects.

Сепаратни отисак из „Гласника земаљског музеја у Босни и Херцеговини," "x. 1898. 2. и 3. (стр. 219.—226.)

**Wasmann, Eric.** Lasius fuliginosus als raubameise . . . [Leipzig] 1899.

[85]—87 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," bd. xxii, no. 580 vom 20. febr. 1899.

**Wasmann, Eric.** Eine neue reflextheorie des ameisenlebens . . . Leipzig, 1898.

[577]—588 p. 23<sup>cm</sup>.

Sonderabdruck aus dem "Biologischen centralblatt," bd. xviii, no. 15, ausgegeben am 1. August, 1898.

**Wasmann, Eric.** Die psychischen fähigkeiten der ameisen. Von E. Wasmann, S. J. . . (Zugleich 95. beitrage zur kenntniss der myrmecophilen und termitophilen) Stuttgart, E. Nägele, 1899.

Ag. 3—371

vi, 132 p., 1 l. iii pl. 81 $\frac{1}{2}$ <sup>cm</sup>. (Zoologica. Original-abhandlungen aus dem gesamtgebiete der zoologie. Hrsg. von Dr. Carl Chun in Leipzig. hft. 26)

"Literatur-verzeichniss": p. [130]—132.

**Wasmann, Eric.** . . . Über ergatoide weibchen und pseudogynen bei ameisen. [Leipzig] 1897.

[251]—253 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," v. 21, no. 536, 1897.

**Wasmann, Eric.** . . . Zur kenntniss der bosnischen myrmecophilen und ameisen . . . Wien, 1899.

1 p. l., 6 p. illus. 28<sup>cm</sup>.

Separat-abdruck aus Wissenschaftliche mittheilungen aus Bosnien und der Hercegovina, vi. bd., 1899.

**Wheeler, William Morton.** Formica fusca Linn. subsp. subpolita Mayr, var. perpilosa, n. var. . . . [Mexico, 1902]

[141]—142 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

From Memorias de la Sociedad científica "Antonio Alzate," vol. xvii, 1902.

#### MYRMECOPHILOUS INSECTS.

**Janet, Charles.** . . . Rapports des animaux myrmécophiles avec les fourmis. Limoges, V<sup>e</sup> H. Ducourtieux, 1897.

4—35554

99 p. 24<sup>cm</sup>. (His Études sur les fourmis, les guêpes et les abeilles, note 14.)

"Auteurs cités": p. [85]—91.

**Wasmann, Eric.** Die ameisen- und termitengäste von Brasilien, von E. Wasmann . . . I. theil. Mit einem anhang von Dr. August Forel . . . Wien, 1895.

45 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1895> besonders abgedruckt.

**Wasmann, Eric.** Kritisches verzeichniss der myrmekophilen und termitophilen arthropoden. Mit angabe der lebensweise und mit beschreibung neuer arten. Von E. Wasmann, S. J. Berlin, F. L. Dames, 1894.

xiii, [1] p., 1 l., 231 p. 24<sup>cm</sup>.

Literaturverzeichnis: p. [1]-56, [224]-225.

**Wasmann, Eric.** . . . Os hospedes das formigas e dos termites ("cupim") no Brazil . . . [Para, Brazil, 1896]

pt. 1. 2 pl. 23<sup>4</sup><sup>cm</sup>.

From Boletim do Museo paraense de historia natural e ethnographia. vol. I, no. 3, p. 273-324.

**Wasmann, Eric.** Zur kenntnis der myrmekophilen und termitophilen arthropoden . . . [Leipzig] 1895.

4 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 471. 1895.

#### MUTILLIDÆ.

**Burmeister, Hermann Carl Conrad.** Uebersicht der brasilianischen mutillen, von Prof. Dr. H. Burmeister. Halle, H. W. Schmidt, 1854.

12 p. 30 x 23<sup>4</sup><sup>cm</sup>.

**Cameron, Peter.** . . . Description of two new species of Mutilla from South Africa . . . Manchester, 1898.

3 p. 21<sup>4</sup><sup>cm</sup>.

From "Memoirs and proceedings of the Manchester literary and philosophical society," session 1897-8, v. 2, pt. 1.

**Moravits, August.** Über eine neue, oder vielmehr verkannte form von männchen unter den mutillen, nebst einer übersicht der in Europa beobachteten arten . . . [St.-Petersbourg, 1865]

[671]-756 p. 24<sup>4</sup><sup>cm</sup>.

From Bulletin de l'Académie impériale des sciences de St.-Petersbourg, vol. VIII, 1865, p. 82-141

#### FOSSORES.

**Cameron, Peter.** . . . Description of a new genus and some new species of fossorial Hymenoptera from the oriental zoological region . . . London, 1899.

52-69 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol IV, July 1899.

**Cockerell, Theodore Dru Alison.** New fossorial Hymenoptera from New Mexico. By T. D. A. Cockerell and Wm. J. Fox. [Philadelphia] 1897.

135-141 p. 22<sup>4</sup><sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1897.

**Ferton, Charles.** Nouveaux hyménoptères fouisseurs et observations sur l'instinct de quelques espèces . . . Bordeaux, 1896.

14 p. illus. 24<sup>4</sup><sup>cm</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. XLVIII.

**Shuckard, William Edward.** Essay on the indigenous fossorial Hymenoptera; comprising a description of all the British species of burrowing sand wasps contained in the metropolitan collections; with their habits as far as they have been observed. By W. E. Shuckard . . . London, Pub. by the author [etc.] 1837.

xii, 259, [12] p. 4 pl., fold. tab. 22<sup>4</sup><sup>cm</sup>.

#### SCOLIIDÆ.

**Froggatt, Walter Wilson.** A natural enemy of the sugar cane beetle in Queensland . . . Sydney, 1902.

63-68 p. pl. 25<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. XIII, 1902.

- Tryon, Henry.** . . . A parasite of sugar-cane beetle grubs (*Dielis formosus*, Guérin) . . . [Brisbane], 1902.  
133-140 p. pl. 25<sup>cm</sup>.  
From the Queensland agricultural journal, vol. x, Feb. 1, 1902

## POMPILIDÆ.

- Ferton, Charles.** Notes pour servir à l'histoire de l'instinct des pompilidés . . . Bordeaux, 1891.  
14 p. 24 $\frac{1}{2}$ <sup>cm</sup>.  
Extrait des Actes de la Société linnéenne de Bordeaux, XLIV. vol.
- Ferton, Charles.** Nouvelles observations sur l'instinct des pompilides (hyménoptères) . . . Bordeaux, 1897.  
34 p. 24 $\frac{1}{2}$ <sup>cm</sup>.  
Extrait des Actes de la Société linnéenne de Bordeaux, t. LII.

## SPHECIDÆ.

- Ferton, Charles.** Sur les mœurs du *Dolichurus hæmorrhous* Costa (hyménoptère) . . . [Bordeaux 1895]  
7 p. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.  
Extrait des Actes de la Société linnéenne de Bordeaux, t. XLVII.
- Handlirsch, Anton.** Monographie der mit Nysson und Bembex verwandten grabwespen. Von Anton Handlirsch . . . [Wien, 1887-93]  
7 pts. 23 pl. 24 $\frac{1}{2}$ <sup>cm</sup>.  
Aus dem Sitzungsberichte d. Kais. Akademie d. wissenschaften in Wien. Mathem.-naturw. classe. bd. 95-99, 101-102.  
"Literaturverzeichniss": [pt. 1], p. 4-19.
- Kohl, Franz Friedrich.** . . . Die gattungen der sphegiden . . . Wien, 1896.  
cover-title, [233]-516 p. v-xi pl. 28<sup>cm</sup>.  
Annalen des K. K. Naturhistorischen hofmuseums. (Separatabdruck aus bd. XI, hft. 3-4)
- Morice, Francis David.** . . . Descriptions of new or doubtful species of the genus *Ammophila* (Kirby) from Algeria . . . London, 1900.  
[64]-70 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. v, January 1900.

## BEMBECIDÆ.

- Bouvier, Eugène Louis.** . . . Les habitudes des Bembex (monographie biologique) . . . Paris, 1901.  
68 p., 11. illus. 23<sup>cm</sup>.  
Extrait de l'Année psychologique 1900.  
Index bibliographique: p. 67-68.

## CRABRONIDÆ.

- Dominique, J.** Description d'un *Harpactes* nouveau . . . [Nantes, 1901]  
[513]-514 p. col. pl. 25 $\frac{1}{2}$ <sup>cm</sup>.  
From Bulletin de la Société des sciences naturelles de l'ouest de la France, sér. 2., t. I, fasc. III-IV, 31 décembre 1901.
- Ferton, Charles.** Un hyménoptère ravisseur de fourmis . . . Bordeaux, 1890.  
6 p. 24 $\frac{1}{2}$ <sup>cm</sup>.  
Extrait des Actes de la Société linnéenne de Bordeaux, t. XLIV, 1890.
- Kohl, Franz Friedrich.** Zoyphium, eine neue hymenopterengattung . . . [Wien] 1893.  
569-572 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.  
From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. XLIII, pt. 4.
- Kohl, Franz Friedrich.** Zu den hymenopteren-gattungen *Pseudonysson* Radoszk. und *Pseudoscolia* Radoszk. . . . [Wien] 1893.  
545-547 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.  
From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. XLIII, pt. 4.  
p. 545-547.

## MASARIDÆ.

**Brèthes, Juan.** Trimeria Buyssoni, un nuevo masárido argentino . . .  
[Buenos Aires, 1903]  
[371]-374 p. illus. 23<sup>cm</sup>.  
From *Anales del Museo nacional de Buenos Aires*, ser. III, vol. II.

**Saussure, Henri de.** Études sur la famille des vespides; 3<sup>me</sup> partie comprenant la monographie des masariens et un supplément à la monographie des euméniens; par Henri de Saussure . . . Paris, V. Masson [etc., etc.] 1854-56.

11, [1], 252 p., 16 l. xvi pl. (15 col.) 24<sup>1/2</sup><sup>cm</sup>.

"Monographie des fausses guêpes, ou de la tribu des masariens": p. 1-98.

"Supplément à la monographie des guêpes solitaires ou de la tribu des euméniens": p. [99]-352.

Added t.-p. for each part.

## VESPIDÆ.

**Brèthes, Juan.** Contribución al estudio de los véspidos sudamericanos y especialmente argentinos. Buenos Aires, 1903.

[15]-39 p. illus. 24<sup>1/2</sup><sup>cm</sup>.

From *Anales de Museo nacional de Buenos Aires*, ser. III, tomo II, March, 1903.

**Dusmet y Alonso, José María.** Véspidos, euménidos y masáridos de España . . .  
[Madrid, 1903]

[119]-225 p. 25<sup>cm</sup>.

From *Memorias de la Sociedad española de historia natural*, tomo II, memorias 3<sup>a</sup> y 4<sup>a</sup>

**Enteman, Wilhelmine Marie.** Coloration in Polistes. By Wilhelmine M. Enteman. Washington, The Carnegie institution, 1904. 5-4160

88 p. illus., vi col. pl. (partly fold.) 25<sup>1/2</sup><sup>cm</sup>. (*On verso of t.-p.*: Carnegie institution of Washington. Publication no. 19)

Bibliography: p. 87-88.

**Janet, Charles.** Observations sur les frelons . . . Paris, 1895.

4 p. 28<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 6)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 120, p. 940-943.

**Janet, Charles.** . . . Observations sur les guêpes. Paris, C. Naud, 1903.

85 p. illus., diagrs. 24<sup>cm</sup>.

Agr 3-1183

"Liste des ouvrages cités": p. 83.

**Janet, Charles.** Sur la Vespa crabro L.; ponte, conservation de la chaleur dans le nid . . . Paris, 1895.

3 p. illus. 28<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 5)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 120, p. 384-387.

**Janet, Charles.** . . . Sur les nids de la Vespa crabro, ordre<sup>d</sup>'apparition des premiers alvéoles . . . Paris, 1894.

4 p. illus. 28<sup>cm</sup>. (*His* [Notes sur les fourmis et les guêpes] 4)

Extrait des Comptes rendus hebdomadaires des séances de l'Académie des sciences, t. 119, p. 1282-1285.

**Marchal, Paul.** Étude sur la reproduction des guêpes . . . [Paris, 1895]

4 p. 27<sup>1/2</sup><sup>cm</sup>.

From *Comptes rendus de l'Académie des sciences de Paris*, v. 121, p. 781-784, 1895.

**Ormerod, Edward Latham.** British social wasps: an introduction to their anatomy and physiology, architecture, and general natural history, with illustrations of the different species and their nests. By Edward Latham Ormerod . . . London, Longmans, Green, Reader, and Dyer, 1868.

1 p. l., xi, 270 p., 13 l. illus., 14 pl. (incl. front.) 20<sup>cm</sup>.

**Peckham, George Williams.** Some observations on the special senses of wasps. By G. W. and E. G. Peckham. [Milwaukee] 1887.

91-132 p. 23<sup>1/2</sup><sup>cm</sup>.

From the *Proceedings of the Natural history society of Wisconsin*, April, 1887.

**Peckham, George Williams.** Wasps, social and solitary, by George W. Peckham and Elizabeth G. Peckham, with an introduction by John Burroughs; illustrations by James H. Emerton . Boston and New York, Houghton, Mifflin and company, 1905. 5-10451

xiv, [1], 310, [2] p. incl. illus., plates. front. 19½<sup>em</sup>.

"A part of the matter presented in this volume was published several years ago by the Wisconsin biological survey, under the title 'Instincts and habits of the solitary wasps.'"—Note.

**Saussure, Henri de.** Hymenoptera. Vespidae . . . [Frankfurt a. M., 1900]. 1 p. l., [203]-240 p. illus. 30x23¼<sup>em</sup>.  
"Sonderabdruck aus den Abhandlungen der Senckenbergischen naturforschenden gesellschaft, bd. xxvi, hft. II. (Voeltzkow, Wissenschaftliche ergebnisse der reisen in Madagaskar und Ost-Afrika i. d. jahren 1889-1895, bd. II)"

**Saussure, Henri de.** Monographie des guêpes sociales, ou de la tribu des vespides, ouvrage faisant suite à la monographie des guêpes solitaires, par Henri de Saussure . . . Paris, V. Masson; [etc., etc.] 1853-58.

2 p. l., 4, excix, [1], 256 p. 24¼<sup>em</sup>. and atlas (xxxvii pl., partly col.) (Études sur la famille des vespides. 2)

"Bibliographie des vespides. Liste des auteurs cités et des ouvrages que l'on peut consulter pour compléter l'histoire des insectes de cette tribu": p. [clxxxv]-cxv.

**Shufeldt, Robert Wilson.** Some facts about wasps and bees. *See under Anthophila*, p. 178.

**Stone, John Morris.** Abstract of a paper read on January 24th, 1883 . . . (Being a continuation of a paper read before the Society, April 26th, 1882), on wasps . . . [Greenwich, 1884?]

54-58 p. 21<sup>em</sup>.

From West Kent natural history, microscopical and photographic society. President's address, papers and report of the council of auditors, 1883-84.

**Stone, John Morris.** Abstract of a paper . . . on The habits and economy of wasps . . . on April 26th, 1882. [Greenwich, 1883]

21-27 p. 21<sup>em</sup>.

From West Kent natural history, microscopical and photographic society. President's address, papers and report of the council of auditors, 1883-84.

**Wasmann, Eric.** Beutethiere von *Polybia scutellaris* (White) Sauss. . . . [Leipzig] 1897.

[276]-279 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," v. 20, no. 538, 1897.

#### EUMENIDÆ.

**Aurivillius, Per Olof Christopher.** . . . Bidrag till kannedomen om våra solitära getingars lefnadssätt . . . Stockholm, 1886-1888.

2 pts. illus. 21¼<sup>em</sup>.

Pt. 1 is Bihang till Kongliga svenska vet. akad. Handlingar. bd. 12, afd. iv., no. 5; pt. 2 is from Öfersigt af. Kongl. Vetenskaps-akademiens Forhandlingar, 1888. no. 10.

**Berg, Carlos.** . . . Apuntes sobre dos especies del género *Odynerus* de la Tierra del Fuego . . . [Buenos Aires] 1900.

[237]-240 p. 24<sup>em</sup>.

From Comunicaciones del Museo nacional de Buenos Aires, t. 1, no. 7, p. 237-240.

**Brèthes, Juan.** Los euménidos de las repúblicas del Plata . . . [Buenos Aires, 1903]

231-320 p. illus. 24<sup>em</sup>.

From Anales del Museo nacional de Buenos Aires, ser. 3, vol. II, September, 1903.

**Ferton, Charles.** Observations sur l'instinct de quelques hyménoptères du genre *Odynerus* Latreille . . . Bordeaux, 1896.

14 p. 24¼<sup>em</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. XLVIII.



**Peckham, George Williams.** . . . On the instincts and habits of the solitary wasps; by George W. Peckham and Elizabeth G. Peckham. Madison, Wis., Pub. by the state, 1898.

iv p., 2 l., 245 p., 7 l. xiv pl. (partly col.) 24<sup>cm</sup>. (Wisconsin geological and natural history survey. E. A. Birge, director. Bulletin no. 2. Scientific series no. 1)

**Saussure, Henri de.** Étude sur la famille des vespides. 3. ptie. comprenant . . . un supplément à la monographie des euméniens. *See under* Masaridæ, p. 175.

**Saussure, Henri de.** Monographie des guêpes solitaires, ou de la tribu des euméniens, comprenant la classification et la description de toutes les espèces connues jusqu'à ce jour, et servant de complément au manuel de Lepeletier de Saint-Fargeau; par Henri de Saussure . . . Genève, J. Cherbuliez; [etc., etc.] 1852.

3 p. l., 5, [1], 1 p., 1 l., 286 p., 21 l. xxii pl. (partly col.) 24<sup>cm</sup>. (Études sur la famille des vespides. 1) "Bibliographie de la tribu des euméniens." p. [266]-271.

**Saussure, Henri de.** . . . Synopsis of American wasps. By Dr. Henri de Saussure . . . Solitary wasps. Washington, Smithsonian institution, 1875. Agr 3—811 xxxv, 392 p. iv col. pl. 24<sup>cm</sup>. (Smithsonian miscellaneous collections. 254 [v. 14])

**Shuckard, William Edward.** Description of a new British wasp; with an account of its development . . . [London, 1837]

7 p. 23<sup>cm</sup>.

From Loudon's magazine of natural history, vol. 1, new series, p. 490-496.

#### ANTHOPHILA.

**Aurivillius, Per Olof Christopher.** Ueber zwischenformen zwischen socialen und solitären bienen, von Chr. Aurivillius . . . Upsala, Almqvist & Wiksells boktryckeri-aktiebolag, 1896.

cover-title, 1 p. l., [69]-77 p. 31<sup>cm</sup>.

From "Zoologiska studier; festskrift Wilhelm Lilljeborg."

**Cockerell, Theodore Dru Alison.** . . . Catálogo de las abejas de México, por T. D. A. Cockerell . . . México, Ofic. tip. de la Secretaría de fomento, 1899.

20 p. 22<sup>cm</sup>. (Biblioteca agrícola de la Secretaría de fomento)

**Cockerell, Theodore Dru Alison.** New and little-known North American bees . . . [Philadelphia] 1897.

384-385 p. 24<sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, September, 1897.

**Cockerell, Theodore Dru Alison.** . . . Observations on bees collected at Las Vegas, New Mexico, and in the adjacent mountains . . . [London] 1900-01.

2 pts. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. v, May 1900, p. 401-416; ser. 7, vol. vii, January 1901, p. 125-131.

Pt. II is Contributions from the New Mexico biological station, x.

**Cockerell, Theodore Dru Alison.** Observations on bees, with descriptions of new genera and species. By T. D. A. Cockerell and Wilmatte Porter. [London] 1893.

[403]-421 p. 22<sup>cm</sup>. (Contributions from the New Mexico biological station, vii.)

From the Annals and magazine of natural history, ser. 7, vol. iv, December, 1899.

**Kenyon, Frederick Courtland.** The optic lobes of the bee's brain in the light of recent neurological methods . . . Boston, 1897.

[369]-376 p. pl. 25<sup>cm</sup>.

From the American naturalist, vol. xxxi, May, 1897.

**Kirby, William.** Monographia apum angliæ; or, An attempt to divide into their natural genera and families, such species of the Linnean genus *Apis* as have been discovered in England; with descriptions and observations. To which are prefixed some introductory remarks upon the class Hymenoptera, and a synoptical table of the external parts of these insects . . . By William Kirby . . . Ipswich, Printed for the author by J. Raw, 1802.

Agr 4—289

2 v. in 1. 18 pl. (4 col.) 22<sup>cm</sup>.

**Müller, Herrmann.** Anwendung der Darwinschen lehre auf bienen . . . [Bonn, 1872]

96 p. II p. 22<sup>cm</sup>.

From Verhandlungen des Naturhistorischen vereines der preussischen Rheinlande und Westphalens. jahrg. xxxix. 3 folge. ix bd.

**Ratzeburg, Julius Theodor Christian.** Untersuchung des geschlechts-zustandes bei den sogenannten neutris der bienen und über die verwandtschaft derselben mit den königinnen, von Dr. J. T. C. Ratzeburg . . . (Bei der Akademie eingegangen den 1. April 1833) [Halle, 1833]

1 p. l. [613]—658 p. pl. 26 $\frac{1}{2}$ <sup>cm</sup>.

**Robertson, Charles.** . . . New or little known North American bees . . . [St. Louis] 1898.

43—54 p. 25<sup>cm</sup>.

From Transactions of the Academy of science of St. Louis, vol. VIII, no. 3.

**Robertson, Charles.** . . . North American bees—descriptions and synonyms . . . [St. Louis] 1897.

315—356 p. 25<sup>cm</sup>.

From Transactions of the Academy of science of St. Louis, vol. VII, no. 14.

**Robertson, Charles.** . . . Some Illinois bees . . . [St. Louis] 1900.

47—55 p. 25<sup>cm</sup>.

From Transactions of the Academy of science of St. Louis, vol. X, no. 2.

**Schrottky, Curt.** . Ensaio sobre as abelhas solitarias do Brazil . . . [São Paulo, 1901]

[330]—613 p. XII—XIV pl. (2 col.) 24<sup>cm</sup>.

From Rivista do Museu Paulista, vol. V, 1901.

**Schrottky, Curt.** Les espèces des genres Megacilissa, Caupolicana, Oxaea, Epicharis, Centris, Meliphila et Euglossa dans la collection du Musée national de Buenos Ayres . . . Buenos Aires, 1902.

[317]—327 p. 27<sup>cm</sup>.

From Anales del Museo nacional de Buenos Aires, t. VII, p. 317 à 327.

**Shufeldt, Robert Wilson.** Some facts about wasps and bees [New York, 1897]

315—324 p. illus. 24<sup>cm</sup>.

From Appleton's Popular science monthly, vol. LI, July, 1897.

**Smith, Frederick.** Catalogue of the British bees in the collection of the British museum. By Frederick Smith . . . London, Printed by order of the trustees, 1876.

Agr 3—364

xi, 236 p. x [i. e. 11] pl. 23<sup>cm</sup>. (Catalogue of British Hymenoptera in the British museum. 2d ed. Part I.—Andrenidæ and Apidæ)

— — — New issue. London, Printed by order of the trustees, 1891.

Agr 3—813

xi, 236 p. 10 [i. e. 11] pl. 23<sup>cm</sup>. (Catalogue of British Hymenoptera in the British museum. 2d ed. Part I.—Andrenidæ and Apidæ)

#### ANDRENIDÆ.

**Cameron, Peter.** . . . Description of a new species of Halictus (Andrenidæ) from Christchurch, New Zealand . . . [Wellington, 1899]

[17]—19 p. 22<sup>cm</sup>.

From the Transactions of the New Zealand institute, vol. XXXII.

**Cockerell, Theodore Dru Alison.** . . . The bees of the genus Colletes found in New Mexico . . . [London] 1897.

[39]—52 p. 22<sup>cm</sup>. (Contributions from the New Mexico biological station. III)

From the Annals and magazine of natural history, ser. 6, vol. XIX., January 1897.

**Cockerell, Theodore Dru Alison.** . . . Four new bees of the genus Perdita collected by L. O. Howard in Mexico . . . [London] 1899.

[492]—495 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. III., June 1899.

**Cockerell, Theodore Dru Alison.** North-American bees of the genus *Andrena* . . . [London] 1902.

[101]-106 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. ix, February 1902.

**Marchal, Paul.** . . . Formation d'une espèce par le parasitisme. Étude sur le "Sphecodes gibbus." Paris, 1890.

199-204 p. 28<sup>em</sup>.

From Revue scientifique, tome XLV, (sér 3. tome XIX) 1890.

**Vachal, Joseph.** Étude sur les *Halictus* d'Amérique (Hym.) par J. Vachal. [Narbonne] 1903.

pt. III-IV. (p. [89]-136) 25½<sup>em</sup>.

Issued as a separate with *Miscellanea entomologica*.

**Verhoeff, Carl Wilhelm.** Zur lebensgeschichte der gattung *Halictus* (*Anthophila*), insbesondere einer übergangsform zu socialen bienen . . . [Leipzig] 1897.

[369]-393 p. illus. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" v. 20, no. 542, 1897.

#### MEGACHILIDÆ.

**Cockerell, Theodore Dru Alison.** . . . The New Mexico bees of the genus *Megachile* and a new *Andrena* . . . [London] 1900.

[7]-20 p. 23<sup>em</sup>.

From the Annals and magazine of natural history, ser 7, vol. vi, July, 1900.

**Ferton, Charles.** Nouvelles observations sur l'instinct des hyménoptères gastri-légides de la Provence . . . Bordeaux, 1896.

11 p. 24½<sup>em</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. XLVIII.

**Ferton, Charles.** Nouvelles observations sur l'instinct des hyménoptères gastri-légides de France et de Corse . . . Bordeaux, 1897.

13 p., 1 l. pl. 24<sup>em</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. LII.

**Ferton, Charles.** Recherches sur les mœurs de quelques espèces algériennes d'hyménoptères du genre *Osmia*. Bordeaux, 1891.

11 p. 24<sup>em</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. XLIV.

**Ferton, Charles.** Seconde note sur les mœurs de quelques hyménoptères du genre *Osmia* Panzer, principalement de la Provence . . . [Bordeaux, 1895]

12 p. 25<sup>em</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. XLVII.

**Ferton, Charles.** Sur les mœurs de quelques hyménoptères de la Provence du genre "*Osmia*" Panzer . . . Bordeaux, 1893.

12 p. 24<sup>em</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. XLV.

#### BOMBIDÆ.

**Cockerell, Theodore Dru Alison.** . . . The New Mexico bees of the genus *Bombus*. By T. D. A. Cockerell and Wilmatte Porter . . . [London] 1899.

[386]-393 p. 22<sup>em</sup>. (Contributions from the New Mexico biological station. VIII)

From the Annals and magazine of natural history, ser. 7, vol. iv, November, 1899.

**Radoshkovskii, Octavii Ivanovich.** Essai d'une nouvelle méthode pour faciliter la détermination des espèces appartenant au genre *Bombus* . . . [Moscow, 1877]

[169]-219, [76]-95 p. IIa.-IIb. pl. 23<sup>em</sup>.

From Bulletin de la Société impériale des naturalistes de Moscou. vol. 52, no. 4, 1877, p. 169-219; vol. 53, no. 1, 1878, p. 76-95.

## APIDÆ.

**Aurivillius, Per Olof Christopher.** . . . Steklar. Hymenoptera. 1. Gaddsteklar. Aculeata. Första familjen. Bin. Apidæ . . . Stockholm, 1903.  
1 p. l., 90 p. illus. 22<sup>cm</sup>. (Svensk insektfauna utgifven af Entomologiska föreningen i Stockholm. 13)

**Brèthes, Juan.** Un nuevo Anthidium de Patagonia . . . [Buenos Aires, 1903]  
[351]-356 p. illus. 23<sup>cm</sup>.

From *Anales del Museo nacional de Buenos Aires*, ser. III, vol. II, October, 1903.

**Cockerell, Theodore Dru Alison.** . . . The New Mexico bees of the genus *Heriades*, and a new *Halictus* . . . [London] 1897.

[135]-143 p. 22<sup>cm</sup>. (Contributions from the New Mexico biological station. VI)

From the *Annals and magazine of natural history*, ser. 6, vol. XX, August, 1897.

**Cockerell, Theodore Dru Alison.** . . . On certain genera of bees . . . [London] 1901.

[46]-50 p. 22<sup>cm</sup>. (Contributions from the New Mexico biological station. IX)

From the *Annals and magazine of natural history*, ser. 7, vol. VII, January, 1901.

**Cowan, Thomas William.** The honey bee: its natural history, anatomy, and physiology. By T. W. Cowan . . London, Houlston & sons [1890] Agr 5-511  
xi, 220 p. incl. front., illus. 17<sup>cm</sup>.

"List of the principal memoirs, etc., consulted or referred to in the present work": p. 200-208.

— — — 2d ed. London, Houlston & sons [1904]

Agr 4-990

xii, 220 p. incl. front., illus. 17<sup>cm</sup>.

"List of the principal memoirs, etc., consulted or referred to in the present work": p. 200-208.

**Dawson, Charles.** The hexagonal structure naturally formed in cooling beeswax, and its influence on the formation of the cells of bees. By Charles Dawson and S. A. Woodhead . . . London, 1900.

[121]-126 p. illus. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. V, January 1900.

**Du Buysson, Robert, vicomte.** Catalogue des hyménoptères melliférides des collections du Muséum . . . [Paris] 1901.

8 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1901, vol. 7, p. 207-214.

**Ducke, Adolf.** . . . As especies Paraenses do genero *Euglossa* Latr. . . . [Pará, 1902]

561-579 p. pl. 24<sup>cm</sup>.

From *Boletim do Museo Paraense*, 1902, vol. III, no. 3-4.

"Litteratura sobre o genero *Euglossa*": p. 562.

**Ducke, Adolf.** Die stachellosen bienen (*Melipona* Ill.) von Pará . . . Jena, 1902.

[285]-328 p. illus., pl. 23<sup>cm</sup>.

Abdruck aus den Zoologischen Jahrbüchern. Abtheilung für systematik, geographie und biologie der thiere . . . 17. bd., hft. 2, 1902.

**[Dunbar, Rev. William]** . . . Entomology. Bees. Comprehending the uses and economical management of the honey-bee of Britain and other countries, together with descriptions of the known wild species. Edinburgh, W. H. Lizars; [etc., etc.] 1859.

Agr 3-59

4 p. l., [17]-801 p. front. (port.) illus., 30 pl. (partly col.) 17<sup>cm</sup>. (The naturalist's library. Ed. by Sir William Jardine . . . [Reprint] Vol. XXXIV)

Engr. half t.-p.

Reprint of his [The natural history of bees. 1839?]

"Memoir of Huber": p. [17]-25.

**[Dunbar, Rev. William]** [The natural history of bees] [Edinburgh, W. H. Lizars, 1839?]

Agr 3-60

[17]-801 p. front. (port.) illus., 30 pl. (partly col.) 18<sup>cm</sup>. (The naturalist's library. Entomology, Vol. VI)

Engr. half t.-p.

Title-page and contents are wanting.

"Memoir of Huber": p. [17]-25.

- Friese, Heinrich.** Beiträge zur biologie der solitären blumenwespen (Apidæ) . . . Jena [1891]  
[761]-860 p. 1 fold. pl. 23 $\frac{1}{2}$ <sup>cm</sup>.  
Separatabdruck aus den Zoologischen jahrbüchern. Abtheilung für systematik, geographie und biologie der thiere. 5. bd.  
"Literatur": p. 753-757.
- Friese, Heinrich.** Die bienen Europa's (Apidae europaeae) nach ihren gattungen, arten und varietäten auf vergleichend morphologisch-biologischer grundlage bearb. von Heinrich Friese . . . Berlin, R. Friedländer & sohn, 1895-1901.  
pt. 1-6. illus. 24<sup>cm</sup>.  
"Literatur": th. 2, p. [10]-11.  
Imprint of th. iv-vi, Innsbruck, C. Lampe.  
CONTENTS.—th. I. Schmarotzerbienen.—th. II. Solitäre apiden. Eucera.—th. III. Solitäre apiden. Podalirius. 1897.—th. IV. Solitäre apiden. Eriades, Trachusa, Anthidium. 1898.—th. V. Solitäre apiden. Lithurgus, Megachile (Chalicodoma) 1899.—th. VI. Solitäre apiden: subfam. Panurginae, Melittinae, Xylocopinae. 1901.  
A continuation of Schmiedeknecht, H. L. Otto. Apidae Europaeae. 1882-86.
- Kozhevnikov, Grigorii Aleksandrovich.** . . . Материалы по естественной истории пчелы. (Apis mellifera L.) Григория Кожевникова Выпускъ 1[-2] Москва, Университетская типографія, 1900-05.  
pt. 1-2. 10 pl. (partly col.) 34 $\frac{1}{2}$ <sup>cm</sup>. (Извѣстія Императорскаго общества любителей естествознанія, антропологии и этнографіи, т. хсѣх, вып. [1?]-2-и. Труды Зоологическаго отдѣленія, т. хѣв)  
Contributions to the natural history of the bee.  
Pt. 2 has sub-title: О полиморфизмѣ у пчелы и у другихъ насѣкомыхъ.  
Bibliography: pt. 1, p. [131]-139, [143]-144; pt. 2, p. [169]-176.
- Patton, William Hampton.** . . . Generic arrangement of the bees allied to Mellissodes and Anthophora. Washington, 1879.  
471-479 p. 23<sup>cm</sup>.  
Author's edition extracted from the Bulletin of the United States geological and geographical survey, vol. v, no. 3.
- Schmiedeknecht, H. L. Otto.** Apidae Europaeae (die bienen Europa's) per genera, species et varietates dispositae atque descriptae a Dr. H. L. Otto Schmiedeknecht . . . Gumperdae et Berolini, 1882-[86]  
2 v. in 1. 17 pl. 23 $\frac{1}{2}$ <sup>cm</sup>.  
Paged continuously: 1 p. 1., 6, 1071, [2] p.  
Title-page of v. 2, lacking.  
Each family has separate as well as continuous paging.  
For continuation of above work see Friese, Heinrich. Die bienen Europas. 1895-1901.  
CONTENTS.—Tomus I. Nomada, Bombus, Psithyrus et Andrena.—Tomus II. Osmia.
- Silvestri Filippo.** Contribuzione alla conoscenza dei Meliponidi del bacino del Rio de la Plata. Portici, Premiato stab. tip. vesuviano, 1902.  
121-170 p., 1 l., [2] p. illus., 2 fold pl. 24<sup>cm</sup>.  
From Rivista di patologia vegetale, vol. x.
- Smith, Frederick.** Catalogue of British Hymenoptera in the collection of the British museum. By Frederick Smith . . . London, Printed by order of the trustees, 1855.  
pt. 1. x pl. 18 $\frac{1}{2}$ <sup>cm</sup>.  
CONTENTS.—part I. Apidae—bees. 1855.
- Vachal, Joseph.** Hyménoptères rapportés du Japon par M. Harmand. Melli-fères . . . Paris, 1903.  
4 p. 24<sup>cm</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle [Paris] 1903, no. 3, vol. 9, p. 129-132.

## COLEOPTERA.

## BIBLIOGRAPHY.

**Beutenmüller, William.** Bibliographical catalogue of the described transformations of North American Coleoptera . . . [New York] 1891.

52 p. 24 $\frac{1}{2}$ <sup>em</sup>.

From the Journal of the New York microscopical society, vol. VII, no. 1, January, 1891.

**Rupertsberger, Mathias.** Biologie der käfer Europas. Eine uebersicht der biologischen literatur gegeben in einem alphabetischen personen- und systematischen sach-register, nebst einem larven-cataloge, von Mathias Rupertsberger . . . Linz a. d. Donau, Selbstverlag des verfassers, 1880.

xii, 295 p. 21 $\frac{1}{2}$ <sup>em</sup>.

— Die biologische literatur über die käfer Europas von 1880 an. Mit nachträgen aus früherer zeit und einem larven-cataloge. Von Mathias Rupertsberger . . . Linz a. d. Donau und Niederrana, Selbstverlag, 1894.

viii, 308 p. 21<sup>em</sup>.

## GENERAL.

**Aurivillius Per Olof Christopher.** . . Neue oder wenig bekannte Coleoptera Longicornia . . . Stockholm, 1903.

[313]—323 p. 21 $\frac{1}{2}$ <sup>em</sup>.

From Arkiv för zoologi, bd. 1.

**Beauregard, Henri.** . . Réponse à une note de M. Fried. Brauer relative à mes "Insectes vésicants" . . . [Paris] 1890.

5 p. 24 $\frac{1}{2}$ <sup>em</sup>.

Extrait des Comptes rendus des séances de la Société de biologie. Séance du 8 novembre 1890.

**Binet, L. A. Alfred.** The nervous centre of flight in Coleoptera [Chicago, 1893]

[65]—79 p. illus. 24<sup>em</sup>.

From "The monist," vol. 4, no. 1, October, 1893.

**Bowditch, Frederick C.** . . Notes on certain Coleoptera . . . [Boston] 1882.

[27]—28 p. 22<sup>em</sup>.

From the Journal of the Boston zoölogical society, vol. 1, no. 3.

**Branden, Constant van den.** Catalogue des coléoptères carnassiers aquatiques (Halipilidæ, Amphizoidæ, Pelobiidæ & Dytiscidæ) per C. van den Branden. Bruxelles, P. Weissenbruch, imprimeur du roi, 1884.

Agr 5—236

118 p. 24 $\frac{1}{2}$ <sup>em</sup>.

"Extrait des Annales de la Société entomologique de Belgique, vol. xxviii."

**Casey, Thomas Lincoln.** Coleopterological notices. [New York, 1889—92]

no. I—IV. illus., pl. 23 $\frac{1}{2}$ <sup>em</sup>.

Extracted from the Annals of the New York academy of sciences, vol. v, p. [39]—198, [307]—504; vol. VI, p. [9]—214, [359]—712.

**Chapuis, Félicien.** Catalogue des larves des coléoptères connues jusqu'à ce jour, avec la description de plusieurs espèces nouvelles, par M. F. Chapuis . . . et M. E. Candèze . . . [Liège, H. Dessain; etc., etc., 1853]

Agr 4—3507

3 p. l., [347]—658 p. 1x pl. 23 $\frac{1}{2}$ <sup>em</sup>. (Mémoires de la Société royale des sciences de Liège, tome 8, [no.] VIII)

**Conn, Herbert William.** Coleopterous larvæ and their relations to adults . . . <Abstract> [Salem, 1888]

42—45 p. 24 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. xxiv.

**Dejean, Pierre François Marie Auguste, comte.** Catalogue des coléoptères de la collection de M. le comte Dejean. Paris, Mequignon-Marvis père et fils, 1833.

2 p. l., 443 p. 20<sup>em</sup>.

**Dejean, Pierre François Marie Auguste, comte.** Catalogue des coléoptères de la collection de M. le comte Dejean . . . 3. éd., rev., cor. et augm. Paris, Méquignon-Marvis père et fils, 1837.

xiv, 508 p. 20 $\frac{1}{2}$ <sup>m</sup>.

**Dejean, Pierre François Marie Auguste, comte.** Species général des coléoptères de la collection de M. le comte Dejean . . . Paris, Mequignon-Marvis, 1825-38.

6 v. 21<sup>m</sup>.

Vol. 1-2, published by Crevot.

Vol. 6, title reads: Species général des hydrocanthares et gyriniens, par le docteur Ch. Aubé; pour faire suite au Species général des coléoptères de la collection de M. le comte Dejean.

"Liste des auteurs": vol. 6, p. [xi]-xvi.

**Dewitz, Hermann.** . . . Über rudimentäre flügel bei den coleopteren . . . [Leipzig] 1883.

4 p. 23<sup>m</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," 1883, no. 141.

**Dimmock, George.** . . . Coleoptera . . . [Boston, 1884]

297-402 p. illus., plates. 27<sup>m</sup>.

From the Standard natural history, vol. II, p. 297-402.

**Dimmock, George.** George Dimmock's Catalogue of Coleoptera & Lepidoptera . . . no. 1. Springfield, 1871.

2 p. 1., 15 p. 23<sup>m</sup>.

**Dimmock, George.** List of Coleoptera in the collection of George Dimmock . . . Springfield [Mass.] 1873.

Agr 5-219

iv, [1], 39 p. 21 $\frac{1}{2}$ <sup>m</sup>.

**Donckier de Donceel, Henri.** Liste des sagrides, criocerides, clytrides, mégalopides, cryptocéphalides et lamprosomides décrits postérieurement au catalogue de MM. Gemminger et von Harold, par H. Donckier de Donceel. [Bruxelles, 1885]

31, [1] p. 24<sup>m</sup>.

Agr 4-1776

Reprinted from Mémoires de la Société royale des sciences de Liège, sér. II, tome XI, no. 14.

**Duncan, James.** . . . Entomology. Beetles. By James Duncan . . . Edinburgh, W. H. Lizars; [etc., etc.] 1858.

Agr 3-57

2 p. 1., [17]-269 p. front. (port.) illus., 30 col. pl. 17 $\frac{1}{2}$ <sup>m</sup>. (The naturalist's library. Ed. by Sir William Jardine . . . [Reprint] Vol. xxxiii)

Engr. half t.-p.

Reprint of his The natural history of beetles. 1835.

"Memoir of Ray": p. [17]-70.

**Duncan, James.** The natural history of beetles. Illustrated by thirty-two plates, numerous wood-cuts, with memoir and portrait of Ray. By James Duncan . . . Edinburgh, W. H. Lizars; [etc., etc.] 1835.

Agr 5-58

2 p. 1., vii, [17]-269 p. front. (port.) illus., 30 col. pl. 18<sup>m</sup>. (The naturalist's library. Conducted by Sir William Jardine . . . Entomology. Vol. II)

Engr. half t.-p.

**Erichson, Wilhelm Friedrich.** Coleoptera. Bearb. von Dr. W. Erichson. [Halle, 1834]

1 p. 1., [219]-308 p. xxxvii-xxxix col. pl. 27<sup>m</sup>. (Beiträge zur zoologie, gesammelt auf einer reise um die erde, von Dr. F. J. F. Meyen . . . 6. abhandlung. Insekten. Bearb. von Herrn W. Erichson und Herrn H. Burmeister . . .)

Bei der Akademie eingegangen den 12. märz 1834.

Caption title.

From Nova acta Acad. Cæs. Leopold.-Carol. Germ. nat. cur., vol. xvi, Supplement I.

**Fabricius, Johann Christian.** Joh. Christ. Fabricii . . . Systema eleutheratorum secundum ordines, genera, species, adiectis synonymis, locis, observationibus, descriptionibus. Kiliae, impensis bibliopolii academici novi, 1801.

2 v. 22<sup>m</sup>.

**Forbes, Stephen Alfred.** Notes on insectivorous Coleoptera . . . [n. p., n. d.] [168]-160 p. 23<sup>m</sup>.

**Froggatt, Walter Wilson.** Some wood-boring beetles and their habits . . . Sydney, 1903.

414-417 p. pl. 25<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. xiv, May, 1903.

**Gazagnaire, Joseph.** Organes de la gustation chez les coléoptères . . . Meulan, 1886.

3 p. 23<sup>cm</sup>.

Extrait des Procès-verbaux de la Société zoologique de France, t. xi, séance du 11 mai 1886.

**Gemminger, Max.** Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus, autoribus Dr. Gemminger et B. de Harold . . . Monachii, sumptu E. H. Gummi; Paris, E. Deyrolle fils; 1868-76. Agr 5-153

12 v. in 7. 24<sup>cm</sup>.

Paged continuously: tom. I, xxxvi, 424, [8] p.; tom. II, 1 p. 1., 425-752, [6] p.; tom. III, 1 p. 1., 753-978, [6] p.; tom. IV, 1 p. 1., 979-1346, [8] p.; tom. V, 2 p. 1., 1347-1608, [6] p.; tom. VI, 1 p. 1., 1609-1800, [6] p.; tom. VII, 1 p. 1., 1801-2179, [11] p.; tom. VIII, 1 p. 1., 2181-2668, [12] p.; tom. IX, 1 p. 1., 2669-2988, [12] p.; tom. X, 1 p. 1., 2989-3232, [8] p.; tom. XI, 3 p. 1., 3233-3478 p.; tom. XII, 1 p. 1., 3479-3822, [2], LXXIII, [1] p.

Vol XII contains Index generum universalis.

**Germar, Ernst Friedrich.** Insectorum species novæ aut minus cognitæ, descriptionibus illustratæ, auctore E. F. Germar . . . vol. 1. Coleoptera . Halæ, impensis J. C. Hendelii et filii, 1824. Agr 4-3538

xxiv, 623 p. II pl. 20½<sup>cm</sup>. (Added title: Coleopterorum species novæ aut minus cognitæ)

**Glover, Townend.** The food and habits of beetles. (U. S. Agriculture, Commissioner of. Report for the year 1868. Washington, 1869. p. 78-117. illus.)

**Griffini, Achille.** Il libro dei coleotteri di Achille Griffini. . . Iconografia dei principali coleotteri italiani e delle più importanti specie europee affini. Preceduta da notizie generali sugli insetti e principalmente sui coleotteri nonchè da indicazioni sulla raccolta, la preparazione, la conservazione e lo studio di questi . . . Milano, U. Hoepli, 1896.

ix, [1], 244 p. illus., 50 pl. (48 col.) 26½<sup>cm</sup>.

"Pubblicazioni entomologiche dell' autore:" p. [243]-244

**Hamilton, John.** Catalogue of the Coleoptera common to North America, northern Asia and Europe, with distribution and bibliography, by John Hamilton . . . Philadelphia, P. C. Stockhausen, entomological printer, 1889.

88-162 p. 24<sup>cm</sup>.

From Transactions of the American entomological society, vol. xvi.

— — — 2d ed. [Philadelphia] 1894.

345-416 p. 24<sup>cm</sup>.

From Transactions of the American entomological society, vol. xxi.

**Hope, Frederic William.** The coleopterists' manual, containing the lamellicorn insects of Linneus and Fabricius. By the Rev. F. Hope . . . London. H. G. Bohn, 1837-40.

3 v. col. fronts., 8 pl. (5 col.) 23<sup>cm</sup>.

Vol. 3 published by J. C. Bridgewater.

Vol. 2, title reads: The coleopterist's manual, part the second containing the predacious land and water beetles of Linneus and Fabricius . . .

Vol. 3, title reads: The coleopterist's manual, part the third, containing various families, genera, and species of beetles, recorded by Linneus and Fabricius. Also, descriptions of newly discovered and unpublished insects. . . .

**Houlbert, Constant Vincent.** Rapports naturels et phylogénie des principales familles de coléoptères . . . [Paris, 1894]

62-174, [2] p. illus. 24½<sup>cm</sup>.

From Bulletin des sciences naturelles, tome iv, 1894.

**Imhoff, Ludwig.** Versuch einer einföhrung in das studium der koleopteren. Von Dr. Ludwig Imhoff . . . Basel, Schweighauser'sche buchdruckerei, 1856.

2 v. in. I. xxv pl. 24½<sup>cm</sup>.

Agr 4-3899



- Kirby, William Forsell.** The young collector's handbook of beetles. By W. F. Kirby . . . London, W. S. Sonnenschein & co. [n. d.]  
32 p., incl. front., illus. 16½<sup>cm</sup>.
- Kölreuter, Joseph Gottlieb.** Dissertatio inavgyralis medica de insectis coleopteris, nec non de plantis quibusdam rarioribus . . . Tvbingæ, literis Erhardianis, 1755. Agr 5—46  
1 p. l., 48, [2] p. fold. pl. 19½<sup>cm</sup>.
- Lacordaire, Jean Théodore.** Histoire naturelle des insectes. Genera des coléoptères, ou exposé méthodique et critique de tous les genres proposés jusqu'ici dans cet ordre d'insectes, par M. Th. Lacordaire . . . Paris, Librairie encyclopédique de Roret, 1854—76. Agr 5—167  
12 v. in 14 and atlas of 47 p., 184 col. pl. 21¼<sup>cm</sup>. [Suites à Buffon]  
Tome 10-12 by F. Chapuis.
- Le Baron, William.** Outlines of entomology published in connection with the author's annual reports upon injurious insects. Pt. first, including the order of Coleoptera. By William LeBaron . . . [Springfield, 1874] Agr 5—168  
xviii, 199 p. illus. 23<sup>cm</sup>. (Fourth [i. e. Fifth] annual report on the noxious and beneficial insects of the state of Illinois. 1874)  
"Catalogue of the principal authors who have written upon the Coleoptera, with special reference to the describers of N. American species, or of their natural history, and with the ordinary abbreviations of their names prefixed." p. [186]—190.
- Letzner, K.** Beiträge zur verwandlungs-geschichte einiger käfer. . . [Breslau, 1853]  
[205]—219 p. pl. 26<sup>cm</sup>.  
From Denkschr. d. Schles. gesellsch. f. vaterl. kultur. 1853.
- Löw, Franz.** Ueber einige in südrüchten gefundene käfer und das erscheinen eines schneeflohes in Kärnthen . . . [Wien, 1858]  
[561]—566 p. 22<sup>cm</sup>.  
From Verhandlungen der Kaiserlich-königlichen zoologisch-botanischen gesellschaft in Wien. Jahrgang 1858.
- Macleay, William Sharp.** On the structure of the tarsus in the tetramerous and trimerous Coleoptera of the French entomologists . . . London, 1825.  
63—73 p. 28<sup>cm</sup>.  
From the Transactions of the Linnean society of London, vol xv.
- Mulsant, Martial Etienne.** Species des coléoptères trimères sécuripalpes, par M. E. Mulsant . . . Paris, Maisou; [etc., etc.] 1850 [pref. 1848] Agr 4—3575  
xv, 1104 p. 25½<sup>cm</sup>. (*Half-title*: Annales des sciences physiques et naturelles d'agriculture et d'industrie [de la Société d'agriculture, science et industrie de Lyon, sér. 2, tome 2])  
"Table des auteurs et des ouvrages cités dans ce volume"; p. [xii]—xv.
- Olivier, Antoine Guillaume.** Entomologie, ou Histoire naturelle des insectes, avec leurs caractères génériques et spécifiques, leur description, leur synonymie, et leur figure enluminée. Par M. Olivier . . . Coléoptères. Paris, De l'imprimerie de Baudouin, 1789—1808. Agr 5—220  
6 v. col. front (v. 1) col. plates. 32<sup>cm</sup>.  
Vol. 3—4, De l'imprimerie de Lanneau.  
Vol. 5—6, Chez Desray.
- Perris, Édouard, i. e. Jean Pierre Omer Anne.** Larves de coléoptères, par M. Édouard Perris . . . Paris, Deyrolle, 1877. Agr 3—985  
2 p. l., 590 p., 15 l. xiv pl. 26½<sup>cm</sup>.
- Pierce, William Dwight.** Some hypermetamorphic beetles and their hymenopterous hosts . . . [Lincoln, 1904]  
38 p. II pl. 23½<sup>cm</sup>. [University of Nebraska studies, vol. iv, no. 2, April, 1904]
- Rey, Cl.** Essai d'études sur certaines larves de coléoptères et descriptions de quelques espèces inédites ou peu connues, par Cl. Rey . . . Beaune (Côte-d'Or) Bibliothèque entomologique de E. André, 1887. Agr 5—288  
1 p. l., 126, [2] p., 1 l. II pl. 27½<sup>cm</sup>.

**Rivera, Manuel J.** Apuntes acerca de la biología de algunos coleópteros cuyas larvas atacan al trigo; trabajo leído en el VII Congreso científico, por Manuel J. Rivera. Santiago de Chile, Imprenta Cervantes, 1903. Agr 4—1877  
66 p. 24½<sup>cm</sup>.

**Rivera, Manuel J.** Nuevas observaciones sobre algunos coleópteros cuyas larvas atacan al trigo . . . Santiago de Chile, 1905.  
23 p. 24½<sup>cm</sup>.  
Extracto de las Actas de la Sociedad científica de Chile.

**Rouget, Auguste.** Sur les coléoptères parasites des vespides. [Dijon, 1873]  
[161]—288 p., 1 l. 22½<sup>cm</sup>. Agr 4—3601  
From Mémoires de l'Académie de sciences, arts et belles-lettres de Dijon, t. xvii, 1871—72.

**Schenkling, Siegmund.** Nomenclator coleopterologicus. Eine etymologische Erklärung sämtlicher gattungs- und artnamen der käfer des deutschen faunengebietes. Von Sigm. Schenkling. Frankfurt a/M., Verlag von H. Bechhold, 1894.  
424, [2] p. 17<sup>cm</sup>.

**Schiødte, Jørgen Matthias Christian.** De metamorphosi eleutheratorum observationes; bidrag til insekternes udviklingshistorie. Kjøbenhavn, C. A. Reitzel, forlag [1861—83]

12 pts. plates. 23½—24½<sup>cm</sup>.  
From Naturhistorisk tidsskrift. 3. række, 1. bind, s. [193]—232; 3. bind, s. [131]—224; 4. bind, s. [415]—562; 6. bind, s. [353]—378, [467]—536; 8. bind, s. [165]—226, [545]—564; 9. bind, s. [227]—376; 10. bind, s. [369]—458; 11. bind, s. [479]—598; 12. bind, s. [513]—598; 13. bind, s. [415]—426.

**Schoenherr, Carl Johann.** Synonymia insectorum, oder: Versuch einer synonymie aller bisher bekannten insecten; nach Fabricii Systema eleutheratorum, &c. geordnet, von C. J. Schönherr. Mit berichtigungen und anmerkungen, wie auch beschreibungen neuer arten und illuminirten kupfern . . . 1 bd., 2 th.; 1 bd., 4 th. Stockholm, C. F. Marquard, 1808—45.

9 v. 1 pl. 20½<sup>cm</sup>.  
Imprint of 1. bd., 4. th., tomus I, pars I: Parisiis, Roret, 1833.  
Imprint of 1. bd. 4. th., tomus I, pars II—tomus 8: Parisiis, Roret; Lipsiæ, F. Fleischer, 1833—45.  
CONTENTS.—1 bd., 2 th. Eleutherata oder käfer: Spercheus . . . Cryptocephalus, 1808.—1 bd., 4 th. in 8 v. Eleutherata oder käfer; Fam. Curculionides, 1833—45.

**Sheppard, Revett.** Catalogus insectorum in museo meo. [n. p., 1826?] unsp. 19<sup>cm</sup>. Agr 4—3604  
Ms. copy in author's hand.

**Shipley, Arthur Everett.** On Lethrus cephalotes, Rhynchites betuleti and Chaetocnema basalis, three species of destructive beetles . . . [Cambridge, Eng., 1889]  
1 p. l., [335]—340 p. pl. 22<sup>cm</sup>.  
Extracted from the Proceedings of the Cambridge philosophical society, vol. VI, pt. VI.

**Sprague, Philip S.** Randall's species, Coleoptera . . . Boston, 1872.  
4 p. 20<sup>cm</sup>.  
From the Boston journal of natural history, vol. 2, 1838.

**Taschenberg, Ernst Ludwig.** Die im zoologischen museum der Universität Halle aufgestellten rüsselkäfer . . . [Halle] 1869.  
[129]—248 p. 22½<sup>cm</sup>.  
Wanting p. 247—248.  
From the Zeitschrift für die gesammten naturwissenschaften. bd. xxxiii.

**Townsend, Charles Henry Tyler.** Description of a luminous larva found near Holbrook, Arizona . . . [San Francisco] 1893.  
[128]—130 p. 23<sup>cm</sup>.  
Extract from Zoe, vol IV, no. 2, issued July 22, 1893.

**Voet, Johann Eusebius.** . . . Catalogus systematicus coleopterorum . . . Catalogue systématique des coléoptères . . . Systematische naamlyst van dat geslacht van insecten dat men torren noemt . . . Hays, G. Bakhuyzen, 1806.  
2 v. 105 col. pl. 27<sup>cm</sup>.  
Engr. t.-p.

- Weber, Ludw.** Ueber missbildungen bei käfern . . . [Kassel, 1895]  
68-75 p. 21<sup>cm</sup>.  
From Abhandlungen u. bericht xxxv des Vereins für naturkunde zu Kassel über das vereinsjahr 1894-95.
- Webster, Francis Marion.** Notes on longicorn beetles affecting growing nursery stock . . . Columbus, 1900.  
8 p. illus. 23 $\frac{1}{2}$ <sup>cm</sup>.  
Reprinted from the Journal of the Columbus horticultural society, December, 1900, vol. xv, no. 4.
- Webster, Francis Marion.** Notes upon the food of predaceous beetles . . . [Urbana, 1880]  
[149]-152 p. 23<sup>cm</sup>.  
From Illinois state laboratory of natural history. Bulletin no. 3.
- [**White, Adam**] Catalogue of coleopterous insects in the collection of the British museum. Pt. VII-VIII. Longicornia I-II. London, Printed by order of the trustees, 1853-55. Agr 3-375  
2 pts. x pl. 18<sup>cm</sup>.  
Paged continuously: iv, 1-174 p., 1 l., 175-412, 4 p.
- [**White, Adam**] Nomenclature of coleopterous insects in the collection of the British museum. London, Printed by order of the trustees, 1847-49.  
4 pts. 18<sup>cm</sup>.  
CONTENTS.—pt. I, Cetoniadae. 1847.—pt. II, Hydrocanthari. 1847.—pt. III, Buprestidae. 1848.—pt. IV, Cleridae. 1849.
- Wickham, Henry Frederick.** Description of the early stages of several North American Coleoptera . . . [Iowa City] 1893.  
330-344 p. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.  
Extracted from vol. II, no. 4, Bulletin from the Laboratories of nat. hist., State university of Iowa. Author's extras printed Oct. 9, 1893.
- Wickham, Henry Frederick.** On the early stages of three North American Coleoptera . . . [Iowa City, Iowa, 1893]  
[195]-201 p. pl. 23<sup>cm</sup>.  
From Bulletin from the Laboratories of natural history of the State university of Iowa, vol. II, no. 3.
- Wickham, Henry Frederick.** On the larvæ and pupæ of Hololepta and Pyrochroa . . . [Philadelphia] 1894.  
816-820 p. pl. 26<sup>cm</sup>.  
From the American naturalist, September 1st, 1894, vol. xxviii.
- Wickham, Henry Frederick.** On the larvæ of Lucidota, Sinoxylon and Spermophagus . . . [Iowa City, Iowa, 1895]  
[31]-35 p. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.  
From Bulletin from the Laboratories of natural history of the State university of Iowa, vol. III, no. 3.
- Wickham, Henry Frederick.** Studies on the male tarsus in some adepagous Coleoptera . . . [Iowa City, Iowa, 1893]  
[322]-329 p. v-viii pl. 24<sup>cm</sup>.  
From Bulletin from the Laboratories of natural history of the State university of Iowa, vol. 2, no. 4.

## FAUNA.

## UNITED STATES.

- Austin, E. P.** . . . Catalogue of the Coleoptera of Mt. Washington, N. H., by E. P. Austin; with descriptions of new species, by J. L. Le Conte, M. D. [Boston] 1874.  
[265]-276 p. 23<sup>cm</sup>.  
From the Proceedings of the Boston society of natural history, vol. xvi, January 28, 1874.
- Casey, Thomas Lincoln.** Contributions to the descriptive and systematic coleopterology of North America . . . by Thos. L. Casey . . . [Philadelphia, Collins printing house, 1884-85] Agr 4-3505  
2 pts. pl. 23 $\frac{1}{2}$ <sup>cm</sup>.  
Lacks title-page.  
Paged continuously: pt. I, 60 p., pt. II, [61]-198 p.

- Casey, Thomas Lincoln.** New genera and species of Californian Coleoptera . . . [San Francisco] 1885.  
283-336 p. pl. 25<sup>mm</sup>.  
From the Bulletin of the California academy of sciences, vol. i.
- Crotch, George Robert.** Check list of the Coleoptera of America; north of Mexico. By G. R. Crotch, M. A. Salem, Mass., Naturalists' agency, 1873.  
136 p. 23<sup>4</sup><sup>mm</sup>.  
Cover-title gives date as 1874.  
— Supplement to the Check list of the Coleoptera of America, north of Mexico. By E. P. Austin. Boston, S. E. Cassino, 1880.  
67 p. 23<sup>4</sup><sup>mm</sup>.
- Davis, C. Abbott.** Instructions for collecting and mounting insects. And a check-list of the Coleoptera of the state of Rhode Island, U. S. A. [By] C. Abbott Davis . . . 2d ed. Providence, Pilgrim press, 1902. Agr 4—1881  
47, [3] p. illus. 23<sup>mm</sup>. (*On cover:* Bulletin no. 1. Roger Williams park museum, Providence, R. I.)  
Cover-title says 3d ed, 1904.
- Dury, Charles.** . . . Coleopterological notes—Faunal changes in the vicinity of Cincinnati, Ohio . . . [Cincinnati] 1898.  
139-141 p. 24<sup>mm</sup>.  
From the Journal of the Cincinnati society of natural history, vol. xix.
- Dury, Charles.** . . . Notes on Coleoptera, with additions to the list of the Coleoptera of Cincinnati . . . [Cincinnati] 1884.  
1 p. 30<sup>mm</sup>.  
From the Journal of the Cincinnati society of natural history, July, 1884, vol. III, p. 91-92.
- Fall, Henry Clinton.** List of the Coleoptera of southern California, with notes on habits and distribution and descriptions of new species, by H. C. Fall . . . San Francisco, California academy of sciences, 1901. Agr 5—916  
2 p. l., 282 p. 24<sup>4</sup><sup>mm</sup>. (*Added t.-p.:* Occasional papers of the California academy of sciences. VIII)
- Haldeman, Samuel Stehman.** . . . Descriptions of North American Coleoptera, chiefly in the cabinet of J. L. Le Conte, M. D., with references to described species . . . [Philadelphia, 1848]  
95-110 p. 81<sup>4</sup><sup>mm</sup>.  
From Journal of the Academy of natural sciences, of Philadelphia, ser. 2, vol. I.
- Henshaw, Samuel.** List of the Coleoptera of America, north of Mexico, by Samuel Henshaw. Philadelphia, American entomological society, 1885.  
2 p. l., 161 p. 23<sup>4</sup><sup>mm</sup>.  
— Third supplement . . . Philadelphia, American entomological society, 1895.  
2 p. l., 62 p. 24<sup>mm</sup>.  
"The present supplement . . . includes all the additions and corrections contained in the first and second supplements; also such as have been noted since May, 1889. The species are numbered continuously with the List."
- Horn, George Henry.** Descriptions of new North American Coleoptera, in the cabinet of the Entomological society of Philadelphia . . . [Philadelphia, 1861]  
1 p. col. pl. 20<sup>4</sup>—24<sup>4</sup><sup>mm</sup>.  
From Proceedings of the Acad. nat. sciences of Phila. 1860, vol. XII, pp. 569 to 571, with plate VIII.
- Hubbard, Henry Guernsey.** The Coleoptera of Michigan. By H. G. Hubbard and E. A. Schwarz . . . [Philadelphia, 1878]  
[598]-669 p. pl. 24<sup>4</sup><sup>mm</sup>.  
From the Proceedings of the American philosophical society. vol. XVII.  
CONTENTS.—1. Descriptions of new species. By J. L. Le Conte.—2. List of Coleoptera found in the Lake Superior Region. By H. G. Hubbard and E. A. Schwarz.—3. Contribution to a list of the Coleoptera of the lower peninsula of Michigan. By H. G. Hubbard and E. A. Schwarz.—4. Description of the larva of *Micromalthus debilis* Lec. By H. G. Hubbard.
- Knaus, Warren.** Additions to the list of Kansas Coleoptera . . . [Topeka, 1898]  
18-20 p. 23<sup>4</sup><sup>mm</sup>.  
From the Transactions of the Kansas academy of science, v. 15.

**Le Conte, John Lawrence.** Additions to the coleopterous fauna of northern California and Oregon . . . [Philadelphia, 1860]

281-292 p. 23 $\frac{1}{2}$ cm.

From the Proceedings of the Academy of natural sciences of Philadelphia. 1859.

**Le Conte, John Lawrence.** Additions to the coleopterous fauna of the United States. no. 1 . . . [Philadelphia, 1866]

361-394 p. 24 $\frac{1}{2}$ cm.

From the Proceedings of the Academy of natural sciences of Philadelphia. 1866.

**Le Conte, John Lawrence.** . . . An attempt to classify the longicorn Coleoptera of the part of America north of Mexico . . . [Philadelphia] 1851.

pt. 3. 30 $\frac{1}{2}$ cm.

From Journal of the Academy of natural sciences, 2d ser., vol. II, Oct., 1851.

Pts. [1-2, 4] contained in Journal of the Academy of natural sciences, 2d ser., vol. I, p. 311-340, vol. II, p. 5-38, 139-178.

**Le Conte, John Lawrence.** Catalogue of the Coleoptera of Fort Tejon, California . . . [Philadelphia, 1860]

69-90 p. 24cm.

From the Proceedings of the Academy of natural sciences of Philadelphia. 1859.

**Le Conte, John Lawrence.** . . . Catalogue of Coleoptera of the regions adjacent to the boundary line between the United States and Mexico . . . [Philadelphia, 1858]

9-42 p. pl. 33cm.

From Journ. Acad. nat. sci., Vol. IV. No. 1, Nov., 1858.

**Le Conte, John Lawrence.** . . . Classification of the Coleoptera of North America. Prepared for the Smithsonian institution by John L. Le Conte and George H. Horn. Washington, Smithsonian institution, 1883.

Agr 5-169

xxxviii, 567 p. illus. 24cm. (Smithsonian miscellaneous collections. vol. 26)

"References for specific identification. By Samuel Henshaw": p. 535-552.

**Le Conte, John Lawrence.** . . . The Coleoptera of Kansas and eastern New Mexico. By John L. Le Conte, M. D. <Accepted for publication, October, 1859.> Washington City, Published by the Smithsonian institution, 1859.

cover-title, vi, 58 p. front. (map), 2 pl. 33cm. (Smithsonian contributions to knowledge. [Vol. XI])

**Le Conte, John Lawrence.** . . . The Coleoptera of the Alpine regions of the Rocky mountains . . . Washington, 1878.

2 pts. 22 $\frac{1}{2}$ cm.

At head of title: Author's edition. Department of the interior. United States geological and geographical survey.

Extracted from the Bulletin of the Survey, vol. IV, no. 2, vol. V, no. 3.

**Le Conte, John Lawrence.** Coleoptera of the U. S. Coast survey expedition to Alaska, under charge of Mr. George Davidson . . . [n. p., 1868 ?]

59-64 p. 26cm.

**Le Conte, John Lawrence.** . . . Description of new species of Coleoptera, chiefly collected by the United States and Mexican boundary commission, under Major W. H. Emory . . . [Philadelphia, 1858]

[59]-89 p. 22 $\frac{1}{2}$ cm.

From the Proceedings of the Academy of natural sciences, March, 1858.

**Le Conte, John Lawrence.** Descriptions of new species of Coleoptera, from California . . . [New York, 1851]

[125]-216 p. 22cm.

From Annals of the Lyceum of natural history of New York. vol. V.

**Le Conte, John Lawrence.** Descriptions of new species of North American Coleoptera. By Dr. Jno. L. Le Conte and Dr. Geo. H. Horn . . . [Topeka, 1881]

4 p. 23 $\frac{1}{2}$ cm.

From Transactions Kansas academy of science, vol. VII.

- Le Conte, John Lawrence.** List of Coleoptera collected in the mountains of Lycoming county, Pa. . . . [Philadelphia, 1866]  
346-348 p. 24 $\frac{1}{2}$ cm.  
From the Proceedings of the Academy of natural sciences of Philadelphia. 1866.
- Le Conte, John Lawrence.** List of Coleoptera collected near Fort Whipple, Arizona, by Dr. Elliott Coues, U. S. A., in 1864-65 . . . [Philadelphia, 1866]  
348-349 p. 24 $\frac{1}{2}$ cm.  
From the Proceedings of the Academy of natural sciences of Philadelphia. 1866.
- Le Conte, John Lawrence.** . . . List of the Coleoptera of North America. Prepared for the Smithsonian institution. By John L. Le Conte, M. D. . . . Washington, Smithsonian institution, 1866.  
pt. 1. 24cm. (Smithsonian miscellaneous collections. 140 [vol. vi])
- Le Conte, John Lawrence.** New species of Coleoptera inhabiting the Pacific district of the United States. [Philadelphia, 1861]  
338-359 p. 23 $\frac{1}{2}$ cm.  
From the Proceedings of the Academy of natural sciences of Philadelphia. 1861.
- Le Conte, John Lawrence.** . . . New species of North American Coleoptera. Prepared for the Smithsonian institution by John L. Le Conte, M. D. . . . Washington, Smithsonian institution, 1873.  
pt. 2. 24 $\frac{1}{2}$ cm. (Smithsonian miscellaneous collections. 264 [vol. xi])
- Le Conte, John Lawrence.** . . . Report upon insects collected on the Survey . . . [Washington, 1859]  
72 p. 11 pl. 28 $\frac{1}{2}$ cm. [Reports of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi River to the Pacific Ocean. Made under the direction of the Secretary of War, in 1853-5, according to acts of Congress of March 3, 1853, May 31, 1854, and August 5, 1854. Supplement to vol. 1. Zoological report no. 1]
- Melsheimer, Friedrich Ernst.** Catalogue of the described Coleoptera of the United States. By Friedrich Ernst Melsheimer, M. D. Rev. by S. S. Haldeman and J. L. Le Conte . . . Washington, Smithsonian institution, 1853. Agr 5-528  
xvi, 174 p. 23cm.  
"Authorities": p. [xi]-xv.
- Rivers, John James.** Contributions to the larval history of Pacific coast Coleoptera. By J. J. Rivers . . . Sacramento, J. J. Ayers, Supt. state printing, 1886.  
10 p. illus. 23cm.  
"A new series of Californian Coleoptera. By J. J. Rivers": p. 9-10.
- Schwarz, Eugene Amandus.** The Coleoptera of Florida. By E. A. Schwarz. With additional descriptions of new species, by John L. Le Conte, M. D. [Philadelphia, 1878]  
353-472 p. 24 $\frac{1}{2}$ cm.  
From the Proceedings of the American philosophical society. vol. xvii.
- Schwarz, Eugene Amandus.** Coleoptera of the expedition . . . [New York] 1900.  
169-185 p. 25 $\frac{1}{2}$ cm. (Papers from the Harriman Alaska expedition. xviii. Entomological results (12)  
Originally published in Proceedings of the Washington academy of sciences. vol. ii, pp. 523-537, December 20, 1900.
- Snow, Francis Huntington.** List of Coleoptera collected in Colorado in June, July and August, 1876, by the Kansas university scientific expedition . . . [Lawrence, Kansas, 1877]  
4-6 p. 30 $\frac{1}{2}$ cm.  
From the Kansas collegiate. vol. ii. no. 8.
- Summers, S. V.** Catalogue of the Coleoptera from the region of Lake Pontchartrain, La. . . . [Buffalo, 1874]  
78-99 p. 23cm.  
From the Bulletin of Buffalo society of natural sciences, vol. ii, no. 1.

- Ulke, Henry.** . . . A list of the beetles of the District of Columbia . . . Washington, 1902.  
1 p. l., 57 p. 24 $\frac{1}{2}$ mm.
- From the Proceedings of the United States national museum, vol. xxv, pages 1-57. <no. 1275>
- Wickham, Henry Frederick.** The beetles of southern Arizona . . . Iowa City, Iowa, 1898.  
295-312 p. 24 $\frac{1}{2}$ mm.
- Extracted from no. 3, vol. iv, Bulletin from the Laboratories of natural history, State university of Iowa, June, 1898.
- Wickham, Henry Frederick.** A catalogue of the Coleoptera of Colorado . . . Iowa City, Iowa, 1902.  
[217]-310 p. 24 $\frac{1}{2}$ mm.
- From Bulletin from the Laboratories of natural history of the State university of Iowa, vol. v, no. 3.
- Wickham, Henry Frederick.** Coleoptera [of Iowa] [Des Moines, 1894]  
45-51 p. 23 $\frac{1}{2}$ mm.
- Part of the "Report of the Committee on state fauna. By C. C. Nutting, chairman."  
From Proceedings of the Iowa academy of sciences, 1894, vol. ii.
- Wickham, Henry Frederick.** The Coleoptera of the lower Rio Grande valley . . . [Iowa City, Iowa] 1897.  
96-115 p. 24 $\frac{1}{2}$ mm.
- (Author's edition) Extracted from Bulletin from the Laboratories of natural history of the State university of Iowa. vol. iv, no. 2.
- Wickham, Henry Frederick.** . . . A list of Coleoptera from the southern shore of Lake Superior, with remarks on geographical distribution . . . Davenport, Iowa, 1896.  
[125]-169 p. 23 $\frac{1}{2}$ mm.
- Extracted from vol. vi, Proceedings of the Davenport academy of natural sciences, Davenport, Iowa.
- Wickham, Henry Frederick.** A list of some Coleoptera from the northern portions of New Mexico and Arizona . . . [Iowa City, Ia., 1896]  
153-171 p. 23 $\frac{1}{2}$ mm.
- Extracted from the Bulletin from the Laboratories of natural history, State university of Iowa. vol. iii, no. 4, January, 1896.
- Wickham, Henry Frederick.** A list of the Coleoptera of Iowa City and vicinity. By H. F. Wickham. [Iowa City, Iowa, 1888]  
81-92 p. 23 $\frac{1}{2}$ mm.
- From Bulletin from the Laboratories of natural history of the State university of Iowa. vol. i, no. i.
- — — Supplement . . . [Iowa City, Iowa, 1895]  
[36]-40 p. 24 $\frac{1}{2}$ mm.
- From Bulletin from the Laboratories of natural history of the State university of Iowa. vol. iii, no. 3.
- Wickham, Henry Frederick.** Notes on the Coleoptera of the southwest. Iowa City, Iowa, 1888.  
92-96 p. 23 $\frac{1}{2}$ mm.
- From the Bulletin from the Laboratories of natural history of the State university of Iowa. vol. i, no. 1.
- Wickham, Henry Frederick.** Report on an entomological reconnoissance of southern Alaska and adjacent portions of British Columbia . . . [Iowa City, Iowa, 1893]  
[202]-233 p. 2 maps. 23 $\frac{1}{2}$ mm.
- From Bulletin from the Laboratories of natural history of the State University of Iowa. vol. ii, no. 3.

## FOREIGN.

- Acloque, A.** . . . Faune de France, contenant la description de toutes les espèces indigènes disposées en tableaux analytiques et illustrée de figures représentant les types caractéristiques des genres et des sous-genres, avec une préface par Edmond Perrier . . . Coléoptères . . . Paris, J.-B. Baillière et fils, 1896.  
2 p. l., 466 p. illus. 18 $\frac{1}{2}$ mm.

**Alluaud, Ch.** Deux coléoptères nouveaux du sud-est de Madagascar . . . [Paris] 1899.

2 p. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1899, n° 7, p. 366-367.

**Alluaud, Ch.** Trois coléoptères nouveaux pour la faune malgache . . . [Paris] 1900.

2 p. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1900, n° 1, p. 17-18.

**Atkinson, Edwin T.** Catalogue of the insecta of the oriental region . . . Order Coleoptera . . . no. 4-12. Calcutta, 1891.

127-265, xxv p. 23<sup>em</sup>.

From the Journal of the Asiatic society of Bengal, vol. LIX, pt. II, 1890. Supplement, no. 2.

**Aurivillius, Per Olof Christopher.** Förteckning öfver en samling Coleoptera och Lepidoptera. See under Lepidoptera, p. 305.

**Aurivillius, Per Olof Christopher.** . . Insekter insamlade på Kamarun-berget af G. Valdau och K. Knutson. I. Coleoptera: Cetoniidæ et Lucanidæ . . . Stockholm, 1886.

18 p. illus. 22<sup>em</sup>.

Bihang till K. Svenska vet.-akad. Handlingar. bd. 12, afd. iv, N:o 1.

**Aurivillius, Per Olof Christopher.** Lepidoptera och Coleoptera. See under Lepidoptera, p. 306.

**Baer, G. A.** Catalogue des coléoptères des Îles Philippines. Par M. G.-A. Baer. [Paris, 1886] Agr 4-3417

[97]-200 p. 21<sup>em</sup>.

Caption title.

From the Annales de la Société entomologique de France, July, 1886.

**Bau, Alexander.** . . . Handbuch für käfer-sammler. Beschreibung der in Deutschland, Oesterreich-Ungarn und der Schweiz vorkommenden coleopteren. Von Alexander Bau. . . . Magdeburg, Creutz'sche verlagsbuchhandlung (R. & M. Kretschman), 1888. Agr 4-3478

iv, 494 p. illus. 20½<sup>em</sup>. (On cover: Handbuch für insekten-sammler von Alexander Bau, bd. II)

Cover-title: . . . Die käfer. Beschreibung aller in Deutschland, Oesterreich-Ungarn und der Schweiz vorkommenden coleopteren, in systematischer und analytischer, zum selbstbestimmen geeigneter anordnung . . .

**Bedel, Louis.** . . . Faune des coléoptères du bassin de la Seine, par Louis Bedel . . . Paris, Société entomologique de France, 1881-1901.

v. 1, 5-6. 2 pl. 21½<sup>em</sup>.

At head of title: Annales de la Société entomologique de France. Publication hors série.

For dates and manner of issue see Catalogue of the books . . . in the British museum (Natural history)

**Berg, Carlos.** Coleópteros de la Tierra del Fuego, coleccionados por el Sr. Carlos Backhausen. . . . [Buenos Aires] 1899.

[57]-65 p. 24<sup>em</sup>.

From Comunicaciones del Museo nacional de Buenos Aires, t. 1, no. 3.

**Bestimmungs-tabellen der europäischen coleopteren.** I-XXX. . . Wien, 1879-94. 31 nos. 22½<sup>em</sup>.

Place of publication varies.

Library also has 2d ed. of II and III.

**Biologia centrali-americana.** Insecta. Coleoptera . . . [London, Pub. for the editors by R. H. Porter] 1879-1905.

v. 1, pt. 1-2; v. 2, pt. 1-2; v. 3, pt. 1-2; v. 4, pt. 1-2, pt. 3, p. 1-168, pt. 4, p. 1-528, pt. 6, p. 1-298; v. 5; v. 6, pt. 1-2, sup. to pt. 1; v. 7. plates (partly col.) 32½<sup>em</sup>.

Issued in parts.

Cover-title: Biologia centrali-americana; or, Contributions to the knowledge of the fauna and flora of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1905, ed. by F. Ducane Godman.

CONTENTS.—vol. I, pt. 1. Adephaga, by H. W. Bates. 1881-84.—vol. I, pt. 2. Adephaga (continued), by D. Sharp. 1882-87.—vol. II, pt. 1. Pselaphidæ, etc., by D. Sharp, A. Matthews, and G. Lewis.



1887-1905.—vol. II, pt. 2. Pectinicornia and Lamellicornia, by H. W. Bates. 1886-90.—vol. III, pt. 1. Serricornia. Buprestidæ, by C. O. Waterhouse; Throscidæ and Eucnemidæ, by G. Horn (with a supplement by G. C. Champion); Elateridæ-Dascillidæ, by G. C. Champion. 1882-1905.—vol. III, pt. 2. Malacodermata, by the Rev. H. S. Gorham. 1880-86.—vol. IV, pt. 1-2. Heteromera, by G. C. Champion. 1884-93.—vol. IV, pt. 3 (not yet complete) Rhynchophora, by D. Sharp. 1889-91.—vol. IV, pt. 4 (not yet complete) Rhynchophora, by G. C. Champion. 1902-05.—vol. IV, pt. 6 (not yet complete) Rhynchophora, by D. Sharp and W. F. H. Blandford. 1895-1905.—vol. V. Longicornia, by H. W. Bates. 1879-86.—vol. VI, pt. 1 and supplement. Phytophaga, by M. Jacoby. 2 v. 1880-92.—vol. VI, pt. 2. Phytophaga. Hispidæ, by J. S. Baly, with an appendix by G. C. Champion; Cassididæ, by G. C. Champion. 1885-94.—vol. VII. Erotylidæ, Endomychidæ, and Coccinellidæ, by the Rev. H. S. Gorham. 1887-99.

**Blackburn, Thomas.** . . . Memoirs on the Coleoptera of the Hawaiian islands. By the Rev. T. Blackburn, B. A., and Dr. D. Sharp. . . Dublin, Royal Dublin society, 1885.

Agr 3—981

cover-title, 119-300 p. iv-v pl. 29<sup>em</sup>. (The Scientific transactions of the Royal Dublin society. vol. III. (series II)

**Blackburn, Thomas.** . . . Notes on Australian Coleoptera, with descriptions of new species. . . [Sydney] 1890-94.

pt. IX, XIII-XV. 21 $\frac{1}{2}$ -23<sup>em</sup>.  
From the Proceedings of the Linnean society of New South Wales, ser. 2, vol. v, p. 775-790; vol. VIII, p. 185-208, 245-286; vol. IX, p. 85-108.

**Boheman, Carl Henrik.** Insecta Caffraria annis 1838-1845 a J. A. Wahlberg collecta, descripsit Carolus H. Boheman . . . Holmiæ, ex officina norstedtiana, 1848-57.

Agr 4—3484

2 v. in 3. 3 pl. 21 $\frac{1}{2}$ <sup>em</sup>.  
Treats of Coleoptera only.  
Continued as Coleoptera Caffrariæ a J. A. Wahlberg collecta . . . descripsit Ol. Im. Fähræus . . . Holmiæ, 1870.

**Broun, Thomas.** . . . Descriptions of new Coleoptera from New Zealand . . . [London, 1894-1895]

Agr 4—3495

7 pts. 21 $\frac{1}{2}$ <sup>em</sup>.  
From the Annals and magazine of natural history, ser. 6, vol. XIV, October, 1894; vol. XV, May, 1895.

**Broun, Thomas.** . . . Manual of the New Zealand Coleoptera. By Captain Thomas Broun . . . Wellington, 1880-93.

Agr 4—3496

7 pts. in 4. 24 $\frac{1}{2}$ <sup>em</sup>.  
Paget continuously; pt. I: 1 p. 1, IV, 651 p.; pt. II: viii, 653-744 [xxi]-xxiii p.; pt. III-IV: xvii, 745-973 p.; pt. V-VII: xvii, [975]-1504 p.

At head of title: Colonial museum & geological survey department. James Hector director.

**Chevrolat, Auguste.** Coléoptères du Mexique, par A. Chevrolat . . . Strasbourg, Impr. de G. Silbermann, 1834.

Agr 3—776

vii p., 211 l. 17 $\frac{1}{2}$ <sup>em</sup>.  
Most of the leaves printed on both sides.  
Pub. in 8 fasc., 1833-35.

**Dejean, Pierre François Marie Auguste, comte.** Iconographie et histoire naturelle des coléoptères d'Europe; par M. le comte Dejean . . . et M. J.-A. Boisduval . . . Paris, Méquignon-Marvis; [etc., etc.] 1829-36.

Agr 3—330

5 v. 370 col. pl. 22<sup>em</sup>.  
Vol. 5 has title: Iconographie et histoire naturelle des coléoptères d'Europe; par M. le comte Dejean . . . continuée par le docteur Ch. Aubé . . . tome 5. Hydrocanthares.

**Dietrich, Kaspar.** Systematisches verzeichniss der bisher im Kanton Zürich aufgefundenen käfer als beitrage zur kenntniss der schweizerischen insekten-fauna überhaupt und der des Kantons Zürich insbesondere zusammengestellt und mit mannigfachen biologischen und synonymischen notizzen begleitet von Kaspar Dietrich . . . Zürich, Im verlage des verfassers; druck von Zürcher und Furrer, 1865.

1 p. 1., 240 p. 28 $\frac{1}{2}$ <sup>em</sup>.  
Aus dem 21. bande der Neuen denkschriften der Allgemeinen schweizerischen gesellschaft für gesammte naturwissenschaften besonders abgedruckt.

**Distant, William Lucas.** . . . Some apparently undescribed insects from the Transvaal. [London] 1899.

[461]-465 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. III, June 1899.

**Erichson, Wilhelm Ferdinand.** Naturgeschichte der insecten Deutschlands, begonnen von Dr. W. F. Erichson, fortgesetzt von Prof. Dr. H. Schaum, Dr. G. Kraatz and H. v. Kiesenwetter [Julius Weise, Edm. Reitter und Dr. G. Seidlitz] 1. abth. Coleoptera . . . Berlin, Nicolaische verlags-buchhandlung, 1848-99.

1 bd., 1. hälfte, 2. hälfte, 1 lfg.; 2. bd.; 3. bd. 1. abth.; 2. abth. 1.-2 lfg.; 4. bd.; 5. bd., 1. hälfte, 2. hälfte, 1.-3. lfg.; 6. bd. 23<sup>4</sup><sup>em</sup>.

1. bd. 1. hälfte. Bearb. von H. Schaum, 1860; 1. bd. 2. hälfte, 1. lfg. Bearb. von H. Schaum und H. v. Kiesenwetter. 1868; 2. bd. Bearb. von Dr. G. Kraatz. 1858; 3. bd. 1. abth. von Dr. W. F. Erichson. 1845-48; 3. bd. 2. abth. 1.-2. lfg. Bearb. von Edm. Reitter, 1882-85; 4. bd. Bearb. von H. v. Kiesenwetter. [1857]-63; 5. bd. 1. hälfte, 1. lfg. Bearb. von H. v. Kiesenwetter. 1877; 5. bd. 1. hälfte, 2.-5. lfg. Bearb. von H. v. Kiesenwetter und G. Seidlitz. 1893-98; 5. bd. 2. hälfte. 1.-3. lfg. Bearb. von Dr. Georg Seidlitz. 1896-99; 6. bd. Bearb. von Julius Weise. 1882-93.

**Everts, Jonkheer Eduard.** Coleoptera neerlandica. De schildvleugelige insecten van Nederland en het aangrenzend gebied, door Jhr. Ed. Everts. . . 's Gravenhage, M. Nijhoff, 1898-1901.

v. 1-2, pt. 1. illus. 27<sup>4</sup><sup>em</sup>.

**Fähræus, Olof Immanuel.** Coleoptera Caffrariæ a J. A. Wahlberg collecta . . . descriptis Ol. Im. Fähræus. Ex Actis Reg. Academiæ scientiarum Holmiensis. Holmiæ, P. A. Norstedt et filii, 1870.

Agr 5-1218

[502] p. 21<sup>4</sup><sup>em</sup>.

Various paging.

From Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1870-72. Stockholm.

Continues Boheman, Carl Henrik, Insecta Caffraria annis 1838-1845 a J. A. Wahlberg collecta . . . 1848-57.

**Fairmaire, Léon Marc Herminie.** Coléoptères, par M. L. Fairmaire. [Paris, 1888]

Agr 3-1251

63 p. II col. pl. 28<sup>em</sup>. ([Ministères de la marine et de l'instruction publique. Mission scientifique du Cap Horn. 1882-1883. Tome VI. Zoologie. Insectes])

Caption title.

**Fairmaire, Léon Marc Herminie.** Diagnoses de coléoptères abyssins . . . [Paris] 1883.

205-206 p. 31<sup>4</sup><sup>em</sup>.

From Le naturaliste, vol. v, no. 2.

**Faune entomologique armoricaine.** Coléoptères . . 76. famille. Rennes, Impr. F. Simon, 1903.

viii, 95, [1] p. 25<sup>4</sup><sup>em</sup>.

Publié par la Société scientifique et médicale de l'ouest.

CONTENTS.—76, famille. Cérambycides (longicornes) par C. Houbert et E. Monnot.

**Fleutiaux, Édouard.** Liste des Cicindelidæ, Elateridæ et Eucnemidæ recueillis dans le Japon central par M. le Dr. J. Harmand, de 1894 à 1897 . . . [Paris] 1900.

6 p. 23<sup>4</sup><sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1900, No. 7, p. 356-361.

**Froggatt, Walter Wilson.** . . . On the life-histories of Australian Coleoptera . . . [Sydney, 1894-95]

pt. II-III. 23<sup>em</sup>.

From "Proceedings of the Linnæan society of New South Wales," ser. 2, vol. IX, p. 113-125; vol. X, p. 325-336.

**Gahan, Charles Joseph.** On some longicorn Coleoptera from the island of Hainan . . . [London] 1900.

[347]-354 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. v, April, 1900.

**Ganglbauer, Ludwig.** Die käfer von Mitteleuropa. Die käfer der österreichisch-ungarischen monarchie, Deutschlands, der Schweiz, sowie des französischen und italienischen alpengebietes. Bearbeitet von Ludwig Ganglbauer. . . . Wien, C. Gerold's sohn, 1892-1904.

v. 1-4, pt. 1. illus. 27<sup>cm</sup>.

CONTENTS.—1. bd. Familienreihe Caraboidea. 1892.—2. bd. Familienreihe Staphylinoidea. 1. th. 1895.—3. bd. Familienreihe Staphylinoidea. II. th. . . . Familienreihe Clavicornia . . . 1899.—4. bd., 1. hälfte. Derrestidæ, Byrrhidæ, Nosodendridæ, Geonyssidæ, Dryopidæ, Heteroceridæ, Hydrophilidæ. 1904.

**Gorham, Henry Stephen.** Descriptions of new genera and species of Coleoptera from South and West Africa, of the section Serricornia, and of the families Erotylidæ, Endomychidæ, and Languriidæ . . . London, 1900-01.

pt. 1-2. 22½<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. v, p. 71-94; vol. vii, p. 349-365.

**Grouvelle, Antoine.** Coléoptères (Silphidæ, Nitidulidæ, Rhysodidæ, Cucujidæ, Cryptophagidæ), recueillis dans le Japon central par M. le Dr. Harmand . . . [Paris] 1902.

11 p. 23<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle—1902, n<sup>o</sup>. 1, p. 15-25.

**Gyllenhal, Leonhard.** Insecta svecica descripta a Leonardo Gyllenhal . . . Classis I. Coleoptera sive Eleuterata. Tomus I. Scaris, litteris F. J. Leverentz, 1808-27.

Agr 4—3546

4 pts. 18½<sup>cm</sup>.

pt. iv, Lipsiæ, F. Fleischer, 1827.

Forms the entomological part of Retzius, Fauna Sueciæ.

"Auctores citati cum explicatione abbreviationum" at beginning of each part.

**Harrington, W. Hague.** List of Ottawa Coleoptera . . . [Ottawa, 1884] 67-90 p. 22½<sup>cm</sup>.

From the Ottawa field-naturalists' club. Transactions. no. 5.

**Heyden, Lucas von.** Catalog der coleopteren von Sibirien, mit einschluß derjenigen des östlichen Caspi-gebietes, von Turcmenien, Turkestan, Nord-Thibet und des Amur-gebietes . . . Nachtrag I. Bearb. von Lucas von Heyden . . . Hrsg. von der Deutschen entomologischen gesellschaft, 1893[-95] Berlin, A. W. Schade's buchdruckerei, (L. Schade) [1895]

217 p. 22½<sup>cm</sup>.

— — — Nachtrag II. Berlin, A. W. Schade's buchdruckerei, (L. Schade) 1896.

p. 1-96. 22½<sup>cm</sup>.

**Heyden, Lucas von.** Catalogus coleopterorum Europæ, Caucasi et Armeniæ rossicæ. Auctoribus Dr. L. v. Heyden, E. Reitter & J. Weise cum aliis sociis coleopterologicis. Ed. Edmund Reitter. Berlin, R. Friedlander & sohn; Mödling, E. Reitter; [etc., etc.] 1891.

viii, 420 p. 20½<sup>cm</sup>.

"Literatur-angaben:" p. vii-viii.

**Horn, George Henry.** The Coleoptera of Baja California . . . [San Francisco] 1894.

302-449 p. vii-viii pl. 24½<sup>cm</sup>.

From the Proc. Cal. acad. sci., 2d ser., vol. iv.

— — — (Supplement II.) . . . [San Francisco] 1896.

367-421 p. 24½<sup>cm</sup>.

From Proc. Cal. acad. sci., 2d ser., vol. vi.

**Houlbert, Constant Vincent.** Petite faune analytique des coléoptères français les plus communs, contenant la description de 200 espèces d'insectes environ et un grand nombre de tableaux dichotomiques, par Constant Houlbert. Paris, P. Dupont, 1892.

1 p. l., 78 p. 18½<sup>cm</sup>.

**Janson, Edward Wesley.** British beetles. Transferred from Curtis's British entomology. With descriptions by E. W. Janson . . . London, Bell and Daldy, 1863.

Agr 3—983

vi, 57, [1] p. xxix pl. 26 $\frac{1}{2}$ <sup>em</sup>.

**Junod, H. A.** La faune entomologique du Delagoa. I. Coléoptères par H. A. Junod . . . avec la collaboration du prof. E. Bugnion. [Lausanne, 1899]

162-190 p. v-vi pl. 22<sup>em</sup>.

From Bulletin de la Société vaudoise des sciences naturelles, vol. xxxv.

**Kolbe, Hermann Julius.** Coleopteren. Die käfer Deutsch-Ost-Afrikas. Von H. Kolbe . . . Mit 4 tafeln, gezeichnet von Nic. Prillwitz. Berlin, D. Reimer (E. Vohsen) 1897.

1 p. l., 367, [1] p. iv pl. 28<sup>em</sup>.

"Litteratur über coleopteren Ost-Afrikas": p. 355-357.

**Lameere, Auguste.** . . Faune entomologique de l'Afrique tropicale. Longicornes, par Aug. Lameere . . . Bruxelles [Spineux et c<sup>o</sup>] 1903.

pt. l. III pl. 37 $\frac{1}{2}$ <sup>em</sup>. (État indépendant du Congo. Annales du Musée du Congo . . . Zoologie. Sér. III [tome II, fasc. 1])

Contents.—I. Prioninae.

**Le Conte, John Lawrence.** Notes on Coleoptera found at Fort Simpson, Mackenzie River, with remarks on northern species . . . [Philadelphia, 1860]

315-321 p. 22 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1860.

**Le Conte, John Lawrence.** Notes on the coleopterous fauna of Lower California . . . [Philadelphia, 1862]

335-338 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1861.

**Linell, Martin Lawson.** . . . List of Coleoptera collected on the Tana River, and on the Jombene range, East Africa, by Mr. William Astor Chanler and Lieutenant Ludwig von Höhnel, with descriptions of new genera and species Washington, 1896.

cover-title, 687-716 p. 24 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the United States national museum, vol. xviii, p. 687-716 &lt;no. 1094&gt;

**Linell, Martin Lawson.** On the coleopterous insects of Galapagos islands . . . Washington, 1896.

1 p. l., 249-268 p. 24<sup>em</sup>.

From the Proceedings of the United States national museum, vol. xxi, p. 249-268 &lt;no. 1143&gt;

**Macleay, William Sharp.** . . . Annulosa javanica, or An attempt to illustrate the natural affinities and analogies of the insects collected in Java by Thomas Horsfield . . . and deposited by him in the museum of the Honourable East-India company. By W. S. MacLeay . . . London, Kingsbury, Parbury, and Allen, 1825.

cover-title, [iii]-xii, 60 p., 1 l. 1 col. pl. 32<sup>em</sup>.

At head of title: Number I . . .

No more published.

**Martyn, Thomas.** The English entomologist exhibiting all the coleopterous insects found in England; including upwards of 500 different species, the figures of which have never before been given to the public, the whole accurately drawn and painted after nature. Arranged and named according to the Linnean system by Thomas Martyn at his academy for illustrating natural history. London, 1792.

8 p. l., 33, [4] p. 44 pl. (42 col.) 35 $\frac{1}{2}$ <sup>em</sup>.

Engr. t.-p.

Pref. dated March 31, 1793.

**Masters, George.** . . . Catalogue of Australian Coleoptera. Index to families and genera. [Melbourne, n. d.]

23 p. 21 $\frac{1}{2}$ <sup>em</sup>.

Index prepared by Claude Fuller?

**Mulsant, Martial Étienne.** Histoire naturelle des coléoptères de France; par M. E. Mulsant . . . 1<sup>re</sup> livraison.—Longicornes. Paris, Maison; Lyon, C. S. Jeune, 1840.

xi, [1], 304 p. 8 pl. 22<sup>cm</sup>.

Agr 5—176-217

Supplementary pages issued with Lamellicornes [Ed. 1], Palpicornes [Ed. 1], Sulcicolles, Latigènes, Pectinipèdes.

— — — Longicornes. [Ed. 2] Paris, Magnin, Blanchard et c<sup>ie</sup>, successeurs de L. Janet, 1862-63.

Agr 5—176-217

4 p. f, 590 p. 22<sup>cm</sup>.

Extrait des Annales de la Société impériale d'agriculture, d'histoire naturelle et des arts utiles de Lyon. 1862-1863.

— — — Lamellicornes. Paris, Maison, 1842.

Agr 5—176-217

viii, 623 p. III pl. 22<sup>cm</sup>.

Supplementary pages issued with Palpicornes, Ed. 2, Sulcicolles, and Pectinipèdes.

— — — Lamellicornes-Pectinicornes. Paris, Deyrolle, 1871.

Agr 5—176-217

3 p. u. 735, [1], 42 p. 1 l. [2] p., 2 l. III pl. 25<sup>cm</sup>.

[Ed. 2] of Lamellicornes.

Par É. Mulsant et Cl. Rey.

— — — Palpicornes. Lyon, C. S. Jeune, 1844.

Agr 5—176-217

vii, 196 p. 1 l. pl. 21<sup>cm</sup>.

Supplementary pages issued with Sulcicolles, and Pectinipèdes.

— — — Palpicornes. 2. éd. Beaune (Côte-d'Or) Bibliothèque entomologique de

E. André, 1885.

Agr 5—176-217

374 p. 1 l., [2] p., 1 l. II pl. 25<sup>cm</sup>.

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Agr 5—176-217

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"Table des auteurs et des ouvrages cités dans ce volume": p. [xi]-xxiv.

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Agr 5—176-217

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From Annales de la Société linnéenne de Lyon. Année 1857, nouv. sér., tome 4.

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- Mulsant, Martial Étienne.** Histoire naturelle des coléoptères de France; par M. E. Mulsant . . . —Angusticolles. Diversipalpes. Paris, Magnin, Blanchard et c<sup>le</sup>, successeurs de L. Janet, 1863-64. Agr 5—176-217  
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- Mulsant, Martial Étienne.** Histoire naturelle des coléoptères de France; par M. E. Mulsant . . . —Brévipennes, phléochariens, trigonuriens, protéiniens, phléobiens. Paris, Deyrolle, 1879. Agr 5—176-217  
2 p. l., 74, [2] p., 1 l. II pl. 22<sup>om</sup>.  
Par É. Mulsant et Cl. Rey.
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Par Cl. Rey.
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Par Cl. Rey.
- — Brévipennes, micropéplides, sténides. Paris, J. B. Baillièrre et fils, 1884. Agr 5—176-217  
2 p. l., 263, [2] p., 3 l. III pl. 25<sup>4om</sup>.  
Par Cl. Rey.
- — Famille des lathridiens. 1<sup>re</sup> ptie., par le R. P. Fr. Marie-Joseph Belon . . . Lyon, Imprimerie de A. Storck, 1881. Agr 5—176-217  
2 p. l., 209, 17, 6 p., 1 l. 25<sup>4om</sup>.
- — Famille des lathridiens. 2<sup>e</sup> ptie., par le R. P. Fr. Marie-Joseph Belon . . . Lyon, Imprimerie Pitrat aîné, 1884. Agr 5—176-217  
2 p. l., 152 p. 25<sup>4om</sup>  
Extrait des Annales de la Société linnéenne de Lyon. Tome xxxi, année 1884.  
For further details of publication, see Carus and Engelmann. Bibliotheca zoologica, p. 707; Taschenberg, Bibliotheca zoologica, p. 2520; Hagen, Bibliotheca entomologica, v. 1, p. 558.
- Petri, Karl.** Monographie des coleopteren-tribus Hyperini . . . von Dr. Karl Petri. Hrsg. vom Siebenbürgischen verein für naturwissenschaften zu Hermannstadt. Berlin, R. Friedländer & sohn, [1901]  
iv, 210 p. incl. illus., III pl. 27<sup>om</sup>. (Siebenbürger verein für naturwissenschaften zu Hermannstadt. Abhandlungen. II. bd.)
- Philippi, Federico.** Catálogo de los coleópteros de Chile por Federico Philippi . . . Santiago de Chile, Imprenta nacional, 1887. Agr 4—3584  
190 p. 24<sup>om</sup>.  
De los Anales de la Universidad de Chile, tomo LXXI.  
"Autores más frecuentemente citados en el catálogo, p. 7-9". "Obras más frecuentemente citadas;" p. 9-11.
- Pittier de Fábrega, Henri F.** . . . Coleópteros (especies hasta hoy coleccionadas y determinadas) Por H. Pittier y P. Biolley. San José de Costa Rica A. C, Tip. nacional, 1895.  
40 p. 20<sup>4om</sup>. (Instituto físico-geográfico nacional. Invertebrados de Costa Rica. 1)
- Preudhomme de Borre, Alfred, i. e. Carl Franz Paul Alfred.** Matériaux pour la faune entomologique de la province d'Anvers. Coléoptères. 1.-4. centurie, by Alfred Preudhomme de Borre . . . Bruxelles, 1881-91.  
4 pts. illus. 22<sup>4</sup>-25<sup>om</sup>.  
4. centurie pub. at Braine-l'Alleud.  
1.-3. centurie par Alfred Preudhomme de Borre . . . avec la collaboration de MM. Fr. Dietz & Edm. Van Segvelt . . .  
1. centurie, extrait du Bulletin du Cercle floral d'Anvers.
- Preudhomme de Borre, Alfred, i. e. Carl Franz Paul Alfred.** Matériaux pour la faune entomologique de la province de Liège. Coléoptères. 1.-4. centurie . . . Bruxelles, 1881-88.  
4 pts. 24<sup>om</sup>.  
Extrait des Mémoires de la Société royale des sciences de Liège, 2<sup>e</sup> série, t. IX, A, XV.
- Preudhomme de Borre, Alfred, i. e. Carl Franz Paul Alfred.** Matériaux pour la faune entomologique de la province de Limbourg. Coléoptères. 1.-4. centurie. Tongres, 1882-91.  
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3.-4. centurie pub. in Hasselt.

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Extrait des Publications de l'Institut royal grand-ducal de Luxembourg, section des sciences naturelles.

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**Preudhomme de Borre, Alfred, i. e. Carl Franz Paul Alfred.** Matériaux pour la faune entomologique du Brabant. Coléoptères. 1., 5. centurie . . Bruxelles, 1881-90.

pt. 1, 5. 22<sup>cm</sup>. (5. centurie 23<sup>cm</sup>.)

"Extrait du Bulletin de la Société royale linnéenne de Bruxelles."

**Preudhomme de Borre, Alfred, i. e. Carl Franz Paul Alfred.** Matériaux pour la faune entomologique du Hainaut; coléoptères. 1.-4. centurie . . . Bruxelles, 1882-89.

4 pts. illus. 23<sup>cm</sup>.

**Rathlef, Harald von.** Coleoptera baltica. Käfer-verzeichniss der Ostseeprovinzen nach den arbeiten von Ganglbauer und Reitter. Hrsg. von H. von Rathlef. [Jurjew (Dorpat) Druck von C. Mattiesen] 1905.

Agr 5-884

298 p., 1 l. 25<sup>cm</sup>. (On cover: Archiv für die naturkunde Liv-, Ehst- und Kurlands. Hrsg. von der Naturforscher-gesellschaft bei der Universität Jurjew (Dorpat). 2. ser. Biologische naturkunde. Bd. xii, lfg. 3).

**Redtenbacher, Ludwig.** Coleopteren. Bearb. von Dr. Ludwig Redtenbacher . . . [Wien, 1867]

Agr 3-809

iv, 249 p., 5 l. v pl. 30<sup>cm</sup>.

From Novara-expedition. Zoolog. theil. Bd. ii, abth. i.

**Redtenbacher, Ludwig.** Fauna austriaca. Die käfer. Nach der analytischen methode, bearb. von Ludwig Redtenbacher . . . 3. gänzlich umgearb. und bedeutend verm. aufl. . . . Wien, C. Gerold's sohn, 1874.

Agr 4-3592

2 v. in 1. ii pl. 24<sup>cm</sup>.

**Redtenbacher, Ludwig.** Die gattungen der deutschen kaefer-fauna nach der analytischen methode bearbeitet, nebst einem kurz gefassten leitfaden, zum studium dieses zweiges der entomologie . . . von Ludwig Redtenbacher . . . Wien, C. Ueberreuter, 1845.

Agr 4-3593

7 p. l., 177, [1] p. ii pl. 22<sup>cm</sup>.

"Verzeichniss der schriftsteller und ihrer benützten schriften": p. [171]-175.

**Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. i. Enthaltend die familien: Cucujidæ, Telmatoophilidæ, Tritomidæ, Mycetæidæ, Endomychidæ, Lyctidæ und Sphindidæ . . . (Vorgelegt in der jahres-versammlung am 2. april 1879) [Wien, 1879]

71-100 p. 22<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft 1879, p. 71-100.

**Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. iii. Enthaltend die familien: Scaphidiidæ, Lathridiidæ und Dermestidæ. Von Edmund Reitter. (Vorgelegt in der versammlung am 4. februar 1880) [Wien, 1880]

41-94 p. 22<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft. bd. 30, p. 41-94.



- Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. III. 2. verm. und verb. auf. Mödling, E. Reitter, 1886.  
75 p. 22½<sup>em</sup>.
- Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. IV. Enthaltend die familien: Cistelidæ, Georyssidæ und Thorietidæ . . . (Mit tafel II.) (Vorgelegt in der versammlung am 8. jänner und 9. februar 1881) [Wien, 1881]  
67-96 p. 1 pl. 22½<sup>em</sup>.  
From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft. bd. 31, p. 67-96.
- Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. V. Enthaltend die familien: Paussidæ, Clavigeridæ, Pselaphidæ und Scydmanidæ . . . (Mit tafel XIX.) (Vorgelegt in der versammlung am 6. juli 1881) [Wien, 1881]  
443-592 p. 1 pl. 22½<sup>em</sup>.  
From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft. bd. 31, p. 443-592.
- Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. VI. Enthaltend die familien: Colydiidæ, Rhysodidæ, Trogositidæ . . . [Brünn, 1881]  
37 p. 22½<sup>em</sup>.  
(Sonderabdruck aus dem XX. bande der Verhandlungen des Naturf. vereines in Brünn.)
- Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. X. Nachtrag zu dem V. th. enthaltend: Clavigeridæ, Pselaphidæ und Scydmanidæ . . . (Vorgelegt in der versammlung am 2. jänner 1884.) . . . [Wien, 1884]  
36 p. 22½<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1884> besonders abgedruckt.
- Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. XII. Necrophoga (Platypsyllidæ, Leptinidæ, Silphidæ, Anisotomidæ und Clambidæ) . . . Brünn, 1885.  
122 p. 22½<sup>em</sup>.  
Sonderabdruck aus dem XXIII. bd. der Verhandlungen des Naturforschenden vereines in Brünn.
- Reitter, Edmund.** Bestimmungstabelle der lucaniden und coprophagen lamellicornen. XXIV. hft. Bearb. von Edmund Reitter . . . Brünn, Verlag des verfassers, 1892.  
230 p. 23<sup>em</sup>.  
Sonderabdruck aus dem XXX. bd. der Verhandlungen des Naturforschenden vereines in Brünn.
- Sahlberg, John.** Bidrag till Tschuktsch-Halföns insektfauna. Coleoptera och Hemiptera insamlade under Vega-expeditionen vid Halföns norra och östra kust, 1878-1879, beskrifna af John Sahlberg. [Stockholm, 1885]  
42 p. 24½<sup>em</sup>.  
"Ur "Vega-expeditionens vetenskapliga iakttagelser," bd. IV, Stockholm, 1885."
- Sahlberg, John.** Coleoptera och Hemiptera insamlade af Vega-expeditionens medlemmar å Berings Sunds Amerikanska kust uti omgifningarna af Port Clarence, vid Grantley Harbour och Sjön. Iman-Ruk den 23-26 juli 1879, beskrifna af John Sahlberg . . . [Stockholm, 1885]  
1 p. I., [45]-57 p. 24½<sup>em</sup>.  
"Ur "Vega-expeditionens vetenskapliga iakttagelser," bd. IV, Stockholm, 1885."
- Sahlberg, John.** Coleoptera och Hemiptera insamlade af Vega-expeditionens medlemmar på Bering-Ön den 15-18 augusti 1879, beskrifna af John Sahlberg. [Stockholm, 1885]  
1 p. I., [61]-71 p. 24½<sup>em</sup>.  
"Ur "Vega-expeditionens vetenskapliga iakttagelser," bd. IV, Stockholm, 1885."
- Schilsky, Julius.** Systematisches verzeichnis der käfer Deutschlands, mit besonderer berücksichtigung ihrer geographischen verbreitung. Zugleich ein käferverzeichnis der Mark Brandenburg. Zusammengestellt von J. Schilsky. Berlin, Nicolaische verlags-buchhandlung, R. Stricker, 1888. Agr 5-287  
vi p., 1 l., 159, [1] p. 23<sup>em</sup>

**Schmidt-Göbel, Hermann Max.** Faunula coleopterorum Birmaniae, adjectis nonnullis Bengaliae indigenis. Auctore Herm. Max. Schmidt-Göbel . . . [Prag, Druck der K. K. Hofbuchdruckerei von G. Haase söhne, 1846] Agr 3—1186

viii, 94 p. 111 pl. (2 col.) 28½<sup>em</sup>. (Cover-title: Med. Dr. Joh. Wilh. Helfer's hinterlassene sammlungen aus vorder- und hinter-Indien. Nach seinem tode im auftrage des Böhm. national-museums unter mitwirkung mehrerer bearb. und hrg. von Herm. Max. Schmidt-Göbel . . . 1. lfg.)

**Schönfeldt, H. von.** Catalog der coleopteren von Japan mit angabe der bezüglichen beschreibungen und der sicher bekannten fundorte. Zusammengestellt von H. v. Schönfeldt. [Wiesbaden, 1887]

[29]—204 p. 23<sup>em</sup>

From Jahrbücher des Nassauischen vereins für naturkunde. v. 40, p. 29—204.

— — — 1. nachtrag. [Wiesbaden, 1888]

[48]—49 p. 22<sup>em</sup>.

Separat-abdruck aus den Jahrbüchern des Nassauischen vereins für naturkunde, v. 41, p. 43—49.

— — — 2. nachtrag. [Wiesbaden, 1891]

[237]—274 p. 22½<sup>em</sup>.

From Jahrbücher des Nassauischen vereins für naturkunde. v. 44, p. 237—274.

**Semenov, Andreia Petrovich.** Coleopterorum genera faunæ turanicæ endemica vel præcipue peculiariorumque species . . . [St.-Petersbourg, 1896]

[42]—61 p. 25<sup>em</sup>.

From Annuaire du Musée zoologique de l'Académie impériale des sciences de St.-Petersbourg. 1896.

**Sokolov, Nikolai Nikolaevich.** Насѣкомыя вредящія плодовымъ садамъ въ Ташкентѣ. I. Жуки. Изъ отчета, представленнаго Министерству земледѣлія и государственныхъ имуществъ. Н. Соколова. С.-Петербургъ, 1894.

1 p. l., 32 p. illus. 23½<sup>em</sup>.

Insecta injurious to fruit gardens in Tashkent. I. Beetles.

Извлечено изъ журнала "Сельское хозяйство и лѣсоводство," изъ no. 5, 1894 г.

**Spry, W.** The British Coleoptera delineated, consisting of figures of all the genera of British beetles, drawn in outline by W. Spry . . . ed. by W. E. Shuckard . . . London, W. Crofts, 1840.

vii, 83 p. 94 pl. 23<sup>em</sup>.

**Stein, Joh. Phil. Emil Friedrich.** Catalogi coleopterorum Europæ ed. 2; auctoribus Dr. J. P. E. Frdr. Stein et Jul. Weise. Berolini, Libraria Nicolai (R. Stricker); [etc., etc.]; 1877.

2 p. l., 212 p. 20½<sup>em</sup>.

**Stierlin, W. Gustav.** . . . Bestimmungs-tabellen europäischer rüsselkäfer. II. Brachyderidæ. Von Dr. Stierlin . . . [Schaffhausen, 1884]

108 p. 22½<sup>em</sup>.

No. XIII of Bestimmungs-tabellen der europäischen coleopteren.

Separat-abdruck aus den Mittheilungen der Schweiz. entomologischen-gesellschaft, bd. 7, hft. 2, november, 1884.

**Sturm, Jacob.** Insecta coleoptrata, quæ in itineribus suis, præsertim Alpinis, collegerunt David Henricus Hoppe, Dr., et Fridericus Hornschuch . . . cum notis et descriptionibus Jacobi Sturm et Jacobi Hagenbach . . . [Halle, 1825]

1 p. l. 479—490 p. col. pl. 27½<sup>em</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. vol. XII.

**Tepper, J. Gottlieb Otto.** The Coleoptera of Lake Callabonna. [Adelaide] 1896.

[212]—216 p. 21<sup>em</sup>.

From the Transactions of the Royal society of South Australia, 1896.

**Thomson, Carl Gustaf.** Skandinavien Coleoptera, synoptiskt bearbetade af C. G. Thomson . . . Lund, Tryckt uti Lundbergska boktryckeriet, 1859—68.

10 v. 22<sup>em</sup>.

Vol. 7 issued in 2 pts.

Vol. 1—3 "Tryckt uti Berlingska boktryckeriet."

**Thunberg, Carl Petter.** Coleoptera Capensia, antennis fusiformibus . . . [Upsala, 1821].

157-202 p. pl. 27<sup>om</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. nat. cur. vol. VIII.

**Waterhouse, Charles Owen.** Descriptions of new Coleoptera from Hainan Island, China . . . [London, 1900]

310-312 p. 22<sup>om</sup>.

From the Annals and magazine of natural history. 7th series, vol. v.

**Westhoff, Fritz.** Die käfer Westfalens, zusammengestellt von Fr. Westhoff . . . Bonn, In commission bei M. Cohen & sohn (F. Cohen) 1881-82.

2 pts. 22<sup>om</sup>.

Paged continuously: I. abth., xxviii, 140 p.; II. abth., 1 p. l., 141-323, [1] p.

Supplement zu den Verhandlungen des Naturhistorischen vereins der preussischen Rheinlande und Westfalens. 38. jahrg., 4. folge, 8. jahrg.

**Wollaston, Thomas Vernon.** Catalogue of the coleopterous insects of Madeira in the collection of the British museum. By T. Vernon Wollaston . . . London, Printed by order of the trustees, 1857.

xvi, 234 p. 23<sup>om</sup>.

"Catalogues of the zoological collection in the British museum," 8 p. at end.

**Wollaston, Thomas Vernon.** Catalogue of the coleopterous insects of the Canaries in the collection of the British Museum. By T. Vernon Wollaston . . . London, Printed by order of the trustees, 1864.

xiii, 646, 8 p. 23<sup>om</sup>.

"Catalogues of the zoological collection in the British museum," 8 p. at end.

## FAMILIES.

### CICINDELIDÆ.

✓ **Bruner, Lawrence.** . . . The tiger beetles of Nebraska . . . [Lincoln] 1901.

[97]-99 p. 24<sup>om</sup>.

Reprinted from the Proceedings of the Nebraska academy of sciences, VII, November, 1901.

✓ **Fleutiaux, Édouard.** Cicindelidæ recueillis à la Baie d'Antongil (Madagascar) par M. A. Mocquerys et acquis par le Muséum d'histoire naturelle . . . Paris, 1899.

5 p. 24<sup>om</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1899, n° 2, p. 68-72.

**Horn, Walther.** Monographie der paläarktischen cicindelen, analytisch bearb. mit besonderer berücksichtigung der variationsfähigkeit und geographischen verbreitung. Von Walther Horn und Hans Roeschke . . . Berlin, Im selbstverlag der verfasser, 1891.

1 p. l., ix, 199 p. VI pl. 23<sup>om</sup>.

Cover-title reads: Bestimmungstabellen der europäischen coleopteren. XXIII. hft. Enthaltend die familie der Cicindelidæ. Bearb. von Walther Horn und Hans Roeschke . . .

Erschienen als Beiheft zur Deutschen entomologischen zeitschrift (jahrg. 1891)

**Le Conte, John Lawrence.** A descriptive catalogue of the geodephagous Coleoptera inhabiting the United States east of the Rocky Mountains . . . [New York, 1848]

[173]-450 p. XIII-XIV pl. 23<sup>om</sup>.

From Annals of the Lyceum of natural history of New York, vol. IV.

**Le Conte, John Lawrence.** Revision of the Cicindelæ of the United States. By John L. Le Conte, M. D. Philadelphia, W. S. Young, printer, 1856.

1 p. l., [27]-62 p., 1 l. pl. 30<sup>om</sup>.

Extracted from the Transactions of the American philosophical society.—Vol. XI.—Read February 1st, 1856.

**Rivers, John James.** The species of Amblychila . . . [San Francisco] 1893.

218-223 p. XXVIII-XXIX pl. 24<sup>om</sup>.

Extract from Zoe, vol. IV, no. 3, issued September 19, 1893.

**Thomson, James.** Monographie des cicindélides, ou Exposé méthodique et critique des tribus, genres et espèces de cette famille, par M. James Thomson. Tome 1. Paris, Au bureau du trésorier de la Société entomologique de France; New York, H. Baillière; [etc., etc.] 1857.

xvii, 66, [2] p. col. front., x pl (ix col.) 33<sup>em</sup>.

No more published.

**Wickham, Henry Frederick.** . . . The habits of American Cicindelidæ . . . [Davenport, Iowa] 1899.

cover-title, 206-228 p. 24<sup>em</sup>.

Reprinted from vol. VII, Proceedings of the Davenport academy of natural sciences, Davenport, Iowa.

#### CARABIDÆ.

**Berg, Carlos.** . . . Variation de régime. [Buenos Aires] 1898.

[14]-15 p. 24<sup>em</sup>.

From Comunicaciones del Museo nacional de Buenos Aires, t. 1, no. 1.

**Chicherin, T. S.** Note sur les Catadromus MacL. . . [St.-Petersbourg] 1896.

[141]-149 p. 25<sup>em</sup>.

From Annuaire du Musée zoologique de l'Académie impériale des sciences de St. Pétersbourg, 1896

**Chicherin, T. S.** Note sur les Derus Motsch. [St. Pétersbourg] 1896.

[105]-112 p. 25<sup>em</sup>.

From Annuaire du Musée zoologique de l'Académie impériale des sciences de St. Pétersbourg, 1896.

**Chicherin, T. S.** Note sur les feroniens de l'Afrique australe . [St. Pétersbourg, 1896]

[62]-68 p. 25<sup>em</sup>.

From Annuaire du Musée zoologique de l'Académie impériale des sciences de St. Pétersbourg, 1896.

**Dimmock, George.** . . . Early stages of Carabidæ, by George Dimmock . . . and Frederick Knab . . . Springfield, Mass., The museum, 1904.

55, [8] p. incl. 4 pl. illus. 24<sup>em</sup>. (Springfield museum of natural history. Bulletin no. 1)

"List of references": p. 51-55.

**Germain, Philibert.** Apuntes sobre los insectos de Chile. Los Carabus chilenos . . . Santiago de Chile, 1895.

59 p. pl. 26 $\frac{1}{2}$ <sup>em</sup>.

Publicado en los "Anales de la universidad," número de mayo de 1895.

**Guercio, Giacomo del.** Alcune osservazioni sulla infezione dello zabro nel modenese e sui costumi della larva [Modena, 1891]

28 p 25<sup>em</sup>.

Estratto dal giornale: Le stazioni sperimentali agrarie italiane, vol. XXII. fasc. VI.

**Horn, George Henry.** A review of the species of Anisodactylus and critical notes on the species of Selenophorus inhabiting the United States . . . [Philadelphia] 1880.

162-183 p. 24 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the American philosophical society, 1880.

**Le Conte, John Lawrence.** Analytical table of the species of Chlænienius found in the United States . . . [Philadelphia, 1856]

25-29 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. vol. VIII.

**Le Conte, John Lawrence.** Catalogue of the species of Bembidium found in the United States and contiguous northern regions . [Philadelphia, 1857]

2-6 p. 22 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the Academy of natural sciences, 1857.

**Le Conte, John Lawrence.** . . . Descriptions of some new and interesting insects, inhabiting the United States . . . [Boston, 1845]

203-208 p. pl. 23<sup>em</sup>.

**Le Conte, John Lawrence.** A descriptive catalogue of the geodephagous Coleoptera. See under Cicindelidæ, p. 203.

**Le Conte, John Lawrence.** Note on the species of *Brachinus* inhabiting the United States . . . [Philadelphia, 1862]

523-525 p. 23<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1862.

**Le Conte, John Lawrence.** Notes on the *Amaræ* of the United States . . . [Philadelphia, 1855]

346-356 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. June 1855, vol. VII.

**Le Conte, John Lawrence.** Notes on the species of *Calosoma* inhabiting the United States. [Philadelphia, 1862]

52-53 p. 23<sup>em</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1862.

**Le Conte, John Lawrence.** Notes on the species of *Harpalus* inhabiting America, north of Mexico . . . [Philadelphia, 1865]

98-104 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1865.

**Le Conte, John Lawrence.** . . . Notes on the species of *Pasimachus* . . . [Buffalo] 1874.

266-273 p. 24<sup>em</sup>.

From the Bulletin of the Buffalo society of natural sciences. vol. 1.

**Le Conte, John Lawrence.** . . . Synopsis of the species *Clivina* and allied genera inhabiting the United States . . . [Philadelphia, 1858]

[75]-83 p. 23<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, March, 1857.

**Zomnicki, Jaroslav R. von.** *Erythropodismus* der laufkäferarten . . . [Leipzig] 1898.

[355]-357 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 560. 1898.

**Zomnicki, Jaroslav R. von.** Flügelrudimente bei den caraben . . . [Leipzig] 1898.

[352]-355 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 560. 1898.

**Maindron, Maurice.** Description d'une nouvelle espèce d'insecte coléoptère (*Calosoma Grandidieri*) découverte dans le sud de Madagascar par M. Alfred Grandidier . . . [Paris] 1900.

2 p. illus. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1900, n<sup>o</sup>. 1, p. 16.

**Obst, P.** Synopsis der coleopteren-gattung *Anthia* (Weber) . . . [Berlin] 1901. cover-title, 34 p. illus. 23<sup>em</sup>.

Sonder-abdruck aus "Archiv für naturgeschichte" jahrg. 1901. Beiheft.

**Reitter, Edmund.** Tableaux analytiques pour la détermination des coléoptères d'Europe. Carabidæ, 1. tribu: Carabini. [Narbonne, n. d.]

1-24 p. 25<sup>em</sup>.

Issued as a separate with *Miscellanea entomologica*.

**Wasmann, Eric.** G. D. Haviland's Beobachtungen über die termitophilie von *Rhopalomelus angusticollis* Boh. (97. beitrage zur kenntniss der myrmekophilen und termitophilen.) . . . [Wien, 1899]

4 p. 22<sup>em</sup>.

"Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1899> besonders abgedruckt.

**Wickham, Henry Frederick.** On the early stages of some Carabidæ and Chrysomelidæ . . . [Philadelphia] 1895.

762-766 p. pl. 25<sup>em</sup>.

Reprinted from the American naturalist, August 1st, 1895. vol. xxix.

**Zimmermann, Christoph.** Monographie der carabiden. Von Zimmermann. 1. stück. Berlin, Beim verfassers; Halle, In commission bei E. Anton, 1831.

viii, 76 p. 23<sup>em</sup>.

## PAUSSIDÆ.

**Escherich, Karl.** Zur anatomie und biologie von Paussus turcicus Friv. Zugleich ein beitraag zur kenntniss der myrmecophilie. Habilitationsschrift zur erlangung der venia legendi für die zoologischen wissenschaften an der Technischen hochschule Karlsruhe vorgelegt von K. Escherich . . . mit 1 lithographischen tafel und 11 abbildungen im text. Jena, G. Fischer, 1898. Agr 3-159

48 p. illus., 1 pl. 23<sup>cm</sup>.

Reprinted from Zoologische jahrbücher, 1898.

"Literaturverzeichnis": p. 44-45.

**Wasmann, Eric.** . . . Neue paussiden, mit einem biologischen nachtrag . . . [Leyden, 1899]

33-52 p. 3-4 pl. 23<sup>cm</sup>.

From Notes from the Leyden museum, vol. XXI.

## DYTISCIDÆ.

**Burgess, Edward.** The structure of the mouth in the larva of Dytiscus . . . Boston, 1881.

223-228 p. illus. 23<sup>cm</sup>.

From Proceedings of the Boston society of natural history, vol. XXI, January, 1882.

**Le Conte, John Lawrence.** Synopsis of the species of Colymbetes inhabiting America, north of Mexico . . . [Philadelphia, 1862]

521-523 p. 22<sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1862.

**Meinert, Frederik Vilhelm August.** Larverne af slægten Acilius. (Larvæ generis Acilii.) . . . Kjøbenhavn, 1893.

24 p. pl. 23<sup>cm</sup>.

Særtryk af Overs. over D. K. D. vidensk. selsk. Forh. 1893.

**Savage, Henry.** General habits of the New England Dytiscidæ Boston, 1882.

24-25 p. 22<sup>cm</sup>.

From the Journal of the Boston zoölogical society, v. 1, no. 2.

**Seidlitz, Georg.** Bestimmungstabelle der Dytiscidae und Gyrinidae des europäischen faunengebietes. Von Dr. Georg Seidlitz . . . Brünn, Im verlage des vereines, 1887.

136 p. 22<sup>cm</sup>.

No. xv of the Bestimmungstabellen der europäischen coleopteren.

Sonderabdruck aus dem xxv. bd. der Verhandlungen des Naturforschenden vereines in Brünn.

**Sharp, David.** On aquatic carnivorous Coleoptera or Dytiscidæ. By David Sharp . . . Dublin, Pub. by the Royal Dublin society, 1882. Agr 3-363

3 p. l., 179-1003 p. VII-XVIII pl. 29<sup>cm</sup>.

From the Scientific transactions of the Royal Dublin society. vol. 2. Ser. II.

## GYRINIDÆ.

**Seidlitz, Georg.** Bestimmungstabelle der Dytiscidae und Gyrinidae. See above under Dytiscidæ.

## HYDROPHILIDÆ.

**Horn, George Henry.** Revision of the genera and species of the tribe Hydrobiini . . . [Philadelphia] 1873.

118-137 p. 23<sup>cm</sup>.

From the Proceedings of the American philosophical society, vol. XIII.

**Kuwert, A.** Bestimmungstabellen der europäischen coleopteren, XIX.-[XX.] hft. Enthaltend die familie der Hydrophilidae . . . bearb. von A. Kuwert . . . Brünn, 1890.

2 pts. 23<sup>cm</sup>.

Sonderabdruck aus dem xxvii. bd. der Verhandlungen des Naturforschenden vereines in Brünn. CONTENTS.—I. abth.: Hydrophilini; II. abth.: Sphaeridiini und Helophorini.

**Le Conte, John Lawrence.** Synopsis of the Hydrophilidæ of the United States . . . [Philadelphia, 1855]  
356-357 p. 24<sup>em</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, June, 1855. vol. VII.

## SILPHIDÆ.

**Giard, Alfred.** . . . Nouvelles remarques sur le *Silpha opaca* L. . . . [Paris, 1888]

4 p. 24 $\frac{1}{2}$  p.

Extrait des Comptes rendus des séances de la Société de biologie. [vol. XL], séance du 7 juillet 1888.

**Grosjean, H.** Rapport sur la destruction du silphe opaque par le vert de Scheele (arsénite de cuivre) en 1896 . . . Paris, 1896.

6 p. 27 $\frac{1}{2}$ <sup>em</sup>.

Extrait du Bulletin du Ministère de l'agriculture, vol. xv. .

**Grosjean, H.** Rapport sur un moyen de combattre les ravages du silphe opaque . . . Paris, 1888.

3 p. 28<sup>em</sup>.

Extrait du Bulletin du Ministère de l'agriculture, vol. VII.

**Portevin, G.** Note sur quelques choléviens du Muséum . . . [Paris] 1902.

1 p. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n° 7, p. 512.

**Portevin, G.** Remarques sur les nécrophages du Muséum et description d'espèces nouvelles. . . . [Paris] 1903.

8 p. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1903, n° 7, p. 329.

**Schøyen, Wilhelm Maribo.** . . . Skadelig optræden på bygagrene af den mørke ådselbille (*Silpha opaca*, Lin.) . . . [Kristiania, 188-?]

4 p. illus. 26 $\frac{1}{2}$ <sup>em</sup>.

Separataftryk af "Norsk landmandsblad."

## SCYDMÆNIDÆ.

**Schaufuss, Ludwig Wilhelm.** Monographie der scydmaeniden Central- und Südamerika's. Von Dr. L. W. Schaufuss . . . Eingegangen bei der Akademie im juli 1866. Dresden, Druck von E. Blochmann & sohn, 1866.

103 p. 4 pl. 29<sup>em</sup>.

From Acad. Cæs. Leop.-Carol. Ger. nat. cur. Nova acta, v. 33.

## PSELAPHIDÆ.

**Brendel, Emil.** The Pselaphidæ of North America. A monograph by Emil Brendel, M. D., and H. F. Wickham. [Iowa City, 1890]

2 pts. XII pl. 23<sup>em</sup>.

From Bulletin from the Laboratories of natural history of the State university of Iowa, vol. I, no. 3-4, p. 216-304; vol. II, no. 1, p. 1-84.

**Casey, Thomas Lincoln.** On some new North American Pselaphidæ . . . San Francisco, 1887.

455-482 p. pl. 25<sup>em</sup>.

From the Bulletin of the California academy of sciences, vol. II.

## STAPHYLINIDÆ.

**Arribáizaga, Félix Lynch.** Estafilinos de Buenos Aires . . . [Buenos Aires, 1884]

[5]-256 p. 25 $\frac{1}{2}$ <sup>em</sup>. (Boletín de la Academia nacional de ciencias en Córdoba (República Argentina) tomo VII.—Entrega 1~2~)

**Blaisdell, Frank E.** Remarks upon the *Stenini* observed in San Diego county, California. [n. p., 1891?]

45-47 p. 24 $\frac{1}{2}$ <sup>em</sup>.

**Casey, Thomas Lincoln.** A revision of the American Paederini . . . [St. Louis] 1905.

17-248 p. 25<sup>em</sup>. (Transactions of the Academy of science of St. Louis, vol. xv, no. 2)

**Casey, Thomas Lincoln.** Revision of the Stenini of America north of Mexico. Insects of the family Staphylinidæ, order Coleoptera. By Thos. L. Casey . . . [Philadelphia, Collins printing house, 1884] Agr 5—141

206 p. 25<sup>em</sup>.

Caption title.

**Erichson, Wilhelm Ferdinand.** Genera et species staphylinorum insectorum coleopterorum familiae auctore Guil. F. Erichson . . . Berolini, F. H. Morin.

viii, 954 p., 1 l. v pl. 24<sup>em</sup>.

Agr 4—3530

"Libri citati," p. 1-4.

**Georgevitsch, Jivoca.** . . . Die segmentaldrüsen von *Ocyopus* . . . [Leipzig] 1898.

[256]—261 p. illus. 23<sup>em</sup>.

**Meinert, Frederik Vilhelm August.** . . Tungens udskydelighed hos steninerne, en slægt af staphylinernes familie . . . [Kjøbenhavn, 1887?]

[180]—207 p. illus., xv—xvi pl. 23<sup>em</sup>.

Aftryk af Vidensk. meddel. fra den Naturh. foren. 1884-86.

**Meinert, Frederik Vilhelm August.** . . Die unterlippe der käfer-gattung *Stenus*. Eine vorläufige mittheilung . . . [Leipzig] 1887.

3 p. 22<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 246. 1887.

**Wasmann, Eric.** Zur biologie und morphologie der *Lomechusa*-gruppe . . . [Berlin] 1897

[463]—471 p. illus. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 546. 1897.

#### TRICHOPTERYGIDÆ.

**Flach, Karl.** Bestimmungs-tabellen der europäischen coleopteren. xviii. hft. Enthaltend die familie der Trichopterygidae. Bearbeitet von Carl Flach . . . Wien, 1889.

54 p. illus. x-xiv pl. 23<sup>em</sup>.

Aus den Verhandlungen der K. K. zoologisch-botanischen gesellschaft in Wien <jahrgang 1889> besonders abgedruckt.

**Matthews, Andrew.** Description of a new genus of Trichopterygidae, lately discovered in the United States . . . New York [1867]

[406]—413 p. pl. 25<sup>em</sup>.

Reprinted from the Annals of the Lyceum of natural history of New York, vol. viii. April, 1867.

**Matthews, Andrew.** Trichopterygia illustrata et descripta. A monograph of the Trichopterygia. By the Rev. A. Matthews London, E. W. Janson, 1872.

1 p. l., xiii p., 1 l., 188, [1] p. illus., 31 pl. 29<sup>em</sup>.

— — Supplement by the Rev. A. Matthews, M. A. Ed. by Philip B. Mason . . . London, O. E. Janson & son, 1900.

2 p. l., 112 p., 1 l. ix—xv pl. 29<sup>em</sup>.

#### SPHAERIIDÆ.

**Matthews, Andrew.** A monograph of the coleopterous families Corylophidæ and Sphaeriidæ. See under Corylophidæ, p. 209.

#### SCAPHIDIDÆ.

**Le Conte, John Lawrence.** Synopsis of the Scaphidiidæ of the United States . . . [Philadelphia, 1860]

321—324 p. 22<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. 1860.



## THORICTIDÆ.

**Escherich, Karl.** . . . Zur biologie von Thorictus Foreli Wasm. . . . [Leipzig] 1898.

[483]-492 p. illus. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" bd. XXI, no. 567, vom 5. Sept. 1898.

**Wasmann, Eric.** Nochmals Thorictus Foreli als ectoparasit der ameisenfühler. (94. beitrage zur kenntnis der myrmecophilen und termitophilen) . . . [Leipzig] 1898.

[536]-546 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" bd. XXI, no. 570, vom 10. Oct. 1898.

**Wasmann, Eric.** Thorictus Foreli als ectoparasit der ameisenfühler . . . [Leipzig] 1898.

[435]-436 p. 22<sup>4</sup><sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 564. 1898.

**Wasmann, Eric.** Zur lebensweise von Thorictus Foreli. Mit einem anatomischen anhang und einer tafeln . . . Münster i. W., 1898.

15 p. pl. 23<sup>4</sup><sup>em</sup>.

Sonderabdruck aus "Natur und offenbarung." 44. bd. Münster 1898.

## PHALACRIDÆ.

**Flach, Karl.** Bestimmungs-tabellen der europäischen coleopteren. xvii. hft. Enthaltend die familie der Phalacridae. Bearb. von Karl Flach . . . Brünn, 1888.

27, [1] p. pl. 22<sup>4</sup><sup>em</sup>.

Sonder-abdruck aus dem xxvii. bd. der Verhandlungen des Naturforschenden vereines in Brünn.

**Le Conte, John Lawrence.** Synopsis of the Phalacridæ of the United States . . . [Philadelphia, 1856]

15-17 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. vol. viii.

## CORYLOPHIDÆ.

**Matthews, Andrew.** A monograph of the coleopterous families Corylophidæ and Sphæridæ. By the Rev. A. Matthews, M. A. Ed. by Philip B. Mason . . . London, O. E. Janson & son, 1899.

4 p. l., 220 p., 1 l. 9 pl. 28<sup>4</sup><sup>em</sup>.

"Literature" p. [7]-21.

## COCCINELLIDÆ.

**Crotch, George Robert.** A revision of the coleopterous family Coccinellidæ. By George Robert Crotch, M. A. London, E. W. Janson, 1874.

xv, [1], 311 p. 23<sup>em</sup>.

Agr 3-328

**Froggatt, Walter Wilson.** . . . Australian ladybird beetles . . . Sydney, 1902.

[895]-911 p. col. pl. 25<sup>em</sup>.

From the Agricultural gazette of New South Wales, vol. XIII, pt. 9, September 1902.

Bibliography: p. 910-911.

**Ladybirds (Vedalia cardinalis).** Brisbane, 1897.

337-338 p. 24<sup>4</sup><sup>em</sup>.

From the Queensland agricultural journal, vol. i.

**Mulsant, Martial Étienne.** Monographie des coccinellides, par E. Mulsant . . . 1. partie, coccinelliens. Paris, F. Savy [etc.] 1866.

1 p. l., 292, [2] p. 27<sup>4</sup><sup>em</sup>.

Agr 3-350

**Olliff, Arthur Sidney.** Insect friends and foes . . . Lady-birds or Coccinellidæ . . . [Sydney, 1891]

[63]-66 p. pl. 25<sup>em</sup>.

From Agricultural gazette of New South Wales, vol. II, Feb., 1891.

**Weise, Julius.** Bestimmungs-tabellen der europäischen coleopteren. II. Coëcinnellidæ, von Julius Weise. [Breslau, 1879]

88-156 p. 20 $\frac{1}{2}$ cm.

Caption title.

"Zeitschrift für entomologie (neue folge) heft 17. Breslau 1879": p. 88-156.

— — — II. auflage. Mit berücksichtigung der arten aus dem nördlichen Asien, bearb. von Julius Weise. Mödling, Im verlage von Edmund Reitter, 1885.

83 p. 22 $\frac{1}{2}$ cm.

#### EROTYLIDÆ.

**Lacordaire, Jean Théodore.** Monographie des érotyliens, famille de l'ordre des coléoptères, par M. Th. Lacordaire . . . Paris, Roret, 1842.

xiv, 543 p. 21 $\frac{1}{2}$ cm.

"Liste des auteurs cités dans cet ouvrage": p. [ix]-xiv.

**Reitter, Edmund.** Bestimmung-tabellen der europäischen coleopteren. XVI. hft. Enthaltend die familien: Erotylidæ und Cryptophagidæ. Bearb. von Edmund Reitter . . . Brünn, 1887.

55, [1] p. 22 $\frac{1}{2}$ cm.

Sonder-abdruck aus dem xxvi. bd. der Verhandlungen des Naturforschenden vereines in Brünn.

#### ENDOMYCHIDÆ.

**Gerstaecker, Carl Eduard Adolph.** Entomographien. Abhandlungen im bereich der gliederthiere, mit besonderer benutzung der koenigl. entomologischen sammlung zu Berlin, von A. Gerstaecker . . . 1. bd. Leipzig, W. Engelmann, 1858.

xiv, 433 p. III pl. 22 $\frac{1}{2}$ cm.

Agr 3-335

CONTENTS.—1. bd. Monographie der endomychiden, einer familie der coleopteren. Von A. Gerstaecker.

"Verzeichniss der angeführten autoren und werke" · bd. 1, p. 422-429.

#### COLYDIDÆ.

**Horn, George Henry.** Revision of the Bostrichidæ and synopsis of the Colydiidæ. *See under* Bostrichidæ, p. 218.

#### RHYSSODIDÆ.

**Arrow, Gilbert J.** . . . Remarks upon the genus Rhysodes, with descriptions of some new oriental species . . . [London] 1901.

[83]-89 p. 22cm.

From the Annals and magazine of natural history, ser. 7, vol. VII., January 1901.

#### CUCUJIDÆ.

**Smith, Frederick.** List of the coleopterous insects in the collection of the British museum. Pt. I.—Cucujidæ, &c. London, Printed by order of the trustees, 1851.

2 p. 1., 25 p. 18cm.

Agr 3-365

#### CRYPTOPHAGIDÆ.

**Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. *See above under* Erotylidæ.

#### MYCETOPHAGIDÆ.

**Le Conte, John Lawrence.** Synopsis of the Mycetophagidæ of the United States . . . [Philadelphia, 1856]

12-15 p. 24cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, vol. VIII.

## DERMESTIDÆ.

**Howard, Leland Ossian.** Carpet beetle, or "buffalo moth" (*Anthrenus scropulariæ* L.) Washington, 1894.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 5)

**Jayne, Horace F.** Revision of the Dermestidæ of the United States . . . [Philadelphia, 1882]

343-377 p. 4 pl. 24<sup>cm</sup>.

From the Proceedings of the American philosophical society, vol. xx.

## HISTERIDÆ.

**Horn, George Henry.** Synopsis of the Histeridæ of the United States . . . [Philadelphia] 1873.

273-360 p. pl. 23<sup>cm</sup>.

From the Proceedings of the American philosophical society, vol. XIII, 1873.

**Le Conte, John Lawrence.** Description of new species of the coleopterous family Histeridæ . . . [Philadelphia, 1860]

310-317 p. 23<sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, 1859.

**Lewis, George.** . . . On new species of Histeridæ and notices of others . . . [London] 1899-1901.

no. 16-19. illus., pl. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. iv, p. 1-29; vol. v, p. 224-234, 246-254; vol. vi, p. 265-290; vol. vii, p. 241-245.

**Paykull, Gustaf von.** Monographia histeroidum; auctore Gustavo de Paykull . . . Upsaliæ, excudebant Stenhammar et Palmblad, 1811. Agr 3-200

4 p. l., 112, [2] p. XIII pl. 21<sup>cm</sup>.

**Schmidt, Johannes.** Bestimmungs-tabellen der europäischen coleopteren. xiv. Histeridæ, bearb. von Joh. Schmidt . . . Berlin, 1885.

1 p. l., 279-330 p., 1 l. 22<sup>cm</sup>.

Separatdruck aus der Berliner entomologischen zeitschrift, bd. xxix (1885) hft. II.

## NITIDULIDÆ.

**Frauenfeld, Georg, ritter von.** Ueber die diessjährigen verwüstungen des rapskäfers in Böhmen und Mähren . . . [Wien] 1867.

[561]-564 p. 22<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, bd. xvii.

**Frauenfeld, Georg, ritter von.** Ueber vertilgung des rapskäfers . . . [Wien] 1870.

[235]-236 p. 22<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, bd. xx.

**Murray, Andrew.** Monograph of the family of Nitidulariæ. By Andrew Murray . . . London, 1864.

1 p. l., 211-414 p., 5 l. illus., 5 col. pl. 29<sup>cm</sup>.

From the Transactions of the Linnean society of London, v. 24, p. 211-414.

**Reitter, Edmund.** Bestimmungs-tabelle der europäischen coleopteren [xxvii. hft.] Nitidulidæ. I. th.: Genus *Epuræa* Er. . . . Bearb. von Edmund Reitter . . .

Brünn, Verlag des verfassers, 1894.

20 p., 1 l. 23<sup>cm</sup>.

Sonderdruck aus dem xxxii. bd. der Verhandlungen des Naturforschenden vereines in Brünn.

**Reitter, Edmund.** Die europäischen nitidularien mit kurzer charakteristik der gattungen und bemerkungen über schwierige arten verzeichnet, von E. Reitter in Paskau (Mähren). [Berlin, 1875]

1-30, [87]-88 p. 22<sup>cm</sup>.

Caption title.

Deutsche entomologische zeitschrift. XIX, 1875, heft. III

**Reitter, Edmund.** Die rhizophaginen . . . Brünn, 1872.

24 p. 23<sup>em</sup>.

Sonderabdruck aus dem XI. bande (1872) der Verhandlungen des Naturforschenden vereins in Brünn.

#### TROGOSITIDÆ.

**Reitter, Edmund.** Revision der gattung Trogosita Oliv. (Temnochila Westw.)

[Brünn, 1875]

44 p. 22<sup>4</sup><sup>em</sup>.

Reprinted from Verhandlungen des Naturforschenden vereines in Brünn, XIII. bd.

Also published in Deutsche entomologische zeitschrift, 20. bd.

#### PARNIDÆ.

**Kuwert, A.** Bestimmungs-tabellen der europäischen coleopteren, XXI. hft. Enthaltend die familie der Parnidæ, Bearb. von A. Kuwert . . . Wien, 1890.

42 p. 23<sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1890> besonders abgedruckt.

#### HETEROCERIDÆ.

**Kuwert, A.** Bestimmungs-tabellen der europäischen coleopteren, XXII. hft. Enthaltend die familie der Heteroceridæ . . . Wien, 1890.

34 p. illus. 23<sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1890> besonders abgedruckt.

#### DASYLLIDÆ.

**Boas, Johan Erik Vesti.** En mosekulturfjende [Kjøbenhavn, 1897?]

[155]-160 p. illus. 23<sup>em</sup>.

From Tidsskrift for landbrugets planteavl III.

**Boas, Johan Erik Vesti.** Nye iagttagelser over mosekulturfjenden Dascillus cervinus . . . Kjøbenhavn, 1903.

[147]-151 p. illus. 22<sup>4</sup><sup>em</sup>.

Særtryk af "Tidsskrift for landbrugets planteavl" X.

**Rivers, John James.** Description of the larva of Dascyllus davidsonii Lec., and a record of its life history . . . [San Francisco] 1891.

[93]-96 p. pl. 24<sup>em</sup>.

From Proceedings of the California academy of sciences. 2d series, vol. III. 1890-1892.

#### ELATERIDÆ.

**Berg, Carlos.** . . . Aeolus pyroblaptus Berg, un nuevo destructor del trigo . . . Montevideo, 1892.

3 p. 25<sup>4</sup><sup>em</sup>.

Artículo publicado en los "Anales de la Sociedad científica Argentina," tomo XXXIII, p. 60-62, 1892.

**Candèze, Ernest Charles Auguste.** Élatérides nouveaux . . . Bruxelles, 1864-81.

fasc. I-III. 22-25<sup>em</sup>.

[Fasc. I] extrait du tome XVII des Mémoires couronnés et des Mémoires des savants étrangers.

[Fasc. II] extrait des Comptes-rendus de la Société entomologique de Belgique.

Fasc. III, extrait des Mémoires de la Société des sciences de Liège. t. IX, 2<sup>e</sup> série.

**Candèze, Ernest Charles Auguste.** Insectes recueillis au Japon par M. G. Lewis, pendant les années 1869-1871. Élatérides par Ernest Candèze. [Bruxelles, 1873]

ii, 32 p. 23<sup>em</sup>.

Extrait des Mémoires de la Société royale des sciences de Liège. 2<sup>e</sup> série, t. V.

**Candèze, Ernest Charles Auguste.** Monographie des élatérides, par M. E. Candèze . . . Liège, H. Dessain, 1857-63. Agr 3—327

4 v. 25 pl. 23<sup>em</sup>.

**Candèze, Ernest Charles Auguste.** Révision de la monographie des élatérides . . . [Bruxelles, 1874]

Fasc. I. 24<sup>em</sup>.

Extrait des Mémoires de la Société royale des sciences de Liège; 2<sup>e</sup> série, t. IV.

**Cornwall county council.** . . . Wireworms . . . [Louth, 1899]

45-48 p. 24<sup>em</sup>.

"From the Third annual report on agricultural experiments conducted in Cornwall during the season 1898".

**Fleutiaux, Édouard.** Elateridæ nouveaux de Madagascar . . . [Paris] 1899. 4 p. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle. 1899, no. 7, p. 367-370.

**Fleutiaux, Édouard.** Remarques sur quelques élatérides de Madagascar et descriptions d'espèces nouvelles . . . [Paris] 1899.

5 p. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle. 1899, no. 5, p. 222-226.

**Florence, Reale stazione di entomologia agraria di Firenze.** . . . Sulle bissole o ferretti del formentone e del grano nel Polesine, e sulle esperienze da tentare contro di esse per iniziativa del Ministero d'agricoltura, col concorso di alcuni proprietari. Proposte della Regia stazione di entomologia agraria di Firenze. [Roma, Tip. Eredi Botta, 1888]

7 p. 23½<sup>em</sup>.

At head of title: Ministero di agricoltura, industria e commercio. Direzione generale dell'agricoltura.

**Great Britain—Board of agriculture.** . . . Wireworms. [London, 1898]

7 p. illus. 21½<sup>em</sup>. (Its Leaflet no. 10)

**Künckel d'Hercule, Jules Philippe Alexandre.** . . . De la valeur de l'appareil trachéen pour la distinction de certaines familles de coléoptères (élatérides et buprestides) . . . [Paris, 1886]

7 p. 24½<sup>em</sup>.

At head of title: Association française pour l'avancement des sciences. Congrès de Nancy, 1886.

**Le Conte, John Lawrence.** . . . Revision of the Elateridae of the United States. By John L. Le Conte, M. D. Read October 21st, 1853. [Philadelphia, 1853] [405]-508 p. 30<sup>em</sup>.

From Transactions of the American philosophical society. 1853, new ser., v. 10.

**Ormerod, Eleanor Anne.** A lecture on wireworm with methods of prevention and remedy, delivered at the Royal agricultural college, Cirencester . . . Cirencester [1883]

12 p. 21½<sup>em</sup>.

From the Wilts and Gloucestershire Standard, Saturday, June 23rd, 1883.

**Schøyen, Wilhelm Maribo.** Om kjølmarken og dens bekjæmpelse. Foredrag af statsentomolog W. M. Schøyen i Selskabet for Norges vel den 11. december 1896. [n. p., 1896]

12 p. illus. 22½<sup>em</sup>.

**Targioni Tozzetti, Adolfo.** Delle infezioni di larve di elateridi nel Veronese e nel Polesine e di alcune esperienze tentate per dominarle . . . [Modena? 1889]

17 p. 25½<sup>em</sup>.

"Estratto dal giornale: Le stazioni sperimentali agrarie italiane, anno 1889, vol. XVI."

**Targioni Tozzetti, Adolfo.** . . . Risultati di alcune esperienze tentate contro le larve di varie specie di elateridei, nocivi al formentone, al grano ecc. nel Polesine. Sunto di comunicazioni fatte . . . nell' adunanza ordinaria del dì 3 marzo 1889. [Firenze, 1889]

15 p. 23½<sup>em</sup>.

"Cenno bibliografico [!] di lavori comparsi in Italia sulle infezioni di elateridei del basso Veronese e del Polesine": p. 14-15.

At head of title: R. Accademia economico-agraria dei georgofili di Firenze.

## THROSCIDÆ.

**Bonvouloir, Henry, vicomte de.** Descriptions de plusieurs espèces nouvelles de la famille des throscides . . . [Paris, Typographie Malteste et cie, 1860?]

16 p. col. pl. 23½<sup>em</sup>. [*With his* Essai monographique sur la famille des throscides. Paris, 1859]

Extrait des Annales entomologiques de France.

**Bonvouloir, Henry, vicomte de.** Essai monographique sur la famille des throscides par M. H. de Bonvouloir . . . Paris, A. Deyrolle, 1859. Agr 4—3490

xviii, 144 p. 5 pl. (4 col.) 23½<sup>em</sup>.

"Liste des auteurs cités": p. [ix]-x.

## EUCNEMIDÆ.

**Bonvouloir, Henry, vicomte de.** Monographie de la famille des eucnémides, par M. le vicomte Henry de Bonvouloir. [Paris, L. Buquet, 1870] 3—4582

907 p. 42 pl. 21<sup>em</sup>. (Société entomologique de France, Paris. Annales. Paris, 1870. 4 sér., t. 10, partie supplémentaire)

**Fleutiaux, Édouard.** Catalogue des Eucnemidæ du Muséum d'histoire naturelle de Paris . . . Paris, 1896.

8 p. 24½<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle. 1896, n° 3.

**Fleutiaux, Édouard.** Eucnemidæ recueillis à la Baie d'Antongil (Madagascar), par M. A. Mocquerys . . . [Paris] 1899.

5 p. 23½<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle. 1899, n° 1, p. 24-28.

## BUPRESTIDÆ.

**Austin, E. P.** Notes on collecting certain Buprestidæ . . . [Boston, 1882]

43-46 p. 22<sup>em</sup>.

From the Journal of the Boston zoological society, vol. 1, no. 4. October, 1882.

**Chittenden, Frank Hurlbut.** The larger apple-tree borers. Washington, 1898.

12 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 32)

**Chittenden, Frank Hurlbut.** Two-lined chestnut borer (*Agrilus bilineatus* Weber). Washington, 1897.

8 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 24)

**Froggatt, Walter Wilson.** . . . Gall-making buprestids . . . [Sydney, 1892]

[823]-826 p. 22<sup>em</sup>.

From vol. VII (series 2nd) of the "Proceedings of the Linnean society of New South Wales" (July 27th, 1892)

**Kerremans, Charles.** . . . Catalogue synonymique des buprestides décrits de 1758 à 1890, par Ch. Kerremans . . . [Bruxelles, Au siège de la société] 1892.

2 p. 1., 304 p. 25<sup>em</sup>. (*Added t.-p.*: Mémoires de la Société entomologique de Belgique. 1)

**Kerremans, Charles.** . . . Faune entomologique de l'Afrique tropicale. Buprestides, par Ch. Kerremans. Bruxelles, Spineux et c<sup>o</sup>., 1904.

pt. 1. col. pl. 37½<sup>em</sup>. (Annales du Muséum de Congo . . . Zoologie, sér. III, tome III, fasc. 1)

**Kerremans, Charles.** . . . Monographie des buprestides. Bruxelles, Impr. J. Janssens, 1904-05.

v. 1, pt. 1-13. col. pl. 25½<sup>em</sup>.

**Künckel d'Herculais, Jules Philippe Alexandre.** De la valeur de l'appareil trachéen pour la distinction de certaines familles de coléoptères (élatérides et buprestides) *See under* Elateridæ, p. 213.

**Le Conte, John Lawrence.** Index to the Buprestidæ of the United States, described in the work of Laporte and Gory, with notes . . . [Philadelphia, 1857]

6-16 p. 22½<sup>em</sup>.

From the Proceedings of the Academy of natural sciences. 1857.

**Le Conte, John Lawrence.** . . . Revision of the Buprestidæ of the United States. By John L. Le Conte, M. D. Read October 21st, 1859. [Philadelphia, 1859] 187]-258 p. pl. 20 $\frac{1}{2}$ <sup>em</sup>.  
From the Transactions of the American philosophical society. 2nd ser., v. 11, p. 187-258.

**Perris, Édouard i. e. Jean Pierre Omer Anne.** Notes sur les métamorphoses de divers Agrilus pour servir à l'histoire des buprestides . . . Lyon, 1851. 15 p. illus. 23 $\frac{1}{2}$ <sup>em</sup>.  
From Mémoires de l'Académie des sciences, belles-lettres et arts de Lyon. Classe des sciences. i.

**Saunders, Edward.** Catalogus buprestidarum synonymicus et systematicus. Auctore Edward Saunders, F. L. S. London, E. W. Janson, 1871. Agr 4—225 xxiii, [1], 171 p. 22 $\frac{1}{2}$ <sup>em</sup>.  
"List of works quoted": p. [vii]-xxiii.

**Waterhouse, Charles Owen.** Description of a new species of Buprestidæ . . . [London] 1900. [219]-220 p. 22<sup>em</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. vi, August 1900.

## LAMPYRIDÆ.

**Bourgeois, Jules.** Malacodermes récoltés au Japon, par M. J. Harmand (1900) . . . [Paris] 1902. 4 p. 24<sup>em</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle, 1902, n<sup>o</sup>. 2, p. 89-92.

**Bourgeois, Jules.** Trois nouvelles espèces de malacodermes de l'Himalaya . . . [Paris] 1902. 2 p. 23<sup>em</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle. 1902, n<sup>o</sup>. 6, p. 426-427.

**Newport, George.** On the natural history of the glowworm (*Lampyris noctiluca*). By the late George Newport . . . Prepared from the author's MS. by George Viner Ellis . . . [London, 1857] 40-71 p. 22<sup>em</sup>.  
From Proceedings of the Linnean society. Zoology. vol. i. 1857.

**Olivier, Ernest.** Catalogue des lampyrides faisant partie des collections du Musée civique de Gênes . . . Genova, 1885. 1 p. l., 42 p. col. pl. 25 $\frac{1}{2}$ <sup>em</sup>.  
Estratto dagli Annali del Museo civico di storia naturale di Genova. serie 2<sup>a</sup>, vol. II. 26 agosto, 24 settembre 1885.

**Olivier, Ernest.** Catalogue synonymique & systématique des espèces de "*Luciola*" et genres voisins décrits jusqu'à ce jour . . . Moulins, 1902. cover-title, 20 p. 22 $\frac{1}{2}$ <sup>em</sup>.  
Extrait de la Revue scientifique du Bourbonnais et du centre de la France.—Mai 1902.

**Olivier, Ernest.** Coléoptères lampyrides capturés à Dardjilling par M. le D<sup>r</sup> Harmand, nommés et décrits par M. Ernest Olivier . . . [Paris] 1903. 1 p. 23 $\frac{1}{2}$ <sup>em</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle.—1903, n<sup>o</sup>. 1, p. 19.

**Olivier, Ernest.** Coléoptères lampyrides recueillis aux environs de Tokio (Japon) par M. le D<sup>r</sup> Harmand, nommés et décrits par M. Ernest Olivier . . . [Paris] 1902. 3 p. 23<sup>em</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n<sup>o</sup>. 3, p. 188.

**Olivier, Ernest.** . . . Description d'une nouvelle espèce de lampyride du Chili . . . [Santiago] 1895. [339]-340 p. 27<sup>em</sup>.  
Extrait des Actes de la Société scientifique du Chili, tome iv (1894), 5<sup>e</sup> livraison. Tiré le 8 août 1895.

- Olivier, Ernest.** . . . Descriptions de deux nouvelles espèces du genre *Luciola* . . . [Genova, 1892]  
2 p. 25<sup>mm</sup>.  
At head of title: Viaggio di Lamberto Lorio nella Papuasias orientale.  
Estratto dagli Annali del Museo civico di storia naturale di Genova, serie 2<sup>a</sup>. vol. x (xxx), 20 luglio 1892.
- Olivier, Ernest.** Descriptions de nouvelles espèces de lampyrides du Musée de Tring . . . [London] 1895.  
[29]-34 p. 28<sup>mm</sup>.  
From "Novitates zoologicae." v. II. February, 1895.
- Olivier, Ernest.** Descriptions de nouvelles espèces de lampyrides du Musée de Tring . . . [London?] 1896.  
iv p. 28<sup>mm</sup>.  
From "Novitates zoologicae." vol. III. March, 1896.
- Olivier, Ernest.** . Les lampyrides algériens . . Paris, 1895.  
cover-title, 3 p. 25<sup>mm</sup>.  
"Extrait du Bulletin de la Société zoologique de France, tome xx, séance du 28 février 1895, page 65."
- Olivier, Ernest.** Lampyrides capturés au Paraguay par M. le Dr. Bohls . . . [London] 1896.  
[4]-7 p. 28<sup>mm</sup>.  
From "Novitates zoologicae." vol. III. March, 1896.
- Olivier, Ernest.** Les lampyrides des Antilles . . . [London, 1899]  
[267]-268 p. 24<sup>mm</sup>.  
Extracted from the Proceedings of the International congress of zoology, Cambridge, 1898.
- Olivier, Ernest.** . . . Lampyrides, rapportés de Birmanie par M. L. Fea, avec descriptions des espèces nouvelles . . . [Genova, 1891]  
10 p. 25<sup>mm</sup>.  
At head of title: Viaggio di Leonardo Fea in Birmania e regioni vicine. xxxv.  
Estratto dagli Annali del Museo civico di storia naturale di Genova. serie 2<sup>a</sup>, vol. x (xxx), 3 marzo 1891.
- Olivier, Ernest.** Lampyrides rapportées des Îles Batu par H. Raap . . . [Genova] 1897.  
1 p. 25<sup>mm</sup>.  
Estratto dagli Annali del Museo civico di storia naturale di Genova. serie 2<sup>a</sup>, vol. xviii (xxxviii) 7 ottobre 1897.
- Olivier, Ernest.** Les lampyrides typiques du Muséum . . . [Paris] 1899.  
4 p. 24<sup>mm</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle.—1899, n° 2, p. 72.
- Olivier, Ernest.** Les lampyrides typiques du Muséum . . . [Paris] 1899.  
2 p. 23<sup>mm</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle.—1899, n° 7, p. 371.
- Olivier, Ernest.** Nouvelle espèce de lampyride récoltée par M. L. Fea . . . [Genova, 1888]  
2 p. 25<sup>mm</sup>.  
Estratto dagli Annali del Museo civico di storia naturale di Genova. serie 2<sup>a</sup>, vol. vi, 5 giugno 1888.
- Olivier, Ernest.** . . . Révision des coléoptères lampyridés des Antilles et description des espèces nouvelles . . . Paris, 1899.  
cover-title, [87]-92 p. 25<sup>mm</sup>.  
Extrait du Bulletin de la Société zoologique de France . . . année 1899.
- Riley, Charles Valentine.** On the luminous larviform females in the Phengodini . . . [London] 1887.  
2 p. 21<sup>mm</sup>.  
Reprinted from the Report of the British association, 1887.
- Rivers, John James.** . . . Description of the form of the female in a lampyrid (*Zarhipis riversi* Horn) . . . [Philadelphia] 1886.  
648-650 p. 23<sup>mm</sup>.  
From the American naturalist. vol. xx.



**Walmsley, Thomas.** . . . Facts, experiments, and observations relative to some American species of Lampyris, or fire-flies . . . [n. p., 1807?] 118-123 p. 21<sup>cm</sup>.

## MALACHIIDÆ.

**Le Conte, John Lawrence.** Revision of the Dasytini of the United States . . . [Philadelphia, 1866]

349-361 p. 24<sup>4</sup><sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. 1866.

**Mead, C. E.** Collops bipunctatus as an enemy of the Colorado potato beetle . . . [Boston, 1899]

927-929 p. 24<sup>cm</sup>.

Reprint from the American naturalist, vol. xxxiii, no. 396, December, 1899.

**Uhagón, Serafín de.** . . . Ensayo sobre los maláquidos de España . . . (Conclusión) [Madrid, 1901]

[5]-102 p. 25<sup>cm</sup>.

From Anales de la Sociedad española de historia natural. serie II, tomo 10 (xxx)

Preceding parts published in Anales de la Sociedad española de historia natural. serie II, tomo IX (xxix) p. 5-63, 291-361.

## CLERIDÆ.

**Fairmaire, Léon Marc Herminie.** Description des clérides recueillis par M. le Dr Decorse dans le sud-est de Madagascar . . . [Paris] 1902.

11 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle—1902, n° 5, p. 306-316.

**Reitter, Edmund.** Bestimmungstabelle der coleopteren familie der cleriden— xxviii. heft. Bearb. von Edmund Reitter . . . Brünn, 1894.

1 p. l., [37]-88 p., 1 l. 23<sup>cm</sup>.

Sonderabdruck aus dem xxxii. bd. der Verhandlungen des Naturforschenden vereines in Brünn.

**Schenkling, Siegmund.** Clérides nouveaux du Muséum d'histoire naturelle de Paris . . . [Paris] 1902.

16 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n° 5, p. 317.

**Spinola, Massimiliano.** Essai monographique sur les clérides, insectes coléoptères par le M<sup>is</sup> Maximilien Spinola . . . Gênes, Imprimerie des frères Ponthenier, 1844.

Agr 3—366

2 v. in 1. XLVII col. pl. 26<sup>cm</sup>.

**Stebbing, E. P.** . . . A note on the discovery of Thanasimus sp. prox. nigricollis in the n.-w. Himalayas; with some remarks on its life-history . . . [Calcutta, 1903]

[105]-111 p. 23<sup>cm</sup>.

From the Journal, Asiatic society of Bengal, vol. LXXII, pt. II, no. 3, 1903.

## PTINIDÆ.

**Atkinson, George Francis.** The cigarette beetle (*Lasioderma serricornis*, Fab.) [Raleigh, 1886]

68-73 p. 23<sup>4</sup><sup>cm</sup>.

From the Journal of the Elisha Mitchell scientific society, 1885-86.

**Froggatt, Walter Wilson.** . . . Report on the beetle destroying boots & shoes in Sydney . . . Sydney, 1891.

6 p. col. pl. 22<sup>cm</sup>. (Technical education series, no. 8. Department of public instruction. Technical education branch. . . . Technological museum)

**Henry, Frederick Porteous.** The book-worm . . . [Philadelphia] 1903.

18-26 p. illus., pl. 26<sup>cm</sup>.

From the Medical library and historical journal, vol. I, no. 1.

**Le Conte, John Lawrence.** Prodrômus of a monograph of the species of the tribe Anobiini, of the family Ptinidæ, inhabiting North America . . . [Philadelphia, 1865]

222-244 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. Oct. 1865.

**Lesne, Pierre.** Sur un coléoptère nouveau de la famille des lyctides . . . [Paris] 1898.

[139]-140 p. illus. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1898, n° 3, p. 139.

**Pic, Maurice.** Diagnoses de ptinides et anthicides <Col.> des collections du Muséum de Paris . . . [Paris] 1899.

4 p. 23½<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1899; n° 1, p. 28.

**Reitter, Edmund.** Bestimmungs-tabellen der europäischen coleopteren. XI. Bruchidæ (Ptinidæ) Von Edm. Reitter . . . Brünn, 1883.

29 p. 22½<sup>em</sup>.

Sonderabdruck aus dem XXII. bd. der Verhandl. des Naturforsch. vereines in Brünn.

**Stebbing, E. P.** A note on the preservation of bamboos from the attacks of the bamboo beetle or "shot-borer." By E. P. Stebbing . . . Calcutta, Office of the superintendent of government printing, India, 1903.

cover-title, 16 p. 24½<sup>em</sup>.

**Westwood, John Obadiah.** . . . Report of the commission appointed to enquire into the causes of decay in wood carvings and the means of preventing & remedying the effects of such decay. London, 1864.

16 p. 21½<sup>em</sup>.

At head of title: Science and art department of the Committee of council on education, South Kensington.

Pages 4-7 (the entomological portion) only, by Westwood.

#### BOSTRICHIDÆ.

**Barbey, Auguste.** . . . Die bostrichiden Central-Europas; eine morphologische und biologische studie der familie der borkenkäfer mit rücksicht auf den forstschutz, für forstwirte, baumzüchter und entomologen . . . Genf, H. Kündig; [etc., etc.] 1901.

4 p. l., 119 p., 18 l. 18 pl. 87½<sup>em</sup>.

"Litteraturverzeichnis": p. [115]-116.

**Horn, George Henry.** Revision of the Bostrichidæ and synopsis of the Colydiidæ of the United States . . . Philadelphia, 1878.

540-592 p. illus. 24½<sup>em</sup>.

From the Proc. Am. Phil. Soc. 1878, vol. xvii.

**Lesne, Pierre.** Note sur une espèce nouvelle de Bostrychus (Coleoptera: Bostrychidæ) . . . [Leyden, 1898?]

[1] p. 23½<sup>em</sup>.

From Notes from the Leyden museum, vol. xx, p. 255.

**Zoufal, Vladimir.** Bestimmungs-tabelle der Bostrychidæ aus Europa und den angrenzenden ländern. XXVI. hft. Bearb. von Vladimir Zoufal . . . Wien, 1894.

12 p. 28<sup>em</sup>.

Sonderabdruck aus der "Wiener entomologischen zeitung" 1894.

#### LYMEXYLIDÆ.

**Hopkins, Andrew Dalmar.** Pinholes in chestnut. Chicago, 1893.

[5]-6 p. illus. 28<sup>em</sup>.

From Hardwood, vol. III, no. 3.

## LUCANIDÆ.

**Leuthner, Franz.** . . . A monograph of the Odontolabini, a subdivision of the coleopterous family Lucanidæ. Received and read 18th December 1883. [London, 1885]

[385]—491 p. illus. (incl. maps), 84—97 pl., fold. diagr. 32<sup>em</sup>.

From the Transactions of the Zoological society, vol. XI, pt. XI. 1885.

**Lockwood, Samuel.** The larvæ of the stag-beetle, eating railroad ties . . . [New York, 1888]

147—149 p. 24<sup>em</sup>.

From the Journal of the New York microscopical society, vol. IV, no. 3.

**Smith, Frederick.** Nomenclature of coleopterous insects in the collection of the British museum, Pt. VI. Passalidæ. London, Printed by order of the trustees, 1852.

23 p. 1 pl. 18<sup>em</sup>.

**Wytzman, P.** Catalogue systématique des passalides . . . Genova, 1884.

[3]—27 p. 25½<sup>em</sup>.

"Estratto dagli Annali del Museo civico di storia naturale di Genova, serie 2<sup>a</sup>, vol. I. 15 settembre-5 ottobre 1884."

## SCARABÆIDÆ.

**Alluaud, Ch.** Description d'un coléoptère nouveau du genre Scarabæus (Ateuchus) du sud de Madagascar . . . [Paris] 1902.

2 p. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle. 1902, no. 4, p. 250—251.

**Arrow, Gilbert J.** Notes on the classification of the coleopterous family Rutelidæ . . . [London] 1899.

[363]—370 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. IV, November 1899.

**Arrow, Gilbert J.** On the rutelid beetles of the Transvaal; an enumeration of a collection made by Mr. W. L. Distant . . . [London] 1899.

[118]—122 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. IV, August 1899.

**Boas, Johan Erik Vesti.** Iagttagelser og bemærkninger vedrørende oldenborrerne. Foredrag i det kgl. landhusholdningsselskab d. 9 marts 1892 . . . Kjøbenhavn, 1892.

1 p. l., [289]—315 p. illus. 20½<sup>em</sup>.

Særtryk af "Tidsskrift for landøkonomi," 5. række, XI.

**Boas, Johan Erik Vesti.** Om oldenborrens æglægning . . . [Kjøbenhavn] 1896.

22 p. 20<sup>em</sup>.

Særtryk af Tidsskrift for skovvæsen VIII, B, 1896.

**Boas, Johan Erik Vesti.** Om sygdomme hos skadelige insekter, særlig hos oldenborrelarven. Foredrag i Fyns stifts patriotiske selskab d. 24. febr. 1894 . . . [Kjøbenhavn, 1894?]

6 p. 25½<sup>em</sup>.

Særtryk af Ugeskrift for landmænd.

**Boas, Johan Erik Vesti.** Organe copulateur et accouplement du hanneton . . . Copenhagen, 1893.

[239]—261 p. double col. pl. 24<sup>em</sup>.

Extrait de "Oversigt over det Kgl. Danske videnskabernes selskabs Forhandlinger i aaret 1892."

**Boas, Johan Erik Vesti.** . . . Über die Stigmen der Melolontha-larve . . . [Leipzig] 1893.

3 p. illus. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 431, 1893.

**Brenske, Ernst.** Sur quelques nouvelles espèces de melolonthides (genre *Serica*) du Cambodge et du Siam appartenant au Muséum de Paris . . . [Paris] 1899.

3 p. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1899, no. 8, p. 414-416.

**Chittenden, Frank Hurlbut.** Rose-chafer. Washington, 1895.

4 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 11)

**Froggatt, Walter Wilson.** Cockchafer (*Anoplognathus*) grubs destroying strawberry plants . . . [Sydney] 1901.

4 p. illus. 25<sup>em</sup>. ([Dept. of agriculture, New South Wales] Miscellaneous publication, no. 465)

From Agricultural gazette of N. S. Wales, vol. XII, April 1901.

**Froggatt, Walter Wilson.** The reappearance of the elephant beetle (*Orthorhinus cylindrirostris*, Fab.) . . . Sydney, 1900.

5 p. 25<sup>em</sup>.

From Agricultural gazette of N. S. Wales, vol. XI, October 1900.

**Great Britain—Board of agriculture.** . . . The cockchafer. [London. 1896]

3 p. illus. 22½<sup>em</sup>. (Its [Leaflet] 1896 [no.] 2)

— — — [London, 1898]

4 p. illus. 21½<sup>em</sup>. (Its Leaflet no. 25)

**Horn, George Henry.** Monographic revision of the species of *Cremastochilus* and synopsis of the Euphoræ of the United States . . . [Philadelphia, 1879]

382-408 p. pl. 23½<sup>em</sup>.

From the Proceedings of the American philosophical society, 1879, vol. XVIII.

**Lampa, Sven.** Ollonborrharne, deras lefnadssätt och utrotande, af Sven Lampa . . . Stockholm, C. E. Fritze's K. hofbokhandel [1889]

40 p. illus. 19½<sup>em</sup>.

**Le Conte, John Lawrence.** Notice of three genera of Scarabæidæ found in the United States . . . [Philadelphia, 1856]

19-25 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. vol. VII.

**Le Conte, John Lawrence.** . . . Synopsis of the Melolonthidæ of the United States. By John L. Le Conte, M. D. [Philadelphia, 1856]

225-288 p. 33½<sup>em</sup>.

From the Journal of the Academy of natural sciences of Philadelphia, 2d series, vol. III, November, 1856.

**Lindemann, Karl Eduardovich.** Хлѣбный жукъ. (*Anisoplia austriaca*) Отчетъ, представленный г. Министру государственныхъ имуществъ, К. Э. Линдеманомъ . . . Москва, Типографія М. Н. Лаврова и К°, 1880.

1 p. l., v, [1], 144 p. 27<sup>em</sup>.

Grain weevil (*Anisoplia austriaca*) Report presented to the Minister of Imperial domains . . .

“Литература”: p. 141-144.

Печатано по распоряженію Департамента земледѣлія и сельской промышленности Министерства государственныхъ имуществъ.

**Linell, Martin Lawson.** Descriptions of new species of North American Coleoptera in the families Cerambycidæ and Scarabæidæ. See under Cerambycidæ, p. 223.

**Linell, Martin Lawson.** New species of North American Coleoptera of the family Scarabæidæ . . . Washington, 1896.

cover-title, 721-731 p. 24½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XVIII, pages 721-731. <no. 1096>

**Lintner, Joseph Albert.** . . . The white grub of the May beetle . . . Albany, 1888.

31 p. illus. 23<sup>em</sup>. (Bulletin of the New York State museum of natural history, no. 5)

**Lintner, Joseph Albert.** The white grub of the May beetle, *Lachnosterna fusca* . . . [Albany, 1884]

[20]-37 p. illus. 23<sup>em</sup>.

From the 43d Annual report of the New York state agricultural society for the year 1883.

**Macleay, William Sharp.** *Horæ entomologicæ: or, Essays on the annulose animals: by W. S. Macleay . . .* v. 1; pt. 1-2. London, Printed for S. Bagster, 1819-21.

Agr 2—181

xxx p., 1 l., 160 p., 2 l., [161]-524 p. pl. 22 $\frac{1}{2}$ <sup>em</sup>.

Paged continuously.

No more published.

CONTENTS.—v. 1. pt. 1. Containing general observations on the geography, manners, and natural affinities of the insects which compose the genus *Scarabæus* of Linnæus; to which are added a few incidental remarks on the genera *Lucanus* and *Hister* of the same author.—pt. 2. Containing an attempt to ascertain the rank and situation which the celebrated Egyptian insect, *Scarabæus sacer*, holds among organized beings.

**Meinert, Frederik Vilhelm August.** *Sideorganerne hos scarabæ-larverne. Les organes latéraux des larves scarabés. Af Fr. Meinert . . . Résumé et explication des planches en français . . .* Kjøbenhavn, B. Lunos Kgl. Hof-bogtrykkeri (F. Dreyer) 1895.

72 p. III col. pl. 26 $\frac{1}{2}$ <sup>em</sup>.

D. Kgl. Danske vidensk. selsk. Skr., 6. række; naturvidenskabelig og matematisk afd. VIII. 1.

**Meinert, Frederik Vilhelm August.** . . . *Spirakelpladen hos scarabæ-larverne . . .* Kjøbenhavn, 1881.

4 p. 23<sup>em</sup>.

Aftryk af Vidensk. meddel. fra den Naturh. foren. i Kjøbenhavn, 1881.

**Nevinson, Basil George.** *Revised synonymic list of species in the genera Phænax MacLeay and Oxysternon Castelnau. By B. G. Nevinson, M. A. [n. p., 189-?]*

10 p. 22 $\frac{1}{2}$ <sup>em</sup>.

**Orbigny, H. d'.** *Onthophagus provenant du voyage de M. Martinez Escalera au Congo espagnol: Cap San Juan . . .* [Madrid] 1903.

[125]-127 p. 24<sup>em</sup>.From *Memorias de la Sociedad española de historia natural*, tomo I, 1903.

**Pelikan, Anton, freiherr von Plauenwald.** *Ueber getreide-verwüstungen im Banate durch Anisoplia . . .* [Wien, 1867]

[693]-696 p. 22<sup>em</sup>.From *Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien*, XVII.

**Rivers, John James.** *A new genus and species of N. A. Scarabæidæ . . .* [San Francisco] 1888.

[100]-102 p. illus. 23<sup>em</sup>.From *Proceedings of the California academy of science*. 2d series, vol. 1, 1888.

**Rivers, John James.** *A new species of Californian Coleoptera, and contributions to the larval history of Pacific coast Coleoptera . . .* [San Francisco, 1886]

cover-title, 61-72 p. illus. 25<sup>em</sup>.From *Bulletin of the California academy of sciences*. II. 5.

**Rivers, John James.** *New species of Scarabæidæ . . .* [San Francisco] 1891.

[97]-98 p. 24<sup>em</sup>.From *Proceedings of the California academy of sciences*. 2d series, vol. III. 1890-1892.

**Semenov, Andreïa Petrovich.** *Recensio melolontharum faunæ turanicæ . . .* [St. Pétersbourg] 1896.

[15]-30 p. 25<sup>em</sup>.From *Annuaire du Musée zoologique de l'Académie impériale des sciences de St. Pétersbourg*. 1896.

**Smith, John Bernhard.** *Notes on the species of Lachnosterna of temperate North America, with descriptions of new species . . .* Washington, 1889.

481-525 p. XLVIII-LX pl. 25<sup>em</sup>.From the *Proceedings of the United States national museum*, vol. XI.

**Sousa, Sophia de.** *A rosca ou verme branco. [n. p., 1897]*

177-178 p. illus. 28 $\frac{1}{2}$ <sup>em</sup>.From *Jornal horticolo-agricola*, vol. V, no. 12, December 1897.

**Sweden—Statens entomolog.** *Våra skadligaste ollonborrar enligt uppdrag af Kongl. Landbruksstyrelsen af Statens entomolog. Stockholm, Tryckt i Central-tryckeriet, 1891.*

8 p. col. pl. 19 $\frac{1}{2}$ <sup>em</sup>.

**Tryon, Henry.** . . . Grub pest of sugar-cane (*Lepidiota squamulata*) of the Mackay district. By Henry Tryon . . . Brisbane, E. Gregory, government printer, 1896.

Agr 2—146

56 p. 22<sup>cm</sup>.

At head of title: Queensland. Department of agriculture, Brisbane. July, 1895.

**Turner, A. Jefferis.** . . . The Xyloryctidæ of Queensland, by Dr. A. J. Turner. Brisbane, E. Gregory, government printer, 1897.

Agr 4—298

32 p., 11. 22<sup>cm</sup>. (Annals of the Queensland museum. no. 4)

**Westwood, John Obadiah.** . . . Two new species of the coleopterous genus *Acanthocerus* . . . [Leyden, 1893]

2 p. 22½<sup>cm</sup>.

Notes from the Leyden museum, vol. v.

**Zehntner, Leo.** . . . De levensgeschiedenis van den wáwálan. (*Apogonia destructor* H. Bos) Door Dr. L. Zehntner . . . Soerabaia, H. van Ingen, 1895.

cover-title, 12 p. 26<sup>cm</sup>. (Mededeelingen Proefstation "Oost-Java." nieuwe serie no. 17)

"Literatuur": p. [1]

Overgedrukt uit het Archief voor de Java-suikerindustrie 1895, afl. 16.

**Zehntner, Leo.** . . . *Heteronychus* spec? I. De kentjong-kever. II. Verdere waarnemingen omtrent den wáwálan, door Dr. L. Zehntner . . . Soerabaia, H. van Ingen, 1898.

cover-title, 24 p. col. pl. 26<sup>cm</sup>. (Mededeelingen van het Proefstation Oost-Java. Nieuw serie no. 47)

Overgedrukt uit het Archief voor de Java-suikerindustrie, 1898, afl. 8.

## CETONIDÆ.

**Gory, Hippolyte Louis.** Monographie des cétoines et genres voisins, formant, dans les familles naturelles de Latreille, la division des scarabées mélitophiles; par M. H. Gory . . . et M. A. Percheron . . . Paris, Londres, J. -B. Bailliére, 1833.

406 p. 77 pl. (partly col.) 24½<sup>cm</sup>.

Agr 3—337

"Liste des auteurs cités": p. [381]—383.

**Heath, Edward Alfred.** . . . Description of a new cetoniid beetle from East Africa . . . London, 1900.

[397]—398 p. illus. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. v, April 1900.

**Mohnike, Otto Gottlieb Johann.** Die cetoniden der Philippinischen Inseln. Beschrieben von Dr. Otto Mohnike . . . Berlin, Nicolaische verlags-buchhandlung (A. Effert und L. Lindtner) 1873.

Agr 4—3418

iv, 139, [1] p. vi pl. 22<sup>cm</sup>.

"Separat-abdruck aus dem 'Archiv für naturgeschichte 1873.'"

**Mohnike, Otto Gottlieb Johann.** Uebersicht der cetoniden der Sunda-Inseln und Molukken, nebst der beschreibung von zweiundzwanzig neuen arten. Von Dr. Otto Mohnike . . . Berlin, Nicolaische verlags-buchhandlung (A. Effert und L. Lindtner) 1872.

Agr 4—3416

1 p. l., 96 p. v—VII pl. 22<sup>cm</sup>.

"Separat-abdruck aus dem 'Archiv für naturgeschichte 1871.'"

## CERAMBYCIDÆ.

**Aurivillius, Per Olof Christopher.** . . . Verzeichniss der von Dr. F. Meinert im jahre 1891 in Venezuela gesammelten cerambyciden . . . [Stockholm, 1900]

409—421 p. illus. 21½<sup>cm</sup>.

From Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1900. no 4.

**Berg, Carlos.** . . . Descriptio novi generis cerambycidarum Reipublicae Argentinae . . . Buenos Aires, 1898.

[31]—33 p. 33½<sup>cm</sup>.

From Comunicaciones del Museo nacional de Buenos Aires. t. 1, no 2.

**Boas, Johan Erik Vesti.** . . . Træbukken *Tetropium luridum* i lærk. [Kjøbenhavn] 1890.

4 p. illus., pl. 20 $\frac{1}{2}$ <sup>cm</sup>. (Skoven og dyrelivet 13)  
Særtryk af Tidsskrift for skovvæsen A. II. 1890.

**Boas, Johan Erik Vesti.** . . . Ueber einen fall von brutpflege bei einem bockkäfer . . . [Jena] 1900.

[247]-258 p. illus., pl. 33<sup>cm</sup>.  
Abdruck aus den Zoologischen Jahrbüchern. Abtheilung für systematik, geographie und biologie der thiere, 13. bd., 3. hft. 1900.

**Chittenden, Frank Hurlbut.** Larger apple-tree borers. *See under* Buprestidæ, p. 214.

**Felt, Ephraim Porter.** . . . Monograph of the genus *Saperda*, by Ephraim Porter Felt . . . and Louis H. Joutel . . . Albany, University of the state of New York, 1904. 4—17705

86 p. illus., 14 pl. (partly col.) 23<sup>cm</sup>. (New York state museum. Bulletin 74, Entomology 20)  
With bibliographies.

**Gahan, Charles Joseph.** Description of a new genus and species of longicorn Coleoptera from central Formosa . . . [London] 1900.

308-309 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, sér. 7, vol. v, March 1900.

**Ganglbauer, Ludwig.** Bestimmungs-tabellen der europäischen coleopteren. VII. Cerambycidae. Bearb. von Ludwig Ganglbauer . . . (Mit tafeln xxii) (Vorgelegt in der versammlung am 2. november 1881) [Wien, 1881]

681-758 p. 1 pl. 22 $\frac{1}{2}$ <sup>cm</sup>.  
From Verhandlungen der K. K. zoologisch-botanischen gesellschaft. bd. 31.

— — VIII. Cerambycidae. (Schluss.) Mit berücksichtigung der formen Algiers und des paläarktischen Asiens, exclusive jener von Japan. Bearbeitet von Ludwig Ganglbauer . . . Mit zwei holzschnitten. (Vorgelegt in der versammlung am 7. november 1883) Wien [1884]

152 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.  
Aus den Verhandlungen der K. K. zoologisch-botanischen gesellschaft in Wien <jahrgang 1883> besonders abgedruckt.

**Goeldi, Emil August.** . . . A chrysalide de *Enoplocerus armillatus* L., em tamanho o segundo coleoptero conhecido . . . [Pará, 1897]

64-70 p. 2 pl. 25<sup>cm</sup>.  
From Boletim do Museu paraense de historia natural e ethnographia. vol. II, no. 1, maio 1897.

**Harrington, W. Hague.** . . . Ottawa Coleoptera—Cerambycidæ . . . Ottawa, 1899.

[57]-68 p. 23<sup>cm</sup>.  
Reprinted from the Ottawa naturalist, vol. III, no. 3, June 1899.

**Le Conte, John Lawrence.** Note on the classification of Cerambycidæ, with descriptions of new species. [Philadelphia, 1862]

38-43 p. 23 $\frac{1}{2}$ <sup>cm</sup>.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1862.

**Linell, Martin Lawson.** Descriptions of new species of North American Coleoptera in the families Cerambycidæ and Scarabæidæ . . . Washington, 1896.

cover-title, 393-401 p. 24<sup>cm</sup>.  
From the Proceedings of the United States national museum, vol. XIX, pages 393-401 <no. 1113>

**MacDougall, R. Stewart.** The life-history and habits of *Diaxenes dendrobii*, Gahan, with notes on prevention and remedy. [Edinburgh] 1900.

11 p. II pl. 24<sup>cm</sup>.  
Notes R. B. G. Edin. no. 1, 1900.

**Oberthür, René.** Les astathes (coléoptères cérambycides) et genres voisins de la collection du Muséum de Paris . . . [Paris] 1902.

2 p. 23<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n° 6, p. 423.

**Packard, Alpheus Spring.** Mode of oviposition of the common longicorn pine borer (*Monohammus confusor*) [Philadelphia, 1884]

1149-1151 p. 22<sup>cm</sup>.

From the American naturalist, November, 1884. vol. xviii.

**Pic, Maurice.** Coléoptères cérambycides recueillis au Japon par M. le Dr. Harmand . . . [Paris] 1901.

11 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1901, n° 2, p. 56.

**Pic, Maurice.** Description d'un Dorcadion de la Turquie d'Asie (Col.) . . . [Paris] 1902.

1 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n° 2, p. 93.

**Pictet, François Jules.** Note sur les organes respiratoires des capricornes. Par F.-J. Pictet . . . Lu à la Société de physique et d'histoire naturelle, le 3 septembre 1835. [Geneva, 1835]

[393]-398 p. pl. 24<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From Mémoires de la Société de physique et d'histoire naturelle de Genève. Tome VII. 1836.

**Popenoe, Edwin A.** Note on the oviposition of a wood-borer . . . [Тожека? 1889?]

15-16 p. 23<sup>cm</sup>.

From the Transactions of the twenty-second meeting of the Kansas academy of science. 1889. vol. xii.

**Semenov, Andreia Petrovich.** . . . Callipogon (*Eoxenus*) relictus, sp. n., представитель неотропического рода дровосѣжковъ (*Cerambycidae*) въ русской фаунѣ. [Callipogon (*Eoxenus*) relictus, sp. n., a representative of the neotropical family of capricorn beetles (*Cerambycidae*) in the Russian fauna] Санктпетербургъ [St. Petersburg] Типографія Императорской академіи наукъ [Printing house of the Imperial academy of sciences] 1899.

Agr 3—538

cover-title, 19 p. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

At head of title: Андрей Семеновъ.

Text partly in Russian, partly in Latin.

"Tiré des 'Horae Societatis entomologicae rossicae,' t. xxxii. Janvier 1899."

**Thomson, James.** Essai d'une classification de la famille des cérambycides et matériaux pour servir à une monographie de cette famille; par M. James Thomson . . . Paris, Auteur, 1860.

xvi, 396 p. III pl. 27<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Thomson, James.** Systema cerambycidarum, ou Exposé de tous les genres compris dans la famille des cérambycides et familles limitrophes, par M. James Thomson . . . [Liège, H. Dessain, etc. etc., 1866, pref. 1864]

2 p. 1., 538, [2] p. 23<sup>cm</sup>. (Mémoires de la Société royale des sciences de Liège, tome 19)

**Waterhouse, Charles Owen.** New species of the coleopterous genus *Prionocalus* from Ecuador and Peru . . . London, 1900.

[503]-506 p. illus. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. v, June, 1900.

**Webster, Francis Marion.** . . . Studies of the life history, habits, and taxonomic relations of a new species of *Oberea* (*Oberea ulmicola* Chittenden) . . . [Urbana, Illinois, 1904]

14 p. II pl. (I col.) 25<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From the Bulletin of the Illinois State laboratory of natural history. Vol. VII, article 1.



## CHRYSOMELIDÆ.

- Bates, Henry Walter.** The Colorado potato beetle . . . London, 1875.  
17 p. col. pl. 21 $\frac{1}{2}$ <sup>cm</sup>.  
From the Journal of the Royal agricultural society of England. vol. XI.—S. S. pt. II.
- Berg, Carlos.** . . . Notice sur les espèces du genre *Alurnus* F. appartenant à la faune argentine . . . [Buenos Aires] 1900.  
[252]—256 p. 23 $\frac{1}{2}$ <sup>cm</sup>.  
From Comunicaciones del Museo nacional de Buenos Aires. t. 1, N° 7.
- Blackburn, Thomas.** Revision of the genus *Paropsis* . . . [Sydney] 1896—98.  
pt. 1—3. 22<sup>cm</sup>.  
From the Proceedings of the Linnean society of New South Wales, 1896, pt. 4, p. 637—693; 1897, pt. 1, p. 166—189; 1898, pt. 2, p. 218—263.
- Briggs, Ella Marion.** . . . The life history of case bearers: 1. *Chlamys plicata*.  
By Ella Marion Briggs . . . Brooklyn, Brooklyn institute of arts and sciences, 1905.  
12 p. illus., col. pl. 25<sup>cm</sup>. (Cold Spring Harbor monographs. iv.)  
“Literature cited on *Chlamys plicata*.” p. 11.
- Burgess, Albert Franklin.** . . . The elm leaf beetle, a new and destructive shade tree pest in Ohio. By A. F. Burgess . . . Columbus, O., F. J. Heer, state printer, 1905.  
23 p. illus., 2 pl. 24<sup>cm</sup>. (Ohio, Department of agriculture. Division of nursery and orchard inspection. Bulletin no. 4)
- Chittenden, Frank Hurlbut.** Asparagus beetles. Washington, 1897.  
12 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Yearbook, 1896. p. 341—352)
- Chittenden, Frank Hurlbut.** Striped cucumber beetle (*Diabrotica vittata* Fab.) Washington, 1898.  
7 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 31)  
— — — Rev. ed. Washington, 1903.  
6 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 31)
- Clark, Hamlet.** Catalogue of Halticidæ in the collection of the British museum.  
By the Rev. Hamlet Clark. Physapodes and GEdipodes. Pt. I. London, Printed by order of the trustees, 1860.  
xii, 301, [10] p. front., 9 pl. 23<sup>cm</sup>.  
“Catalogues of the zoological collection in the British museum”: 8 p. at end.
- Crotch, George Robert.** . . . Materials for the study of the Phytophaga of the United States . . . [Philadelphia, 1873]  
19—83 p. 23<sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, 1873.
- Dallas, William Sweetland.** The Colorado potato beetle . . . [London, 1875]  
2—623 p. 22<sup>cm</sup>.  
From Littell's living age, v. 125.  
Article originally appeared in Popular science review, v. 14.
- Felt, Ephraim Porter.** . . . Elm-leaf beetle in New York state . . . Albany, University of the State of New York, 1898.  
43 p. illus. 5 (i. e. 6) pl. (1 col.) 25<sup>cm</sup>. (Bulletin of the New York state museum, vol. 5, no. 20. June, 1898)
- Felt, Ephraim Porter.** . . . Grapevine root worm, by Ephraim Porter Felt. . . Albany, University of the state of New York, 1903. 5—15567  
cover-title, 55 p. illus., 13 pl. (1 col.) 23<sup>cm</sup>. (New York state museum. Bulletin 72. Entomology 19)  
First edition issued as Bulletin 59.  
Bibliography: p. 47—49.
- Gerstaecker, Carl Eduard Adolph.** Der Colorado-käfer (*Doryphora decemlineata*) und sein austreten in Deutschland. Im auftrage des königl. preuszischen ministeriums für die landwirthschaftlichen angelegenheiten nach eigenen beobachtungen und amtlichen quellen dargestellt von Dr. A. Gerstaecker . . . Cassel, T. Fischer, 1877. Agr 5—518

**Giard, Alfred.** Une altise nuisible aux semis de betteraves (*Chætocnema tibialis* Illiger) Rennes, Paris, 1903]

2 p. 26<sup>cm</sup>.

Extrait de la Feuille des jeunes naturalistes, ser. iv, 34<sup>e</sup> année, n<sup>o</sup> 397.

**Girard, Maurice.** Renseignements pratiques et entomologiques sur l'eumolpe de la vigne . . . [Paris, 1877]

2 p. 22<sup>cm</sup>.

Extrait du Journal de la Société centrale d'horticulture de France. 2<sup>e</sup> série, t. xi, 1877, p. 119-120.

**Great Britain—Board of agriculture.** . . . The asparagus beetle (*Crioceris asparagi*) [London, 1898]

4 p. illus. 21½<sup>cm</sup>. (*Its Leaflet* no. 47)

**Great Britain—Board of agriculture.** . . . The Colorado beetle. *Doryphora* (*Leptinotarsa*) *decemlineata*, Say. [London, 1902]

4 p. col. pl. 21½<sup>cm</sup>. (*Its Leaflet* no. 71)

**Great Britain—Board of agriculture.** . . . The turnip "fly" or "flea." (*Phylotreta nemorum*.) [London, 1898]

4 p. illus. 21½<sup>cm</sup>. (*Its Leaflet* no. 3)

**Hale, Edwin Moses.** The Colorado potato-bug, *Doryphora* (*10-lineata*) . [Albany, 1867]

142-168 p. 4 col. pl. 23<sup>cm</sup>.

From Transactions of the New York state medical society.

**Kerchove de Denterghem, Oswald, comte de.** L'ennemi de la pomme de terre. Notice sur le *Doryphora decemlineata* . . . Bruxelles, 1875.

21 p. col. front. 25<sup>cm</sup>.

**Kessler, Hermann Friedrich.** Beobachtungen über *Galeruca viburni*, Payk. angestellt im jahr 1888 . . . [Cassel] 1889.

54-63 p. 22<sup>cm</sup>.

Separat-abdruck aus dem Bericht des Vereins für naturkunde vom jahre 1889.

**Kollar, Vincenz.** Zur naturgeschichte des ulmen-blattkäfer, *Galleruca xanthomelaena* Schrk. . . [Wien] 1858.

[29]-30 p. 22½<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. viii.

**Lacordaire, Jean Théodore.** Monographie des coléoptères subpentamères de la famille des phytophages. Par M. Th. Lacordaire . . . Bruxelles et Leipzig; [etc., etc.] 1845-48.

2 v. 23½<sup>cm</sup>. (Mémoires de la Société royale des sciences de Liège, tome 3<sup>me</sup> & tome 5<sup>me</sup>)

"Auteurs cités dans ce volume": v. 1, p. [v]-xiii. "Auteurs cités dans ce volume": v. 2, p. [iii]-vi.

**Le Conte, John Lawrence.** On the species of *Galeruca* and allied genera inhabiting North America [Philadelphia, 1865]

204-222 p. 24<sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. Oct. 1865.

**Lesne, Pierre.** Sur une espèce nouvelle de chrysomélide appartenant au genre *Corynodes* . . . [Paris] 1900.

[18]-19 p. illus. 23<sup>cm</sup>,

Extrait du Bulletin du Muséum d'histoire naturelle-1900, no. 1, p. 18.

**Linell, Martin Lawson.** . . . New species of Coleoptera of the family Chrysomelidæ, with a short review of the tribe Chlamydini . . . Washington, 1897.

cover-title, 473-485 p. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum vol. xx, pages 473-485. <no. 1130.>

**Marlatt, Charles Lester.** Imported elm leaf-beetle. *Galerucella luteola* Mull. (*Galeruca xanthomelaena* Schrank) Washington, 1895.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 8)

**Olivier, Ernest.** La chrysomèle des pommes de terre (*Doryphora decemlineata*) mœurs, histoire, moyens de destruction, par Ernest Olivier . . . 2. éd. Besançon, Imprimerie et lithographie de J. Jacquin, 1878.

34 p., 1 l. front. 18½<sup>cm</sup>.

1st ed. appeared in Annales de la Société d'agriculture de l'Allier, Sept. 1877.

- Olivier, Ernest.** Le Doryphora (Leptinotarsa) decemlineata. [Moulins, 1897]  
16 p. pl. 21<sup>cm</sup>.  
Extrait du Bulletin de la Société d'agriculture de l'Allier.
- Ormerod, Eleanor Anne.** A lecture on turnip fly, with methods of prevention and remedy, delivered at the Royal agricultural college, Cirencester . . . London, 1882.  
22 p. illus. 18<sup>1</sup>/<sub>2</sub><sup>cm</sup>.
- Osburn, W.** The cottonwood leaf beetle (Plagioderia scripta Fabr.) . . . [Topeka 1875]  
24-25 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.  
From the Transactions of the Kansas academy of science, vol. iv.
- Philippi, Federico.** Escrecencias de la vid. See under Lasiocampidæ, p. 347.
- Preudhomme de Borre, Alfred i. e. Carl Franz Paul Alfred.** Du Doryphora decemlineata . . . Bruxelles, 1875.  
4 p. 23<sup>cm</sup>.
- Prussia—Ministerium für die landwirthschaftlichen angelegenheiten.** Der kartoffelkäfer, Chrysomela (Doryphora) decemlineata . . . Berlin, 1875.  
15 p. col. front., fold. map. 22<sup>cm</sup>.
- Reuter, Enzo.** . . . Angrepp på sädesslag af larven till Phyllotreta vittula Redtb. . . . [Helsingfors, 1902]  
[72]-75 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.  
Särtryck ur "Meddelanden af Societas pro fauna et flora fennica" h. 28 (1902).
- Riley, Charles Valentine.** Imported elm leaf-beetle; its habits and natural history, and means of counteracting its injuries. Washington, 1885.  
18 p. illus., pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 6)  
— — — Ed. 2. Washington, 1891.  
21 p. illus., pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 6)
- Rogers, W. Frederick.** Synopsis of species of Chrysomela and allied genera inhabiting the United States . . . [Philadelphia, 1856]  
29-39 p. pl. 24<sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, vol. vii.
- Rosenhauer, Wilhelm Gottlob.** Ueber die entwicklung und fortpflanzung der clythren und cryptocephalen, einer insektengruppe aus der ordnung der Coleoptera. Von Wilhelm Gottlob Rosenhauer . . . Erlangen, T. Blaesing, 1852.  
vi, [7]-34 p. pl. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.
- Sajó, Karl.** . . . A vetésfehéritő bogár (Lema melanopus L.) . . . Budapest, 1894.  
31 p. illus. 23<sup>cm</sup>. (A M. K. állami rovar-tani állomás közleményei, i. kötet, 10. füzet)
- Saunders, William.** Report of an inquiry in regard to the prevalence and ravages of the Colorado potato beetle, Doryphora decim-lineata—Say, in the western portion of Ontario, with the results of some experiments on the insect with various poisonous substances, and instructions for using the best practical remedies. By William Saunders, and Edmund Baynes Reed . . . Toronto, 1871.  
14 p. illus. 21<sup>cm</sup>.
- Shiple, Arthur Everett.** Report on beetles destructive to rice crops in Burma. [Calcutta? Government of India central printing office, 1889]  
3 p. 34<sup>cm</sup>.
- Stål, Carl.** Monographie des chrysomélides de l'Amérique, par C. Stål . . . Upsal, C. A. Leffler, 1862-65. Agr 3—986  
3 pts. in 1 v. 27<sup>1</sup>/<sub>2</sub><sup>cm</sup>.  
Paged continuously; 365 p.  
"Libri citati et explicatio abbreviationum": p. 347-349.  
Extrait des Actes de la Société royale des sciences d'Upsal, série III, t. IV-V.

**Stål, Carl.** Om Colorado-skalbaggen (*Chrysomela decemlineata*) en för potatisodlingen högst skadlig nordamerikansk insekt, och om hans befarade öfverförande till Europa . . . Stockholm, 1875.

21 p. illus. 19½<sup>cm</sup>.

**Taché, J. C.** La mouche ou la chrysomèle des patates (*Chrysomela decemlineata*) et le moyen d'en combattre les ravages, par J.-C. Taché. Montreal, La compagnie de lithographie Burland-Desbarats, 1877.

38 p. col. front. 22<sup>cm</sup>.

**Webster, Francis Marion.** Studies of the development of *Fidia viticida* Walsh, with descriptions of one new genus and two new species of Hymenoptera, by Wm. H. Ashmead . . . [Cincinnati, 1894]

[159]-172 p., 1 l. pl. 22½<sup>cm</sup>.

Reprint from the Journal of the Cincinnati society of natural history, Oct., 1894.

**Wickham, Henry Frederick.** On the early stages of some Carabidæ and Chrysomelidæ. See under Carabidæ, p. 205.

**Wilson, Andrew.** The Colorado potato beetle illustrated and described by Dr. Andrew Wilson . . . Edinburgh and London, W. & A. K. Johnston, 1877.

16 p. 2 col. fronts. 21½<sup>cm</sup>.

#### HISPIDÆ.

**Baly, Joseph Sugar.** Catalogue of Hispidæ in the collection of the British museum. By Joseph S. Baly . . . Pt. I. London, Printed by order of the trustees, 1858.

Agr 4-3477

x, 172, [1], 8 p. 9 pl. 23<sup>cm</sup>.

No more published.

"Catalogues of the zoological collection in the British museum": 8 p., at end.

**Branden, Constant van den.** Énumération des coléoptères phytophages. See below under Cassididæ.

#### CASSIDIDÆ.

**Boheman, Carl Henrik.** Catalogue of coleopterous insects in the collection of the British museum. Pt. IX. Cassididæ. By Charles H. Boheman . . . London, Printed by order of the trustees, 1856.

Agr 4-3483

2 p. l., 225 p. 18<sup>cm</sup>.

**Boheman, Carl Henrik.** Monographia cassidarum. Auctore Carolo H. Boheman. Holmiæ, ex officina Norstedtiana, 1850-62.

Agr 3-323

4 v. VII pl. 22<sup>cm</sup>.

"Libri citati et explicatio abbreviationum": v. 3, p. 529-535.

Dates of publication: tomus 1, 1850; tomus 2, 1854; tomus 3, 1855; tomus 4 (supplementum), 1862.

**Branden, Constant van den.** Énumération des coléoptères phytophages décrits postérieurement au catalogue de MM. Gemminger et de Harold. Hispidæ et cassididæ, par C. van den Branden. [n. p., 1885?]

16 p. 22½<sup>cm</sup>.

From the Mémoires de la Société royale des sciences de Liège. ser. II., tome XI, no. 10.

**Gravenhorst, Johann Ludwig Carl.** Beobachtungen über die verwandlung der schildkäfer (Cassida). Von Dr. J. L. C. Gravenhorst und Dr. H. Scholtz . . . Bei der Akademie eingegangen den 6. april 1841. [Halle, 1842]

1 p. l., 431-440 p. pl. 30½<sup>cm</sup>.

Plate wanting.

#### BRUCHIDÆ.

**Rivera, Manuel J.** . . . El bruco de las arvejas (*Bruchus pisi*) desarrollo i medios de combatirlo, por Manuel J. Rivera . . . Valparaiso, Imprenta Gillet, 1904.

20 p. illus. 23<sup>cm</sup>.

At head of title: Instituto agrícola.

"Literatura": p. 19-20.

## TENEBRIONIDÆ.

**Blackburn, Thomas.** . . . Revision of the Australian Amarygmides . . . [Sydney] 1892-93.

pt. 1-2. 21½<sup>em</sup>.

From Proceedings of the Linnean society of New South Wales, ser. 2, vol. VII, p. 411-470; vol. VIII, p. 53-106.

CONTENTS.—pt. 1-2. The genus Chalcopteris.

**Chittenden, Frank Hurlbut.** Two new species of beetles of the tenebrionid genus *Echocerus* . . . [Washington, 1896]

79-80 p. 24½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XVIII—no. 1041.

**Hayward, Roland.** Habits and transformations of *Bolitotherus bifurcus* Fab. [Boston, 1882]

35-36 p. 22<sup>em</sup>.

From the Journal of the Boston zoological society, vol. I, no. 3.

**Horn, George Henry.** . . . On the revision of the Tenebrionidæ of America, north of Mexico. By Geo. A. Horn . . . Philadelphia, Published by the Society, [etc., etc.] 1870.

cover-title, [253]-404 p. XIV-XV pl. 29½<sup>em</sup>. (Transactions of the American philosophical society, held at Philadelphia, for promoting useful knowledge. vol. XIV.—New series. Pt. II)

**Le Conte, John Lawrence.** . . . Note on the species of *Eleodes* found within the United States . . . [Philadelphia, 1859]

180-188 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philada., October, 1858.

**Lesne, Pierre.** Description d'un coléoptère nouveau de la famille des ténébrionides (*Centorus Bedeli* n. s.) . . . [Paris] 1895.

2 p. illus. 25<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1895, n° 3.

**Mäklin, Friedrich Wilhelm.** Monographie der gattung *Strongylium* Kirby, Lacordaire und der damit zunächst verwandten formen, von F. W. Mäklin. (Vorgetragen d. 18. april 1864) [Helsingfors, 1867]

Agr 3—984

[107]-410 p. 4 pl. 27½<sup>em</sup>.

From Societas scientiarum fennica. Acta. v. 8, 1867.

**Reitter, Edmund.** Bestimmungs-tabelle der unechten pimeliden aus der palæarctischen fauna. xxv. hft. Bearb. von Edmund Reitter . . . Brünn, 1893.

1 p. 1., [201]-250 p. 23<sup>em</sup>.

Sonderabdruck aus dem XXXI. bd. der Verhandlungen des Naturforschenden vereines in Brünn.

## OEDEMERIDÆ.

**Ganglbauer, Ludwig.** Bestimmungs-tabellen der europäischen coleopteren. Iva. Oedemeridæ, bearb. von Ludwig Ganglbauer . . . (Vorgelegt in der versammlung am 9. februar 1881) [Wiên, 1881]

57-116 p. 22½<sup>em</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft, bd. 31.

## MORDELLIDÆ.

**Dury, Charles.** . . . Mordellidæ in the vicinity of Cincinnati, Ohio . . . Cincinnati, 1893.

123-126 p. 24<sup>em</sup>.

From the Journal of the Cincinnati society of natural history, Oct. 1892, Jan. 1893.

**Le Conte, John Lawrence.** Synopsis of the Mordellidæ of the United States . . . [Philadelphia, 1862]

43-51 p. 23½<sup>em</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1862.

## RHIPIPHORIDÆ.

**Gerstaecker, Carl Eduard Adolph.** Rhipiphoridum coleopterorum familiae dispositio systematica. Auctore A. Gerstaecker. Berolini, In libraria F. Nicolai, 1855. Agr 4—3539

2 p. l., 86 p. pl. 29<sup>em</sup>.

**Lesne, Pierre.** Note sur deux espèces françaises de coléoptères du genre Rhipidius . . . [Paris] 1902.

3 p. illus. 23<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n° 6, p. 420.

## ANTHICIDÆ.

**Pic, Maurice.** Anthicidæ et Pedilidæ (Coléoptères hétéromères) recueillis au Sikkim par M. Harmand, et offerts par lui au Muséum d'histoire naturelle . . . [Paris] 1899.

4 p. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1899, n° 2, p. 76.

**Pic, Maurice.** Anthicides (Col. hétéromères) africains nouveaux des collections du Muséum de Paris . . . [Paris] 1898.

5 p. 24½<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1898, n° 2, p. 67.

**Pic, Maurice.** Anthicides nouveaux des collections du Muséum de Paris <Col.> . . . [Paris] 1903.

2 p. 23¼<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1903, n° 1, p. 20.

**Pic, Maurice.** Diagnoses de ptinides et anthicides. See under Ptinidæ, p. 218.

**Wasmann, Eric.** Einige neue myrmecophile anthiciden aus Indien [Wien, 1898]

3 p. 22<sup>em</sup>.

"Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1898> besonders abgedruckt."

## PYROCHROIDÆ.

**Le Conte, John Lawrence.** Synopsis of the Pyrochroides of the United States . . . [Philadelphia, 1855]

270-276 p. 23¼<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. vol. VII,

## MELOIDÆ.

**Beauregard, Henri.** Note sur quelques particularités du développement de la cantharide. [Paris, 1885]

455-457 p. 23¼<sup>em</sup>.

On cover: Association française pour l'avancement des sciences, Congrès de Grenoble 1885.

**Beauregard, Henri.** Sur le développement des Cerocoma Schreberi et Stenoria apicalis . . . [Paris, 1884]

3 p. 27<sup>em</sup>.

From Comptes rendus des séances de l'Académie des sciences, Paris, vol. 99, p. 148-151.

**Beauregard, Henri.** Sur le mode de développement de l'Epicanta verticalis . . . Paris, 1885.

3 p. 27<sup>em</sup>.

From Comptes rendus des séances de l'Académie des sciences, Paris, vol. 101, p. 754-756.

**Beauregard, Henri.** Sur le mode de développement naturel de la cantharide . . . Paris, 1885.

4 p. 27<sup>em</sup>.

From Comptes rendus des séances de l'Académie des sciences, Paris, vol. 100, p. 1472-1475.

**Brandt, Johann Friedrich.** Monographia generis meloes. Auctoribus Dr. F. J. Brandt et W. F. Erichson . . . (Academiae trad. d. 23. Aug. a. 1831.) [Halle, 1832]

1 p. l., [108]—142 p. col. pl. 29<sup>cm</sup>.

From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. vol. xvi.

**Brauer, Friedrich.** Ueber die Verwandlung der meloiden . . . [Wien, 1887]  
633—642 p. 23<sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen Gesellschaft in Wien, vol. xxxvii.

**Cuénot, Lucien.** Les insectes vésicants et le rôle biologique de la cantharidine. [Paris, 1890]

227—229 p. illus. 23½<sup>cm</sup>.

From Le Naturaliste, ser. 2, no. 86, 1890.

**Dugès, Eugène.** Note pour servir à la classification des meloïdes du Mexique . . . [Paris, 1886]

5 p. 25<sup>cm</sup>.

Extrait du Bulletin de la Société zoologique de France, t. xi, 1886.

**Dwight, Nathaniel.** An account of the American Cantharis, or Meloe Americæ . . . [New Haven, 1810]

89—102 p. 23<sup>cm</sup>.

From Memoirs of the Connecticut academy of arts and sciences, vol. i, 1810.

**Horn, George Henry.** Notes on Calospasta Lec. . . . [Philadelphia] 1891.

99—102 p. 23½<sup>cm</sup>.

Reprinted October 27, 1891, from Proc. Amer. Philos. Soc. vol. xxix.

**Lichtenstein, Jules i. e. Wilhelm August Jules.** Sur les métamorphoses de la cantharide (*Lytta vesicatoria* Fabric.) . . . [Montpellier?] 1879.

122—124 p. 26<sup>cm</sup>.

From Union des écoles. 1<sup>re</sup> année, no. 16.

**Procházka, Wladimir Johannes.** Bestimmungstabelle der europäischen coleopteren: [xxx. hft.] Cantharidae. II. th.: Genus Danacaea . . . Bearb. von Joh. Procházka . . . Brünn, Verlag des verfassers, 1894.

1 p. l., [7]—34 p., 1 l. pl. 23<sup>cm</sup>.

Sonderabdruck aus dem xxxiii. bd. der Verhandlungen des Naturforschenden vereines in Brünn.

**Reitter, Edmund.** Bestimmungstabelle der europäischen coleopteren: [xxix. hft.] Cantharidae. I. th.: Drilini . . . Bearb. von Edmund Reitter . . . Paskau, Verlag des verfassers, 1894.

8 p. 23<sup>cm</sup>.

**Riley, Charles Valentine.** On a remarkable new genus in Meloidae infesting mason-bee cells in the United States . . . [St. Louis, 1878]

20—22 p., 1 l. pl. 23½<sup>cm</sup>.

From the Transactions of the Academy of science of St. Louis, vol. III, no. 4, p. 563—565.

**Riley, Charles Valentine.** On the larval characters and habits of the blister-beetles belonging to the genera *Macrobasis* Lec. and *Epicauta* Fabr.; with remarks on other species of the family Meloidæ . . . [St. Louis] 1878.

19 p. illus., pl. 23½<sup>cm</sup>.

From the Transactions of the St. Louis academy of sciences. vol. 3, no 4, p. 544—562.

#### RHYNCHOPHORA.

**Bargagli, Piero, marchese.** . . . Rassegna biologica di rincofori Europei. Firenze, Tipografia Cenniniana, 1833—84 [1883—87]

424 p. 23½<sup>cm</sup>.

“Estratto dal Bulletin della Società entomologica italiana, vol. xv, xvi, xvii, xviii, xix. Firenze, 1883—1887.”

**Le Conte, John Lawrence.** . . . On the systematic value of rhynchophorous Coleoptera . . . [New Haven, 1867]

3 p. illus. 23<sup>cm</sup>.

From the American journal of science and arts, ser. 2, vol. XLIV, July, 1867.

An abstract of a memoir read before the National academy of sciences, at Washington, Jan. 24th, 1867.

**Le Conte, John Lawrence.** The Rhynchophora of America, north of Mexico. By John L. Le Conte, assisted by George H. Horn. [Philadelphia, 1876] xvi, 455 p. 23 $\frac{1}{2}$ cm. (Proceedings of the American philosophical society. vol. xv. Dec. 1876. no. 96)

## OTIORHYNCHIDÆ.

**Boas, Johan Erik Vesti.** Et skadedyr paa unze æbletræer . . . <Kjøbenhavn, 1898?]

2 p. illus. 31cm.

Særtryk af Gartner-tidende, vol. xiv.

**Stierlin, W. Gustav.** Bestimmungstabellen europäischer coleoptern. ix. Curculionidæ. [Otiorynchini] Bearb. von Dr. Gustav Stierlin . . . [Schaffhausen, 1883]

248 p. 22 $\frac{1}{2}$ cm.

Separat-abdruck aus den Mittheilungen der Schweiz. entomologischen gesellschaft, bd. 6, doppelh. 8, 9. januar 1883.

**Stierlin, Gustav, i. e., W. Gustav.** Tableaux analytiques pour la détermination des coléoptères européens. ix. Curculionidæ [Otiorynchini] par le Dr. Gustav Stierlin. Tr. des Bestimmungstabellen der europäischen coleopteren, par M. C. Marchal. [Bruxelles, 1894-1902]

152 p. 25cm.

Caption title.

Issued with Miscellanea entomologica.

## CURCULIONIDÆ.

**Aurivillius, Per Olof Christopher.** . . . Conspectus generum et specierum brachyceridarum. Öfversigt af släkten och arter inom familjen Brachyceridæ bland curculioniderna . . . [Stockholm, 1885]

5-24 p. 21 $\frac{1}{2}$ cm.

Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1885, no. 7.

**Aurivillius, Per Olof Christopher.** . . . Curculionines, par M Chr. Aurivillius . . . [Paris, n. d.]

[205]-224 p. illus. 33cm.

At head of title: Collection d'insectes formée dans l'Indo-Chine par M. Pavie . . . Coléoptères curculionides.

From Nouvelles archives du Muséum d'histoire naturelle de Paris, 3<sup>e</sup> ser., III.

**Aurivillius, Per Olof Christopher.** . . . Revisio monographica microceridarum et protomantinarum. Försök till en monografisk bearbetning af curculionid-grupperna Microceridæ och Protomantinae af Christopher Aurivillius . . . Till Kongl. Vetenskapsakademien inlemnad den 16 september 1885. Stockholm, Kongl. boktryckeriet, P. A. Norstedt & söner, 1887.

Agr 4-3473

87, [20] p. illus., 10 pl. 30 $\frac{1}{2}$ cm. (Kongl. Svenska vetenskaps-akademiens handlingar. bandet 21, no. 15)

**Berg, Carlos.** El género Rhyephenes Schönh. en la República Argentina . . . [Buenos Aires] 1899.

[151]-154 p. 24cm.

From Comunicaciones del Museo nacional de Buenos Aires, t. I, no. 5.

**Blandford, Walter Fielding Holloway.** The palm weevil (Rhynchophorus palmarum) in British Honduras, its life-history, habits, and economic features . . . London, 1893.

36 p. 2 pl. 25cm.

Reprinted, by permission, from the Kew bulletin, February-March 1893, p. 27-60.

Bibliography: p. 34-35.

**Boas, Johan Erik Vesti.** Et angreb af snudebillen Cionus fraxini. [Kjøbenhavn, 1897?]

[144]-151 p. 20cm. (Skoven og dyrelivet 57)

Særtryk af Tidsskrift for skovvæsen, IX, A.



- Boas, Johan Erik Vesti.** Om et angreb af snudebillen *Cryptorhynchus lapathi* paa Pil. [Kjøbenhavn, n. d.]  
14-17 p. 20<sup>em</sup>. (Skoven og dyrelivet 2)  
Særtryk af "Tidsskrift for skovvæsen," I. bd.
- Cook, Orator Fuller.** An enemy of the cotton boll weevil. *See under Formicidæ*, p. 168.
- Cook, Orator Fuller.** Report on the habits of the kelep. *See under Formicidæ*, p. 168.
- Decaux, François.** Insecte nuisible aux pommiers et aux poiriers. *L'Anthonomus pomorum* L. Ses mœurs, avec de nouvelles remarques sur sa nymphose. Moyen rationnel de destruction . . . Paris, 1891.  
6 p. 24 $\frac{1}{2}$ <sup>em</sup>.  
Extrait de la Revue des sciences naturelles appliquées, no. 6, 20 mars 1891.
- French, Charles.** . . . The apple-root borer. *Leptops Hopei*, Fahrs. Order: Coleoptera. Family: Curculionidæ. [Melbourne, 1902]  
404-408 p. col. pl. 25<sup>em</sup>.  
From the Journal of the Department of agriculture of Victoria, April, 1902, vol. I.
- Great Britain—Board of agriculture.** . . . The apple blossom weevil (*Anthonomus pomorum*) [London, 1893]  
[75]-78 p. illus. 24 $\frac{1}{2}$ <sup>em</sup>. (*Its* [Leaflet] 1893 [no.] 15)  
— [London, 1898]  
4 p. illus. 21 $\frac{1}{2}$ <sup>em</sup>. (*Its* Leaflet no. 15)
- Great Britain—Board of agriculture.** . . . The pea and bean weevil (*Sitona lineatus*) [London, 1898]  
2 p. illus. 21<sup>em</sup>. (*Its* Leaflet no. 19)
- Great Britain—Board of agriculture.** . . . Vine and raspberry weevils. The black or vine weevil (*Otiorynchus sulcatus*, Fab.) The clay-coloured or raspberry weevil (*Otiorynchus picipes*, Fab.) [London, 1894]  
4 p. illus. 22 $\frac{1}{2}$ <sup>em</sup>. (*Its* [Leaflet] 1894, [no.] 2)  
— [London, 1898]  
4 p. illus. 21 $\frac{1}{2}$ <sup>em</sup>. (*Its* Leaflet no. 2)
- Henneguy, Louis Felix.** Rapport sur l'histoire naturelle de l'anthonome du pommier et sur les moyens proposés pour sa destruction . . . Paris, 1891.  
15 p. 27 $\frac{1}{2}$ <sup>em</sup>.  
Extrait du Bulletin du Ministère de l'agriculture, vol. x.
- Horn, George Henry.** . . . Contributions to a knowledge of the Curculionidæ of the United States. [Philadelphia, 1873]  
407-469 p. 23<sup>em</sup>.  
From the Proceedings of the American philosophical society. vol. XIII.
- Howard, Leland Ossian.** Mexican cotton-boll weevil (*Anthonomus grandis* Boh.). [Washington, 1905]  
5 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 6)  
— Rev. ed. [Washington, 1896]  
8 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 14)  
— Rev. ed. [Washington, 1897]  
8 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 18)  
No. 18 also published in Spanish.
- Howard, Leland Ossian.** Mexican cotton-boll weevil in 1897. Washington, 1897.  
7 p. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 27)
- Howard, Leland Ossian.** Remedial work against the Mexican cotton-boll weevil. Washington, 1898.  
6 p. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 33)  
"Supplementary to Circulars 18 and 27."
- Hunter, Walter David.** Information concerning the Mexican cotton-boll weevil. Washington, 1904.  
31 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 189)

**Hunter, Walter David.** Methods of controlling the boll weevil; advice based on the work of 1902. Washington, 1903.

16 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 163)

**Hunter, Walter David.** Mexican cotton boll weevil. Prepared under the direction of the Entomologist by W. D. Hunter and W. E. Hinds. Washington, 1904.

116 p. illus., 16 pl. 22<sup>em</sup>. (U. S. Agriculture, Department of—Entomology, Division of. Bulletin no. 45)

**Hunter, Walter David.** The most important step in the cultural system of controlling the boll weevil. [Washington, 1904]

7 p. 22<sup>em</sup>. (U. S. Agriculture, Department of—Entomology, Bureau of. Circular no. 56)

**Hunter, Walter David.** Present status of the Mexican cotton-boll weevil in the United States. Washington, 1902. (U. S. Agriculture, Dept. of. Yearbook, 1901. p. 369-380. illus.)

**Hunter, Walter David.** Status of the Mexican cotton boll-weevil in the United States in 1903. (U. S. Agriculture, Dept. of. Yearbook, 1903. Washington, 1904. p. 205-214. illus., 5 pl.)

**Imhoff, Ludwig.** Singulorum generum curculionidum unam alteramve speciem additis iconibus a David Labram ad naturam delineatis illustravit L. Imhoff, Med. Dr. Die gattungen der rüsselkäfer erläutert durch bildliche darstellung einzelner arten von David Labram. Nach anleitung und mit beschreibungen von Dr. L. Imhoff. Basel, Schweighauser'sche buchhandlung, 1838-42. Agr 4-1777

2 v. in 1. 152 col. pl. 19<sup>em</sup>.

Issued in 19 fasc., 1838-52 (?)

**Jablonowski, József.** Útmutatás a répbogarak. (Cleonus punctiventris Germ. és Cleonus sulcirostris L.) írtására. [Budapest, 1898]

6 p. illus. 23<sup>em</sup>.

**Le Conte, John Lawrence.** Analytical table of the species of *Baridius* inhabiting the United States. . . [Philadelphia, 1868]

361-382 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia. Dec. 1868.

"Bibliography and remarks": p. 382.

**Le Conte, John Lawrence.** Note on the genus *Lithodius* Schonherr [Philadelphia, 1856]

18-19 p. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, vol. viii.

**Lesne, Pierre.** Description de la larve et de la nymphe du charançon de la noix de kola (*Balanogastrius kolæ* Desbr.) . . . [Paris] 1898.

140-147 p. illus. 24<sup>em</sup>.

Extrait du Bulletin du Museum d'histoire naturelle. 1898, n° 3.

**Mally, Frederick William.** Mexican cotton-boll weevil. Washington, 1901. 29 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 130)

**Mally, Frederick William.** A preliminary report of progress of an investigation concerning the life, history, habits, injuries and methods for destroying the Mexican cotton boll weevil (*Anthonomus grandis*) . . . [By] Frederick W. Mally . . . Austin [Tex.] Von Boeckmann, Schutze & co., state printers, 1901.

45 p. 22½<sup>em</sup>.

"Supplementary report of an investigation of the Mexican boll weevil": p. [35]-45.

**Mexico—Secretaría de fomento, colonización é industria.** El picudo (*Anthonomus grandis*. Boh.) Documentos referentes á su existencia en México y á su invasión en los Estados Unidos del norte. México, Oficina tip. de la Secretaría de fomento, 1897.

100 p. illus. 22½<sup>em</sup>.

**Olliff, Arthur Sidney.** Some Australian weevils or snout-beetles . . . [Sydney, 1895]

258-261 p. pl. 25<sup>em</sup>.

From the Agricultural gazette of New South Wales. vol. vi, 1895.

**Peck, William Dandridge.** On the insects which destroy the young branches of the pear-tree, and the leading shoot of the Weymouth-pine . . . [Boston] 1817.

[205]-211 p. 2 pl. 23<sup>om</sup>.

From Massachusetts agricultural journal, vol. IV, no. III, January, 1817.

**Ransom, W. B.** An essay on the natural habits and mode of destroying the Curculio, delivered by W. B. Ransom . . . before the Berrien county horticultural association, February 25, 1871.

8 p. 21 $\frac{1}{2}$ <sup>om</sup>.

**Ridley, Henry Nicholas.** Report on the destruction of coco-nut palms by beetles. See p. 86.

**Riley, Charles Valentine.** The plum curculio. (*Conotrachelus nenuphar*, Herbst.) Order Coleoptera; family Curculionidæ. By C. V. Riley and L. O. Howard. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1888. Washington, 1889. p. 57-77. 2 pl.)

**Schoenherr, Carl Johann.** Genera et species curculionidum, cum synonymia hujus familiæ; a C. J. Schoenherr. Species novae aut hactenus minus cognitæ, descriptionibus a Dom. Leonardo Gyllenhal, C. H. Boheman, et entomologis aliis illustratæ . . . Parisiis, Roret, 1833-45. Agr 3-812

8 v. 20 $\frac{1}{2}$ <sup>om</sup>.

Each vol. consists of two parts, each having t.-p. as above with minor variations and, with the exception of toms 3, pars. 1, and toms 7, pars. 2, each part having half t.-p.: *Synonymia insectorum; genera et species curculionidum.*

Tomus I has an added t.-p.: *Synonymia insectorum oder Versuch einer synonymie aller von mir bisher bekannten insecten; von C. J. Schoenherr . . . Mit berichtigungen und anmerkungen, wie auch mit beschreibungen neuer arten.* Erster band. Eleutherata oder käfer. Vierter theil. Fam. Curculionides. Paris, Roret, 1833.

Tomus II has added t.-p.: *Synonymia insectorum oder Versuch einer synonymie aller von mir bisher bekannten insecten; von C. J. Schoenherr . . . Mit berichtigungen und anmerkungen, wie auch mit beschreibungen neuer arten.* Zweyter band. Eleutherata oder käfer. Vierter theil, zweite abtheilung. Fam. Curculionides. Paris, Roret, 1834.

Imprint of toms I, pars II-tomus 8: Parisiis, Roret; Lipsiæ, F. Fleischer, 1833-45.

**Schoenherr, Carl Johann.** Mantissa secunda familiæ curculionidum seu Descriptiones novorum quorundam generum curculionidum, a C. J. Schönherr. Holmiæ, typis Norstedt et filii, 1847. Agr 4-3602

1 p. l., 86 p. 21<sup>om</sup>.

**Sharp, David.** Description of a new genus and species of rhynchophorous Coleoptera . . . [London] 1891.

[150]-152 p. 22<sup>om</sup>.

From the Annals and magazine of natural history for January, 1891.

**Stelle, J. Parish.** All about the plum curculio; with full instructions for producing plums, peaches, and other stone fruits, entirely clear of worms . . . A paper read at the Fifth annual exhibition of the Fruit growers' association of the Gulf states, held in New Orleans, July 17th, 18th, and 19th, 1878. Ed. 2. Mobile, 1880.

14 p. 23<sup>om</sup>.

**Theobald, Frederick Vincent.** The apple-blossom weevil (*Anthonomus pomorum*), and suggestions for its destruction, together with a list of other beetles injurious to the apple, also the method of preparing the new insecticide arsenate of lead . . . Ashford & London [1897]

15 p. illus. 21 $\frac{1}{2}$ <sup>om</sup>.

**Webster, Francis Marion.** Experiments in rearing the plum curculio (*Conotrachelus nenuphar*) from plums and other fruits. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1888. Wash., 1889. p. 78-79)

**Webster, Francis Marion.** . . . The imported willow and poplar curculio. *Cryptorhynchus lapathi* Linn . . . Columbus, 1901.

12 p. illus. 23 $\frac{1}{2}$ <sup>om</sup>.

Reprinted from the Journal of the Columbus horticultural society, vol. XVI, no. 4.

## BRENTHIDÆ.

**Berg, Carlos.** . . . *Brenthis cytheris* y *Brenthis dexamene* . . . [Buenos Aires] 1899.

[110]-115 p. 1 pl. 24<sup>em</sup>.

Comunicaciones del Museo nacional de Buenos Aires. T. I, N° 4, Ps. 110 á 115. 29 de septiembre de 1899.

**Tryon, Henry.** . . . The sweet potato weevil (*Cylas turcipennis*, Bohm.; *C. formicarius*, auct. nec Fabr.) . . . Brisbane, 1900.

176-189 p. xv-xvi pl. 25<sup>em</sup>.

From the Queensland agricultural journal, vol. VII, August 1, 1900.

"Bibliography": p. 188-189.

## CALANDRIDÆ.

**Aurivillius, Per Olof Christopher.** . . Die mit oxyopisthen Thomson verwandten, afrikanischen gattungen der calandriden [Stockholm, 1891]

[361]-371 p. 21<sup>4em</sup>.

Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1891. N:o 6.

**Burmeister, Hermann Carl Conrad.** Ueber die gattung *Calandra*, abhandlung des oberlehrers Dr. Burmeister . Berlin, Gedruckt in der Nauckschen buchdruckerei, 1837.

cover-title, 24 p. pl. 24<sup>em</sup>.

From the Programm des Real-gymnasiums in Berlin, 21. März 1836.

**Jablonowski, József.** Utmutatás a gabonaszizsik (*Calandra granaria* L.) irtására. [Budapest, 1898]

[43]-46 p. illus. 23<sup>em</sup>.

## SCOLYTIDÆ.

**Atkinson, George Francis.** Notes on the orchard scolytus (*Scolytus rugulosus* Ratz.) [Raleigh, 1886]

74-75 p. 23<sup>4em</sup>.

From the Journal of the Elisha Mitchell society, 1885-86.

**Barber, Charles Alfred.** . . Report on an outbreak of shot-borer in St. Kitts sugar estates, 1892-3. By C. A. Barber [St. John's, Antigua, W. I., 1893]

cover-title, [72]-87 p. 27<sup>4em</sup>.

At head of title: Supplement to the Leeward Islands gazette.

**Barbey, Auguste.** . . . Les scolytides de l'Europe centrale; étude morphologique et biologique de la famille des bostriches en rapport avec la protection des forêts, à l'usage des forestiers, des horticulteurs et des entomologistes . . . Genève; H. Kündig; [etc., etc.] 1901.

4 p. l., 121 p., 19 l. 18 pl. 37<sup>4em</sup>.

"Index bibliographique:" p. [117]-118.

**Boas, Johan Erik Vesti.** Et angreb af *Hylesinus piniperda*. [Kjøbenhavn, 1897?]

151-157 p. 3 pl. 20<sup>em</sup>. (Skoven og dyrelivet 58)

Særtryk af Tidsskrift for skovvæsen, IX, A.

**Boas, Johan Erik Vesti.** Typografens optræden i Gribskov i de sidste aar. Iagttagelser og bemærkninger . . . [Kjøbenhavn, 1901]

[211]-229 p. fold. plan. 21<sup>em</sup>.

From Tidsskrift for skovvæsen, XIII, B.

**Boas, Johan Erik Vesti.** Yderligere bemærkninger om *Hylesinus piniperda*'s indvirkning paa fyrrens udseende og form. [Kjøbenhavn, 1899]

[40]-45 p. 3 pl. (1 fold.) 21<sup>em</sup>. (Skoven og dyrelivet. 61)

**Cane grubs.** Brisbane, 1899.

133-138 p. 25<sup>em</sup>.

From the Queensland agricultural journal, vol. v.

- Chapuis, Félicien.** Monographie des platypides, par F. Chapuis . . . Liège, Impr. de H. Dessain, 1865. Agr 4—3508  
vi, [7]—344, 25 p. 24 pl. 23½<sup>em</sup>.
- Chapuis, Félicien.** . . . Synopsis des scolytides . . . [Liège, 1873]  
[213]—269 p. 23½<sup>em</sup>.  
From Mémoires de la Société royale des sciences de Liège, sér. 2, vol. III.
- Chittenden, Frank Hurlbut.** Fruit-tree bark-beetle (*Scolytus rugulosus* Ratz.). Washington, 1898.  
8 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 29)  
— — — Rev. ed. Washington, 1903.  
8 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 29)
- Eichhoff, Wilhelm Josef.** Die europäischen borkenkäfer. Für forstleute, baumzüchter und entomologen, bearb. von W. Eichhoff . . . Berlin, J. Springer, 1881. Agr 5—255  
vi, [2], 315 p. illus. 23½<sup>em</sup>.
- Eichhoff, Wilhelm Josef.** Ratio, descriptio, emendatio eorum tomicinorum qui sunt in Dr. med. Chapuisii et autoris ipsius collectionibus et quos praeterea recognovit, scriptor W. Eichhoff . . . [Liège, 1878]  
1 p. l., iv, 531 p. v pl. 24<sup>em</sup>.  
From Mémoires de la Société royale des sciences, ser. 2, v. 8.
- Eichhoff, Wilhelm Josef.** Remarks on the synonymy of some North American scolytid beetles. By the late William Eichhoff . . . (Tr. and annotated by E. A. Schwarz) [Washington, 1896]  
605—610 p. 24<sup>em</sup>.  
From the Proceedings of the United States national museum, vol. XVIII, p. 605—610 <no. 1085>
- Ferrari, Johann Angelo, graf.** Die forst- und baumzuchtschädlichen borkenkäfer (*Tomicides* Lac.) aus der familie der holzverderber (*Scolytides* Lac.), mit besonderer berücksichtigung vorzüglich der europäischen formen, und der sammlung des K. K. zoologischen kabinetes in Wien . . . Wien, 1867.  
[4], 95, [1] p. illus. 24<sup>em</sup>.
- Forbes, Stephen Alfred.** The fruit bark beetle (*Scolytus rugulosus*, Ratz.) Order Coleoptera. Family Scolytidæ . . . [Springfield? 1891?]  
[63]—81 p. 22<sup>em</sup>. (Office of the state entomologist of Illinois, Bulletin no. 4)  
"American literature": p. 75—81.
- Great Britain—Board of agriculture.** . . . The fruit tree beetle (*Scolytus rugulosus*). [London, 1898]  
3, [1] p. illus. 21½<sup>em</sup>. (*Its* Leaflet no. 49)
- Great Britain—Board of agriculture.** . . . The pine beetle (*Hylesinus piniperda* L.) [London, 1903]  
7, [1] p. illus. 21<sup>em</sup>. (*Its* Leaflet no. 91)
- Guérin-Ménéville, Félix Édouard.** Observations sur les mœurs et l'anatomie des scolytes des ormes, et plus spécialement du *Scolytus destructor* . . . [Paris] 1846.  
296—298 p. 27½<sup>em</sup>.  
From Comptes rendus des séances de l'Académie des sciences, tome XXIII, 1846.
- Harman, J. C.** Injury to fruit trees by a new insect . . . [Atlanta, 1884]  
1 p. 22<sup>em</sup>.  
From Circular no. 58, new series, of the Georgia state board of agriculture. Crop report for the month of August, 1884.
- Hubbard, Henry Guernsey.** Ambrosia beetles. (U. S. Agriculture, Dept. of. Yearbook, 1896. Washington, 1897. pp. 421—430. illus.)
- Kollar, Vincenz.** Beiträge zur naturgeschichte des grossen fichten-bast-käfers, *Hylesinus* (*Dendroctonus*) *micans* Kug., aus den beobachtungen des Herrn Conr. Leinweber, K. K. hofgärtner, zusammengestellt von Vincenz Kollar. [Wien] 1858.  
[23]—28 p. 22½<sup>em</sup>.  
From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft, Verhandlungen, vol. VIII.

**Lindemann, Karl Eduardovich.** Verzeichniss der bei Moskau vorkommenden borkenkäfer . . . [Moskva, 1885]

2 p. 24<sup>em</sup>.

**Peck, William Dandridge.** On the insects which destroy the young branches of the pear-tree. *See under* Curculionidæ, p. 235.

**Shevyrev, Ivan.** . . . Liste des espèces du genre Scolytus de la collection du Musée de l'Académie impériale des sciences de St. Pétersbourg . . . [St. Pétersbourg, 1890]

[97]-99 p. 26<sup>4em</sup>.

From *Mélanges biologiques tirés du Bulletin de l'Académie impériale des sciences de St. Pétersbourg*, tome XII.

**Shevyrev, Ivan.** . . . О ходах короёдовъ . . . [С.-Петербургъ, 1889?]

8 p. 24<sup>4em</sup>.

On the galleries of the Scolytidæ.

Signed: Ив. Шевыревъ.

Сообщено въ засѣданіи С.-П.-Б. Лѣснаго общества 4 Ноября 1889 г.

Accompanied by a ms. translation.

**Somerville, William.** The pine beetle (*Hylesinus piniperda* L.) . . . [Edinburgh, 1891]

13 p. illus. 22<sup>em</sup>.

From the *Transactions of the Highland and agricultural society of Scotland*, 1891.

#### STYLOPIDÆ.

**Austin, E. P.** Collecting Stylopidae . . . [Boston, 1882]

12-13 p. 22<sup>em</sup>.

From the *Journal of the Boston zoölogical society*, vol. 1, no. 2.

**Kirby, William.** . . . Strepsiptera, a new order of insects proposed; and the characters of the order, with those of its genera, laid down . . . [London, 1813]

86-122 p. 8-9 pl. 28 x 22<sup>em</sup>.

From *Transactions of the Linnean society of London*, vol. XI.

### DIPTERA.

#### BIBLIOGRAPHY.

**Williston, Samuel Wendell.** Bibliography of North American dipterology, 1878-1895 . . . [Lawrence, Kan., 1896]

[129]-144 p. 24<sup>4em</sup>.

From *Kan. univ. quar.*, vol. IV, no. 3, January, 1896.

#### GENERAL.

**Adolph Georg Ernst.** . . . Die dipterenflügel, ihr schema und ihre ableitung. Von Dr. E. Adolph . . . Eingegangen bei der Akademie den 5. november 1882. Halle, 1885.

46 p. xxiv-xxvii pl. 32<sup>4em</sup>. (*Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher*, bd. XLVII, nr. 6)

**Beling, Theodor.** Beitrag zur metamorphose einiger zweiflügeliger insecten aus den familien Tabanidae, Empidae und Syrphidae . . . [Wien, 1888]

4 p. 24<sup>4em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien [jahr. 1888] besonders abgedruckt.

**Berg, Carlos.** . . . Apuntes dipterologicos . . . [Buenos Aires, 1899]

[124]-180 p. 23<sup>4em</sup>.

Comunicaciones del Museo nacional de Buenos Aires, t. I, no. 4, p. 124 & 130, 29 de septiembre de 1899.

**Beutenmüller, William.** Types of Diptera in the collection of the American museum of natural history . . . New York, 1904.

cover-title, 87-99 p. 24 $\frac{1}{2}$ cm.

Author's ed., extracted from Bulletin of the American museum of natural history, vol. xx, article VI, pp. 87-99.

**Bigot, Jacques Marie Frangile.** . . . Descriptions de diptères nouveaux . . . Paris, 1892.

90 p. 25 $\frac{1}{2}$ cm.

Extrait des Mémoires de la Société zoologique de France, t. v, p. 602, année 1892.

"Une introduction . . . a été publiée dans les Mém. de la Soc. zool. de France, IV, p. 408, 1891."

**Bigot, Jacques Marie Frangile.** Diptères . . . [n. p., 18--]

[208]-208 p. 33 x 25 $\frac{1}{2}$ cm.

Running title: Nouvelles archives du Muséum. Collection Pavie.—Diptères.

**Bigot, Jacques Marie Frangile.** Diptères nouveaux ou peu connus . . . [Paris, 1874-92]

pt. 1-8, 15, 21-37. col. pl. 22 $\frac{1}{2}$ -23 $\frac{1}{2}$ cm.

Pt. 37 last published.

Extrait des Annales de la Société entomologique de France, 5. sér., t. 4-7, 10, 1874-77, 1880; 6. sér., t. 3-10, 1883-90; t. 61, 1892.

**Bigot, Jacques Marie Frangile.** . . . Dipterorum aliquot nova genera . . . [Paris, 1859]

11 p. col. pl. 22 $\frac{1}{2}$ cm.

Extrait de la Revue et magasin de zoologie, no. 7, 1859.

**Brauer, Friedrich.** Kurze charakteristik der dipteren-larven zur bekräftigung des neuen von Dr. Schiner entworfenen dipteren-systemes . . . [Wien, 1869]

10 p. 22 $\frac{1}{2}$ cm.

Aus den Verhandlungen d. K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1869> besonders abgedruckt.

**Brauer, Friedrich.** Offenes schreiben als antwort auf Herrn baron Osten-Sacken's "Critical review" meiner arbeit über die notacanthen. Von Prof. Dr. Friedrich Brauer. Wien, Selbstverlag des verfassers, 1883.

11 p. 23 $\frac{1}{2}$ cm.

**Brauer, Friedrich.** Zwei parasiten des Rhizotrogus solstitialis aus der ordnung der dipteren . . . [Wien, 1883]

cover-title, 13 p. II pl. 24 $\frac{1}{2}$ cm.

Aus dem LXXXVIII. bd. der Sitzb. der K. Akad. der wissensch. I. abth. juli-hft. jahrg. 1883.

**Brauer, Friedrich.** Die zweiflügler des Kaiserlichen museums zu Wien . . . Wien, Aus der K.-K. hof- und staats-druckerei, 1880-94.

pt. 1-7. pl. 31 $\frac{1}{2}$ cm.

Besonders abgedruckt aus dem XLII, XLIV, XLVII, LVI, LVIII, LX, LXI bande der Denkschriften der mathematisch-naturwissenschaftlichen classe der Kaiserlichen akademie der wissenschaften.

CONTENTS.—I. 1. Die kaiserliche, Winthem'sche, Wiedemann'sche und Egger'sche sammlung. 2. Systematische übersicht. 3. Die tabanus-arten der europäischen, mediterranen und sibirischen sub-regionen. Von Prof. Dr. Friedrich Brauer. 1880.—II. 1. Versuch einer charakteristik der gattungen der notacanthen (Ltr.), mit rücksicht auf die im Kaiserlichen museum befindlichen von Dr. J. R. Schiner aufgestellten neuen gettungen. 2. Vergleichende untersuchungen des flügelgäders der dipteren nach Adolph's theorie. 3. Charakteristik der mit Scenopinus verwandten dipteren-familien. Von Prof. Dr. Friedrich Brauer. 1882.—III. Systematische studien auf grundlage der dipteren-larven nebst einer zusammenstellung von beispielen aus der literatur über dieselben und beschreibung neuer formen. Von Prof. Dr. Friedrich Brauer. 1883.—IV. Vorarbeiten zu einer monographie der Muscaria Schizometopa (exclusive Anthomyidæ), von Prof. Dr. Friedrich Brauer . . . und J. Edlen v. Bergenstamm. 1889.—V. Vorarbeiten zu einer monographie der Muscaria Schizometopa (exclusive Anthomyidæ); Pars II. Von Prof. Dr. Friedrich Brauer . . . und J. Edlen v. Bergenstamm. 1891.—VI. Vorarbeiten zu einer monographie der Muscaria Schizometopa (exclusive Anthomyidæ). Pars III. Von Prof. Dr. Friedrich Brauer . . . und J. Edlen v. Bergenstamm. 1893.—VII. Vorarbeiten zu einer monographie der Muscaria Schizometopa (exclusive Anthomyidæ). Pars IV. Von Prof. Dr. Friedrich Brauer . . . und J. Edlen v. Bergenstamm. 1894.

**Coquillett, Daniel William.** . . . New Diptera in the U. S. National Museum . . . Washington, 1901.

593-618 p. 25 $\frac{1}{2}$ cm.

From the Proceedings of the United States national museum, vol. xxxiii, p. 593-618 [No. 1225]

**Coquillett, Daniel William.** . . . A systematic arrangement of the families of the Diptera . . . Washington, 1901.

653-658 p. 24<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxiii, p. 653-658 <No. 1227>

**Crawford, Frazer S.** Notes on certain "pores" on the veins of some Diptera . . . [Adelaide, 1889]

[60]-61, [2] p. illus., fold. pl. 21<sup>cm</sup>.

From the Transactions of the Royal society of South Australia, 1889.

**Dimmock, George.** The anatomy of the mouth-parts and of the sucking apparatus of some Diptera. Dissertation for the purpose of obtaining the philosophical doctorate at the Leipzig university, by George Dimmock . . . Boston, A. Williams & co., 1881.

1 p. l., 50 p., 1 l., [2] p., 3 l. iv pl. 27<sup>cm</sup>.

**Fabricius, Johann Christian.** . . . Systema antliatorum secundum ordines, genera, species adiectis synonymis, locis, observationibus, descriptionibus. Brunsvigæ, apud C. Reichard, 1805.

xiv, [15]-372 p., 1 l., 30 p. 20<sup>cm</sup>.

At head of title: Joh. Christ. Fabricii . .

**Fallén, Karl Fredrik, præses.** Dispositio dipterorum synoptica, quam venia ampl. facult. philos. lund. præside Carolo Fr. Fallén . . pro laurea publicæ disquisitioni subjicit Laurentius Ståhl . . . Lundæ, literis Berlingianis, 1817. Agr 3-160

12 p. 21 x 17<sup>4</sup>cm.

List, with names of respondents, of dissertations forming his Dipterorum, antennis parum articulatis instructorum, sectio prior: p. 7-8.

Forms the first part of his Diptera suecica, v. 1. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

**Glover, Townend.** Manuscript notes from my journal, or Illustrations of insects, native and foreign. Diptera, or two-winged flies. By Townend Glover. Washington, D. C., Written and etched by Townend Glover; transferred and printed from stone by J. F. Gedney, 1874.

1 p. l., III numb. l., 13 l., 120 numb. l. XII (i. e. 13) pl. 31<sup>cm</sup>.

Printed on one side of leaf.

**Kertész, Colomann.** . . . Catalogus dipterorum hucusque descriptorum auctore Dr. C. Kertész. Leipzig, W. Engelmann, 1902.

2 v. 23<sup>4</sup>cm.

At head of title: Museum nationale hungaricum.

CONTENTS.—Vol. I. Sciaridæ, Mycetophilidæ, Bibionidæ, Chironomidæ, Stenoxenidæ, Culicidæ, Ptychopteridæ, Dixidæ, Blepharoceridæ, Simulidæ, Orphnephilidæ, Psychodidæ, Rhyphidæ.—Vol. II.—Cecidomyidæ, Limnobiidæ, Tipulidæ, Cylindrotomidæ.

**Loew, Hermann.** Neue beiträge zur kenntniss der dipteren. Vom Prof. Dr. H. Loew . . . 3. beiträg. Berlin, E. S. Mittler & sohn, 1855.

1 p. l., 52 p. 23<sup>4</sup>cm.

**Macleay, William Sharp.** On the insect called Oistros by the ancient Greeks, and Asilus by the Romans . . . London, 1825.

353-359 p. 28<sup>cm</sup>.

From the Transactions of the Linnean society of London, vol xiv.

**Macquart, Justin, i. e., Pierre Justin Marie.** Diptères exotiques nouveaux ou peu connus, par J. Macquart . . . Paris, Roret, 1838-[43] Agr 3-796-802

3 v. in 2. 118 pl. 21<sup>cm</sup>.

Originally published in the Mémoires de la Société royale des sciences de l'agriculture et des arts de Lille, 1838-55, and also reprinted and published in separate form.

In the Library copy v. 1-2 and the first supplement are from the reprinted edition, whereas v. 3 is made up of the extracts from the Mém. Soc. sc. Lille and has no separate title page. Supplements 2-5 are also extracted from the Mém. Soc. sc. Lille.

— — — Supplément (Extrait des Mémoires de la Société royale des sciences, de l'agriculture et des arts, de Lille, 1844) Paris, Roret, 1846. Agr 3-796-802

288 p. 20 pl. 21<sup>cm</sup>.



- Macquart, Justin, i. e., Pierre Justin Marie.** Diptères exotiques nouveaux ou peu connus, par J. Macquart. 2<sup>o</sup> supplément. [Lille, 1847] Agr 3—796-802  
 21-120 p. 6 pl. 21<sup>em</sup>.  
 Caption title.  
 From the Mém. Soc. sc. Lille, 1846, p. 21-120.
- — Suite du 2<sup>mo</sup> supplément. [Lille, 1848] Agr 3—796-802  
 161-240 p. 7 pl. 21<sup>em</sup>.  
 Caption title.  
 From the Mém. Soc. sc. Lille, 1847, p. 161-240.
- — 4<sup>o</sup> supplément. [Lille, 1850] Agr 3—796-802  
 309-479 p. 14 pl. 21<sup>em</sup>.  
 Caption title.  
 From the Mém. Soc. sc. Lille, 1849, p. 309-479.
- — Suite du 4<sup>o</sup> supplément publié dans les Mémoires de 1849. [Lille, 1851] Agr 3—796-802  
 134-294 p. 15-28 pl. 21<sup>em</sup>.  
 Caption title.  
 From the Mém. Soc. sc. Lille, 1850, p. 134-294.
- — 5<sup>o</sup> supplément. (Séance du 5 novembre 1854) [Lille, 1855] Agr 3—796-802  
 [25]-156 p. 7 pl. 21<sup>em</sup>.  
 Caption title.  
 From the Mém. Soc. sc. Lille, 1854, p. 25-156.
- Macquart, Justin i. e. Pierre Justin Marie.** Histoire naturelle des insectes. Diptères. Par M. Macquart . . . Paris, Librairie encyclopédique de Roret, 1834-35.  
 2 v. 24 col. pl. 22<sup>em</sup>.
- Marchal, Paul.** Sur les diptères nuisibles aux céréales, observés à la Station entomologique de Paris en 1894 . . . [Paris, 1894]  
 4 p. 28<sup>em</sup>.  
 From Comptes-rendus des séances de l'Académie des sciences.
- Mayer, Paul.** . . . Sopra certi organi di senso nelle antenne dei ditteri. Memoria del dott. Paolo Mayer. Roma, Coi tipi del Salviucci, 1879.  
 12 p. double pl. 30<sup>em</sup>.  
 From the Atti della Reale academia dei Lincei, ser. III, vol. 3<sup>o</sup>. Memorie della classe di scienze fisiche e naturali.
- Meinert, Frederik Vilhelm August.** De eucephale myggelarver. Sur les larves des diptères. Leurs mœurs et leurs métamorphoses. Af Fr. Meinert . Résumé et explication des planches en français . . Kjøbenhavn, B. Lunos Kgl. Hof-bogtrykkeri (F. Dreyer) 1886.  
 2 p. l. [373]-493 p. iv double pl. 26 $\frac{1}{2}$ <sup>em</sup>.  
 From Kongelige Danske videnskabernes selskabs Skrifter. 6. række Naturvidenskabelig og matematisk afdeling. 3. bd.
- Meinert, Frederik Vilhelm August.** Fluernes munddele trophi dipterorum . . af Fr. Meinert. Paa Carlsberg-fondets bekostning . . Kjøbenhavn, H. Hagerups boghandel, 1881.  
 1 p. l., 91 p. vi pl. 26 $\frac{1}{2}$ <sup>em</sup>.
- Meinert, Frederik Vilhelm August.** Munddelenes bygning hos fluerne (Diptera) . . [Stockholm, 1880]  
 [523]-526 p. 21<sup>em</sup>.  
 Ur 12. Skandinaviska naturforskaremötes förhandlingar, Stockholm, 1880.
- Meinert, Frederik Vilhelm August.** Die mundtheile der dipteren [Leipzig, 1882]  
 8 p. 22 $\frac{1}{2}$ <sup>em</sup>.  
 Separat-abdruck aus dem "Zoologischen anzeiger" 1882. no. 124 u. 125.
- Mik, Josef.** Ein beitrug zur biologie einiger dipteren . . . Wien, 1894.  
 20 p. pl. 26<sup>em</sup>.  
 Anlässlich der 66. versammlung deutscher naturforscher und ärzte in Wien 1894, abgedruckt aus dem Jahresbericht über das K. K. Akademische gymnasium in Wien . . . 1893-94.

- Mik, Josef.** Dipterologische bemerkungen . . . Wien, 1883.  
14 p. 22 $\frac{1}{2}$ cm.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1883>  
besonders abgedruckt [p. 181-192]
- Mik, Josef.** Einige dipterologische bemerkungen . . . [Wien, 1885]  
6 p. 22cm.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1885>  
besonders abgedruckt [p. 327-332]
- Peiper, Erich.** Fliegenlarven als gelegentliche parasiten des menschen. Von  
Dr. Erich Peiper . . . Berlin, L. Marcus, 1900.  
76 p. illus. 19 $\frac{1}{2}$ cm.  
"Litteratur": p. 72-76.
- Robineau-Desvoidy, André Jean Baptiste.** Essai sur les myodaires, par le  
Docteur J. B. Robineau-Desvoidy . . . [Paris, 1830]  
2 p. l., 813 p. 23cm. (Mémoires présentés par divers savans à l'Académie royale des sciences de  
l'Institut de France, et imprimés par son ordre. Sciences mathématiques et physiques. Tome 2)
- Rondani, Camillo.** Diptera exotica revisa et annotata novis nonnullis . . .  
Modena, 1863.  
1 p. l., 99 p. pl. 20 $\frac{1}{2}$ cm.  
Estratto dall' Archivio per la zoologia ecc. vol III. fasc. 1.
- Schellenberg, Johann Rudolf.** Genres des mouches diptères représentés en  
XLII planches projetées et dessinées par Mr. J. R. Schellenberg, et expliquées par  
deux amateurs de l'entomologie. Zurich, Orell, Fuesli et compagnie, 1803. Agr 4—293  
xiii, 14-95 p. XLII col. pl. 25cm.  
Added title: Gattungen der fliegen in XLII kupfertafeln entworfen und gezeichnet von J. R.  
Schellenberg und erklärt durch zwey liebhaber der insektenkunde. Text in French and German.
- Schiner, J. Rudolf.** Dipterologische fragmente; von Dr. J. R. Schiner und Dr.  
J. Egger. [Wien, 1853-58]  
6 nos. col. pl. 22 $\frac{1}{2}$ cm.  
From Verhandlungen des Zoologisch-botanischen vereins zu Wien, 1853-58.
- Schiner, J. Rudolf.** Scriptores austriaci rerum dipterologicarum. Eine revision  
der von österreichischen entomologen aufgeführten dipteren . . . [Wien, 1856]  
[27]-52 p. 20 $\frac{1}{2}$ cm.  
From Verhandlungen des Zoologisch-botanischen vereins zu Wien, jahr 1856, p. 399-424.
- Thomson, Carl Gustaf.** Diptera. Species novas descripsit C. G. Thomson.  
[Stockholm, P. A. Norstedt & söner, 1858]  
[443]-614 p. 1 pl. 31cm. (Kongliga svenska fregatten Eugénies resa omkring jorden under befäl  
af C. A. Virgin åren 1851-1853. Vetenskapliga iakttagelser på H. Maj:t konung Oscar den förstes  
befallning utgifna af K. Svenska v̄tenskaps-akademien. Insekter. 6:2)  
Caption title.
- Vaney, C.** . . . Contributions à l'étude des larves et des métamorphoses des  
diptères, par C. Vaney . . . Lyon, A. Rey; Paris, J. B. Baillièrre et fils, 1902. 3—15655  
2 p. l., 178 p. iv double pl. 25cm. (Annales de l'Université de Lyon. Nouv. sér. 1. Sciences,  
médecine. fasc. 9)  
Exemplaire n° 5.  
"Index bibliographique": p. [165]-171.
- Walker, Francis.** Insecta Saundersiana: or Characters of undescribed insects  
in the collection of William Wilson Saunders . . . vol. I. Diptera.—By Francis  
Walker, F. L. S. London, J. Van Voorst, 1856. Agr 3—821  
3 p. l., 474 p. VIII pl. 22cm.
- Walker, Francis.** List of the specimens of dipterous insects in the collection of  
the British museum. London, Printed by order of the trustees, 1848-55. Agr 3—822  
7 pts. 18 $\frac{1}{2}$ cm.  
Pts. 1-4, paged continuously: 1172 p.  
Pts. 5-7 are supplements 1-3: paged continuously, 774, [1] p.

**Walker, Francis.** Notes on Diptera and lists of species. 1st ser. By Francis Walker. London, E. W. Janson, 1874.

1 p. l., 87 p. 21<sup>em</sup>.

**Wandolleck, Benno.** . . . Die fähler der cycloraphen dipterenlarven . . . [Leipzig, 1898]

[283]-294 p. illus. 25<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 557, 1898.

**Weismann, August.** . . . The metamorphosis of flies . . . [Salem, Mass., 1874]

3 pts. 24 $\frac{1}{2}$ <sup>em</sup>.

Pt. 1-2, translation of part of his Die entwicklung der dipteren, 1864. Pt. 3, translation of concluding chapter of his Die metamorphose der Corethra plumicornis, 1866.

From the American naturalist, vol. VIII, p. 603-612, 661-667, 713-721.

**Wiedemann, Christian Rudolph Wilhelm.** Aussereuropäische zweiflügelige insekten. Beschrieben von Dr. Christ. Rud. Wilh. Wiedemann . . . Als fortsetzung des Meigenschen werkes . . . Hamm, In der Schulzischen buchhandlung, 1828-30.

2 v. 12 pl. 20<sup>em</sup>.

**Wiedemann, Christian Rudolph Wilhelm.** . . Diptera exotica. Pars I. Tabulis aeneis duabus. Kiliae, 1821.

1 p. l., XIX p., 1 l., 244 p. 2 fold. pl. 18 $\frac{1}{2}$ <sup>em</sup>.

**Williston, Samuel Wendell.** The dipterous parasites of North American butterflies by Samuel W. Williston . . . Cambridge, 1889.

cover-title, [1912]-1924 p. pl. 23<sup>em</sup>.

Extracted from Scudder's Butterflies of the eastern United States and Canada.

**Williston, Samuel Wendell.** Table of the families of Diptera . . . [Topeka, Kan., 1887]

122-128 p. 22<sup>em</sup>.

Bibliography: p. 127-128.

From Transactions of the eighteenth and nineteenth annual meetings of the Kansas academy of science, (1885-86) vol. x.

## FAUNA.

### UNITED STATES.

**Aldrich, John Merton.** . . . A catalogue of North American Diptera (or two-winged flies) by J. M. Aldrich . . . City of Washington, Smithsonian institution, 1905.

5-26783

1 p. l., 680 p. 25<sup>em</sup>. (Smithsonian miscellaneous collections, vol. XLVI, no. 1444)

"Bibliography": p. 7-75.

**Coquillett, Daniel William.** . . . Diptera . . . Washington, 1900.

389-464 p. illus. 27<sup>em</sup>. (Papers from the Harriman Alaska expedition. ix. Entomological results (3))

From the Proceedings of the Washington academy of sciences, vol. II, p. 389-464, Dec. 7, 1900.

**Coquillett, Daniel William.** . . . New Diptera from North America . . . Washington, 1902.

83-126 p. 24 $\frac{1}{2}$ <sup>em</sup>.

From the Proceedings of the United States national museum, vol. xxv, p. 83-126 [No. 1280]

**Johnson, Charles Willison.** Diptera of Florida. By C. W. Johnson. With additional descriptions of new genera and species. By D. W. Coquillett . . . [Philadelphia, 1895]

303-340 p. 24 $\frac{1}{2}$ <sup>em</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1895.

**Loew, Hermann.** Diptera Americæ septentrionalis indigena. Descripsit H. Loew. Berolini, Typis A. W. Schadii, 1861.

1 p. l., 300 p. 21<sup>em</sup>.

**Loew Hermann.** . . . Monographs of the Diptera of North America. Prepared for the Smithsonian institution by H. Loew. Ed., with additions, by R. Osten Sacken. Washington, Smithsonian institution, 1862-73.

4 pts. 15 pl. 24<sup>em</sup>. (Smithsonian miscellaneous collections [v. 6, 8, 11])

Pt. III has title: Monographs of the Diptera of North America. Pt. III. Prepared for the Smithsonian institution by H. Loew. Published 1873.

Pt. IV has title: Monographs of Diptera of North America. Pt. IV. Prepared for the Smithsonian institution by R. Osten Sacken. Published 1869.

**Osten Sacken, Karl Robert Romanovich, baron von.** . . . Catalogue of the described Diptera of North America. Prepared for the Smithsonian institution by R. Osten Sacken . . . Washington, Smithsonian institution, 1858.

xx, 92 p. 23<sup>em</sup>. (Smithsonian miscellaneous collections. [vol. III])

"Authorities": p. [xi]-xviii.

— — Appendix. October, 1859. [Washington, 1859]

93-95 p. 25<sup>em</sup>. [Smithsonian miscellaneous collections. vol. III]

**Osten Sacken, Karl Robert Romanovich, baron von.** . . . Western Diptera: descriptions of new genera and species of Diptera from the region west of the Mississippi, and especially from California. By C. R. Osten Sacken . . . Washington, 1877.

cover-title, [189]-354 p. 23<sup>em</sup>.

At head of title: Author's edition. Department of the interior. United States geological and geographical survey. E. V. Hayden, U. S. geologist in charge.

Extracted from the Bulletin of the Survey, vol. III, no. 2.

**Williston, Samuel Wendell.** Manual of the families and genera of North American Diptera; 2d ed. rewritten and enl. by Samuel W. Williston . . . New Haven, J. T. Hathaway, 1896.

liv, 167 p. 20<sup>1/2</sup><sup>em</sup>.

"Bibliography, 1878-1895": p. [xxxiii]-liv.

Ed. 2 of his Synopsis of the families and genera of North American Diptera. 1888.

**Williston, Samuel Wendell.** Synopsis of the families and genera of North American Diptera, exclusive of the genera of the Nematocera and Muscidae, with bibliography and new species, 1878-88. By Samuel W. Williston . . . New Haven, J. T. Hathaway, 1888.

84 p. 21<sup>1/2</sup><sup>em</sup>.

"Bibliography, 1878-1888": p. 67-81.

#### FOREIGN.

**Bellardi, Luigi.** Saggio di ditterologia messicana, di Luigi Bellardi . . . Torino, Dalla stamperia reale, 1859-62.

2 pts. and appx. 5 pl. 29<sup>1/2</sup><sup>em</sup>.

From Memorie della Reale accademia delle scienze di Torino. serie II, tom. XIX.

**Bigot, Jacques Marie Frangile.** Catalogue of the Diptera of the oriental region . . . Calcutta, 1891.

pt. 1. 23<sup>em</sup>.

Reprinted from the Journal of the Asiatic society of Bengal, vol. LX, pt. II, no. 3, 1891.

For pt. 2-3 see Journal of the Asiatic society of Bengal, vol. LXI, pt. II, p. [133]-236.

**Bigot, Jacques Marie Frangile.** . . . Description de trois nouveaux diptères de l'Inde . . . [Paris, 1892]

3 p. 24<sup>em</sup>.

Extrait du Bulletin de la Société zoologique de France, t. XVII, p. 210, séance du 8 novembre 1892.

**Bigot, Jacques Marie Frangile.** Diptères, par J.-M.-F. Bigot. [Paris, 1888]

Agr 3-1243

45 p. iv col. pl. 28<sup>em</sup>. (Ministères de la marine et de l'instruction publique. Mission scientifique du Cap Horn. 1882-1883. Tome VI. Zoologie. Insectes)

**Bigot, Jacques Marie Frangile.** . . . Énumération des diptères recueillis en Tunisie dans la mission de 1884 par M. Valéry Mayet . . . et description des espèces nouvelles, par J.-M.-F. Bigot. Paris, Imprimerie nationale, 1888.

11 p. 24<sup>em</sup>. (Half-title: Exploration scientifique de la Tunisie, pub. sous les auspices du Ministère de l'instruction publique. Sciences naturelles. Zoologie.—Diptères)

**Bigot, Jacques Marie Frangile.** . . . Voyage de M. Ch. Alluaud aux Îles Canaries (novembre 1889—juin 1890). Diptères . . . Paris, 1891.

cover-title, 5 p. 25<sup>em</sup>.

Extrait du Bulletin de la Société zoologique de France [t. xvi, p. 275, séance du 22 décembre 1891]

**Biologia centrali-americana.** Insecta. Diptera . . . [London, Pub. for the editors by R. H. Porter] 1886—1903. Agr 5—505

3 v. col. plates. 32<sup>em</sup>.

Vol. I by Baron C. R. Osten-Sacken, the supplement by Professor S. W. Williston, Professor J. M. Aldrich, and Professor W. M. Wheeler and A. L. Melander; vol. II by Frederick Maurits van der Wulp; vol. III by Prof. S. W. Williston.

Issued in parts.

Cover-title: *Biologia centrali-americana*; or, Contributions to the knowledge of the fauna and flora of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug., 1898—1903, ed. by F. Ducane Godman.

**Cockerell, Theodore Dru Alison.** A supplementary note to Mr. Johnson's list of Jamaican Diptera . . . [Philadelphia, 1894]

419—420 p. 24<sup>em</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1894.

**Coquillett, Daniel William.** . . . Descriptions of two new species of Diptera from Western Australia . . . [Sydney, 1900]

[389]—390 p. 22<sup>em</sup>.

From the Proceedings of the Linnean society of New South Wales, 1900, pt. 3, June 27th.

**Coquillett, Daniel William.** . . . Diptera . . . Washington, 1901.

371—379 p. 26<sup>em</sup>. (Papers from the Hopkins Stanford Galapagos expedition, 1898—1899. II. Entomological results (2))

From Proceedings of the Washington academy of sciences, vol. III, p. 371—379.

**Coquillett, Daniel William.** . . . New Diptera from southern Africa . . . Washington, 1901.

27—32 p. 24<sup>em</sup>.

From the Proceedings of the United States national museum, vol. xxiv, p. 27—32 <No. 1243>

**Coquillett, Daniel William.** . . . Report on a collection of dipterous insects from Puerto Rico . . . Washington, 1900.

249—270 p. 24<sup>em</sup>.

From the Proceedings of the United States national museum, vol. xxii, p. 249—270 <No. 1198>

**Dziedzicki, Henryk Ad.** II. Przyczynek do fauny owadów dwuskrzydłych. Rodzaje nowe: Hertwigia, nov. gen.; Eurycera, nov. gen. i gatunki rodzajów; Boletina, Sciophila. Przez D-ra Henryka Dziedzickiego . . . Warszawa, Drukiem E. Skiwskiego, 1885.

cover-title, 31 p. iv—ix pl. 27<sup>em</sup>.

Odbitka z Pamiętnika fizyograficznego. Tom. v za rok 1885.

**Fallén, Karl Fredrik,** *præses.* Supplementum dipterorum Sueciæ. Quod venia ampl. facult. philos. Acad. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subicit Nicolaus Georg. Herslow Londini Gothorum, Ex officina Berlingiana, 1826. Agr 3—181

1 p. I., 8 p. 22<sup>em</sup> x 19<sup>em</sup>.

Supplement to his *Diptera suecica*. See Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

**Giglio-Tos, Ermanno.** Ditteri del Messico . . . Memoria di E. Giglio-Tos. Torino, C. Clausen, 1892—93.

2 pts. 2 pl. 31<sup>em</sup>.

Estr. dalle Memorie della Reale accademia delle scienze di Torino. serie II, tom. XLIII.

"Indicazioni bibliografiche": pte. I, p. 66—68; pte. II, p. 72—75.

CONTENTS.—pte. I. Stratiomyidae, Syrphidae.—pte. II. Syrphidae, Conopidae, Pipunculidae.

**Grimshaw, Percy Hall.** . . . Diptera scotica [n. p., 1904]

pt. 3. 21<sup>em</sup>.

Reprinted from "The Annals of Scottish natural history," July and October 1903; January and April 1904.

CONTENTS.—pt. 3. The Forth district.

- Grimshaw, Percy Hall.** . . . On some new and rare Scottish Diptera . . . [Edinburgh, 1904]  
cover-title, [221]-222 p. 22<sup>cm</sup>.  
Reprinted from "The Annals of Scottish natural history," October 1904.
- Grimshaw, Percy Hall.** . . . On the occurrence in Ross-shire of *Cephenomyia rufibarbis*, a new British bot-fly parasitic on the red deer, and a list of Perthshire Diptera collected in 1894 . . . [Edinburgh, 1895]  
cover-title, [155]-162 p. 22<sup>cm</sup>.  
"Synonymy and bibliography": p. 158.  
Reprinted from "The Annals of Scottish natural history," July 1895.
- Johnson, Charles Willison.** List of the Diptera of Jamaica, with descriptions of new species . . . [Philadelphia, 1894]  
271-281 p. 24<sup>cm</sup>.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1894.
- Lehmann, Johann Georg Christian.** Insectorum species nonnullae vel novae vel minus cognitae, in agro Hamburgensi captae, ex ordine dipterorum. Descripsit et iconibus illustravit Dr. I. G. C. Lehmann . . . [Halle, 1824]  
1 p. l., 241-248 p. col. pl. 27<sup>cm</sup>.  
From Nova acta Acad. Caes. Leopold.-Carol. Germ. nat. cur. vol. XII.
- Lioy, Paolo.** . . . Ditteri italiana . . . Milano, U. Hoepli, 1895.  
vii, 356 p. 227 illus. 15½<sup>cm</sup>. (Manuali Hoepli. Entomologia III.)  
"Bibliografia": p. 64-71.
- Loew, Hermann.** Die dipteren-fauna Südafrika's, bearb. von Dr. Herm. Loew . . . 1. abth. . . . Aus dem II. bande der Abhandlungen des Naturwissenschaftlichen vereins für Sachsen und Thüringen in Halle besonders abgedruckt. Berlin, G. Boscsmann, 1860. Agr 3-344  
xi, 390 p. II pl. 33½<sup>cm</sup>.
- Macquart, Justin i. e. Pierre Justin Marie.** Insectes diptères du nord de la France . . . Par J. Macquart . . . Lille, Impr. de Leleux [1823-33] Agr 3-1079  
5 v. 21 pl., 3 fold. tab. 20<sup>cm</sup>.  
Vol. 2-5, Impr. de L. Danel.  
Reprinted from Recueil des travaux de la Société d'amateurs des sciences, de l'agriculture et des arts à Lille, 1823-24, p. 59-224; 1825, p. 324-499; 1826-27, p. 213-291, and from Mémoires de la Société des sciences à Lille, 1827-28, p. 149-371; 1833, p. 137-368.  
CONTENTS.—[v. 1] Tipulaires.—[v. 2] Asiliques, bombyliers, xylotomes, leptides, vesiculeux, stratiomydes, xylophagites, tabaniens.—[v. 3] Platypézines, dollchopodes, empides, hybotides.—[v. 4] Syrphies.—[v. 5] Athéricères, créophiles, oestrides, myopaires, conopsaires, scénopiniens, céphalopsides.
- Meigen, Johann Wilhelm.** Systematische beschreibung der bekannten europäischen zweiflügeligen insekten, von Johann Wilhelm Meigen . . . Aachen F. W. Forstmann, 1818-38.  
7 pts. in 4 v. 74 pl. 20½<sup>cm</sup>.  
Imprint of th. 3-4: Hamm, Im verlag der Schultz-Wundermann'schen buchhandlung, 1822-24.  
Imprint of th. 5: Hamm, Im verlag der Schultz'schen buchhandlung, 1826.  
Imprint of th. 6-7: Hamm, Schulzische buchhandlung, 1830-38.
- Mik, Josef.** Die dipterenfauna von Obladis . . . [Innsbruck, 1892]  
70-72 p. 21<sup>cm</sup>.  
From Obladis . . . bearb. von Leonard Wiedemayr.
- Mik, Josef.** Fünf neue österreichische dipteren . . . Wien, 1883.  
14 p. illus. 22½<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1883> besonders abgedruckt [p. 251-262]
- Osten Sacken, Karl Robert Romanovich, baron von.** Enumeration of the Diptera of the Malay Archipelago collected by Prof. Odoardo Beccari, M<sup>r</sup>. L. M. D'Albertis and others, by C. R. Osten Sacken. Genova, Tipografia del R. istituto dei sordo-muti, 1881. Agr 3-805-6  
104 p. illus. 25½<sup>cm</sup>.  
"Estratto dagli Ann. del Mus. civ. di st. nat. di Gen., vol. XVI, 4-7 febbraio 1881.  
— — — Supplement by C. R. Osten Sacken. [Genova, Tip. sordo-muti, 1882]  
Caption title. Agr 3-805-6  
"Estratto dagli Ann. del Mus. civ. di st. nat.

**Osten Sacken, Karl Robert Romanovich, baron von.** . . . Note on some Diptera from the island Guadalupe (Pacific ocean), collected by Mr. E. Palmer . . . [Boston, 1875]

[133]-134 p. 24<sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. xviii, Oct. 6, 1875.

**Osten Sacken, Karl Robert Romanovich, baron von.** On the New Zealand dipterous fauna . . . [n. p., 1902]

4 p. 24<sup>em</sup>.

Reprinted from the New Zealand journal of science, Sept. 1884, p. 198-200.

**Philippi, Rudolf Amandus.** Aufzählung der chilenischen dipteren. Von Dr. R. A. Philippi . . . [Wien, 1865] Agr 5-535

188 p. xxiii-xxix pl. 214<sup>em</sup>.

Caption title.

Aus den Verhandlungen d. K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1865> besonders abgedruckt.

**Porchinskii, Iosif Aloizievich.** Diptera europaea et asiatica nova aut minus cognita. Auctore J. Portschinsky. [St. Petersburg, 1881-91]

pt. 1-3, 7. 1 col. pl. 24<sup>em</sup>. (pt. 7, 254<sup>em</sup>.)

Pars I-III have caption title.

Pars VII has cover-title with title in Russian and Latin.

From Horae Societatis entomologicae rossicae t. xvi, xvii, & xxvi.

**Robineau-Desvoidy, André Jean Baptiste.** Histoire naturelle des diptères des environs de Paris, œuvre posthume du Dr. Robineau-Desvoidy, publiée par les soins de sa famille sous la direction de M. H. Monceaux . . . Paris, V. Masson et fils, [etc., etc.] 1863.

2 v. 1 port. 204<sup>em</sup>.

"Liste des différentes publications du Dr. Robineau-Desvoidy sur l'entomologie": v. 1, p. [xiii]-xiv.

"Auteurs consultés": v. 1, p. [xv]-xvi.

"Notice biographique sur le Docteur Robineau-Desvoidy": v. 1, p. 1-40.

**Rondani, Camillo.** Diptera aliqua in America Meridionali lecta a Prof P. Strobel annis 1866-67, distincta et annotata, novis aliquibus descriptis a Prof. Camillo Rondani. [Modena, 1868] Agr 3-354

17 p., 1 l. 1 pl. 22<sup>em</sup>.

Caption title.

(Estratto dall' Annuario della Società dei naturalisti in Modena—Anno III)

**Rondani, Camillo.** Dipterologiae italicae prodromus a Camillo Rondani . . . [Parmæ, Ex typographia A. Stocchi, 1856-80]

7 v. 19<sup>em</sup>. (v. 6-7, 21<sup>em</sup>)

Vol. I has main t.-p.: Genera italica ordinis dipterorum ordinatim disposita et distincta et in familias et stirpis aggregata. 1856. Vol. II-VI have main t.-p.: Species italicae ordinis dipterorum in genera characteribus definita, ordinatim collectæ, methodo analitica distinctæ, et novis vel minus cognitis descriptis. Pars 1-5. 1857-62. The title Dipterologiae italicae in vol. I-V occurs only on half t.-p. which in vol. V is wanting. Vol. VI has no half t.-p., but t.-p. in addition to title Species, etc., has Dipter: ital: prodromi cum supplemento pars VI. Vol. II-V contain Stirpes I-XVI; vol. VI contains Stirps XVII, Anthomyiinae, reprinted from Atti della Società italiana di scienze naturali, 1866, and also 3 supplementary fascicles bearing title: Diptera italica non vel minus cognita descripta vel annotata observationibus nonnullis additis, reprinted from same periodical, vol. VIII-XI, 1865-68. Vol. VII has no general t.-p. or continuous paging, but consists of extracts as follows: Scatophaginæ italicae collectæ distinctæ et in ordinem dispositæ . . . Dipterol. ital. prodromi pars VII, fasc. I, Dipterorum stirps XVIII; and Sciomyzinæ italicae collectæ, distinctæ et in ordinem dispositæ . . . Dipterol. ital. prodromi pars VII, fasc. II, Dipterorum stirpis XIX; both the preceding reprinted from Atti della Società italiana di scienze naturali, vol. X-XI, 1866-68; Ortalidinæ italicae collectæ, distinctæ et in ordinem dispositæ . . . Dipterologiae italicae prodromi pars VII, fasc. 3-4, Dipter. stirps XX, reprint of 5 articles in Bulletino della Società entomologica italiana, vol. I-III, 1869-71; and 5 articles reprinted from the above periodical, vol. VI-XII, 1874-80, with title Species italicae ordinis Dipterorum (Muscaria Rndn.) Stirps XXI-XXV, Stirps XXI, Tanipezinæ Rndn., stirps XXII, Loncheinæ Rndn., stirps XXIII, Agromyziinæ, stirps XXIV, Chylizinae Rndn., stirps XXV, Copromyzidæ Zett.

**Rondani, Camillo.** . . . Specierum italicarum ordinis dipterorum catalogus notis geographicis auctus a prof. Camillo Rondani. (Seduta del 16 settembre 1868) fasc.

1. Oestridæ, Syrphidæ, Sonopidæ. [Milano, Tip. Bernardoni, 1868]

48, [1] p. 21½<sup>em</sup>.

Caption title.

Estratto dagli Atti della Società italiana di scienze naturali. vol. xi, fasc. III, 1868.

**Schiner, J. Rudolf.** Catalogus systematicus dipterorum Europæ, auctore R. J. Schiner, Dr. Vindobonæ, Impensis Societatis zoologico-botanicæ editus, 1864.

xii, 115 p, 21½<sup>em</sup>.

**Schiner, J. Rudolf.** Diptera. Bearb. von Dr. J. R. Schiner . [Wien, 1868]  
vi, 3-388 p., 3 l. iv pl. 31<sup>em</sup>. (Novara expedition. Zoologischer theil. Bd II) Agr 3-357

**Schiner, J. Rudolf.** Fauna austriaca. Die fliegen (Diptera). Nach der analytischen methode bearbeitet, mit der charakteristik sämtlicher europäischer gattungen, der beschreibung aller in Deutschland vorkommenden arten und der aufzählung aller bisher beschriebenen europäischen arten, von J. Rudolph Schiner . . . Wien, C. Gerold's sohn, 1862-64.

2 v. 23<sup>em</sup>.

"Ueber die für das studium der dipteren wichtigeren werke und schriften: th. i, p. xxvi-xxxiv.

**Schoch, Gustav.** Fauna insectorum Helvetiæ. Diptera. Die familien der fliegen und die genera und species der waffenfliegen, bremsen, schwebfliegen und raubfliegen. Analytisch zusammengestellt von Dr. Gustav Schoch. Schaffhausen, Buchdruckerei von Bolli & Böcherer, 1890.

27 p. 23½<sup>em</sup>.

**Theobald, Frederick Vincent.** An account of British flies (Diptera). By Fred. V. Theobald. London, E. Stock, 1892.

v. 1. illus., iv pl. 21¼<sup>em</sup>.

**Townsend, Charles Henry Tyler.** Notes on the Diptera of Baja California, including some species from adjacent regions [San Francisco, 1895]

[593]-620 p. 24<sup>em</sup>.

Extract from Proc. Cal. acad. sci. ser. 2, vol. iv.

**Verrall, George Henry.** British flies . . . vol. VIII. By G. H. Verrall. London, Gurney & Jackson, 1900.

3 p. 1., 691, 121 p. front. (port.) illus. 25<sup>em</sup>.

"Catalogue of the Platyperidæ of the European district with references and synonymy. By G. H. Verrall. 1900." p. 1-6 at end; "Catalogue of the Pipunculidæ of the European district with references and synonymy. By G. H. Verrall. 1900." p. 7-16 at end; "Catalogue of the Syrphidæ of the European district with references and synonymy. By G. H. Verrall. 1900." p. 17-120 at end.

CONTENTS.—VIII. Platypezidæ, Pipunculidæ and Syrphidæ of Great Britain.

**Walker, Francis.** Insecta britannica. Diptera . . . By Francis Walker, F. L. S. London, Reeve and Benham, 1851-56.

3 v. xxx pl. 23<sup>em</sup>.

**White, Adam.** List of the specimens of British animals in the collection of the British museum. Pt. xv. Nomenclature of diptera. i. London, Printed by order of the trustees, 1853.

2 p. 1., 42 p. 18<sup>em</sup>.

Printed on one side of leaf only.

**Wulp, Frederick Maurits van der.** . . . Diptera, door F. M. van der Wulp. [Leiden, 1881]

60 p. III col. pl. 28½<sup>em</sup>.

At head of title: Natuurlijke historie. Negende afdeling.

From Midden-Sumatra, Reisen en onderzoekingen der Sumatra-Expeditie, IV, 2<sup>de</sup> aflevering.

Caption title.

"Aangehaalde werken": p. 3-5.



**Wulp, Frederick Maurits van der.** Nieuwe naamlijst van nederlandsche diptera, door F. M. van der Wulp en Dr. J. C. H. de Meijere . . . 's Gravenhage, M. Nijhoff, 1898.

4 p. l., 149 p. 24 $\frac{1}{2}$ cm.

Uitgegeven door de Nederlandsche entomologische vereeniging als Bijvoegsel tot deel xli van het Tijdschrift voor entomologie.

**Zetterstedt, Johann Wilhelm.** Diptera Scandinaviæ disposita et descripta. Auctore ph. d: re Johanne Wilhelm Zetterstedt . . . Lundæ, ex officina Lundbergiana, sumtibus auctoris, 1842-60.

14 v. front. (port.) 19 $\frac{1}{2}$ cm.

Paged continuously, 6609 p.

Imprint of v. 4-12: ex officina Lundbergiana, sumtibus regis, 1845-60.

## FAMILIES.

### CECIDOMYIIDÆ.

**Akerly, Samuel.** An account of the wheat insect of America, or the *Tipula vaginalis tritici*, commonly called the Hessian fly. [New York, 1817]

275-279 p. illus. 23cm.

From the American monthly magazine and critical review, v. 1, no. 4, Aug. 1817.

**Bremi-Wolf, Johann Jacob.** Beiträge zu einer monographie der gallmücken, *Cecidomyia* Meigen, von J. J. Bremi in Zürich. [Zürich, Auf kosten der gesellschaft gedruckt von Zürcher & Furrer; etc., etc., 1847]

71 p. 2 col. pl. 25 $\frac{1}{2}$ cm.

From Neue denkschriften der Allgemeinen schweizerischen gesellschaft für die gesammten naturwissenschaften. bd. 9.

**Campbell, Francis Maule.** The Hessian fly, a paper read before the Hertfordshire natural history society, on the 24th of May, 1887, at Hertford . . . Hertford, 1887.

1 p. l., [180]-192 p. illus. 21 $\frac{1}{2}$ cm.

From the 'Transactions of the Hertfordshire natural history society,' vol. iv, part 6, August, 1887.

**Cobb, N. A.** Insect-larva (*Cecidomyia* sp.) eating rust on wheat and flax . . . by N. A. Cobb and A. Sidney Olliff. Sydney, 1891.

[67]-70 p. illus. 25cm.

Extracted from vol. 11, pt. 2, of the Agricultural gazette of New South Wales.

**Cook, Albert John.** The Hessian fly. A lecture . . . delivered at Farmer's institutes held at Paw Paw and Climax, Mich., 1878 . . . [n. p., 1878]

14 p. illus. 23cm.

**Dawson, John William.** Notice of specimens of the wheat midge from Nova Scotia . . . [Philadelphia, 1849]

210-211 p. 24cm.

From Proceed. Acad. nat. sci. of Philadelphia.—vol. iv, no. xi.

**Fernald, Henry Torsey.** . . The Hessian fly in wheat; its life history and treatment . . . [Harrisburg] 1898.

4 p. illus. 21 $\frac{1}{2}$ cm.

At head of title: Commonwealth of Pennsylvania. Department of Agriculture. Division of zoology.

**Fitch, Asa.** The Hessian fly, its history, character, transformations and habits. By Asa Fitch . . . Albany, printed by J. Munsell, 1846.

Agr 5-516

63 p. pl. 33cm.

Originally published in the American journal of agriculture and science, vols. iv., v.

**Fletcher, James.** The clover-seed midge (*Cecidomyia leguminicola*, Lintner) [Ottawa, 1886]

[3] p. illus. 21 $\frac{1}{2}$ cm.

Pub. by the Dept. of agriculture, Ottawa.

**Forbes, Stephen Alfred.** Contribution to a knowledge of the life history of the Hessian fly (*Cecidomyia destructor*, Say). Springfield, Ill., 1887.

[45]-61 p. illus. 22½<sup>cm</sup>. (Office of the state entomologist of Illinois, Bulletin no. 3)

**Forbes, Stephen Alfred.** . . . The Hessian fly. [Springfield, Ill.? 1890]

[4] p. illus. 23<sup>cm</sup>.

From June crop report, Illinois state board of agriculture.

**Froggatt, Walter Wilson.** . . . The Hessian fly (*Cecidomyia destructor*, Say) and allied grain pests . . . Sydney, 1900.

1 p. l., 6 p. pl. 24½<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 369)

From Agricultural gazette of N. S. Wales, vol. xi, April, 1900.

"Bibliography:" p. 5-6.

**Garman, Harrison.** Time of emergence and oviposition of the spring brood of the Hessian fly. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 115. Washington, 1902. pp. 127-128)

**Great Britain—Board of agriculture.** . . . The pear midge. (*Diplosis pyrivora*, Riley. *Cecidomyia nigra*, Meigen.) [London, 1898]

4 p. illus. 22<sup>cm</sup>. (*Its Leaflet* no. 53)

**Great Britain—Dept. of agriculture.** Copies of circulars and memoranda which have been issued by the Lords of the committee of Council for agriculture relating to the Hessian fly. Presented to both Houses of Parliament by command . . . London, Printed for H. M. Stationery off., by Eyre and Spottiswoode, 1887.

18 p. illus. 24<sup>cm</sup>.

Largely by Charles Whitehead.

**Haberlandt, Friedrich.** *Cecidomyia destructor* Say. Weizengallmücke oder weizenverwüster . . . Wien, 1864.

6 p. 20½<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1864> besonders abgedruckt.

**Harker, Allen.** On the gall-midges (*Cecidomyidæ*) An introductory paper . . . Gloucester [Eng.] 1887.

cover-title, [220]-228 p. 24½<sup>cm</sup>.

**Herrick, E. C.** Observations communicated at the request of the Hon. H. L. Ellsworth by E. C. Herrick, librarian of Yale College, Conn. The Hessian fly. (U. S. Patent office. Report of the Commissioner of patents, showing the operations of the Patent office during the year 1844. Washington, 1845. p. 161-167)

**Kieffer, Jean Jaques.** Description de quelques larves de cécidomyies . . . [Paris, 1895]

6, 11 p. illus. 26<sup>cm</sup>.

"Extrait de la Feuille des jeunes naturalistes [III. sér., 25. année]"

**Kieffer, Jean Jaques.** Observations sur les nymphes des cécidomyies . . . [Paris, 18—]

4 p. illus. 26<sup>cm</sup>.

"Extrait de la Feuille des jeunes naturalistes."

**Kieffer, Jean Jaques.** . . . Les œufs des cécidomyies . . . Rouen, 1894.

cover-title, [4] p. illus. 28<sup>cm</sup>.

Extrait de l'Ami des sciences naturelles.

**Kieffer, Jean Jaques.** Synopse des cécidomyies d'Europe et d'Algérie décrites jusqu'à ce jour, par l'abbé J.-J. Kieffer, professeur à Bitche. <Novembre 1897>

[n. p., 1897?]

63 p. 21½<sup>cm</sup>.

Caption title.

— Suite à la Synopse des cécidomyies d'Europe et d'Algérie, par l'abbé J.-J. Kieffer. Novembre 1900. [Caen, 1900]

[9]-43 p. 21½<sup>cm</sup>.

From Revue d'entomologie.

- Kieffer, Jean Jaques.** Ueber lothringische gallmücken . . [Wien, 1890]  
10 p. 23<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1890>  
besonders abgedruckt [p. 197-201]
- Kirk, Thomas W.** . . . Hessian fly (*Cecidomyia destructor*) . . . [Wellington, 1893?]  
[2] p. illus. 24 $\frac{1}{2}$ <sup>em</sup>. (New Zealand, Department of agriculture. Leaflets for farmers, no. 1)
- Lindemann, Karl Eduardovich.** Гессенская муха (*Cecidomyia destructor*).  
К. Э. Линдемана. [п. р., 188-?]  
31 p. 21<sup>em</sup>.  
The Hessian fly.
- Lindemann, Karl Eduardovich.** Гессенская муха. Монография профессора  
К. Э. Линдемана. Черниговъ, Земская типографія, 1889. Agr 4—489  
1 p. l., 115, [1] p. 27<sup>em</sup>.  
Hessian fly. A monograph. •  
Издание редакци “Земскаго сборника Черниговской губ.”
- Lindemann, Karl Eduardovich.** Die hessenfliege (*Cecidomyia destructor* Say)  
in Russland . . . Moscou, 1887.  
1 p. l., 103 p. illus. 23 $\frac{1}{2}$ <sup>em</sup>.  
“Extrait du Bulletin de la Société impér. des naturalistes de Moscou. 1887. n° 2.”
- Lindemann, Karl Eduardovich.** Die pteromalinen der hessenfliege (*Cecidomyia destructor* Say) . . . [Москва, 1887]  
15, [1] p. illus. 24 $\frac{1}{2}$ <sup>em</sup>.  
“Изд. Императорскаго московскаго общества испытателей природы.”
- Löw, Franz.** Beiträge zur kenntniss der gallmücken . . . [Wien, 1874]  
20 p. pl. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1874>  
besonders abgedruckt.
- Löw, Franz.** Beiträge zur naturgeschichte der gallenerzeugenden cecidomyiden  
. . . [Wien, 1885]  
28 p. pl. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1885>  
besonders abgedruckt [p. 483-510]
- Löw, Franz.** Bemerkungen über Weyenbergh's *Lasioptera hieronymi* . . .  
[Wien, 1885]  
4 p. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1885>  
besonders abgedruckt [p. 511-514]
- Löw, Franz.** Cecidiologische notizen . . . [Wien, 1886]  
6 p. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1886>  
besonders abgedruckt.
- Löw, Franz.** Mittheilungen über gallmücken . . . Wien, 1878.  
22 p. pl. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1878>  
besonders abgedruckt.
- Löw, Franz.** Ueber gallmücken . . . Wien, 1877.  
40 p. pl. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1877>  
besonders abgedruckt.
- Löw, Franz.** Ueber neue und einige ungenügend gekannte cecidomyiden der  
Wiener gegend . . . [Wien, 1875]  
[13]-32 p. pl. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1875>  
besonders abgedruckt.

- Löw, Franz.** Ueber neue gallmücken und neue mückengallen . . . [Wien, 1880]  
10 p. 22<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1880>  
besonders abgedruckt [p. 31-40]
- Marchal, Paul.** La cécidomyie de l'avoine (*Cecidomyia avenæ*, nov. sp.) . . .  
[Paris, 1895]  
3 p. 27<sup>em</sup>.  
From Comptes rendus des séances de l'Académie des sciences, vol. 120, p. 1283-1285.
- Marlatt, Charles Lester.** Hessian fly (*Cecidomyia destructor* Say) Washington, 1895.  
4 p. 23<sup>em</sup>. (U. S. Agriculture, Dept of—Entomology, Division of. Circular, ser. 2, no. 12)
- Meinert, Frederik Vilhelm August.** Om æggets anlæg og udvikling og om embryonets første dannelse i miastorlarven . . . Kjøbenhavn, 1872.  
1 p. l., [345]-378 p. pl. 22½<sup>em</sup>.  
Af "Naturhistorisk tidsskrift" 3. r. 8. b.
- Meinert, Frederik Vilhelm August.** Om en ny slægt med ynglende larveform af cecidomyiernes familie . . . Kjøbenhavn, 1870.  
1 p. l., [463]-466 p. 22½<sup>em</sup>.  
Af "Naturhistorisk tidsskrift" 3. r. 6. b.
- Mik, Josef.** *Cecidomyia beckiana* n. sp. auf *Inula conyza* D C . . . Wien, 1885.  
12 p. illus., pl. 22½<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1885>  
besonders abgedruckt [p. 137-146]
- Ormerod, Eleanor Anne.** The Hessian fly, *Cecidomyia destructor* in Great Britain: being observations and illustrations from life. With means of prevention and remedy from the Reports of the Department of agriculture, U. S. A. . . London, 1886.  
24 p. illus. 18½ cm.  
"Bibliographical references": p. 24.
- Ormerod, Eleanor Anne.** The Hessian fly, *Cecidomyia destructor*, in Great Britain in 1887 being mainly reports of British observations with illustrations from life and some means of prevention and remedy. By Eleanor A. Ormerod . . . London, Simpkin, Marshall & co., 1887.  
2 p. l., 56 p. incl. illus., double map. 18½<sup>em</sup>.  
Agr 5-532
- Ormerod, Eleanor Anne.** Hessian fly in New Zealand. [n. p., 1888]  
1 p. 22½<sup>em</sup>.
- Ormerod, Eleanor Anne.** Hessian fly. Report on insects injurious to wheat plants in New Zealand. [n. p., 1888]  
4 p. illus. pl. 31½<sup>em</sup>.
- Osborn, Herbert.** Hessian fly in the United States. Washington, 1898.  
57 p. illus., 2 pl., 1 map. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 16)  
"Bibliography": pp. 48-57.
- Packard, Alpheus Spring.** Hessian fly, its ravages, habits, enemies, and means of preventing its increase. Washington, 1880.  
43 p. illus., 2 pl., map. 23<sup>em</sup>. (U. S. Entomological commission. Bulletin 4)  
"List of works and articles relating to the Hessian fly": p. 41-48.
- Reuter, Enzo.** . . . Zwei neue cecidomyinen . . . Helsingfors, 1895.  
15 p. 11 pl. 25<sup>em</sup>. (Acta Societatis pro fauna et flora fennica, XI, no. 8)
- Riley, Charles Valentine.** On the parasites of the Hessian fly . . . [Washington] 1885.  
413-422 p., 1 l. 1 pl. 25<sup>em</sup>.  
From the Proceedings of the United States national museum, vol. VIII, 1885.
- Riley, Charles Valentine.** On the parasites of the Hessian fly . . . [Salem, Mass., 1886]  
332-334 p. 24½<sup>em</sup>.  
Abstract from the Proceedings of the American association for the advancement of science, vol. XXXIV, Ann Arbor meeting, August, 1885.

**Rondani, Camillo.** Stirpis cecidomyinarum genera revisa a Pr. Camillo Rondani, nota undecima, pro Dipterologia italica. [Milano, Tip. Bernardoni, 1861]

9 p. 1 pl. 22 $\frac{1}{2}$ <sup>em</sup>.

Caption title.

"Estratto dagli Atti della Società italiana di scienze naturali, vol. II.

**Rübsaamen, Ewald H.** Beschreibung neuer gallmücken und ihrer gallen [Berlin, 1889]

[373]-382 p. 22<sup>em</sup>.

From Zeitschrift für naturwissenschaften, bd. LXII, 1889.

**Rübsaamen, Ewald H.** Die gallmücken und gallen des Siegerlandes . . . [Bonn, 1890]

2 pts. 4 pl. (3 double) 21-22<sup>em</sup>.

From Verhandlungen des Naturhistorischen vereines der preussischen Rheinlande, Westfalens und des reg.-bezirks Osnabrück, 47. jahrg. 5. folge, 7. jahrg., pp. 18-58, 231-264.

**Rübsaamen, Ewald H.** Mittheilungen über gallmücken . . . [Wien, 1892]

14 p. illus., pl. 22 $\frac{1}{2}$ <sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1892> besonders abgedruckt.

**Schøyen, Wilhelm Maribo.** Den hessiske flue (Cecidomyia destructor Say), et for vort land nyt skadeinsekt paa kornagrene . . . [n. p., 189-]

9 p. illus. 22 $\frac{1}{2}$ <sup>em</sup>.

**Theobald, Frederick Vincent.** The Hessian fly in South Devon; and notes on some early fruit pests . . . Warrington, 1874.

10 p. pl. 21 $\frac{1}{2}$ <sup>em</sup>.

Reprinted from "The British naturalist."

**Thomas, Friedrich August Wilhelm.** Alpine mückengallen . . . Wien, 1892.

22 p. illus., VI-VII pl. 22 $\frac{1}{2}$ <sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1892> besonders abgedruckt.

**Thomas, Friedrich August Wilhelm.** Beobachtungen über mückengallen . . . Gotha, 1892.

16 p. 25 $\frac{1}{2}$ x20 $\frac{1}{2}$ <sup>em</sup>.

Separatabdruck der wissenschaftlichen beilage zum Programme des Gymnasium Gleichense zu Ohrdruf.

**Thomas, Friedrich August Wilhelm.** Cecidomyia pseudococcus n. sp. und ihre lebensweise. Zwei abhandlungen von Dr. Friedrich A. W. Thomas . . . und Ew. H. Rübsaamen . . . Wien, 1890.

1 p. l., 10 p. pl. 23<sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1890> besonders abgedruckt.

**Thomas, Friedrich August Wilhelm.** . . . Die mückengallen der birkenfrüchte. [München, 1893]

[463]-465 p. 23<sup>em</sup>.

Sonder-abdruck aus der "Forstlich-naturwissenschaftlichen zeitschrift." 12. hft., 1893.

**Thomas, Friedrich August Wilhelm.** Ein neuer stachelbeerfeind . . . [Berlin, 1877]

[131]-135 p. illus. 21 $\frac{1}{2}$ <sup>em</sup>.

From Zeitschrift für die gesammten naturwissenschaften, bd. 49, 1877.

**Thomas, Friedrich August Wilhelm.** Ueber einige neue deutsche cecidien. See under Eriophyidae, p. 473.

**Thomas, Friedrich August Wilhelm.** . . . Zur beziehung zwischen pilzen einerseits und gallen sowie gallmückenlarven andererseits . . . [Sondershausen, 1885]

[1] p. 24<sup>em</sup>.

Separat-abdruck aus "Irmischia," korrespondenzblatt des Botanischen vereins für Thüringen . . . jahrg. v, no. 1, p. 4, 1885.

**Webster, Francis Marion.** The chinch bug and Hessian fly. *See under* Lygaeidæ, p. 375.

**Webster, Francis Marion.** Meteorological influences on the development of the Hessian fly . . . New York, 1900.

6 p. 23<sup>em</sup>.

From the Proceedings of the Twenty-first annual meeting of Society for promotion agricultural science, 1900.

**Webster, Francis Marion.** . . . Studies of the habits and development of *Neocerata rhodophaga* Coquillet . . . [Urbana, Illinois, 1904]

15-25 p. col. pl. 25<sup>1</sup>/<sub>4</sub><sup>em</sup>.

From the Bulletin of the Illinois state laboratory of natural history, vol. VII, article II.

**Wheeler, William Morton.** . . . On two new species of cecidomyid flies producing galls on *Antennaria plantaginifolia* . . . [Milwaukee? 1889]

[209]-216 p. 22<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Reprinted from the Proceedings of the Wisconsin natural history society, April, 1889.

**Whitehead, Charles.** Report of the Commissioners appointed by the government to inquire into the present visitation of the Hessian fly on corn crops in Great Britain. Presented to both Houses of Parliament by command . . . London, Printed for H. M. Stationery off., by Eyre and Spottiswoode, 1887.

11, [1] p. 24<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Signed by Charles Whitehead and C. W. Gray.

**Whitehead, Charles.** Report on the Hessian fly, giving its life history, and methods of prevention, and remedies, prepared for the Agricultural department, Privy council office, by Charles Whitehead . . . 1886. London, Printed by Eyre and Spottiswoode, 1886.

Agr 4-45

20 p. illus. 24<sup>1</sup>/<sub>4</sub><sup>em</sup>.

**[Winnertz, Johann]** [Beitrag zu einer monographie der gallmücken] [Berlin, E. S. Mittler und sohn, 1853]

[154]-322 p. iv pl. 21<sup>em</sup>.

From *Linnaea entomologica*, bd. 8.

#### MYCETOPHILIDÆ.

**Arribálzaga, Félix Lynch.** *Dipterología argentina; Mycetophilidæ* . . . Buenos Aires, 1892.

75 p. II pl. 25<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Artículo publicado en el Boletín de la Academia nacional de ciencias de Córdoba, tomo XII, páginas 377 á 436 y 471 á 483.

"Bibliografía": p. 64-74.

**Bos, Jan Ritzema.** . . De legerworm. [Amsterdam, 1893]

9 p. 23<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Overgedrukt uit de "Vragen van den dag," 1893.

**Giard, Alfred.** . . Sur l'éthologie des larves de *Sciara medullaris* [Paris] 1902.

7 p. 27<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Extrait des Comptes rendus des séances de l'Académie des sciences, t. CXXXIV, p. 1179 (séance du 26 mai 1902)

**Giard, Alfred.** . . Sur la spermatogenèse des diptères du genre *Sciara* . . . [Paris] 1902.

4 p. 27<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Extrait des Comptes rendus des séances de l'Académie des sciences, t. CXXXIV, p. 1124 (séance du 20 mai 1902)

**Winnertz, Johann.** Beitrag zu einer monographie der pilzmücken, von J. Winnertz . . . [Wien, 1863]

[637]-964 p. 4 pl. 23<sup>1</sup>/<sub>4</sub><sup>em</sup>.

From *Verhandl. der K. K. Zool.-bot. ges.*, bd. XIII, 1863.

**Winnertz, Johann.** Beitrag zu einer monographie der sciarinen von Joh. Winnertz . . . Hrsg. von der K. K. Zoologisch-botanischen gesellschaft in Wien. Vorgelegt in der sitzung vom 6. märz 1867. Wien, W. Braumüller; [etc., etc.] 1867. 187 p. 1 pl. 22½<sup>mm</sup>.

## BLEPHAROCERIDÆ.

**Kellogg, Vernon Lyman** . . . The net-winged midges (Blepharoceridæ) of North America, by Vernon L. Kellogg . . . Stanford university, Cal., 1903. Agr 3—600 2 p. l., 187—232 p. xviii—xxii pl. 25½<sup>mm</sup>. (Contributions to biology from the Hopkins seaside laboratory of the Leland Stanford jr. university. xxx)

Reprinted from the Proceedings of the California academy of sciences, 3d ser., zoology, vol. III.

**Müller, Fritz, i. e., Johann Friedrich Theodor.** Paltostoma torrentium. Eine mücke mit zwiegestaltigen weibchen . . . [n. p., 18—] [37]—42 p. illus. 23<sup>mm</sup>.

## CULICIDÆ.

**Arribáizaga, Félix Lynch.** . . . Dipterología argentina, por Félix Lynch Arribáizaga. [La Plata] Talleres del Museo de La Plata, 1891.

72, [2] p. iv [i. e. 5] pl. (partly col.) 27¼<sup>mm</sup>.

A monograph of the Culicidæ.

At head of title: Revista del Museo de La Plata. Director: Francisco P. Moreno. (Estracto del tomo I, páj. 345 y siguientes)

"Autores y obras que se mencionan, con explicación de las abreviaciones": p. [71—72]

**Berkeley, William N.** Laboratory work with mosquitoes, by William N. Berkeley . . . New York, Pediatrics laboratory, 1902.

v p., 1 l., 112 p. illus. 20<sup>mm</sup>.

**Beutenmüller, William.** . . . Essay on the destruction of the mosquito and house fly . . . [New York, 1890]

[97]—127, 161—179, 194—[197] p. incl. viii—ix pl. 22<sup>mm</sup>.

Preliminary catalogue of the described transformations of the Odonata of the world": p. 165—179.

From Dragon flies vs. mosquitoes. New York, D. Appleton and company, 1890.

**Blanchard, Raphaël.** . . . Transmission de la filariose par les moustiques . . . Paris, 1900.

[280]—291 p., col pl., port. 26<sup>mm</sup>.

Extrait des Archives de parasitologie, III, no. 2.

**Child, Charles Manning.** Ein bisher wenig beachtetes antennales sinnesorgan der insekten, mit besonderer berücksichtigung der culiciden und chironomiden . . . Leipzig, 1894.

cover-title, [475]—528 p. xxx—xxxii fold. pl. 23¼<sup>mm</sup>.

"Litteraturverzeichniss": p. 525.

Separat-abdruck aus "Zeitschrift für wissenschaftliche zoologie." LVIII, 3.

**Christy, Cuthbert.** Mosquitos and malaria; a summary of knowledge on the subject up to date; with an account of the natural history of some mosquitos. By Cuthbert Christy . . . London, S. Low, Marston and company, ltd., 1900.

ix, [1] p., 1 l., 80 p. v pl., diag. 22<sup>mm</sup>.

**Dönitz, Wilhelm.** Beiträge zur kenntniss der Anopheles. Von W. Dönitz . . . Leipzig, Veit & co., 1902.

[15]—88 p. 2 pl. 23¼<sup>mm</sup>.

Separat-abdruck aus der Zeitschrift für hygiene und infectionskrankheiten . . . 41. bd.

**Dragon flies vs. mosquitoes.** Can the mosquito pest be mitigated? Studies in the life history of irritating insects, their natural enemies and artificial checks, by working entomologists. With an introduction by Robert H. Lamborn, Ph. D. New York, D. Appleton and company, 1890.

Agr 5—55

1 p. l., 202 p. incl. 8 pl. col. front. 21¼<sup>mm</sup>. (On cover: The Lamborn prize essays)

CONTENTS.—Introduction. By R. H. Lamborn.—The dipterous enemies of man. By Mrs. C. B. Aaron.—Utility of dragon flies as destroyers of mosquitoes. By A. C. Weeks.—The destruction of the mosquito. By Wm. Beutenmüller.—Dragon flies as mosquito hawks on the western plains. A letter from Capt. C. N. B. Macauley.—Can the mosquito be exterminated? By H. C. McCook.—Appendix. Bibliography prepared by Mrs. C. B. Aaron, accompanying her essay. Bibliographical catalogue prepared by Wm. Beutenmüller, accompanying his essay.

**Giles, George Michael James.** Cold weather mosquito notes from the United Provinces, India . . . [London, 1904]

8 pts. illus. 28<sup>cm</sup>.

Title varies.

From the Journal of tropical medicine, 1904, p. 1-2, 22-23, 49-52, 83-86, 104-108, 120-123, 133-138, 149-152.

**Giles, George Michael James.** A handbook of the gnats or mosquitoes giving the anatomy and life history of the Culicidæ. By Major Geo. M. Giles . . . London, J. Bale, sons & Danielsson, Ltd., 1900.

viii; [2] p., 1 l., 374 p. fold. front., illus., vii pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

**Giles, George Michael James.** A handbook of the gnats or mosquitoes, giving the anatomy and life history of the Culicidæ, together with descriptions of all species noticed up to the present date, by Lieut.-Col. Geo. M. Giles . . . 2d ed., rewritten and enl. London, J. Bale, sons & Danielsson, Ltd., 1902.

4-19652

xi, [1], 530 p. illus., xvii pl. 24<sup>cm</sup>.

**Giles, George Michael James.** . . . Notes on some collections of mosquitoes, &c., received from the Philippine Islands and Angola; with some incidental remarks upon classification [London, 1904]

365-369 p. illus. 28<sup>cm</sup>.

From the Journal of tropical medicine, Dec. 1, 1904.

**Giles, George Michael James.** . . . Notes on some collections of mosquitoes received from abroad . . . [London, 1904]

pt. 1. illus. 28<sup>cm</sup>.

From the Journal of tropical medicine, Dec. 15, 1904, p. 381-384.

CONTENTS.—A revised tabulation of the genus *Tæniorhynchus*, Arribalzaga.

**Goeldi, Emil August.** . . . Os mosquitos no Pará. Resumo provisório dos resultados da campanha de experiências executadas em 1903, especialmente em relação ás espécies *Stegomyia fasciata* e *Culex fatigans* sob ó ponto de vista sanitario. 2.<sup>a</sup> contribuição pelo Prof. Dr. Emilio A. Goeldi . . . Pará, C. Wiegandt, 1904.

1 p. l., 69 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

Extracto do Boletim do Museu Goeldi, vol. iv, fasciculo 2.

**Howard, Leland Ossian.** . . . Concerning the geographic distribution of the yellow fever mosquito . . . Washington, 1903.

7 p. double col. map. 23<sup>cm</sup>. (Supplement. Treasury department. Public health and marine-hospital service. Public health reports. vol. xviii, no. 46)

**Howard, Leland Ossian.** How to distinguish the different mosquitoes of North America. Washington, 1900.

7 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 40)

**Howard, Leland Ossian.** Mosquitoes; how they live; how they carry disease; how they are classified; how they may be destroyed, by L. O. Howard . . . New York, McClure, Phillips & co., 1901.

1-12669

xv p., 1 l., 241 p. incl. front., illus. 21<sup>cm</sup>.

**Howard, Leland Ossian.** Mosquitoes and fleas. Washington, 1896.

6 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 13)

— — — Rev. ed. Washington, 1897.

5 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 13)

**Howard, Leland Ossian.** Notes on house flies and mosquitoes. *See under* Muscidæ, p. 273.

**Howard, Leland Ossian.** Notes on the mosquitoes of the United States: giving some account of their structure and biology, with remarks on remedies. Washington, 1900.

70 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 25)

**Hurst, Charles Herbert.** The pupal stage of *Culex* . . . Manchester [Eng.] "Guardian" printing works, 1890.

26 p., 1 l. fold. col. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

Inaug.-dis.—Leipzig.

Bibliography: p. 26.



**James, Sydney Price.** . . . Malaria in India, by Captain S. P. James . . . Issued under the authority of the government of India by the sanitary commissioner with the government of India, Simla. Calcutta, Office of the superintendent of government printing, India, 1902. Agr 3—1209

2 p. l., 106 p. illus., diagrs. 30<sup>em</sup>. (Scientific memoirs by officers of the medical and sanitary departments of the government of India. New ser., no. 2)

**James, Sydney Price.** A monograph of the Anopheles mosquitoes of India, by S. P. James . . . and W. Glen Liston . . . Calcutta, Thacker, Spink & co., 1904.

4 p. l., 132 p., 15 l. 30 pl. (15 col.) map. 28<sup>em</sup>.

**Lahille, Fernando.** Notes sur la classification des moustiques . . . Buenos Aires, Impr. Coni frères, 1904.

23, [4] p. illus., fold. tab. 25<sup>em</sup>.

Extrait de Actas y trabajos del Segundo congreso médico latino-americano, tomo II.

**Lawrence, L. I.—Board of health.** Mosquito extermination in practice. Report of experiments by the Board of health of Lawrence, Long Island. [New York, Press of L. H. Biglow & company, 1902] Agr 3—361

42 p. fold. col. map. 26<sup>em</sup>.

**Lutz, Adolph.** Waldmosquitos und waldmalaria . . . [Jena, 1903]

282-292 p. illus. 23<sup>em</sup>.

"Abdruck aus dem Centralblatt für bakteriologie, parasitenkunde und infektionskrankheiten. 1. abt. . . , xxxiii. bd., 1903, no. 4."

**Macloskie, George.** The poison-apparatus of the mosquito . . . [Philadelphia, 1888]

[884]-888 p. illus. 23<sup>em</sup>.

From the American naturalist, October, 1888.

**New Jersey. State agricultural college experiment station.** Report on the mosquito investigations . . . [by John B. Smith] [Trenton] 1902.

[509]-593 p. illus., plates (1 fold.) fold. plans. 22<sup>em</sup>.

"Literature cited": p. 593.

From the 23d annual report of the New Jersey state agricultural experiment station and the 15th annual report of the New Jersey agricultural college experiment station, 1902.

**New Jersey. State agricultural experiment station.** Report of the New Jersey state agricultural experiment station upon the mosquitoes occurring within the state, their habits, life history, &c. Prepared by John B. Smith . . . Trenton, MacCrellish & Quigley, state printers, 1904. Agr 5—291

v, 482 p. illus., plates (1 fold.) fold. plans. 23<sup>em</sup>.

**New York state museum.** . . . Mosquitos or Culicidæ of New York state. Albany, New York state education department, 1904. 5—26748

241-400, [5] p. illus., 57 pl. 23<sup>em</sup>. (New York state museum. Bulletin 79; Entomology 22)

Ephraim Porter Felt, state entomologist.

Bibliography: p. 374-381.

**North shore improvement association.** Reports on plans for the extermination of mosquitoes on the north shore of Long Island between Hempstead Harbor and Cold Spring Harbor. 1902. New York, Press of Styles & Cash, 1902.

1 p. l., 124, [1] p. 1 map. 23<sup>em</sup>.

Map in pocket.

**Polaillon, Henri.** Contribution à l'histoire naturelle et médicale des moustiques, par Henri Polaillon. Paris, O. Doin, 1901.

2 p. l., 128 p. illus. 25<sup>em</sup>.

"Bibliographie": p. [116]-126.

**Rich, Alonzo Berry.** Our near neighbor, the mosquito. By A. B. Rich. New York, London, [etc.] The Abbey press, publishers [1901]

58 p. 9 pl. 20<sup>em</sup>.

**Ross, Ronald.** Mosquito brigades and how to organise them, by Ronald Ross. New York, Longmans, Green, and co., London, G. Philip & son, 1902.

x, 100 p. 21<sup>em</sup>.

"Books": p. 97-100.

- Sajó, Karl.** Wechselfälle im leben der stechmücken . . . [Berlin, 1898]  
138-141 p. 30<sup>em</sup>.  
From Prometheus, jahrg. x, 1898.
- Schøyen, Wilhelm Maribo.** Om myggene . . . [n. p., 1889]  
16 p. 18<sup>1</sup>/<sub>2</sub><sup>em</sup>.  
From Folkev., ny række, XIII. bd., 1889.
- Sergent, Edmond.** La lutte contre les moustiques, une campagne antipaludique en Algérie, par le D<sup>r</sup> Edmond Sergent . . . Paris, J. Rueff, 1903. Agr 4-204  
2 p. l., 94, [2] p. incl. front. (map) illus. 19<sup>em</sup>.  
"Bibliographie de la prophylaxie du paludisme": p. [85]-94.
- Sergent, Edmond.** . . . Moustiques et maladies infectieuses; guide pratique pour l'étude des moustiques, par les D<sup>rs</sup> Edmond et Étienne Sergent . . . avec une préface du D<sup>r</sup> E. Roux . . . Paris, Masson et c<sup>ie</sup> [etc.] [1903] Agr 4-203  
176 p. illus. 19<sup>1</sup>/<sub>2</sub><sup>em</sup>. (*Half-title*: Encyclopédie scientifique des aide-mémoire publiée sous la direction de M. Léauté . . .)  
Series note also at head of t.-p.
- Smith, John Bernhard.** The mosquito investigation in New Jersey . . . [New York] 1905.  
[281]-286 p. illus. 25<sup>em</sup>.  
Reprinted from the Popular science monthly, vol. LXVI, January, 1905.
- Theobald, Frederick Vincent.** A monograph of the Culicidæ or mosquitoes. Mainly compiled from the collections received at the British museum from various parts of the world in connection with the investigation into the cause of malaria conducted by the Colonial office and the Royal society. By Fred. V. Theobald . London, Printed by order of the trustees, 1901-03.  
3 v. & plates (42 pl. (partly col.)) illus., 17 pl. (in v. 3) fold. diag. 22<sup>em</sup>.  
2 v. & separate vol. of 42 plates published in 1901. Vol. 3 published in 1903.
- Weeks, Henry Clay.** . . . Report in summary of Henry Clay Weeks, engineer in charge, in matter of the sanitary-economic improvement of the southern part of the borough of Brooklyn, New York city, to July 1, 1903. [Brooklyn, Eagle press, 1903] Agr 3-892  
24 p. 2 maps. 19<sup>1</sup>/<sub>2</sub><sup>em</sup>.  
An account of efforts for mosquito extermination.

## CHIRONOMIDÆ.

- Child, Charles Manning.** Ein bisher wenig beachtetes antennales sinnesorgan der insekten. See under Culicidæ, p. 255.
- Deby, Julien.** Description of a new dipterous insect, *Psamathomyia pectinata* . . . [London, 1889]  
7 p. pl. 23<sup>1</sup>/<sub>2</sub><sup>em</sup>.  
Reprinted from the Journal of the Royal microscopical society, 1889.
- Miall, Louis Compton.** The structure and life-history of the harlequin fly (*Chironomus*), by L. C. Miall, F. R. S., and A. R. Hammond, F. L. S. Oxford, Clarendon press, 1900.  
vi, [2], 136 p. front., illus. 22<sup>1</sup>/<sub>2</sub><sup>em</sup>.  
"Bibliography": p. 185-191.
- Winnertz, Johann.** Beitrag zur kenntniss der gattung *Ceratopogon* Meigen, von J. Winnertz . . . [Berlin, E. S. Mittler und sohn, 1852]  
80 p. VIII pl. 22<sup>em</sup>.  
Caption title.  
From *Linnaea entomologica*, bd. 6, p. 1-80.

## DEXIIDÆ.

- Townsend, Charles Henry Tyler.** . . . A dexiid parasite of a longicorn beetle . . . [Kingston, Jamaica, 1894]  
[2] p. 28<sup>em</sup>.  
Extract from the Journal of the Institute of Jamaica, vol. 1, pt. 3 [p. 105-106]

**Townsend, Charles Henry Tyler.** . . . A scorpion parasite . . . [Kingston, Jamaica, 1894]

[1] p. 27 x 22 $\frac{1}{2}$ <sup>cm</sup>.

Extract from the Journal of the Institute of Jamaica for Dec. 1892.

## TIPULIDÆ.

**Dziedziński, Henryk Ad.** Dem Herrn Professor Josef Mik, zur antwort, von Dr. Heinrich Dziedzicki . . . Warschau, Druck J. Berger's, 1887.  
cover-title, 11, [1] p. 21 $\frac{1}{2}$ <sup>cm</sup>.

**Great Britain—Board of agriculture.** . . . The daddy longlegs (*Tipula oleracea*) [London, 1894]

4 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>. (*Its* [Leaflet] 1894 [no.] 4)

— . . . The daddy longlegs or crane fly (*Tipula oleracea*) [London, 1898]

4 p. illus. 21 $\frac{1}{2}$ <sup>cm</sup>. (*Its* Leaflet no. 11)

**Huguenin, Gustav.** Fauna insectorum Helvetiæ. Diptera; familie Tipulidæ Schiner. Von Prof. Dr. G. Huguenin. Schaffhausen, Buchdruckerei von Bolli & Böcherer, 1888.

78 p. illus. 23<sup>cm</sup>.

— Nachträge von V. v. Röder . . . zur gattung *Anisomera* Mg. in der Fauna insectorum Helvetiæ Diptera p. 56, von Herrn professor Dr. G. Huguenin. [n. p., 18 —]

4 p. 23<sup>cm</sup>.

**Meinert, Frederik Vilhelm August.** . . . *Mochlonyx* (*Tipula*) *culiciformis* De G. . . . [Kjøbenhavn, 1883]

24 p. pl. 22<sup>cm</sup>.

Aftryk af Oversigt over d. K. D. Vidensk. selsk. Forhandl. 1888.

Summary in French, p. [20]–24.

**Mik, Josef.** Ueber die artrechte von *Tipula oleracea* L. und *Tipula paludosa* Meig., nebst einigen worten über das exstirpiren des hypopygiums der dipteren zum zwecke der artbeschreibung . . . [Wien, 1886]

475–483 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, jahrg. 1886.

**Osten Sacken, Karl Robert Romanovich, baron von.** New genera and species of North American Tipulidæ with short palpi, with an attempt at a new classification of the tribe . . . [Philadelphia, 1859]

197–256 p. 3–4 pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, Aug. 1859.

— — Appendix. [Philadelphia, 1860]

15–17 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, Jan. 1860.

**Osten Sacken, Karl Robert Romanovich, baron von.** Die Tanyderina, eine merkwürdige gruppe der tipuliden . . . [Wien, 1879]

6 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1879> besonders abgedruckt [p. 517–522]

**Schummel, Theodor Emil.** Versuch einer genauen beschreibung de[!] in Schlesien einheimischen arten der gattung *Tipula*. Meigen. Bachmücke. Von T. E. Schummel . . . Breslau, E. Pelz, 1833. Agr 5–531

1 p. l., vi, [9]–128 p. 3 pl. (1 col.) 18 $\frac{1}{2}$ <sup>cm</sup>. (*Added t. p.*: Beitræge zur entomologie besonders in bezug auf Schlesien. Hrsg. von T. E. Schummel und Fr. Herrm. Stannius . . . III)

## SIMULIDÆ.

**Fuller, Claude.** . . . A new poultry pest . . . Cape Town [1899]

8 p. illus. 24 $\frac{1}{2}$ <sup>cm</sup>. (Cape of Good Hope. Department of agriculture. [Publications] no. 1, 1899)

Reprinted from the Agricultural journal of January 5, 1899.

**Planchon, Jules Émile.** Histoire d'une larve aquatique du genre *Simulium*; par J.-E. Planchon . . . Montpellier, Typographie et lithographie de Boehm, 1844. 15 p. 28½<sup>em</sup>.

**Schönbauer, Joseph Anton.** Geschichte der schädlichen kolumbatzcer mücken im Bannat, als ein beytrag zur naturgeschichte von Ungarn. Von Joseph Anton Schönbauer . . . Wien, Gedruckt bey Ä. A. Patzowsky, 1795. 4 p. 1., 100 p. col. pl. 27<sup>em</sup>.

**Tömösváry, Ödön.** Die kolumbaczer mücke. Im auftrage des Königl Ung. ministeriums für ackerbau, industrie und handel verfasst von Dr. Edmund Tömösváry. Uebersetzt von Johann Weny . . . Ung.-Weisskirchen, T. Hepke [1885] 23, [1] p. pl. 22½<sup>em</sup>.

**Webster, Francis Marion.** Buffalo gnats (*Simulidæ*) in Indiana and Illinois . . . [Terre Haute, Ind., 1892] 155-159 p. 22<sup>em</sup>.  
From the Proceedings of the Indiana academy of science, 1891.

**Webster, Francis Marion.** *Simulium*, or buffalo gnats. (U. S. Agriculture, Dept. of—Animal industry, Bureau of. Fourth and fifth annual reports for the years 1887 and 1888. Washington, 1889. p. 456-465)

**Webster, Francis Marion.** . . . The suppression and control of the plague of buffalo gnats in the valley of the lower Mississippi river, and the relations thereto of the present levee system, irrigation in the arid west and tile drainage in the middle west . . . [Syracuse, 1904] [53]-72 p. illus. 23<sup>em</sup>.  
From the Proceedings of the twenty-fifth annual meeting of the Society for promotion of agricultural science.

## LEPTIDÆ.

**Bigot, Jacques Marie Frangile.** . . . Diptères nouveaux ou peu connus . . . Leptidi J. B. [Paris, 1887] 22 p., 11. 22½<sup>em</sup>.  
Extrait du Bulletin de la Société zoologique de France, t. xii, 1887.

**Burgess, Edward.** Two interesting American Diptera. *See under Bombyliidæ*, p. 263.

**Osten Sacken, Karl Robert Romanovich, baron von.** . . . A list of the Leptidæ, Mydaidæ and Dasypogonina of North America . . . [Buffalo, 1874] 169-187 p. 24½<sup>em</sup>.  
From Bul. Buf. soc. nat. sci. October, 1874.

## XYLOPHAGIDÆ.

**Fallén, Karl Fredrik.** Tabanii et xylophagei Sueciæ. *See under Tabanidæ*, p. 261.

## STRATIOMYIDÆ.

**Fallén, Karl Fredrik, præses.** Stratiomydæ Sueciæ. Quarum descriptionem venia ampl. fac. philos. lund. præside Carolo Fr. Fallen . . . pro laurea publicæ disquisitioni subijcti Olaus N. Olander . . . Lundæ, literis Berlingianis, 1817. Agr 3—166 1 p. l., 14 p. 21 x 18<sup>em</sup>.  
Forms part of his *Dipterorum, antennis parum articulatis instructorum, sectio prior* (Diptera suecica, v. 1) *See his Dispositio dipterorum synoptica*, p. 7-8; Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

## TABANIDÆ.

**Bigot, Jacques Marie Frangile.** . . . Diptères nouveaux ou peu connus . . . [Genre *Hæmatopota*] Paris, 1891. cover-title, 6 p. 25½<sup>em</sup>.  
Extrait du Bulletin de la Société zoologique de France [t. xvi, p. 74, séance du 24 février 1891]

- Bigot, Jacques Marie Frangile.** . . . Diptères nouveaux ou peu connus . . . [Tabanidi (J. B.)] Paris, 1891.  
cover-title, 12 p. 26½<sup>cm</sup>.  
Extrait des Mémoires de la Société zoologique de France [t. iv, p. 408, année 1891]
- Brauer, Friedrich.** Beitrag zur verwandlungsgeschichte der regenbremse (*Hæmatopota pluvialis* L.) . . . [Wien, 1869]  
2 p. pl. 22<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1869> besonders abgedruckt.
- Fallén, Karl Fredrik.** Tabanii et xylophagei Sueciæ. Quorum descriptionem venia ampl. facult. philos. lund. præside Carolo Fr. Fallén . . . pro laurea publica disquisitioni subicit Gust. Wahlberg . . . Lundæ, literis Berlingianis, 1817.  
14 p. 21 x 18<sup>cm</sup>. Agr 3—161  
Forms part of his *Dipterorum, antennis parum articulatis instructorum, sectio prior* (*Diptera suecica*, v. 1) See his *Dispositio dipterorum synoptica*, p. 7-8; Hagen, *Bibliotheca entomologica*, v. 1, p. 27.
- Hine, James Stewart.** . . . Tabanidae of Ohio, with a catalogue and bibliography of the species from America north of Mexico. [By] James S. Hine . . . Columbus, Press of Spahr & Glenn, 1903. Agr 3—920  
57, [6] p. incl. 2 pl. 23<sup>cm</sup>. (Ohio state academy of science. Special papers, no. 5)  
*On cover:* . . . Ohio state university. Contributions from the Dept. of zoology and entomology, no. 10 . . . <Reprinted from Ohio academy of science, Special papers, no. 5, 1903.> Columbus, Pub. by the University, 1903.  
"A partial bibliography of literature on North American Tabanidæ published previous to Osten Sacken's prodrome of a monograph of the Tabanidæ of the United States": p. 15-19.
- Hine, James Stewart.** . . . Tabanidae of the western United States and Canada, by James S. Hine . . . Columbus, Published by the University, 1904.  
[217]-248 p. 23½<sup>cm</sup>. (Ohio state university. Contributions from the Department of zoology and entomology. no. 21)  
Reprinted from *Ohio naturalist*, vol. v, pages 217-248, December, 1904.  
"List, synonymy, and bibliography of species treated in this paper": p. 245-248.
- Kertész, Coloman.** Catalogus tabanidarum orbis terrarum universi, conscripsit Dr. Colomannus Kertész. (A Musæo nationali hungarico editus) Budapestini, typis Societatis Franklinianæ, 1900.  
78, [1] p. 27<sup>cm</sup>.  
From *Természetrájszi füzetek*, v. xxiii, 1900.
- Loew, Hermann.** Versuch einer auseinandersetzung der europäischen Chrysopeps-arten . . . [Wien, 1858]  
[613]-634 p. 20½<sup>cm</sup>.  
From *Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien*. jahrg. 1858.
- Loew, Hermann.** Zur kenntniss der europäischen Tabanus-arten . . . [Wien, 1858]  
[578]-612 p. 20½<sup>cm</sup>.  
From *Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien*. jahrg. 1858.
- Osten Sacken, Karl Robert Romanovich, baron von.** . . . Prodrome of a monograph of the Tabanidæ of the United States . . . By C. R. Osten Sacken. Boston, Published by the Society, 1875-76. Agr 4—3578-9  
2 pts. 28<sup>cm</sup>.  
From the *Memoirs of the Boston society of natural history*. vol. 2, p. 365-397, 421-479.  
CONTENTS.—pt. I. The genera *Pangonia*, *Chrysops*, *Silvius*, *Hæmatopota*, *Diabasis*.—pt. II. The genus *Tabanus*.  
— — — Supplement. [Boston, 1875] Agr 4—3578-9  
555-560 p. 28<sup>cm</sup>.  
Caption title.  
From the *Memoirs of the Boston society of natural history*. vol. 2, p. 555-560.
- Townsend, Charles Henry Tyler.** On the horse flies of New Mexico and Arizona . . . [Topeka, 1893]  
133-135 p. 23<sup>cm</sup>.  
From *Transactions of the Twenty-fourth and twenty-fifth annual meetings of the Kansas academy of science* (1891-'92) vol. XIII.

**Williston, Samuel Wendell.** Notes and descriptions of North American Tabanidæ . . . [Topeka, Kan., 1887]

129-142 p. 22<sup>cm</sup>.

From Transactions of the eighteenth and nineteenth annual meetings of the Kansas academy of science, (1885-86) vol. x.

**Williston, Samuel Wendell.** Some interesting new Diptera. *See below under Nemistrinidæ.*

#### ASILIDÆ.

**Fallén, Karl Fredrik, præses.** Asilici Sueciæ. Quorum descriptionem cons. ampl. facult. philos. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit Johannes Gust. Waldenström . . . Lundæ, litteris Berlingianis, 1814. Agr 3-164

1 p. l., 14 p. 18½ x 16<sup>cm</sup>.

Forms part of his Diptera, antennis parum articulatis instructorum, sectio prior (Diptera suecica, v. 1) See his Dispositio dipteriorum synoptica, p. 7-8; Hagen, Bibliotheca entomologica, v. 1, p. 227.

**Loew, Hermann.** Bemerkungen über die familie der asiliden. Vom Prof. Dr. H. Loew . . . Berlin, E. S. Mittler & sohn, 1851.

22 p. 24 x 19½<sup>cm</sup>.

**Osten Sacken, Karl Robert Romanovich, baron von.** A list of the Leptidæ, Mydaidæ and Dasypogonina of North America. *See under Leptidæ.*

**Schiner, J. Rudolf.** Wiedemann's asiliden. Interpretirt und in die mittlere errichteten neuen gattungsgruppen eingereiht; nebst einem verzeichnisse der bisher publicirten asiliden . . . Wien, 1866.

1 p. l., 74 p. 1 pl. 21½<sup>cm</sup>.

Original plate wanting. Copy substituted.

Separat-abdruck aus den Verhandlungen der K. K. Zoolog.-botan. gesellschaft in Wien, jahrgang 1866, bd. xvi.

#### APIOCERIDÆ.

**Coquillett, Daniel William.** A new Rhabdomidas from California. [n. p., 1891?]

12-14 p. 24½<sup>cm</sup>.

From the West American scientist, v. 7, p. 84-86.

**Williston, Samuel Wendell.** . . . On the Apioceridæ and their allies . . . [Lawrence, Kan., 1893]

101-118 p., 2 l. illus., ix-x pl. 24½<sup>cm</sup>.

From Kansas university quarterly. vol. i, no. 3, January, 1893.

#### NEMISTRINIDÆ.

**Brauer, Friedrich.** Entomologische beiträge . . . Wien, 1884.

6 p. pl. 22<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1884> besonders abgedruckt.

**Riley, Charles Valentine.** Larval stages and habits of the bee-fly, Hirmoneura. [Cambridge, Mass., 1883]

[2] p. illus. 20<sup>cm</sup>.

From Science, v. 1, p. 332-334.

**Williston, Samuel Wendell.** . . . Some interesting new Diptera . . . [New Haven? 1880]

cover-title, [243]-246 p. illus. 22½<sup>cm</sup>.

From Transactions of Connecticut academy, vol. iv, pt. 2, 1880.

## RHOPALOMERIDÆ.

- Thomas, Friedrich August Wilhelm.** Zwei hochalpine Rhopalomyia-arten . . . Wien, 1893.  
9 p. illus. 23<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1893> besonders abgedruckt.

## MIDAIDÆ.

- Osten Sacken, Karl Robert Romanovich, baron von.** A list of the Leptidae, Mydaiidae and Dasypogonina of North America. *See under* Leptidæ, p. 260.
- Wiedemann, Christian Rudolph Wilhelm.** Monographia generis midarum a C. R. G. Wiedemann . . . (Academiae trad. d. vi. jul. a. MDCCCXXXIX) [Halle, 1831]  
1 p. l., [21]—56 p. LII—LIV col. pl. 28½<sup>em</sup>.  
From Nova acta Acad. Caes. Leop.-Carol. germ. 15, p. 2.

## BOMBYLIIDÆ.

- Burgess, Edward.** . . . Two interesting American Diptera, *Glutops singularis* and *Epibates Osten-Sackenii*. [Boston, 1878]  
cover-title, 320—324 p. pl. 23<sup>em</sup>.  
From the Proceedings of the Boston society of natural history, vol. XIX, February 27, 1878.
- Coquillett, Daniel William.** New Bombylidæ of the group *Paracosmus*. [Orcutt, Calif., 1891]  
3—6 p. 25<sup>em</sup>.  
From Science and horticulture, vol. I, no. 5, September 1891.
- Coquillett, Daniel William.** Revision of the bombylid genus *Aphœbantus*. [n. p., 1891?]  
6—16 p. 24<sup>em</sup>.  
From the West American scientist, v. 7, p. 254—264.

- Fallén, Karl Fredrik, præses.** *Anthracidæ Sueciæ*. . . Lundæ, litteris Berlingianis. Agr 3—162  
8, [2], 9—16 p. 22½ x 17½<sup>em</sup>.  
Dis.—Lund.  
Consists of two dissertations, each having its own title-page, but with text and paging continuous.  
p. 1—8: respondent, Eric. Henricus Berglund. p. 9—16: respondent, Haquinus Lundberg.  
Forms part of his *Dipterorum, antennis parum articulatis instructorum, sectio prior* (*Diptera suecica*, v. 1) See his *Dispositio dipterorum synoptica*, p. 7—8; *Hagen, Bibliotheca entomologica*, v. 1. p. 227.

- Fallén, Karl Fredrik.** *Platypezinæ et Bombylarii sueciæ*. *See under* Platypezidæ, p. 266.
- Townsend, Charles Henry Tyler.** The pupa of *Argyramœba œdipus* Fab. [Philadelphia, 1893]  
60—63 p. 24<sup>em</sup>.  
From the American naturalist, January, 1893.

## SCENOPINIDÆ.

- Fallén, Karl Fredrik.** *Scenopiniæ et Conopsariæ Sueciæ*. *See under* Conopidæ, p. 265.

## ACROCERIDÆ.

- Brauer, Friedrich.** Beitrag zur biologie der acroceriden . . . [Wien, 1863]  
4 p. pl. 22½<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1869> besonders abgedruckt.

## EMPIDÆ.

**Coquillett, Daniel William.** . . . Revision of the North American Empidæ—a family of two-winged insects . . . Washington, 1896.

387-440 p. 25<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xviii, p. 387-440 [No. 1073]

**Fallén, Karl Fredrik, præses.** Empidæ Sueciæ . . . Lundæ, litteris Berlingianis, 1815-16. Agr 3-165

16, [2], 17-24 p., 1 l., 25-34 p. 18½ x 16<sup>cm</sup>.

Inaug.-dis.—Lund.

Consists of three dissertations, each having its own title-page, but with text and paging continuous. p. 1-16: respondent, Petrus Nicol. Rhodin; pub. 1815. p. 17-24: respondent, Nicolaus Kihlgren; pub. 1816. p. 25-34: respondent, Laur. Magn. von Bergen; pub. 1816.

Forms part of his Diptera, antennis parum articulatis instructorum, sectio prior (Diptera suecica, v. 1) See his Dispositio diptera synoptica, p. 7-8; Hagen, Bibliotheca entomologica, v. 1, p. 227.

## DOLICHOPODIDÆ.

**Aldrich, John Merton.** New genera and species of Psilopinæ . . . [Lawrence, Kan., 1893]

[47]-50 p. 24½<sup>cm</sup>.

From the Kansas university quarterly, vol. II, no. 1, July, 1893.

**Aldrich, John Merton** . . . Revision of the genera Dolichopus and Hygroceulethus . . . [Lawrence, Kan., 1893]

26 p., 1 l. pl. 24½<sup>cm</sup>.

From the Kansas university quarterly, vol. II, no. 1, July, 1893.

**Fallén, Karl Fredrik, præses.** Monographia dolichopodum Sueciæ . . . Lundæ, literis Berlingianis, 1823. Agr 3-180

1 p. l., 8, [2], 9-16 p., 1 l., 17-24 p. 22 x 18<sup>cm</sup>.

Dis.—Lund.

Consists of three dissertations, each having its own title-page, but with text and paging continuous. pt. I: respondent, Nicol. Henr. Lovén. pt. II: respondent, Carolus Ericus Lindberg. pt. III: respondent, Carolus Gustavus Wieselquist.

At end of pt. III: "Voluminis 2:i finis."

Forms part of his Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

**Roubaud.** Sur des larves marines de dolichopodes attribuées au genre Aphrosyllus (Wlkr.) . . . [Paris, 1904]

3 p. 23<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1903, no. 7, p. 338-340.

**Snodgrass, Robert E.** . . . The hypopygium of the Dolichopodidæ. By Robert E. Snodgrass . . . San Francisco, The Academy, 1904. 4-30944

1 p. l., 273-294 p. xxx-xxxiii pl. 25½<sup>cm</sup>. (Proceedings of the California academy of sciences. Third series. Zoology. vol. III, no. 10)

"Issued September 28, 1904."

**Wheeler, William Morton.** . . . A genus of maritime Dolichopodidæ new to America. By William Morton Wheeler . . . San Francisco, The academy, 1897.

1 p. l., 145-152 p. pl. 25½<sup>cm</sup>. (Proceedings of the California academy of sciences. 3d ser. Zoology. vol. I, no. 4)

**Wheeler, William Morton.** . . . New species of Dolichopodidæ from the United States. By William Morton Wheeler . . . San Francisco, The academy, 1899.

1 p. l., 84 p. iv pl. 25<sup>cm</sup>. (Proceedings of the California academy of sciences. 3rd ser. Zoology. vol. II, no. 1)

## SYRPHIDÆ.

**Arribáizaga, Félix Lynch.** Dipterologia argentina. Syrphidæ . . . Buenos Aires, 1891.

181 p. pl. 26<sup>cm</sup>.

Estrato publicado en los Anales de la Sociedad científica argentina. tomo xxxii, páginas 80 y siguientes.

"Bibliografía:" p. 165-170.



**Becker, Theodor.** . . . Revision der gattung *Chilosia* Meigen. Von Th. Becker . . . Mit 13 tafeln nr. XI—XXIII. Eingegangen bei der Akademie am 7. december 1892. Halle, 1894.

327 p. 13 pl. 32 $\frac{1}{2}$ cm. (Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher. bd. LXII, nr. 8)

"Litteratur": p. 11-12.

**Fallén, Karl Fredrik, præses.** *Syrphici Sueciæ* . . . Lundæ, literis Berlin-  
gians, 1816-17. Agr 3-167

1 p. 1., 14, [2], 15-22, [2], 23-30, [2], 31-42, [2], 43-62 p. 21 $\frac{1}{2}$  x 18cm.

Dis.—Lund.

Consists of six dissertations, each having its own title-page, but with text and paging continuous. p. 1-14: respondent, Nicol. Paulsson; pub. 1816. p. 15-22: respondent, C. A. A. Hempel; pub. 1816. p. 23-30: respondent, Benedict, Carlstedt; pub. 1817. p. 31-42: respondent, Johannes Lindberg; pub. 1812 [*i. e.* 1817] p. 43-54: respondent, Magnus Bergquist; pub. 1817. p. 55-62: respondent, von Bergen; pub. 1817.

Title-page for p. 55-62 is wanting.

Forms part of his *Dipterorum, antennis parum articulatis instructorum, sectio prior* (Diptera suecica, v. 1) See his *Dispositio dipterorum synoptica*, p. 7-8; Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

**Gazagnaire, Joseph.** Importance des caractères zoologiques fournis par la lèvre supérieure chez les syrphides (diptères) . . . [Paris, 1883]

4 p. 27 x 22cm.

From *Comptes rendus* . . . de l'Académie des sciences, v. 96.

**Osten Sacken, Karl Robert Romanovich, baron von.** . . . Additional notes in explanation of the bugonia-lore of the ancients. Heidelberg, J. Hoerning, 1895.

23 p. illus. 23cm.

Agr 5-533

At head of title: C. R. Osten Sacken.

**Osten Sacken, Karl Robert Romanovich, baron von.** . . . A list of the North American Syrphidæ . . . [Buffalo, 1875]

38-71 p. 24 $\frac{1}{2}$ cm.

From *Bull. Buf. soc. nat. sci.*, November-December, 1875.

**Osten Sacken, Karl Robert Romanovich, baron von.** On the North American species of the genus *Syrphus* (in the narrowest sense) . . . [Boston, 1875]

135-153 p. 22cm.

From the *Proceedings of the Boston society of natural history*, vol. XVIII, Oct. 6, 1875.

**Osten Sacken, Karl Robert Romanovich, baron von.** . . . On the oxen-born bees of the ancients (bugonia) and their relation to *Eristalis tenax*, a two-winged insect. Enl. ed. of the essay: On the so-called bugonia of the ancients, etc., pub. in the *Bullet. Soc. ent. ital.* 1893. Heidelberg, J. Hoerning, 1894. Agr 5-584

xiv, 80 p. 23cm.

At head of title: C. R. Osten Sacken.

"Notice on some of the authorities consulted": p. [viii]-xi.

**Williston, Samuel Wendell.** Contribution to a monograph of the North American Syrphidæ . . . [Philadelphia, 1882]

[299]-332 p. 23cm.

From *Proc. Amer. philos. soc.* xx.

**Williston, Samuel Wendell.** . . . Synopsis of the North American Syrphidæ. By Samuel W. Williston . . . Washington, Gov't print. off., 1886.

xxx, 335 p. XII pl. 24cm. (Dep't of the interior. U. S. national museum. *Bulletin of the United States national museum*, no. 31)

#### CONOPIDÆ.

**Fallén, Karl Fredrik, præses.** *Scenopini et Conopsariæ Sueciæ. Quorum descriptionem venia ampl. facult. philos. lund. præside Carolo Fr. Fallén* . . . pro laurea publicæ disquisitioni subjicit Nicol. Magn. Krok . . . Lundæ, literis Berlin-  
gians, 1817. Agr 3-168

14 p. 21 $\frac{1}{2}$  x 18cm.

Forms part of his *Dipterorum, antennis parum articulatis instructorum, sectio prior* (Diptera suecica, v. 1) See his *Dispositio dipterorum synoptica*, p. 7-8; Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

**Williston, Samuel Wendell.** . . . North American Conopidæ . . . [New Haven? 1882-85]

3 pts. pl. 22½<sup>em</sup>.

From Transactions Connecticut academy, vol. IV, March, 1882, p. 325-342; vol. VI, July, 1883, p. 91-98, March, 1885, p. [377]-394.

#### PLATYPEZIDÆ.

**Fallén, Karl Fredrik, præses.** Platypezinæ et Bombylariæ Sueciæ. Quorum descriptionem venia ampl. fac. philos. lund. præside Carolo Fr. Fallén . . . publicæ disquisitioni subjicit Laurent. Freder. Flodin . . . Lundæ, litteris Berlingianis, 1815.

Agr 3-163

12 p. 18½ x 16<sup>em</sup>.

Forms part of his Diptera, with antennæ parum articulatis instructorum, sectio prior (Diptera suecica, v. 1) See his Dispositio diptera synoptica, p. 7-8; Hagen, Bibliotheca entomologica, v. 1, p. 227.

#### PHORIDÆ.

**Dahl, Friedrich Theodor.** Puliciphora, eine neue, flohähnliche fliegengattung . . . [Leipzig, 1897]

[409]-412 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 543, 1897.

**Dahl, Friedrich Theodor.** Über Puliciphora lucifera . . . [Leipzig, 1898]

[308]-309 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 558, 1898.

#### AGROMYZIDÆ.

**Coquillett, Daniel William.** . . . Description of *Agromyza phaseoli*, a new species of leaf-mining fly . . . [Sydney, 1899]

128-129 p. 22<sup>em</sup>.

From the Proceedings of the Linnean society of New South Wales, 1899, pt. 1, March 29th.

**Fallén, Karl Fredrik, præses.** Agromyzides. [Lund, Berling, 1823] Agr 3-177

10 p. 20 x 17½<sup>em</sup>. [With his Oscinides Sueciæ]

Dis.—Lund.

Respondent, Lageman. See Hagen, Bibliotheca entomologica.

Title-page wanting.

Forms part of his Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

**Lindemann, Karl Eduardovich.** Ueber *Agromyza lateralis* Macq. und ihre verwandlungen . . . [Moscou, 1886]

6 p. illus. 22½<sup>em</sup>.

From Bull. d. l. Soc. imp. d. nat. de Moscou, 1886. no. 3.

#### OSCINIDÆ.

**Fallén, Karl Fredrik, præses.** Oscinides Sueciæ. Quarum descriptionum venia ampl. facult. philos. Acad. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit Johannes Collander . . . Lundæ, literis Berlingianis, 1820.

1 p. l., 10 p. 20 x 17½<sup>em</sup>.

Agr 3-176

Forms part of his Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

**Garman, Harrison.** . . . The American frit-fly (*Oscinis variabilis*? Loew) . . . [State college, Pa., 1891]

[67]-69 p. 23<sup>em</sup>.

From Agricultural science, vol. V, no. 3, March 1891.

**Great Britain—Board of agriculture.** . . . The ribbon-footed corn fly (*Chlorops tæniopus*) [London, 1893.]

[55]-67 p. illus. 24½<sup>em</sup>. (*Its* [Leaflet] 1893 [no.] 10)

— [London, 1898]

3, [1] p. illus. 22<sup>em</sup>. (*Its* Leaflet no. 24)

**Jablonowski, József.** Utnutatás à csikoslábú búzalégy irtására. [Budapest, 1898]

[39]—41 p. 24<sup>cm</sup>.

**Kühn, Julius Gotthelf.** Die Überwinterung der Oscinis-larven und die durch diese schmarotzer hervorgegangenen schädigungen des zur gewinnung von zeitigem grünfutter angesäten roggensandwickenmenges . . . (*In* Berichte aus dem Physiologischen labororium und der Versuchsanstalt des Landwirthschaftlichen instituts der Universität Halle. Hrsg. von Dr. Julius Kühn. Dresden, 1893. 28<sup>cm</sup>. 10. hft., p. 131-144)

**Lampa, Sven.** Iakttagelser angående kornflugans uppträdande och lefnadssätt under sommaren och hösten 1887 . . . [Stockholm, 1888]

10 p. 23<sup>cm</sup>.

Aftryck ur Landtbruks-akademiens Handlingar och tidskrift för år 1887.

**Lindemann, Karl Eduardovich.** Ueber *Meromyza saltatrix* Mg. und *Elachiptera cornuta* F. . . . [Москва, 1885]

5 p. illus. 23<sup>cm</sup>.

“Издание Императорскаго московск. общества испытателей природы.”

**Reuter, Enzo.** . . . *Meromyza cerealium* n. sp., ein neuer getreideschädiger . . . Helsingfors, 1902.

[84]—91 p. 22½<sup>cm</sup>.

Särtryck ur “Meddelanden af Societas pro fauna et flora fennica” h. 28 (1902).

**Rörig, Georg Friedrich Carl.** *Oscinis* frit und *pusilla*. Beitrag zur kenntniss der kleinen feinde der landwirthschaft . . . Halle, 1892.

2 p. l., 33, [4] p. 27½<sup>cm</sup>.

“Verzeichniss der benutzten literatur”: 1st p. at end.

Inaug.-dis.-Halle-Wittenberg.

— — — (*In* Berichte aus dem Physiologischen labororium und der Versuchsanstalt des Landwirthschaftlichen instituts der Universität Halle. Hrsg. von Dr. Julius Kühn. Dresden, 1893. 28<sup>cm</sup>. 10. hft., p. 1-33. II pl.)

#### EPHYDRIDÆ.

**Williston, Samuel Wendell.** . . . Dipterous larvæ from the western alkaline lakes and their use as human food . . . [New Haven? 1883]

4 p. illus. 23<sup>cm</sup>.

From Trans. Conn. acad., vol VI, July, 1883.

#### MICROPEZIDÆ.

**Townsend, Charles Henry Tyler.** On a peculiar acalyprate muscid found near Turkey Tanks, Arizona . . . [Topeka, 1893]

135-136 p. 23<sup>cm</sup>.

From Transactions of the Twenty-fourth and twenty-fifth annual meetings of the Kansas academy of science (1891-'92) vol. XIII.

#### PSYLIDÆ.

**Great Britain—Board of agriculture . . .** The carrot fly (*Psila rosæ*) [London, 1897]

3 p. illus. 22½<sup>cm</sup>. (*Its* Leaflet no. 38)

— — — [London, 1898]

4 p. illus. 21½<sup>cm</sup>. (*Its* Leaflet no. 38)

**Schøyen, Wilhelm Maribo.** Gulrodfluen . . . Kristiania [1890]

8 p. illus. 22½<sup>cm</sup>.

Separataftryk af “Norsk havetidende” 1890.

## ORTALIDÆ.

- Fallén, Karl Fredrik.** *Ortalides Sueciæ. Quarum descriptionem. venia ampl. facult. philos. Acad. lund. præside Carolo F. Fallén . . . pro laurea publicæ disquisitioni subjicit Johannes Gahne . . . Lundæ, litteris Berlingianis, 1820.* Agr 3—173  
1 p. l., 34 p. 22x18½<sup>cm</sup>.  
p. 17-24: respondent, Petersson. p. 25-34: respondent, Elmlund. (See Hagen, *Bibliotheca entomologica*, v. 1, p. 227) There are no title-pages for the last two dissertations in the Library copy.  
Forms part of his *Diptera suecica*, v. 2. See Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

## TRYPETIDÆ.

- Diegner, A.** *Les asperges menacées. Étude sur la mouche de l'asperge Platyparea pœcilopectera Schrank. Moyens de combattre le parasite . . . Argenteuil, 1903.* 11 p. illus. 18<sup>cm</sup>.
- Froggatt, Walter Wilson.** *The fruit-maggot fly. [Sydney] 1897.*  
1 p. l., 7 p. pl. 25<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 163)  
From the *Agricultural gazette of N. S. Wales*, vol. VIII, June 1897.
- Giard, Alfred.** . . . *La mouche de l'asperge (Platyparea pœcilopectera Schrank) et ses ravages à Argenteuil . . . [Paris, 1903]*  
[4] p 24<sup>cm</sup>.  
Extrait des *Comptes rendus des séances de la Société de biologie. Séance du 4 juillet 1903. t. LV,* p. 907.

**Great Britain.**—*Board of agriculture . . . The celery fly (Tephritis onopordi- nis) [London, 1897]*  
3, [1] p. illus. 21½<sup>cm</sup>. (*Its Leaflet no. 35*)

- Harvey, Francis Le Roy.** *The apple maggot. Trypeta pomonella, Walsh. A consideration of the literature, history, distribution, transformation, life-history and habits of this insect; also remedies. The results of investigations made in 1888-'89, by F. L. Harvey . . . [n. p., 1890]*  
cover-title, 49, [4] p. iv pl. 26<sup>cm</sup>.  
"Bibliography": p. 1-2.

## HÆMATOMYZIDÆ.

- Fallén, Karl Fredrik, præses.** *Monographia hæmatomyzidum Sueciæ. Quam venia ampliss. fac. philos. lund. Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit Johannes Magn. Norlander . . . Lundæ, litteris Berlingianis, 1818.* 16 p. 23x19<sup>cm</sup>. Agr 3—169  
Forms part of his *Diptera suecica*, v. 2. See Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

## HETEROMYZIDÆ.

- Fallén, Karl Fredrik, præses.** *Heteromyzides Sueciæ. Quarum descriptionem venia ampl. facult. philos. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit P. Björkman . . . Lundæ, litteris Berlingianis, 1820.* Agr 3—175  
1 p. l., 10 p. 21x17<sup>cm</sup>.  
Forms part of his *Diptera suecica*, v. 2. See Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

## SCIOMYZIDÆ.

- Fallén, Karl Fredrik, præses.** *Sciomyzides Sueciæ. Quarum descriptionem venia ampl. facult. philos. Acad. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit Adolphus Alexanderson . . . Lundæ, litteris Berlingianis, 1820.* Agr 3—1033  
1 p. l., 16 p. 19<sup>cm</sup>.  
Forms part of his *Diptera suecica*, v. 2. See Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

## HYDROMYZIDÆ.

**Fallén, Karl Fredrik, præses.** Hydromyzides Sueciæ. Quarum descriptionem venia ampl. facult. philos. Acad. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit Johan. Jacob. Björkman . . . Lundæ, litteris Berlingianis, 1823. Agr 3—179

1 p. l., 12 p. 23x19<sup>mm</sup>.

Forms part of his Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

## OCHTIDÆ.

**Fallén, Karl Fredrik.** Phytomyzides et Ochtidiæ Sueciæ. See below under Phytomyzidæ.

## OPOMYZIDÆ.

**Fallén, Karl Fredrik, præses.** Opomyzides Sueciæ. Quarum descriptionem venia ampl. facult. philos. Acad. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit T. Maximilian. Ratzky . . . Lundæ, litteris Berlingianis, 1820. Agr 3—174

1 p. l., 12 p. 21x17<sup>mm</sup>.

Forms part of his Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

## SCATOMYZIDÆ.

**Fallén, Karl Fredrik, præses.** Scatomyzides. [Lund, Berling, 1819] Agr 3—172  
10 p. 19½ x 15<sup>mm</sup>.

Dis.—Lund.

Title-page wanting.

Respondent, Rosefius.

Forms part of his Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

## PHYTOMYZIDÆ.

**Fallén, Karl Fredrik, præses.** Phytomyzides et Ochtidiæ Sueciæ. Quarum descriptionem venia ampl. facult. philos. Acad. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit Carolus Wilh. Pettersson . . . Lundæ, litteris Berlingianis, 1823. Agr 3—178

1 p. l., 10 p. 22 x 16½<sup>mm</sup>.

Forms part of Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

## RHIZOMYZIDÆ.

**Fallén, Karl Fredrik, præses.** Rhizomyzides Sueciæ. Quarum descriptionem venia ampl. facult. philos. Acad. lund. præside Carolo Fr. Fallén . . . pro laurea publicæ disquisitioni subjicit Sveno Magnus Bremer . . . Lundæ, litteris Berlingianis, 1820. Agr 3—170

1 p. l., 10 p. 23 x 19<sup>mm</sup>.

Forms part of his Diptera suecica, v. 2. See Hagen, Bibliotheca entomologica, v. 1, p. 227.

## ANTHOMYIDÆ.

**Great Britain—Board of agriculture.** . . . Mangel wurzel fly (*Anthomyia betæ*, Curtis) [London, 1893]

[27]—29 p. illus. 24½<sup>cm</sup>. (*Its* [Leaflet] 1893 [no.] 5)

— [London, 1898]

4 p. illus. 21½<sup>cm</sup>. (*Its* Leaflet no. 5)

- Great Britain**—*Board of agriculture*. . . . The onion fly. *Phorbia cepetorum*  
(Meade) [London, 1896]  
4 p. illus. 22<sup>cm</sup>. (*Its Leaflet no. 31*)  
— — [London, 1898]  
4 p. illus. 21<sup>4</sup><sup>cm</sup>. (*Its Leaflet no. 31*) .

## CESTRIDÆ.

- Boas, Johan Erik Vesti**. . . . Hestebremserne . . . [Kjøbenhavn, 1891]  
24 p. illus. 21<sup>cm</sup>.  
Særtryk af Tidsskrift for veterinærer. Anden række. XXI.  
Tillæg til min artikel om "En bremselarve i hjærnen hos en hest": p. 22-24.
- Boas, Johan Erik Vesti**. . . . Oksebremse . . . [Kjøbenhavn, 190-]  
[6] p. illus. 20<sup>4</sup><sup>cm</sup>. (115de fortsættelse af økonomiske anmærkninger fra det Kongelige danske landhusholdningsselskab, landbefolkningen især til tjeneste)
- Bos, Jan Ritzema**. Die lebensweise und vertilgung der rinderbiesfliege oder hautdasselfliege (*Hypoderma bovis* F.) . . . Leipzig, 1890.  
2 pts. 22<sup>4</sup><sup>cm</sup>.  
From Fühling's landwirthschaftliche zeitung, bd. 39, p. 481-487, 520-526.
- Brauer, Friedrich**. Entomologische beiträge. See under Nemistrinidæ, p. 262.
- Brauer, Friedrich**. Monographie der cestrident, von Friedrich Brauer. Hrsg. von der K. K. Zoolog.-botan. gesellschaft in Wien . . . Wien, Druck von C. Ueberreuter, 1863.  
3 p. l., 291, [1] p. x pl. 22<sup>cm</sup>.  
"Literatur": p. 6-18.
- Brauer, Friedrich**. Neue beiträge zur kenntniss der europäischen cestrident. (Theilweise nachtrag zu den "(Estrident des hochwildes)") . . . [Wien, 1858]  
[449]-470 p. x-xi pl. 22<sup>4</sup><sup>cm</sup>.  
From Verh. d. K. K. Zool. bot. gesellsch. 1858. bd. VIII.
- Brauer, Friedrich**. Neue beiträge zur kenntniss der europäischen cestrident . . . [Wien, 1860]  
[641]-658 p. 22<sup>4</sup><sup>cm</sup>.  
"Literatur": p. [641]-646.  
From Verh. d. K. K. Zool. bot. gesellsch. 1860. bd. x.
- Brauer, Friedrich**. Die cestrident (dasselfliegen) des hochwildes, nebst einer tabelle zur bestimmung aller europäischen arten dieser familie . . . [Wien, 1858]  
[385]-414 p. fold. tab. 22<sup>4</sup><sup>cm</sup>.  
"Literatur": p. 386-389.  
From Verh. d. K. K. Zool. bot. gesellsch. 1858. bd. VIII.
- Brauer, Friedrich**. Ueber das sogenannte stillstandstadium in der entwicklung der cestrident-larven . . . [Wien, 1892]  
6 p. 23<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1892> besonders abgedruckt.
- Brauer, Friedrich**. . . . Über die aus Afrika bekannt gewordenen cestrident und insbesondere über zwei neue von Dr. Holub aus Südafrika mitgebrachte larven aus dieser gruppe . . . Wien, 1892.  
cover-title, 13 p. pl. 24<sup>4</sup><sup>cm</sup>.  
Aus den Sitzungsberichten der Kaiserl. Akademie der wissenschaften in Wien. Mathem.-naturw. classe; bd. CI. abth. I. jänner 1892.
- Clark, Bracy**. An essay on the bots of horses, and other animals. By Bracy Clark . . . London, Printed for the author, 1815.  
64 p. front., pl. 27<sup>4</sup><sup>cm</sup>.  
— Supplementary sheet. Discovery of the fly of the white bot, mentioned at page 34-5. London, 1816.  
[4] p. 27<sup>4</sup><sup>cm</sup>.

**Clark, Bracy.** An appendix or supplement to a Treatise on the Cestri and Cuterebræ of various animals . . . [London, 1841]

[81]-94 p. 27 $\frac{1}{2}$ cm.

First memoir on this subject by Clark was published in Linnean Transactions, vol. III, 1796, p. 289-329. This, enlarged, was published separately in 1815, with supplement added in 1816, and second supplement in 1841, appearing in Linnean Transactions, vol. XIX, p. 81-94.

**Clark, Bracy.** Of the insect called oistros by the ancients, and of the true species intended by them under this appellation: in reply to observations of W. S. MacLeay, Esq., and the French naturalists. To which is added, A description of a new species of Cuterebra . . . London, 1827.

402-410 p. 28cm.

From the Transactions of the Linnean society of London, vol. xv.

**Curtice, Cooper.** . . . The oxwarble of the United States . . . [n. p., 1891]

12 p. illus. 24cm.

"Literature": p. 11-12.

Reprint from the Journal of comparative medicine and veterinary archives. vol. XII, p. 265.

**Enderlein, Günther.** Die respirationsorgane der gastriden . . . Leipzig, Druck von O. Schmidt, 1899.

Agr 3-640

77, [2] p. 3 pl. 22 $\frac{1}{2}$ cm.

Inaug.-dis.—Leipzig.

"Litteraturverzeichnis": p. 70-71.

**French, Charles.** The horse bot-fly (*Gastrophilus equi*, Fabr.) . . . [Melbourne, 1902]

693-696 p. pl. 25cm.

From the Journal of the Department of agriculture of Victoria, vol. .

**Froggatt, Walter Wilson.** . . . The bot-fly (*Gasterophilus equi*) . . . Sydney, 1900.

5 p. pl. 24 $\frac{1}{2}$ cm. (Department of agriculture, Sydney, New South Wales, Miscellaneous publication, no. 432).

From Agricultural gazette of N. S. Wales, vol. XI, November, 1900.

**Great Britain—Board of agriculture.** . . . The warble fly (*Hypoderma bovis*) [London, 1894]

2 p. illus. 22 $\frac{1}{2}$ cm. (*Its* [Leaflet] 1894 [no.] 6)

— — [London, 1898]

2 p. illus. 21cm. (*Its* Leaflet no. 21)

**Guyot, J.** . . . Contribution à l'étude des larves de gastrophiles (œstrides) parasites de l'estomac du cheval, par le Dr. J. Guyot . . . Paris, Société d'éditions scientifiques, 1901.

Agr 4-1882

cover-title, [169]-221 p., 1 l. illus. 25 $\frac{1}{2}$ cm.

"Index bibliographique": p. 219-221.

"Extrait des Archives de parasitologie, IV, n° 2, p. 169, année 1901."

**Kirk, Thomas W.** . . . Horse bot fly, or horse bee (*Gastrophilus equi*) . . . [Wellington, 1893]

[3] p. illus. 25 $\frac{1}{2}$ cm. (New Zealand, Department of agriculture, Leaflets for farmers, no. 3)

**Löw, Franz.** . . . Bemerkungen zu Dr. Kirschmann's aufsatz „Oestridentlarven beim menschen" . . . [Wien, 1882]

3 p. 22 $\frac{1}{2}$ cm.

Separatabdruck aus Dr. Wittelshöfer's „Wiener med. wochenschrift" (nr. 9, 1882)

**Marlatt, Charles Lester.** Ox warble (*Hypoderma lineata* Villers). Washington, 1897.

10 p. illus. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 25)

**Ormerod, Eleanor Anne.** Notes on "licked beef" and "jelly," and injury to hides from attack of ox warble fly or bot fly, *Hypoderma bovis*, De Geer. 32d thousand. [London, 1895]

8 p. illus. 22cm.

**Ormerod, Eleanor Anne.** Notes on ox warble fly, or bot fly, *Hypoderma bovis*, De Geer. 6th ed. [London, 1887]

4 p. illus. 22½<sup>cm</sup>.

— — 106th thousand. [London, 1888]

4 p. illus. 22<sup>cm</sup>.

— Ox warble fly, or bot fly, *Hypoderma bovis*, De Geer. 145th thousand. [London, 1895]

4 p. illus. 22½<sup>cm</sup>.

**Ormerod, Eleanor Anne.** Observations on warble fly or ox bot fly, *Hypoderma bovis*, De Geer. An abstract of information contributed mainly by British observers in the years 1884–1894, on the history and habits of the warble fly, and means of prevention and remedy. By Eleanor A. Ormerod . . . London, Simpkin, Marshall, Hamilton, Kent & co., limited, 1894.

Agr 4—221

1 p. l., 62 p. illus., fold. tab. 25<sup>cm</sup>.

**Ormerod, Eleanor Anne.** Some observations on the *Cæstridæ*, commonly known as "bot flies," especially on the ox warble fly. By Eleanor A. Ormerod . . . London, Simpkin, Marshall & co., 1884.

24 p. illus. 18<sup>cm</sup>.

**Ormerod, Eleanor Anne.** Warbles in hides: their cause and prevention or cure. By William S. Horn . . . Leeds, Printed by McCorquodale & co., limited, 1886.

28 p. illus. 21½<sup>cm</sup>.

"Compiled chiefly from reports and observations by Eleanor A. Ormerod . . ."

**Poulsen, M.** En bræmselarve i hjærnen hos en hest . . . [Kjøbenhavn, 1889]

[73]–83 p. 20½<sup>cm</sup>.

Særtryk af Tidsskrift for veterinærer, anden række, XIX.

Bemærkinger til ovenstaaende lagtagelse, af Dr. J. E. V. Boas, p. 76–83.

For supplement to Boas's article see his *Hestebremserne*, p. 22–24.

**Scheiber, S. H.** Vergleichende anatomie und physiologie der östriden-larven . . . [Wien, 1860–62]

2 pts. 5 fold. pl. 22½–24<sup>cm</sup>.

Reprinted from Sitz. d. math.-nat. cl. d. K. Akad. d. wiss., bd. 41, p. 409–496, bd. 45, abt. 1, p. 7–68.

**Weir, I. R.** . . . Treatment for the bot-fly. [Melbourne, 1902]

1 p. 25<sup>cm</sup>.

From the Journal of the Department of agriculture of Victoria. vol. i, p. 697.

#### SARCOPHAGIDÆ.

**Johnson, Walter Buckley.** Abnormal living entozoa in the human ear . . . Nashville, 1892.

7 p. 22½<sup>cm</sup>.

Reprint from the Ophthalmic record.

**Lockwood, Samuel.** . . . A viviparous fly . . . [Salem, Mass., 1873]

5 p. illus. 23<sup>cm</sup>.

From the American naturalist, vol. VII, April, 1873.

**Löw Franz.** . . . Ueber myiasis und ihre erzeuger . . . [Wien, 1883]

5 p. 22½<sup>cm</sup>.

Separatdruck aus. Dr. Wittelshöfer's, „W. med. wochenschr.“ (nr. 31, 1883)

#### MUSCIDÆ.

**Austen, Ernest Edward.** A monograph on the tsetse-flies <genus *Glossina*, Westwood> based on the collection in the British museum, by Ernest Edward Austen, with a chapter on mouth-parts by H. J. Hansen . . . London, Printed by order of the Trustees, 1903.

8—24282

3 p. l., ix, 319, [1] p. illus., 9 pl. (7 col.) fold. map. 25½<sup>cm</sup>.

Preface signed: E. Ray Lankester.

Bibliography: pt. I. The literature of tsetse-flies, p. 121–253.—pt. II. Tsetse-fly disease and the *Trypanosoma* of nagana and kindred species, p. 253–267.



Appendices: A. Abstract of Lieut.-Colonel Bruce's "Further report on the tsetse-fly disease."—B. "A note on the 'tse-tse' flies of the British Central Africa protectorate." By Captain Richard Crawshay—C. Copies of letters on the subject of the supposed connection between the tsetse and the buffalo (*Bubalus caffer*, Sparrman); transmitted by the Foreign office to the British museum (Natural history)—D. Native methods of protecting animals from the attacks of tsetse-flies. Native prophylactics against and remedies for tsetse-fly disease. Native names for tsetse-flies.—E. The geographical distribution of nagana, and the possible transmission of the parasite of the disease by species of *Glossina* other than *G. morsitans*, and by blood-sucking flies other than tsetse—F. "A note on the origin of the word 'tse-tse.'" By Captain Richard Crawshay.—G. The species of tsetse found at Entebbe, Lake Victoria, Uganda.—H. Trypanosomiasis on the Upper Niger. A note by Dr. Cuthbert Christy.

**Bigot, Jacques Marie Frangile.** . . . Diptères nouveaux ou peu connus . . .  
Musci (J. B.) [Paris, 1887]  
[581]–617 p. 25<sup>em</sup>.  
Extrait du Bulletin de la Société zoologique de France, t. XII, 1887.

**Brauer, Friedrich.** Ansichten über die gattung *Pachystylum* Mcq. und rückblicke auf die in den Denkschriften der Kais. Academie d. w. m.-n. cl., bd. LVI und LVIII erschienenen "Vorarbeiten zu einer monographie der Muscaria etc. von Prof. Fr. Brauer u. J. Edl. v. Bergenstamm." Wien, 1892.  
15 p. 25<sup>em</sup>.  
Aus den Sitzungsberichten der Kaiserl. academie der wissenschaften in Wien. Mathem.-naturw. classe; bd. CI, abth. I, Juni 1892.

**Cohn, Ferdinand.** *Empusa muscae* und die krankheit der stubenfliegen. Ein beitrug zur lehre von den durch parasitische pilze charakterisirten epidemieen, von Dr. Ferdinand Cohn . . . Der Akademie übergeben den 15. januar 1855. [Halle, 1855]  
1 p. l., [301]–360 p. IX–XI pl. 31<sup>em</sup>.

**Dall, William Healey.** Note on cluster flies . . . [Washington, 1883]  
635–637 p. 24<sup>em</sup>.  
From Proceedings of United States national museum, v. 5, 1882.

**Fallén, Karl Fredrik.** *Monographia muscidum Sueciæ* . . . Lundæ, literis Berlingianis, 1820–25. Agr 3—171  
1 p. l., 12, [13–24 p., 1 l., [2], 25–40 p., 1 l., 41–48, [2], 49–56 p., 1 l., 57–64, [2], 65–72, [2], 73–80, [2], 81–94 p. 23x19<sup>em</sup>.  
Dis.—Lund.

Consists of nine dissertations, each having its own title-page, but with text and paging continuous.  
p. 1–12: respondent, Laurentius Fred. Westman; pub. 1820. p. 13–24: respondent, Carolus Andreas Rååf; pub. 1820. p. 25–40: respondent, Josephus Wilhelmus Malmstedt; pub. 1820. p. 41–48: respondent, Carolus Jac. Sundewall; pub. 1821. p. 49–56 (pt. v): respondent, Petrus Jönsson; pub. 1823. p. 57–64 (pt. vi): respondent, H. P. Scholander, pub. 1823. p. 65–72 (pt. vii): respondent, Aug. Ludov. Hünemöder; pub. 1824. p. 73–80 (pt. viii): respondent, Laurehtius Pet. Brunnér, pub. 1825. p. 81–94 (pt. ix & ultima): respondent, Ericus Gustavus Brunnér, pub. 1825.  
Forms part of his *Diptera suecica*, v. 2. See Hagen, *Bibliotheca entomologica*, v. 1, p. 227.

**Howard, Leland Ossian.** House flies (*Musca domestica* et al). Washington, 1898.  
8 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 35)

**Humbert, Fred.** Catarrh of the ethmoid cells and the frontal sinus and the nasal canal—the cause, deposit of eggs of the screw maggot (larvæ) and their development . . . Chicago, 1883.  
11 p. 19<sup>em</sup>.  
Reprinted from the Journal of the American medical association December 8, 1883.

**Kräpelin, Karl Mathias Friedrich.** . . . Kräpelin's proboscis of *Musca* . . . [Philadelphia, 1884]  
cover-title, 1234–1244 p. illus. 23<sup>em</sup>.  
Abstract of his *Zur anatomie* . . . des rüssells von *Musca*, in *Zeit. f. wis. zool.*, bd. XXXIX, 1883, pp. 683–720; made by George Macloskie.  
From the American naturalist, December, 1884.

**Lowne, Benjamin Thompson.** The anatomy, physiology, morphology, and development of the blow-fly (*Calliphora erythrocephala*). A study in the comparative anatomy and morphology of insects. With plates and illustrations executed directly from the drawings of the author. By R. Thompson Lowne . . . London, Published for the author by R. H. Porter, 1890-92.

v. 1. illus., xxxiii pl. 23<sup>cm</sup>.

Published in 4 parts.

"Bibliography": p. 1, 7, 25, 32, 33, 62, 72.

**Packard, Alpheus Spring.** On the transformations of the common house fly, with notes on allied forms . . . Boston, 1874.

[136]-150 p. fold. pl. 24<sup>cm</sup>.

From Proceedings of the Boston society of natural history. vol. xvi, February, 1874.

**Riley, Charles Valentine.** The horn fly (*Hæmatobia serrata*), being an account of its life-history and the means to be used against it. By C. V. Riley and L. O. Howard. Washington, 1889.

93-103 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Department of—Entomology, Division of. Special bulletin)

Reprinted from Insect life, vol. II, no. 4, October, 1889.

**Rondani, Camillo.** Species europeæ generis phasiæ Latreillei observatæ et distinctæ, a Camillo Rondani, commentarium xvii pro Dipterologia italica. [Milano, 1861]

13 p. 1 pl. 22<sup>cm</sup>.

Caption title.

Estratto dal vol. III degli Atti della Società italiana di scienze naturali in Milano.

**Schøyen, Wilhelm Maribo.** Husfluen . . . [n. p., 1892]

28-39 p. 18<sup>cm</sup>.

From Folkev., ny række, xvi. bd. 1892.

**Taylor, Thomas.** . . . The house-fly (*Musca domestica*). [Montreal, 1882]

6 p. 22<sup>cm</sup>.

Read before the microscopical permanent section of the American association for the advancement of science, Montreal, Canada, August, 1882.

**Townsend, Charles Henry Tyler.** Catalogue of the described South American species of calyprate Muscidae . . . [New York, 1892]

44 p. 24<sup>cm</sup>.

"List of titles quoted": p. 43-44.

Extract from vol. VII: Annals of the New York academy of sciences.

**Townsend, Charles Henry Tyler.** Notes on some Jamaican Muscidae, with brief anonymous descriptions of doubtful forms . . . [Kingston, Jamaica, 1894]

314-317 p. 25<sup>cm</sup>.

From the Journal of the Institute of Jamaica, v. 1.

#### TACHINIDÆ.

**Coquillett, Daniel William.** Revision of the Tachinidæ of America north of Mexico; a family of parasitic two-winged insects. Washington, 1897.

156 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 7)

**Sasaki, Chujirō.** On the life-history of *Ugimya sericaria*, Rondani. By C. Sasaki . . . [Tokyo, 1887]

46 p. vi pl. (1 col.) 26<sup>cm</sup>.

Caption title.

Reprinted from Journal of Science college, Imperial university, Japan. Vol. 1.

**Townsend, Charles Henry Tyler.** The puparium of *Blepharipeza* . . . [Philadelphia, 1893]

402-404 p. 24<sup>cm</sup>.

From the American naturalist, April 1st, 1893.

**Williston, Samuel Wendell.** Fissicorn Tachinidæ . . . [Lawrence, 1896]

171-172 p. illus. 24<sup>cm</sup>.

From Kan. univ. quar., vol. IV, no. 3, January, 1896.

## HIPPOBOSCIDÆ.

**Frauenfeld, Georg, ritter von.** Über *Raymondia* Fr., *Strebila* Wd. und *Brachytarsina* Mcq. . . . Wien, 1857.

13 p. illus. 22 $\frac{1}{2}$ cm.

Aus dem novemberhefte des jahrg. 1856 der Sitzungsberichte der mathem.-naturw. classe der Kais. akademie der wissenschaften <bd. xxii, s. 468> besonders abgedruckt.

**Froggatt, Walter Wilson.** . . . Spider or lice flies that infest horses, sheep, and other animals . . . Sydney, 1900.

1 p. l., 7 p. pl. 25cm. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 437)

From Agricultural gazette of N. S. Wales, vol. xi, December, 1900.

**Ormerod, Eleanor Anne.** Notes on injurious insects. Forest fly, *Hippobosca equina*, Linn. [n. p., 1895]

4 p. illus. 22 $\frac{1}{2}$ cm.

**Pratt, Henry Sherring.** Beiträge zur kenntnis der pupiparen. (Die larve von *Melophagus ovinus*) . . . [Berlin, 1893]

[151]-200 p. fold. pl. 23cm.

"Litteraturverzeichnis," p. 197-198.

From Archiv für naturgeschichte, jahrg. 59, p. 151-200.

**Rondani, Camillo.** *Hippoboscita italica* in familias et genera distributa a Prof. Camillo Rondani. [Firenze, Tipografia Cenniniana, 1872]

Agr 3-355

26 p. 22cm.

Caption title.

"Estratto dal fasc. 1<sup>o</sup> del Bullettino della Società entomologica italiana. Anno xi, pag. 3-28. Edito il giugno 1879."

## SIPHONAPTERA.

**Baker, Carl Fuller.** . . . A revision of American Siphonaptera, or fleas, together with a complete list and bibliography of the group. By Carl F. Baker . . . Washington, Govt. print. off., 1904.

365-469 p. x-xxvi pl. 25cm.

From the Proceedings of the United States national museum, vol. xxvii, p. 365-469 . . . <No. 1361>

"List of Siphonaptera of the world, with bibliography, hosts, and habits. To January 1, 1903." p. 433-468.

**Bonnet, Gustave Charles.** Mémoire sur la puce pénétrante ou chique . . . Paris, 1867.

2 p. l., 102 p. 2 pl. 22cm.

"Bibliographie": p. 98-99.

Extrait des Archives de médecine navale, juillet 1867. Tome viii.

**Froggatt, Walter Wilson.** Domestic insects.—Fleas . . . [Sydney] 1901.

8 p. pl. 25cm. (Miscellaneous publication, no. 468)

From Agricultural gazette of N. S. Wales, vol. xii, May, 1901.

"Bibliography": p. 8.

**Howard, Leland Ossian.** Mosquitoes and fleas. See under *Culicidæ*, p. 256.

**Olliff, Arthur Sidney.** . . . Description of a new aphanipterous insect from New South Wales . . . [Sydney, 1886]

[171]-172 p. 22cm.

From vol. i (ser. 2d) of the "Proceedings of the Linnean society of New South Wales" (31st March, 1886)

**Packard, Alpheus Spring.** . . . On the systematic position of the Siphonaptera, with notes on their structure . . . [Boston, 1894]

[312]-355 p. illus. 25cm.

From the Proceedings of the Boston society of natural history, vol. xxvi. Read May 2, 1894. Author's edition, Sept. 8, 1894.

"Literature": p. 355.

- Ritsema Cz., Coenraad.** Iets over de natuurlijke geschiedenis van de vloo . . .  
[Haarlem, 1872]  
[65]-82 p. illus. 24 $\frac{1}{2}$ cm.  
From Album der natuur for 1872.
- Skuse, Frederick A. Askew.** Description of a new flea (*Stephanocircus dasyuri*) from New South Wales; with notes of some other insect parasites known in Australia . . . [Sydney, 1893]  
77-82 p. 24 $\frac{1}{2}$ cm.  
From Records of the Australian museum . . . vol. II, no. 5.
- Taschenberg, Otto.** Die flöhe. Die arten der insectenordnung Suctoria nach ihrem chitinskelet monographisch dargestellt von Dr. Otto Taschenberg Halle,  
M. Niemeyer, 1880.  
120, [2] p. iv pl. 35cm,  
"Alphabetisches verzeichnis der citirten schriften:" p. [113]-118.
- Wandolleck, Benno.** . . Ist die phylogense der aphanipteren entdeckt? . . .  
[Leipzig, 1898]  
[180]-182 p. 23cm.  
Separat-abdruck aus dem "Zoologischen anzeiger" no. 553. 1898.

## ORTHOPTERA.

## GENERAL.

- Berlese, Antonio.** Ricerche sugli organi genitali degli ortotteri. (Mantidæ, Locustidæ, Gryllidæ, Gryllotalpidæ, Truxalidæ, Acrydiidæ). Memoria di Antonio Berlese, approvata per la stampa negli Atti dell' Accademia nella seduta del 2 Aprile 1882 . . .  
259-298 p. II pl. 30cm.
- Beutenmüller, William.** Notes on some species of North American Orthoptera, with descriptions of new species . . . New York, 1894.  
[249]-252 p. 24cm.  
Author's edition, extracted from Bulletin of the American museum of natural history, vol. VI, article XI, pp. 249-252.
- Bolívar y Urrutia, Ignacio.** Analecta orthopterologica . . . [Madrid] 1878.  
[428]-470 p. iv-v pl. 22 $\frac{1}{2}$ cm.  
From Anal. de la Soc. esp. de hist. nat. tom. VII, 1878.
- Bordage, Edmond.** . . On the absence of regeneration in the posterior limbs of the Orthoptera saltatoria and its probable causes . . . [London, 1900]  
234-236 p. 22 $\frac{1}{2}$ cm.  
From the Annals and magazine of natural history, ser. 7, v. 15.  
Tr. from 'Comptes rendus,' CXXIX. (July 10, 1899) pp. 120-123.
- Bordage, Edmond.** . . Regeneration of the tarsus and of the two anterior pairs of limbs in the Orthoptera saltatoria. [London, 1900]  
237-239 p. 22 $\frac{1}{2}$ cm.  
From the Annals and magazine of natural history, ser. 7, v. 5.  
Tr. from 'Comptes rendus,' CXXIX. (July 17, 1899) pp. 169-171.
- Charpentier, Toussaint de.** Orthoptera descripta et depicta a T. de Charpentier. Lipsiæ, L. Voss, 1841-45. PLT 3-775  
I p. I., iv., [116] p. 60 col. pl. 29cm.
- Dufour, Léon.** Recherches anatomiques et physiologiques sur les orthoptères, les hyménoptères et les névroptères; par M. Léon Dufour . . . présentées à l'Académie le 3 mars 1834. [Paris, 1841]  
[265]-647 p. 13 pl. 27 $\frac{1}{2}$ cm.  
Plates wanting.  
From Mémoires présentées par divers savans à l'Académie des sciences de l'Institut de France; ou, Collection des mémoires des savans étrangers, VII.

**Kirby, William Forsell.** On the employment of the names proposed for genera of Orthoptera, previous to 1840 . . . [Dublin, 1890]

566-597 p. 22<sup>cm</sup>.

Reprinted from the Scientific proceedings of the Royal Dublin society.

**Kirby, William Forsell.** A synonymic catalogue of Orthoptera. By W. F. Kirby . . . London, Printed by order of the trustees of the British museum, 1904.

v. 1. 23<sup>cm</sup>,

CONTENTS.—v. 1. Orthoptera Euplexoptera, Cursoria, et Gressoria.

**Krauss, Herman August.** Beiträge zur orthopteren-kunde . . . Wien, 1886-1888.

2 pts. 2 pl. 22<sup>1/2</sup><sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien . . . besonders abgedruckt, 1886 p. 137-148, 1888, p. 567-576.

**Löw, Franz.** Beiträge zur kenntniss der orthopteren . . . [Wien, 1861]

6 p. 22<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1861> besonders abgedruckt.

**Minot, Charles Sedgwick.** Comparative morphology of the ear . . . [4th article] Cambridge, 1882.

13 p. illus. 23<sup>cm</sup>.

"Authorities": p. 12-13.

This paper is mostly on the ear in Orthoptera.

From the "American journal of otology," vol. iv., April, 1882.

**Scudder, Samuel Hubbard.** A century of Orthoptera . . . Boston, 1879.

84 p. 22<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vols. 12-20.

**Scudder, Samuel Hubbard.** The need of a change of base in the study of North American Orthoptera. New York, 1895.

19-20 p. 21<sup>cm</sup>.

From Science, n. s. vol. i, no. 1, January 4, 1895.

**Scudder, Samuel Hubbard.** Notes on the stridulation of some New England Orthoptera . . . Boston, 1868.

8 p. 23<sup>1/2</sup><sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. xi, published April, 1868.

**Serville, Jean Guillaume Audinet.** Histoire naturelle des insectes. Orthoptères. Par M. Audinet Serville . . . Paris, Librairie encyclopédique de Roret, 1839.

xviii, 776 p., 1 l., 4 p. 14 pl. 20<sup>1/2</sup><sup>cm</sup>.

**Stål, Carl.** . . . Observations orthoptérologiques . . . Stockholm, 1875-76.

pt. 1-2. 21<sup>1/2</sup><sup>cm</sup>. (Bihang till K. Svenska vet. akad. Handlingar. bd. 3, no. 14, bd. 4, no. 5)

**Stål, Carl.** Recensio orthopterorum. Revue critique des orthoptères décrits par Linné, de Geer et Thunberg, par C. Stål . . . Stockholm, P. A. Norstedt & söner, 1873-75.

3 v. in 1. 22<sup>cm</sup>.

**Stoll, Caspar.** Natuurlijke en naar het leven nauwkeurig gekleurde afbeeldingen en beschrijvingen der spoken, wandelende, bladen, zabel-springhanen, krekels, trek-springhanen en kakkeriakken. In alle vier deelen der wereld, Europa, Asia, Afrika en Amerika, huishoudende . . . Bij een verzameld en beschreven door Caspar Stoll'. Représentation exactement colorée d'après nature des spectres ou phasmes, des mantes, des sauterelles, des grillons, des criquets et des blattes, qui se trouvent dans les quatre parties du monde, L'Europe, l'Asie, l'Afrique et l'Amérique; rassemblées et décrites par Caspar Stoll.' Amsterdam, J. C. Sepp et fils, 1813. Agr 5-250

2 v. 70 col. pl. 31<sup>cm</sup>.

Each vol. has added engr. t.-p. in colors.

Dutch and French in parallel columns.

**Targioni Tozzetti, Adolfo.** . . . Delle forfecchie, piattole, grillotalpe, grilli, locuste e cavallette nella economia domestica e nella practica agraria . . . Firenze, Roma, 1878.

37 p., 1 l. double pl. 24 $\frac{1}{2}$ cm.

At head of title, R. Ministero dell' interno, Annali di agricoltura.

**Targioni Tozzetti, Adolfo.** . . . Ortotteri agrari cioè dei diversi insetti dell' ordine degli ortotteri nocivi o vantaggiosi all' agricoltura o all' economia domestica e principalmente delle cavallette, per Ad. Targioni Tozzetti. Firenze-Roma, Tipografia dei fratelli Bencine, 1882.

Agr 3—818

vii, 238 p. illus. 23cm.

At head of title: Ministero di agricoltura, industria e commercio. Direzione dell' agricoltura. Annali di agricoltura 1882.

"Saggio bibliografico di scrittori di opere relative agli ortotteri e specialmente alle cavallette": p. 216-222.

**Walker, Francis.** Catalogue of the specimens of Dermaptera Saltatoria in the collection of the British museum . . . By Francis Walker . . . London, Printed for the trustees of the British museum, 1869-71.

Agr 3—820

5 pts. 23cm.

[Pt. 1] has title: Catalogue of the specimens of Dermaptera Saltatoria and supplement to the Blattariæ in the collection of the British museum. By Francis Walker.

Pt. 5 also contains supplement to the Blattariæ.

**Yersin, Alexander.** Note sur le Xiphidion brun (*Xiphidium fuscum*, Fab.) . . . [Lausanne] 1855.

[5]-7 p. pl. 20 $\frac{1}{2}$ cm.

Extrait du Bulletin de la Société vaudoise des sciences naturelles, séance du 18 avril 1855.

## FAUNA.

### UNITED STATES.

**Ball, Elmer Darwin.** Notes on the orthopterous fauna of Iowa . . . [Des Moines, 1897]

234-241 p. 22 $\frac{1}{2}$ cm.

From Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts, no. 2.

Reprinted from Proceedings Iowa academy of sciences, vol. iv.

**Beutenmüller, William.** Descriptive catalogue of the Orthoptera found within fifty miles of New York city . . . New York, 1894.

[258]-316 p. illus., v-x pl. 24 $\frac{1}{2}$ cm.

Author's edition, extracted from Bulletin of the American museum of natural history, vol. vi, article xii, pp. 253-316.

**Blatchley, Willis Stanley.** The Orthoptera of Indiana. An illustrated descriptive catalogue of the species known to occur in the state, with bibliography, synonymy and descriptions of new species. By W. S. Blatchley . . . (*In* Indiana. Dept. of geology and natural resources. Twenty-seventh annual report . . . 1902. Indianapolis, 1903. 23 $\frac{1}{2}$ cm. p. 123-471. illus.)

Agr 3—1057

— — In separate form, with col. front. added.

**Bruner, Lawrence.** First contribution to a knowledge of the Orthoptera of Kansas . . . [Topeka ?, 1885]

125-139 p. 23cm.

"Constitutes the first report of the Washburn college biological survey of Kansas, on the order Orthoptera."

**Caudell, Andrew Nelson.** . . . Notes on Orthoptera from Colorado, New Mexico, Arizona and Texas, with descriptions of new species . . . Washington, 1903.

775-809 p. pl. 24 $\frac{1}{2}$ cm.

From the Proceedings of the United States national museum, vol. xxvi, p. 775-809 <no. 1333>

**Caudell, Andrew Nelson.** . . . Orthoptera . . . Washington, 1900.

511-512 p. 26 $\frac{1}{2}$ cm. (Papers from the Harriman Alaska expedition, xv. Entomological results (9))

From Proceedings of the Washington academy of sciences, vol. II, p. 511-512, Dec. 20, 1900.

**Caudell, Andrew Nelson.** Orthoptera from southwestern Texas. Collected by the museum expeditions of 1903, 1904 . . . [Brooklyn] 1904.

105-116 p. vi-vii pl. 25 $\frac{1}{2}$ cm.

Reprinted from Science bulletin of the Museum of the Brooklyn institute of arts and sciences, vol. i, no. 4, December, 1904.

**Caudell, Andrew Nelson.** . . . Two Orthoptera hitherto unrecorded from the United States . . . Washington, 1904.

949-952 p. 24 $\frac{1}{2}$ cm.

From the Proceedings of the United States national museum, vol. xxvii, p. 949-952 <no. 1378>

**Fernald, Charles Henry.** The Orthoptera of New England. Designed for the use of the students in the Massachusetts agricultural college, and the farmers of the state. [Boston, 1888]

61 p. illus. 23 $\frac{1}{2}$ cm.

From the Twenty-fifth annual report of the Massachusetts agricultural college.

**Garman, Harrison.** The Orthoptera of Kentucky . . . [Frankfort, 1894]

10 p. 23cm.

From the Sixth annual report Kentucky agricultural experiment station.

**Rehn, James Abram Garfield.** . . . Notes on Orthoptera from Arizona, New Mexico and Colorado . . . [Philadelphia] 1904.

562-576 p. 26cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, July, 1904.

**Rehn, James Abram Garfield.** . . . Notes on the Orthoptera of New Mexico and western Texas . . . [Philadelphia] 1902.

717-727 p. 25 $\frac{1}{2}$ cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, November, 1902.

**Scudder, Samuel Hubbard.** The Alpine Orthoptera of North America . . . Boston, 1898.

21 p. xli-xliv pl. 23 $\frac{1}{2}$ cm.

Reprinted from Appalachia, vol. viii, no. 4, Boston, 1898.

**Scudder, Samuel Hubbard.** . . . Brief synopsis of North American earwigs, with an appendix on the fossil species . . . List of the Orthoptera collected by Dr. A. S. Packard in Colorado and the neighboring territories during the summer of 1875 . . . Notes of a small collection of butterflies made by Dr. A. S. Packard in Colorado and Utah in 1875 . . . Washington, 1876.

249-270 p. 23cm.

Extracted from Bulletin of the Geological and geographical survey of the territories, vol. ii, no. 3.

**Scudder, Samuel Hubbard.** Catalogue of the described Orthoptera of the United States and Canada . . . [n. p., 1900]

101 p., 3 l. iii pl. 24cm.

Reprinted from vol. viii, Proceedings of the Davenport academy of natural sciences, Davenport, Iowa.

**Scudder, Samuel Hubbard.** . . . Catalogue of the Orthoptera of North America described previous to 1867. Prepared for the Smithsonian institution by Samuel H. Scudder. Washington, 1868.

xx, 82 p. 24 $\frac{1}{2}$ cm. (Smithsonian miscellaneous collections. 189. [in v. 8])

"Authorities": p. [v]-xx.

**Scudder, Samuel Hubbard.** The Florida Orthoptera collected by Mr. J. H. Comstock . . . [Boston, 1878]

80-94 p. 24cm.

From the Proceedings of the Boston society of natural history, March 7, 1877.

**Scudder, Samuel Hubbard.** Guide to the genera and classification of the North American Orthoptera found north of Mexico, by Samuel Hubbard Scudder. Cambridge, E. W. Wheeler, 1897.

87, [2] p. 21 $\frac{1}{2}$ cm.

"Bibliographical notes": p. 67-82.

"List of the literature referred to in the preceding bibliographical notes": p. 83-87.

**Scudder, Samuel Hubbard.** Materials for a monograph of the North American Orthoptera. By Samuel H. Scudder . . . Cambridge [Mass.] Printed by H. O. Houghton, 1862.

cover-title, [409]-480 p. 23 $\frac{1}{2}$ cm.

From the Boston journal of natural history, vol. VII, no. 3.

**Scudder, Samuel Hubbard.** . . . Report upon the Orthoptera collected by the expedition for geographical surveys west of the 100th meridian during field-season of 1875, Lieut. Geo. M. Wheeler, corps of engineers, U. S. Army, in charge . . . being extract from appendix J J of the annual report of the chief of engineers for 1876. Washington, 1876.

497-515 p. 23cm.

At head of title: U. S. geographical surveys west of the 100th meridian.

**Smith, Sidney Irving.** . . . On the Orthoptera of the state of Maine . . . [Portland] 1868.

[143]-151 p. 22cm.

From the Proceedings of the Portland society of natural history. pub. February 1868.

**Thomas, Cyrus.** Descriptions of some new Orthoptera, and notes on some species but little known . . . [Washington, 1874]

[63]-71 p. 23cm.

From the Bulletin of the United States geological and geographical survey of the territories, no. 2.

**Thomas, Cyrus.** . . . A list of Orthoptera collected by J. Duncan Putnam, of Davenport, Iowa, during the summers of 1872-3-4 & 5, chiefly in Colorado, Utah, and Wyoming Territories . . . [Davenport, 1876]

249-267 p. pl. 22 $\frac{1}{2}$ cm.

From Proceedings of the Davenport academy of natural sciences, vol. 1.

**Thomas, Cyrus.** . . . A list of the Orthoptera of Illinois . . . [Bloomington] 1876.

59-69 p. 22 $\frac{1}{2}$ cm.

From Bulletin no. 1, Illinois museum of natural history, December, 1876.

**Thomas, Cyrus.** . . . On the Orthoptera collected by Dr. Elliott Coues, U. S. A., in Dakota and Montana, during 1873-74 . . . [Washington, 1878]

481-501 p. 22 $\frac{1}{2}$ cm.

From the Bulletin of the U. S. geological and geographical survey of the Territories. vol. IV, no. 2, 1878.

**Thomas, Cyrus.** . . . Orthoptera . . . [Washington, 1878]

1843-1847 p. 22cm.

From annual report of Lieut. E. H. Ruffner . . . Explorations and surveys in the Department of the Missouri, being App. SS of the report of the chief of engineers, U. S. War department, for 1878.

**Thomas, Cyrus.** Report upon the collections of Orthoptera made in portions of Nevada, Utah, California, Colorado, New Mexico, and Arizona, during the years 1871, 1872, 1873, and 1874 . . . [Washington, 1875]

843-908 p. XLIII-XLV pl. (2 col.) 30 $\frac{1}{2}$ cm.

From the Report upon the geographical and geological explorations and surveys west of the one hundredth meridian in charge of First Lieut. Geo. M. Wheeler. vol. v. Zoology.

#### FOREIGN.

**Biologia centrali-americana.** Insecta. Orthoptera . . . [London, Pub. for the editors by R. H. Porter] 1893-1905.

v. 1-2, p. 160. plates (partly col.) 32cm.

Vol. I by Dr. H. de Saussure, assisted by Dr. L. Zehntner and A. Pictet. The Forficulidæ by Count de Bormans; vol. II (not yet complete) by L. Bruner and A. P. Morse.

Issued in parts.

Cover-titles: *Biologia centrali-americana*; or, Contributions to the knowledge of the fauna and flora of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1905, ed. by F. Ducane Godman.



**Bolívar y Urrutia, Ignacio.** Catalogus orthopterorum Europæ et confinium . . . Madrid, 1878.

18 p. 22 $\frac{1}{2}$ <sup>em</sup>.

From Anal. de la Soc. esp. de hist. nat., tom. vii, 1878.

**Bolívar y Urrutia, Ignacio.** . . . Énumération des orthoptères de l'île de Cuba, par Ignacio Bolívar. [Paris, Au siège de la Société, 1888]

49 p. 35<sup>em</sup>.

Caption title.

"Extrait des Mémoires de la Société zoologique de France, pour l'année 1888."

**Bolívar y Urrutia, Ignacio.** Sinópsis de los ortópteros de España y Portugal, por Ignacio Bolívar. Madrid, Imp. de T. Fortanet, 1876.

3 p. l., 162 p. iii pl. 24 $\frac{1}{2}$ <sup>em</sup>.

**Borck, Johann Bernhard.** Skandinaviens rätvingade insekters natural-historia af J. B. v. Borck . . . Lund, Tryckt uti Berlingska boktryckeriet, 1848.

xvi, 144, [2] p. iv col. pl. 22<sup>em</sup>.

**Brunner von Wattenwyl, Carl.** Prodrómus der europäischen orthopteren, von C. Brunner von Wattenwyl. Mit 11 tafeln und einer karte. Leipzig, W. Engelmann, 1882.

xxxii, 466 p. xi pl., 1 map. 24<sup>em</sup>.

"Literatur": p. xiii-xxiv.

**Finot, Adrien, i. e., P. Adrien Prosper.** Faune de la France. Insectes orthoptères, thysanoures et orthoptères proprement dits . . . Par A. Finot . . . Fontainebleau, L'auteur; Paris, É. Deyrolle, 1890.

322 p., 1 l. 13 pl. 25<sup>em</sup>.

"Bibliographie": p. [13]-14.

**Fischer, Leopold Heinrich.** Orthoptera europaea, auctore Leop. Henrico Fischer . . . Lipsiae, sumtibus G. Engelmann; [etc., etc.] 1853. Agr 3—782

xx, 454 p. xviii pl. (1 col.) 29<sup>em</sup>.

Authorities consulted: p. [ix]-xiv.

**Houlbert, Constant Vincent.** Faune analytique illustrée des orthoptères de France contenant la description de 175 espèces ou variétés et 218 figures au traít, par Constant Houlbert . . . Paris, MM. les fils d'Émile Deyrolle, 1900.

1 p. l., 55 p. illus. 28<sup>em</sup>.

Extrait de la Feuille des jeunes naturalistes, année 1900.

**Jakobson, Georg Georg.** Прямокрылыя и ложнощётчатокрылыя Россійской имперіи и сопредѣльныхъ странъ. Составлено Г. Г. Якобсономъ и В. Л. Бианки . . . по Dr. R. Tümpel'ю Die geradflügler Mitteleuropas . . . С.-Петербургъ, изданіе А. О. Девриена, 1905.

3 p. l., x p., 1 l., 952 p., 1 l. illus., xxv pl. (22 col.) 28<sup>em</sup>.

Orthoptera and Pseudoneuroptera of the Russian empire and adjacent countries. By G. G. Jakobson and V. L. Bianchi . . . after Dr. R. Tümpel's Die geradflügler Mitteleuropas.

Issued in 7 pts., 1902-05. .

Bibliographies.

**Kirby, William Forsell.** List of a small collection of orthopterous insects formed by Sir Harry Johnston in British East Africa and Uganda in 1899 and 1900, with descriptions of five new species . . . London] 1902.

93-101 p. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, February 4, 1902.

**Krauss, Hermann August.** Beitrag zur kenntniss westafrikanischer orthopteren . . . Jena [1890]

2 pts. 2 double pl. 23 $\frac{1}{2}$ <sup>em</sup>.

Separatdruck aus den Zoologischen Jahrbüchern. Abtheilung für systematik, geographie und biologie der thiere . . . 5. bd. p. 344-360, 647-668.

**Krauss, Hermann August.** Die dermapteren und orthopteren Siciliens . . . Wien 1887.

24 p. 22<sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1887> besonders abgedruckt.

**Krauss, Hermann August.** Erklärung der orthopteren-tafeln J. C. Savigny's in der "Description de l'Égypte" . . . Wien, 1890.

48 p. 22½cm.

Literatur-verzeichniss": p. 6-9.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien<jahrgang 1890> besonders abgedruckt.

**Krauss Hermann August.** Neuer beitrag zur orthopteren-fauna Tirols, mit beschreibung zweier neuer Pezotettix-arten . . . Wien 1883.

6 p. illus. 21cm.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien<jahrg. 1883> besonders abgedruckt.

**Krauss, Hermann August.** Orthopteren von Senegal. Gesammelt von Dr. Franz Steindachner . . . [Wien, 1877]

35 p. II pl. 24cm.

Aus den LXXVI. bande der Sitzb. der K. Akad. der wissenschaft. I. abth. juni-heft. jahrg. 1877.

**Krauss, Hermann August.** . . . Systematisches verzeichnis der canarischen dermatopteren und orthopteren, mit diagnosen der neuen gattungen und arten : . . . [Leipzig 1892]

9 p. 23cm.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 390.

**Piers, Harry.** Preliminary notes on the Orthoptera of Nova Scotia . . . [Halifax] 1896.

cover-title, 208-218 p. 22cm.

From the Transactions of the Nova Scotian institute of science, vol. ix, session 1895-96.

**Redtenbacher, Josef.** Die dermatopteren und orthopteren (ohrwürmer und geradflügler) von Österreich-Ungarn und Deutschland, bearb. von Josef Redtenbacher Wien, C. Gerold's sohn, 1900.

1 p. l., 148 p. 1 pl. 24cm.

**Rehn, James Abram Garfield.** . . . The Acrididæ, Tettigonidæ and Gryllidæ, collected by Dr. A. Donaldson Smith in northeast Africa . . . [Philadelphia] 1901.

370-382 p. 24½cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, June 1901, v. 53.

**Rehn, James Abram Garfield.** . . . Contributions toward a knowledge of the Orthoptera of Japan and Korea . . . [Philadelphia] 1902.

pt. 1. 25½cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, October 1902.

CONTENTS.—pt. 1. Acrididæ.

**Rehn, James Abram Garfield.** . . . The Forficulidæ, Blattidæ, Mantidæ, and Phasmidæ collected in northeast Africa by Dr. A. Donaldson Smith . . . [Philadelphia] 1901.

273-288 p. 24½cm.

From Proceedings of the Academy of natural sciences of Philadelphia, vol. 53, p. 273-288.

**Rehn, James Abram Garfield.** . . . Notes on Orthoptera from northern and central Mexico . . . [Philadelphia] 1904.

518-549 p. 25½cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, June 1904, vol. 56.

**Sajó, Karl.** . . . A marokkói sáska (Stauronotus maroccanus Thunb.). Magyarországon, az 1888., 1889. és 1890. években. Irta Sajó Károly . . . Budapest, 1891. 79, [1] p. illus. fold. pl., fold. map. 23cm. (A M. K. Állami rovarfajta állomás közleményei. I. kötet, 4. füzet)

**Saussure, Henri de.** . . . Analecta entomologica . . . I[-II] Genève, 1898-[1903]

2 pts. 2 pl. (1 double) 24½cm.

Extrait de la Revue suisse de zoologie, t. 5, 1898, p. [183]-248; t. 11, 1903, p. [43]-112.

CONTENTS.—I. Orthopterologica.—II. Notice sur la tribu des eumastaciens.

**Saussure, Henri de.** . . . *Analecta entomologica* . . . i. Orthopterologica, appendice. [Genève, 1898]

[787]-809 p. 24<sup>1</sup>cm.

From *Revue suisse de zoologie*, t. 5, 1898.

**Saussure, Henri de.** *Études sur les myriapodes et les insectes*, par M. Henri de Saussure . . . [Paris, Imprimerie, 1870]

2 v. pl. 36<sup>em</sup>. (Mission scientifique au Mexique et dans l'Amérique Centrale. Recherches zoologiques pour servir à l'histoire de la faune de l'Amérique Centrale et du Mexique publiées sous la direction de M. Milne Edwards. 6. ptie.)

CONTENTS.—6. ptie., [1. section] *Études sur les insectes orthoptères*.—2. section. *Études sur les myriapodes*, par MM. Henri de Saussure et Alois Humbert.

**Saussure, Henri de.** *Orthoptera* . . . Frankfurt a. M., 1899.

1 p. l., [569]-664 p., 2 l. xxxvii-xxxviii pl. 30 x 23<sup>1</sup>cm.

"Sonderabdruck aus den Abhandlungen der Senckenbergischen naturforschenden gesellschaft, bd. xxi, hft. iv. (Voeltzkow, Wissenschaftliche ergebnisse der reisen in Madagascar und Ost-Afrika in den jahren 1889-1895)"

**Saussure, Henri de.** . . . *Orthoptera nova americana* (diagnoses præliminaires)

. . . Paris 1859-62.

ser. 1-3. 22<sup>1</sup>cm.

Extrait de la *Revue et magasin de zoologie*. no. 2, 5 et 6, 1859; mars 1861, page 126, 156, 313, avril 1862.

**Saussure, Henri de.** . . . *Orthoptères*, par M. Henri de Saussure . . . St.-Petersbourg, Moscou, 1874.

4 p. l., 52 p. col. pl. 33<sup>em</sup>. (Fedchenko, A. P. *Voyage au Turkestan* . . . publié par la Société impériale des amis des sciences naturelles . . . tome II, *Recherches zoographiques*, v. ptie. [no. 1])

Mémoires de la Société impériale des amis des sciences naturelles, d'anthropologie et d'ethnographie attachée à l'Université de Moscou.—tome XI, [no. 4]

Added t.-p. in Russian.

**Saussure, Henri de.** *Orthoptères de l'Amérique moyenne*, par Henri de Saussure . . . Genève, Impr. Ramboz et Schuchardt, 1864.

Agr 3—810

279 p. II col. pl. 29<sup>em</sup>. (Mémoires pour servir à l'histoire naturelle du Mexique, des Antilles et des États-Unis. 4. mémoire)

**Schulthess-Rechberg, Anton von.** . . . *Orthoptères* . . . [Lausanne, 1899]

191-215 p., VII-VIII pl. 21<sup>1</sup>cm. (H. A. Junod. *La faune entomologique du Delagoa*, II)

From *Bulletin de la Société vaudoise des sciences naturelles*, vol. xxxv.

**Scudder, Samuel Hubbard.** *Notice of the butterflies and Orthoptera, collected by Mr. George M. Dawson.* See under *Rhopalocera*, p. 322.

**Scudder, Samuel Hubbard.** . . . *The Orthoptera of the Galapagos islands* . . . Cambridge, 1893.

25 p. III pl. 24<sup>1</sup>cm. (Reports on the dredging operations off the west coast of Central America to the Galapagos, to the west coast of Mexico, and in the Gulf of California, in charge of Alexander Agassiz, carried on by the U. S. Fish commission steamer "Albatross" during 1891 . . . VII)

*Bulletin of the Museum of comparative zoology at Harvard college.* vol xxv. no. i.

**Tepper, J. Gottlieb Otto.** *Descriptions of new or little-known species of Blattariæ, Gryllacridæ, and Stenopelmatidæ collected at Lake Callabonna, S. A.* . . . [Adelaide] 1895.

[19]-24 p. 21<sup>em</sup>.

From the *Transactions of the Royal society of South Australia*, 1895.

**Tepper, J. Gottlieb Otto.** . . . *Descriptions of some new species of Orthoptera from north-western South Australia.* no. 1. [Adelaide] 1904.

162-167 p. pl. 22<sup>em</sup>.

From "Transactions of the Royal society of South Australia," vol. xxviii, 1904.

**Tepper, J. Gottlieb Otto.** . . . *Orthoptera* . . . [Adelaide, 1893]

[151]-153 p. 21<sup>1</sup>cm. (Scientific results of the Elder exploring expedition)

Reprinted from *Transactions Royal society, South Australia*, vol. xvi.

**Tümpel, R.** *Die geradflügler Mitteleuropas, von Dr. R. Tümpel.* Mit 20 von W. Müller noch der natur gemalten farbigen und 3 schwarzen tafeln nebst zahlreichen textabbildungen. Eisenach, M. Wilckens verlag, 1901.

2 p. l., 308 p. illus., xxiii pl. (20 col.) 28<sup>em</sup>.

**White, Adam.** List of the specimens of British animals in the collection of the British museum. Pt. xvii. Nomenclator of Anoplura, Euplexoptera and Orthoptera. London, Printed by order of the trustees, 1853. Agr 3-825  
17 p. 18<sup>cm</sup>.

## FAMILIES.

## HEMIMERIDÆ.

**Saussure, Henri de.** . . . Note supplémentaire sur le genre *Hemimerus* . . . Genève, 1896.

[277]-299, [1] p. pl. 24<sup>cm</sup>.

From *Revue suisse de zoologie*, tome iv.

**Saussure, Henri de.** *Spicilegia entomologica genavensia* scripsit Henricus de Saussure . . . 1-[2] Genève, Impr. C. Schuchardt, 1879-87.

2 pts. 3 pl. 304-314<sup>cm</sup>.

Pt. 1, tiré des *Mémoires de la Société de physique et d'histoire naturelle de Genève*, t. xxvi, 2 partie.

CONTENTS.—1. Genre *Hemimerus*.—2. Tribu des pamphagiens.

## FORFICULIDÆ.

**Burr, Malcolm.** . . . Notes on the Forficularia . . . [London] 1899-1900.

pt. i-vi. pl. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. iv, p. 252-260, vol. vi, p. 79-101.

**Kirby, William Forsell.** . . . Descriptions of new species of Forficulidæ in the collection of the British Museum (nat. hist.), S. Kensington . . . [London] 1896.

[520]-529 p. pl. 22<sup>cm</sup>.

Extracted from the *Linnean society's journal—zoology*, vol. xxv.

**Rehn, James Abram Garfield.** . . . Studies in old world forficulids or earwigs, and blattids or cockroaches . . . Washington, 1904.

539-560 p. 24<sup>cm</sup>.

From the *Proceedings of the United States national museum*, vol. xxvii, p. 539-560. <no. 1363>

## BLATTIDÆ.

**Blatchley, Willis Stanley.** The Locustidæ and Blattidæ of Indiana. *See under* Locustidæ, p. 287.

**Brunner von Wattenwyl, Carl.** Nouveau système des blattaires par Charles Brunner de Wattenwyl. Ouvrage publié par la Société i. r. de zoologie et de botanique, et accompagné de 13 planches. Vienne, G. Braumüller; [etc., etc.] 1865.

xi, 426 p. xiii pl. 22<sup>cm</sup>.

**Kirby, William Forsell.** . . . Notes on a collection of African Blattidæ, chiefly from the Transvaal, formed by Mr. W. L. Distant . . . [London] 1900.

[277]-294 p. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. v, March, 1900.

**Marlatt, Charles Lester.** Cockroaches. Washington, 1902.

15 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 51) "Revised reprint from Bulletin no. 4, new series, Division of entomology, U. S. department of agriculture, pp. 84-95."

**Miall, Louis Compton.** . . . The structure and life-history of the cockroach (*Periplaneta orientalis*); an introduction to the study of insects, by L. C. Miall . . . and Alfred Denny . . . London, L. Reeve & co. [etc.] 1886. Agr 3-1142

4 p. l., 224 p. illus. 22<sup>cm</sup>. (Studies in comparative anatomy. III)

**Rehn, James Abram Garfield.** Studies in old world forficulids or earwigs, and blattids or cockroaches. *See above under* Forficulidæ.

**Saussure, Henri de.** Revision de la tribu des hétérogamiens (orthoptères de la famille des blattides) . . . Genève, 1893.

[289]-318 p. 24<sup>cm</sup>.

From *Revue suisse de zoologie*, tome I<sup>er</sup>.

**Saussure, Henri de.** Revision de la tribu des panesthiens et de celle des épilam-priens, insectes orthoptères de la famille des blattides, par Henri de Saussure . . . Genève, Impr. Aubert-Schuchardt, Rey & Malavallon, successeurs, 1895.

1 p. l., [299]-364 p., 1 l. pl. 24½<sup>em</sup>.

Extrait de la Revue suisse de zoologie, t. III, fasc. 2, 1895.

**Saussure, Henri de.** Revision de la tribu des périsphæriens, insectes orthoptères de la famille des blattides, par H. de Saussure et Léo Zehntner . . . Genève, Impr. Aubert-Schuchardt, 1895.

1 p. l., 59, [1] p. pl. 25<sup>em</sup>.

Extrait de la Revue suisse de zoologie, t. III, fasc. 1, 1895.

**Tepper, J. Gottlieb Otto.** The Blattariæ of Australia and Polynesia . . . [Ade-laide, 1893]

[25]-130 p. 21½<sup>em</sup>.

From the Transactions of the Royal society of South Australia, 1893.

**Tepper, J. Gottlieb Otto.** Notes on Victorian and other Blattariæ and descrip-tions of new species . . . [Adelaide, 1895]

[46]-166 p. 21½<sup>em</sup>.

"From the Transactions of the Royal society of South Australia, 1895."

## PHASMIDÆ.

**Bates, Henry Walter.** . . . Descriptions of fifty-two new species of Phasmidæ from the collection of Mr. W. Wilson Saunders, with remarks on the family . . . [London, 1866]

321-359 p. 44-45 p. 30<sup>em</sup>.

From the Transactions of the Linnean society, vol. xxv.

**Berg, Carlos.** . . . Sobre algunos anismórfidos chileno-argentinos . . . [Bue-nos Aires] 1899.

[181]-186 p. 24<sup>em</sup>.

Comunicaciones del Museo nacional de Buenos Aires. T. 1. no. 5. ps. 181 á 186.

**Caudell, Andrew Nelson.** . . . The Phasmidæ, or walkingsticks of the United States . . . Washington, 1903.

863-885 p. LVI-LIX pl. 24½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. xxvi, p. 863-885 <No. 1335>

**Cockerell, Theodore Dru Alison.** Phasmidæ or stick insects. [Kingston, 1891]

6-7 p. 29<sup>em</sup>.

From Bulletin of the Botanical department, Jamaica, no. 26, Dec. 1891.

**Gray, George Robert.** The entomology of Australia, in a series of monographs. By George Robert Gray . . . Pt. I containing the monograph of the genus Pasma. London, Published by the author, 1833.

Agr 4-3453

x p., 1 l., [13]-23 p. 8 pl. 33<sup>em</sup>.

**Gray, George Robert.** Synopsis of the species of insects belonging to the family of Phasmidæ. By George Robert Gray . . . London, Longman, Rees, Orme, Brown, Green, and Longman, 1835.

Agr 4-965

2 p. l., 48 p. 21½<sup>em</sup>.

**Nooten, Mme. Berthe Hoola van.** Phyllium pulcherrifolium. [Batavia, 1862]

[2] p. 1 col. pl. 60½<sup>em</sup>.

In Dutch, French & English.

**Tepper, J. Gottlieb Otto.** List of the described genera and species of the Aus-tralian and Polynesian Phasmidæ (spectre-insects.) Based on Stål's system of classi-fication . . . Adelaide, 1903.

[278]-287 p. 21½<sup>em</sup>.

From the Transactions of the Royal society of South Australia, vol. xxvi., pp. 278-287, 1902.

## MANTIDÆ.

**Barlow, Edward.** . . . A short note on the food-insects of the mantis *Hierodula bipapilla*, Serv. . . . [Calcutta, 1894]

2 p. 23<sup>em</sup>.

From the Proceedings, Asiatic society of Bengal, for December, 1894.

**Berg, Cárlos.** *Pleminia argentina*, un nuevo pseudofflido . . . [Buenos Aires] 1900.

[264]-266 p. 24<sup>em</sup>.

Comunicaciones del Museo nacional de Buenos Aires. T. I. no. 7. ps. 264-266.

**Bordage, Edmond.** . . . The regeneration of limbs in the Mantidæ, and the constant occurrence of a tetramerous tarsus in limbs regenerated after self-mutilation among the Orthoptera pentamera . . . [London, 1899]

115-118 p. 22½<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, v. 4.

Tr. from 'Comptes rendus,' CXXVIII. (1899) pp. 1593-1596.

**Brunner von Wattenwyl, Carl.** Monographie der pseudophylliden, von C. Brunner von Wattenwyl. Hrsg. von der K. K. Zoologisch-botanischen gesellschaft in Wien . . . Wien, Im selbstverlage der gesellschaft, 1895.

iv, 282 p. 22<sup>em</sup> and atlas of x pl. 32½<sup>em</sup>.

"Litteratur": p. 7-8.

**Cockerell, Theodore Dru Alison.** The development of Mantis . . . [Boston, 1898]

[513]-514 p. illus. 24<sup>em</sup>.

From the American naturalist, vol. xxxii, no. 379, July 1898.

**Kirby, William Forsell.** . . . On a collection of Mantidæ from the Transvaal, &c., formed by Mr. W. L. Distant . . . [London] 1899.

[344]-353 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. iv, November 1899.

**Leidy, Joseph.** On the anatomy of *Spectrum femoratum*, Say. . . . [Philadelphia] 1846.

80-84 p. 2 pl. 24<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, vol. III.

**Rehn, James Abram Garfield.** . . . Studies in American mantids or sooth-sayers . . . Washington, 1904.

561-574 p. 24<sup>em</sup>.

From the Proceedings of the United States national museum, vol. xxvii, p. 561-574 <no. 1364>

**Rehn, James Abram Garfield.** . . . Studies in Old World Mantidæ (Orthoptera) . . . [Philadelphia] 1903.

701-718 p. 25½<sup>em</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, October, 1903.

**Saussure, Henri de.** Synopsis des mantides américains, par Henri de Saussure. . . . Genève et Bâle, H. Georg, 1871.

186 p. II pl. 28½<sup>em</sup>. ([Mémoires pour servir à l'histoire naturelle du Mexique, des Antilles, et des États-Unis. 4. mémoire])

**Westwood, John Obadiah.** Revisio insectorum familiæ mantidarum, speciebus novis aut minus cognitis descriptis et delineatis, auctore Joh. Ob. Westwood. London, Gurney and Jackson, 1839.

1 p. l., 53, [1], iii p. xiv pl. 39<sup>em</sup>.

## GRYLLIDÆ.

**Ayers, Howard.** . . . On the development of *Cecanthus niveus* and its parasite, *Teleas*. By Howard Ayers. Boston, Published by the Society, 1884.

cover-title, [225]-281 p. illus., 18-25 pl. (2 col.) 30<sup>em</sup>.

From Memoirs of the Boston society of natural history, vol. III.

- Bolívar y Urrutia, Ignacio.** Enumeración de los grílidos de Filipinas . . . [Madrid, 1889]  
[415]-431 p. 23½<sup>em</sup>.  
From *Anales de la Sociedad española de historia natural*, tomo XVIII, 1889.
- Bos, Jan Ritzema.** . . . Wovon lebt die werre (*Gryllotalpa vulgaris*)? . . . Stuttgart [1893?]  
[26]-28 p. 23½<sup>em</sup>.  
Sonderabdruck aus der "Zeitschrift für pflanzenkrankheiten," III. bd. I. hft.
- Guercio, Giacomo del.** Intorno al modo di combattere la *Gryllotalpa vulgaris* Latr. negli orti, nei giardini e nei campi irrigui . . . [Modena, 1893]  
227-233, [1] p. 25½<sup>em</sup>.  
"Estratto dal periodico Le stazioni sperimentali agrarie italiane, marzo 1893, vol. XXIV, fasc. III, da p. 227 a p. 233."
- Pungur, Gyula.** A magyarországi tücsökfélék természetrajza. (Histoire naturelle des gryllides de Hongrie) A királyi Magyar természettudományi tarsulat megbízásából írta Pungur Gyula. Francia kivonattal és hat tábla rajzzal. Budapest, Kiadja a Kir. Magyar természettudományi társulat, 1891.  
vi p., 1 l., 79, [13] p., 2 l. vi pl. 31½<sup>em</sup>.  
Text in Hungarian with summary in French.  
"Az irodalom jegyzéke betűsorban": p. [62]-64.
- Saussure, Henri de.** Notice morphologique sur les gryllotalpiens par H. de Saussure . . . et Léo Zehntner . . . Genève, 1894.  
[408]-430, [2] p., 1 l. xvi-xvii pl. 24½<sup>em</sup>.  
Extrait de la Revue suisse de zoologie, tome II, fascicule 2, 1894.
- Scudder, Samuel Hubbard.** . . . Revision of the large, stylated, fossorial crickets. By Samuel H. Scudder. Salem, Mass., Published by the Peabody academy of science, 1869. 5-31652  
28 p., 2 l. pl. 29½<sup>em</sup>. (Peabody academy of science. First memoir)
- Tepper, J. Gottlieb Otto.** The Gryllacridæ and Stenopelmatidæ of Australia and Polynesia . . . [Adelaide] 1892.  
[137]-178 p. 21<sup>em</sup>.  
"From the Transactions of the Royal society of South Australia, 1892."
- Tepper, J. Gottlieb Otto.** Note on a genus of Gryllidæ, new for South Australia; and a description of a new species of Myrmecophila . . . [Adelaide] 1896.  
149-151 p. 22<sup>em</sup>.  
Reprinted from Transactions Royal society, South Australia, vol. xx.

## LOCUSTIDÆ.

- Beutenmüller, William.** A new katydid from Florida . . . New York, 1903.  
[637]-638 p. illus. 24<sup>em</sup>.  
Author's edition, extracted from Bulletin of the American museum of natural history, vol. XIX, article XXVII, pp. 637-638.
- Blatchley, Willis Stanley.** . . . The Locustidæ and Blattidæ of Indiana by W. S. Blatchley . . . Terre Haute [1893]  
92-165, ii p. 22<sup>em</sup>.  
From the Proceedings of the Indiana academy of science, 1892.
- Brunner von Wattenwyl, Carl.** Monographie der phaneropteriden, von C. Brunner von Wattenwyl. Hrsg. von der K. K. Zoologisch-botanischen gesellschaft in Wien . . . Wien, In commission bei F. A. Brockhaus in Leipzig, 1878.  
1 p. l., 401 p. VIII fold. pl. 22½<sup>em</sup>.  
"Literatur der phaneropteriden": p. 372-389.
- Brunner von Wattenwyl, Carl.** Monographie der stenopelmatiden und gryllacriden . . . Wien, 1888.  
150 p. v-ix double pl. 22½<sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1888> besonders abgedruckt.

**Brunner von Wattenwyl, Carl.** Monographie der stenopelmatiden und gryllacryden. Additamenta. [Wien, 1891]

196 p. 2 fold. pl. 23<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1891> besonders abgedruckt.

"Zugewachsene literatur": p. 2-3.

[Gravenhorst, Johann Ludwig Carl] Barbitistes ocskayi Charpentier. [Halle, 1850]

xciii-xcvi p. col. pl. 30<sup>cm</sup>.

From Nova acta Acad. Cæs. Leopold.-Carol. Germ. nat. cur. vol. xxii.

**Kirby, William Forsell.** . . . Notes on the collection of African Phasgonuridæ formed by Mr. W. L. Distant in the Transvaal &c., with descriptions of two new species. . . [London] 1900.

[211]-217 p. 21<sup>4</sup><sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. vi, August 1900.

**Kirby, William Forsell.** . . . Notes on the orthopterous genus Phyllophora . . . [London] 1899.

[302]-311 p. pl. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. iv, October 1899.

**Rehn, James Abram Garfield.** . . . A new genus of Stenopelmatinæ (Orthoptera) from New Mexico. By James A. G. Rehn and T. D. A. Cockrell. [Philadelphia] 1903.

630-631 p. 25<sup>4</sup><sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, October 1903.

**Scudder, Samuel Hubbard.** . . . The North American Ceuthophili . . . [Boston] 1894.

17-113 p. 24<sup>cm</sup>.

From the Proceedings of the American academy of arts and sciences.

**Scudder, Samuel Hubbard.** . . . The orthopteran group Scudderiæ . . . [Boston] 1898.

[271]-290 p. pl. 24<sup>4</sup><sup>cm</sup>. (Proceedings of the American academy of arts and sciences. vol. xxxiii. no. 15. April 1898)

**Scudder, Samuel Hubbard.** . . . Two genera of North American Decticinæ . . . [Boston] 1899.

[83]-93 p. 24<sup>cm</sup>. (Proceedings of the American academy of arts and sciences. vol. xxxiv. no. 5. October 1899)

**Tepper, J. Gottlieb Otto.** Description of a new genus and species of Locustidæ . . . [Adelaide] 1889.

[21]-23 p. 21<sup>4</sup><sup>cm</sup>.

From the Transactions of the Royal society of South Australia, 1889.

**Tepper, J. Gottlieb Otto.** The Gryllacridæ and Stenopelmatidæ of Australia and Polynesia. See under Gryllidæ.

**Tepper, J. Gottlieb Otto.** The Phaneropteridæ of Australia . . . Adelaide, 1892.

2 p. l., [77]-113 p. 21<sup>cm</sup>.

"From the Transactions of the Royal society of South Australia, 1892."

**United States—Entomological commission.** Second report. See under Acridiidæ, p. 296.

**Yersin, Alexander.** Note sur la dernière mue des orthoptères . . . [Lausanne] 1855.

4 p. pl. 20<sup>4</sup><sup>cm</sup>.

Extrait du Bulletin de la Société vaudoise des sciences naturelles, séance du 18 avril 1855.

#### ACRIDIIDÆ. BIBLIOGRAPHY.

**Mann, Benjamin Pickman.** Bibliography of some of the literature concerning destructive locusts. Washington, 1880,

24 p. 23<sup>cm</sup>. (U. S. Entomological commission, Report 2. Appendix 4)



**Mann, Benjamin Pickman.** Bibliography on the locusts of America. Washington, 1878.

7 p. 23<sup>cm</sup>. (U. S. Entomological commission. Report 1. Appendix 27)

## ACRIDIIDÆ.

**Alvarez, Teodoro.** . . . La langosta peregrina (*Acridium peregrinum nostras*) caracteres y costumbres. Historia de la invasión de 1896. Dedicado á la Comisión central de extinción de la langosta, por Teodoro Alvarez . . . Montevideo, Imprenta "Rural," 1898.

29 p. illus. 26<sup>cm</sup>.

At head of title: Departamento de ganadería y agricultura.

**Argentine Republic**—*Comisión central de extinción de langosta.* Memoria de los trabajos realizados durante el 1<sup>er</sup>–3<sup>o</sup> ejercicio 1897/98–99/1900. Buenos Aires, 1899–1900.

2 v. maps (partly fold.) 26½<sup>cm</sup>.

**Azcárate, Casildo.** Memoria presentada á la Comisión provincial para la extinción de la langosta por sus vocales Sres. D. Casildo Azcárate y D. Antonio Montenegro . . . Madrid, Oficina tipográfica del hospicio, 1875.

59 p. 23<sup>cm</sup>.

**Berg, Carlos.** . . . Sobre los enemigos pequeños de la langosta peregrina *Schistocerca paranensis* (Burm.) . . . [Buenos Aires, 1898]

[25]–30 p. 23½<sup>cm</sup>.

Comunicaciones del Museo nacional de Buenos Aires. t. I, n<sup>o</sup> 2, ps. 25 á 30, 17 de diciembre de 1898.

**Berlese, Antonio.** . . . Cenni sulle cavallette . . . Avellino, Stab. tipog. E. Pergola, 1893.

cover-title, 48 p. illus. 3 pl. (1 col.) 23½<sup>cm</sup>.

Estratto dalla Rivista di patologia vegetale, anno II, no. 10 a 12.

**Boas, Johan Erik Vesti.** Om en græshoppe, der gør skade i væksthuse . . . [Kjøbenhavn, 18—]

4 p. illus. 31<sup>cm</sup>.

Særtryk af Gartner-tidende.

**Bolívar y Urrutia, Ignacio.** . . . Monografía de los pirogómorfos por Don Ignacio Bolívar . . . [Madrid, 1884?]

161 p. iv pl. 25<sup>cm</sup>.

From Anales de la Soc. española de hist. nat., tome XIII, p. 5–73, 419–500.

"Bibliografía": p. 11–18.

**Brongniart, Charles J. E.** . . . Le criquet pèlerin, *Acridium peregrinum* Oliv., ses métamorphoses, son parasite cryptogame . . . Paris, 1891.

14 p. 22<sup>cm</sup>.

From Le naturaliste, Sept. 15, 1891.

**Brown, S.** The locust war in Cyprus. By S. Brown . . . London, Sprague & co., printers, 1888.

Agr 5—507

31 p. 6 pl. (incl. 2 maps) 21<sup>cm</sup>.

**Bruner, Lawrence.** The first report of the Merchants' locust investigation commission of Buenos Aires, by Lawrence Bruner . . . published in English and Spanish by the Commission. Buenos Aires, South American bank note co., 1898.

x, 98, [2] p., 1 l. illus., col. pl. 22<sup>cm</sup>.

**Bruner, Lawrence.** . . . The grasshoppers that occur in Nebraska. [Lincoln, Neb., 1897]

105–138 p. illus. 22<sup>cm</sup>.

From Annual report, Nebraska state board of agriculture, 1896.

**Bruner, Lawrence.** The more destructive locusts of America north of Mexico. Washington, 1893.

40 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 28)

4044—No. 55—06—19

**Bruner, Lawrence.** New North American Acrididæ, found north of the Mexican boundary . . . Washington, 1889.

47-82 p. pl. 24 $\frac{1}{2}$ cm.

From the Proceedings of the United States national museum, vol. xii, pages 47-82. <no. 764.>

**Bruner, Lawrence.** Primer informe de la Comisión del comercio de Buenos Aires para la investigación de la langosta, por Lawrence Bruner . . . Buenos Aires, Compañía sud-americana de billetes de banco, 1898.

x, 104 p., 3 l. illus., col. pl. 21 $\frac{1}{2}$ cm.

Col. pl. wanting.

Published also in English.

**Bruner, Lawrence.** Report of the abundance of the Rocky mountain locust in 1885. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1885. Washington, 1885. p. 303-307)

**Bruner, Lawrence.** To disposé of the hoppers . . . [n. p., n. d.]

1 p. illus. 35 $\frac{1}{2}$ x25cm.

**Brunner von Wattenwyl, Carl.** Monographie der proscopiden . . . [Wien, 1890]

38 p. III-v pl. 22 $\frac{1}{2}$ cm.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1890> besonders abgedruckt.

**Brunner von Wattenwyl, Carl.** Ueber das stimm- und gehörorgan der heuschrecken. Von C. Brunner von Wattenwyl. Vortrag, gehalten am 23. jänner 1884. [Wien, 1884]

[461]-474 p. illus. 19cm.

From Schriften des Vereines zur verbreitung naturwissenschaftlicher kenntnisse in Wien, bd. xxiv.

**Coquillett, Daniel William.** Report on the locusts of the San Joaquin valley, California. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1885. Washington, 1885. p. 289-303)

**Cotes, Everard Charles.** The locust of north-western India. Being a report upon an investigation conducted in the entomological section of the Indian museum by order of the trustees . . . [Calcutta, 1891]

12 p. pl. 31cm.

**Cotes, Everard Charles.** Note on locusts in India. [Calcutta, 1889]

4 p. 29cm.

**Cumming, Constance Frederica Gordon.** Locusts and farmers of America. [London, 1885]

133-153 p. 25 $\frac{1}{2}$ cm.

From the Nineteenth century, v. 17, 1885.

**Dawson, George Mercer.** Notes on the appearance and migrations of the locust in Manitoba and the North-West Territories. Summer of 1875 . . . [Montreal, 1878]

20 p. 21 $\frac{1}{2}$ cm.

From the Canadian naturalist, v. 8, p. 119-134.

**Dawson, George Mercer.** Notes on the locust in the north-west in 1876 . . . [Montreal, 1878]

7 p. 21 $\frac{1}{2}$ cm.

From the Canadian naturalist, vol, viii, no. 7.

**Dawson, George Mercer.** Notes on the locust invasion of 1874, in Manitoba and the North-West Territories . . . Montreal, 1876.

cover-title, 16 p. 21cm.

From the Canadian naturalist, n. s., v. 8, no. 3.

**Du Buysson, Robert, vicomte.** Catalogue des orthoptères locustides des collections du muséum . . . [Paris, 1903]

3 p. 24cm.

Extrait du Bulletin du Muséum d'histoire naturelle, 1903, no. 5, p. 225.

- Froggatt, Walter Wilson.** . . . Plague locusts . . . Sydney, 1900.  
9 p. pl. 25<sup>em</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 363)  
From Agricultural gazette of N. S. Wales, vol. xi, March, 1900.  
"Bibliography": p. 9.
- Gaumer, George F.** Report on Rocky Mountain locusts in Kansas, in 1877 . . .  
Topeka, 1877.  
1 p. 39 x 45<sup>em</sup>.
- Gerstaecker, Carl Eduard Adolph.** Die wanderheuschrecke. (Oedipoda migratoria Lin.) Gemeinverständliche darstellung ihrer naturgeschichte, lebensweise, schädlichkeit und der mittel zu ihrer vertilgung. Im auftrage des Königl. Preuss. Ministeriums für die landwirthschaftlichen angelegenheiten verfasst von Dr. A. Gerstaecker . . . Berlin, Wiegandt, Hempel & Parey, 1876. Agr 5—517  
1 p. l., 67, [1] p., 1 l. II col. pl. 23<sup>em</sup>.
- Giard, Alfred.** . . . Le criquet-pèlerin (Schistocerca peregrina Oliv.) et son cryptogame parasite (Lachnidium acridiorum) . . . Paris, 1892.  
3 p. 23<sup>em</sup>.  
Extrait des Comptes rendus des séances de la Société de biologie. (Séance du 9 janvier 1892) v. 44.
- Great Britain—Government.** Cyprus; reports on the locust campaigns of 1891/92, '97. 33½<sup>em</sup>. London, 1893-97.
- Green, Edward Ernest.** Visitation of spotted locusts. [Colombo] 1898.  
[77]—81 p. 22½<sup>em</sup>. (Royal botanic gardens, Ceylon. Circular. ser. 1, no. 9, December 10, 1898)
- Günther, A.** . . . Locusts <Dictionary of economic products, vol. v., l. 132a>  
Dried locusts as food for cage and game birds. Notes by Dr. A. Günther and Mr. E. C. Cotes . . . Calcutta, 1893.  
3 p. 25<sup>em</sup>. (The Agricultural ledger, 1893, no. 2. Entomological series, no. 1)
- Hancock, Joseph Lane.** . . . Unusual flights of the grouse locust (Tittigidea lateralis Say) in north eastern Illinois . . . [Philadelphia, 1894]  
483-487 p. pl. 25<sup>em</sup>.  
Reprinted from the American naturalist, June 1st, 1894.
- Hernández, Marcelino J.** La langosta . . . [San Salvador, 1885].  
92-107 p. 23<sup>em</sup>.  
From Memoria de los trabajos de las juntas central y distritoriales de agricultura en el año de 1884.
- Hungary—Magyar kir. állami rovar-tani állomás.** Utmutatás a marokkói sáska irtására cziprusi sóvénnyel. Budapest, 1890.  
12 p. illus. 23½<sup>em</sup>. (A. M. K. állami rovar-tani állomás közleményei, I kötet., 2. füzet.)
- Hunter, Samuel John.** . . . Alfalfa, grasshoppers, bees: their relationship. A report of the field-work of the Department of entomology, summer of 1898 . . . By S. J. Hunter. Topeka, Kan., Press of the state printer, 1899.  
xi, 152 p. incl. front., illus. 23<sup>em</sup>. (University of Kansas . . . Contribution from Entomological laboratory. no. 65)  
"Bibliography. Melanoplus differentialis": p. 62-63.  
"Books and journals relating to apiculture": p. 144.  
"One year among the bees. By A. H. Duff . . .": p. 102-138.
- Hunter, Samuel John.** Parasitic influences on Melanoplus . . . [Lawrence] 1898.  
[205]—210 p. illus. 24<sup>em</sup>. (Contribution from the Entomological laboratory, no. 63)  
From Kansas university quarterly, vol. vii, no. 4, Oct. 1898, series A.
- Jones, A. C.** Locusts in China . . . [Washington, 1893]  
434-437 p. illus. 24<sup>em</sup>.  
From Reports from the consuls of the United States, no. 150, March, 1893.
- Kansas—State board of agriculture.** Compilation by the Secretary of the Kansas state board of agriculture, of the manner and means heretofore employed for the extermination of the grasshopper, in pursuance of section 5, of an act entitled "An act to provide for the destruction of grasshoppers," etc., approved March 6, 1877.

Together with a synopsis of county data, and a recommendation of special crops. Topeka, 1877.

20 p. illus. 23<sup>cm</sup>.

**Knight, J. B.** Brief note on locusts. Points of distinction between Bombay and other locusts, males and females, and brief instructions to destroy them. Poona, 1904.

1 p. 33<sup>cm</sup>.

From the Annual report of the Deputy director of agriculture of the Bombay presidency for 1904, p. 9.

**Knight, J. B.** Description of the Bombay locusts (*Acridium succinctum*) Linn. [n. p.] 1904.

5-7 p. 33<sup>cm</sup>.

From the Annual report of the Deputy director of agriculture of the Bombay presidency for 1904, p. 5-7.

**Koebele, Albert.** Notes on locusts at and about Folsom, California. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1885. Washington, 1885. p. 308-311)

**Kollar, Vincenz.** Beitrag zur geschichte schädlicher heuschrecken . . . Wien, 1858.

[321]-324 p. 22<sup>1/2</sup><sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. VIII.

**Köppen, Fedor Petrovich.** . . . De la destruction des sauterelles dans le midi de la Russie par Fr. Th. Köppen. St.-Petersbourg, 1876.

33 p. illus. 24<sup>1/2</sup><sup>cm</sup>.

At head of title: Exposition internationale & Congrès d'hygiène & de sauvetage de Bruxelles en 1876. Section russe.

**Köppen, Fedor Petrovich.** Die geographische verbreitung der wanderheuschrecke (*Pachytylus migratorius*, L.) . . . [Götha, 1871]

[361]-366 p. map. 28<sup>cm</sup>.

From Mittheilungen aus Justus Perthes' geographischer anstalt über wichtige neue erforschungen auf dem gesamtgebiete der geographie von Dr. A. Petermann. 17. bd., 1871.

**Körte, Heinrich Friedrich Franz.** Die strich-, zug- oder wander-heuschrecke, ihre beschreibung, verheerung in jetzigen und frühern zeiten, und die mittel zu ihrer vertilgung. Von Franz Körte. Berlin, A. Rucker, 1828. Agr 5-646

52 p. col. front. 19<sup>cm</sup>.

**Künckel d'Herculais, Jules Philippe Alexandre.** . . . Invasions des acridiens, vulgo sauterelles, en Algérie, par J. Künckel d'Herculais . . . Ouvrage publié sur la demande des ministres de l'instruction publique et de l'agriculture sous les auspices de M. Jules Cambon . . . Alger, Giralt, Imprimeur du gouvernement général, 1893.

v. 2. 34 pl. (11 col.) fold. maps, tables (1 fold.) 33<sup>cm</sup>.

**Künckel d'Herculais, Jules Philippe Alexandre.** . . . La langosta como abono; extracto de un informe presentado por J. Künckel d'Herculais . . . Buenos Aires, Litografía, imprenta y encuadernación de G. Kraft, 1899.

12 p. 25<sup>cm</sup>.

At head of title: Ministerio de agricultura de la República Argentina.

**Künstler, Gustav Adolf.** Ueber heuschreckenfrass . . . [Wien] 1864.

[769]-[776] p. 22<sup>1/2</sup><sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, vol. 14, 1864.

**Lindemann, Karl Eduardovich.** . . . Саранча въ Кубанской области и организація борьбы съ нею. . . . С.-Петербургъ, Издание К. И. Масляникова [1886]

2 p. l., 55, [2] p. illus. 23<sup>cm</sup>.

Locusts in the province of Kuban and methods of fighting them.

At head of title: К. Э. Линдеманъ.

. . . **Locusts.** (Locust catchers) <Dictionary of economic products, vol. v, L. 510 a> An automatic locust catcher; extract from the Russian publication, "Selskaya khozyálu" . . . Calcutta, 1895.

3 p. illus. 25<sup>em</sup>. (The agricultural ledger, 1895—no. 15. Entomological series, no. 4)

**Martínez y Fernández-Castillo, Antonio.** Revisión y estudio del grupo Calopteni . . . [Madrid, 1902]

[258]—309 p. 24<sup>1</sup>/<sub>2</sub><sup>em</sup>.

"Obras consultadas": p. 265—267.

From Anales de la Sociedad española de historia natural. vol. xxx, 1902.

**Mexico**—*Comisión para el estudio de los medios más adecuados para la destrucción de la langosta.* Informe que la Comisión para el estudio de los medios más adecuados para la destrucción de la langosta rinde á la Secretaría de fomento. México, Imprenta de F. Diaz de León, 1883.

184 p. 24<sup>1</sup>/<sub>2</sub><sup>em</sup>.

**Mexico.**—*Secretaría de fomento, colonización é industria.* . . . Colección de documentos é informes sobre la langosta que ha invadido la República Mexicana en los años de 1879 á 1886. México, Oficina tip. de la Secretaría de fomento, 1886.

705 p. 20<sup>1</sup>/<sub>2</sub><sup>em</sup>.

At head of title: Estados Unidos Mexicanos. Secretaría de fomento. Sección 4<sup>a</sup>.

**Minnesota**—*Committee on grasshoppers.* The grasshopper, or Rocky Mountain locust, and its ravages in Minnesota. A special report to the Hon. C. K. Davis, governor of Minnesota . . . Saint Paul, The Pioneer-press company, 1876.

50 p. illus. 23<sup>em</sup>.

Committee consists of John C. Wise, Warren Smith, and Allen Whitman.

**Morse, Albert Pitts.** Researches on North American Acridiidæ, by Albert Pitts Morse . . . Washington, The Carnegie institution, 1904. Agr 5—172

55 p. illus., 8 pl. incl. front. 26<sup>em</sup>. [Carnegie institution of Washington. Publication no. 18]

**Morse, Albert Pitts.** . . . Spharagemon: a study of the New England species . . . Boston, 1894.

[220]—240 p. 24<sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. xxvi.

**Müller, Albert.** . . . Ueber das auftreten der wanderheuschrecke am ufer des Bielersee's . . . Luzern, 1876.

[188]—190 p. 24<sup>1</sup>/<sub>2</sub><sup>em</sup>.

Aus den Verhandlungen der Schweiz. naturforschenden gesellschaft in Andermatt, Sept. 1875.

**Munro, Æneas.** The locust plague and its suppression, by Æneas Munro . . . With illustrations. London, J. Murray, 1900.

xvi, 365 p. front., illus., pl., 1 por. 24<sup>em</sup>.

**Nevins, John Birbeck.** On recent locust plagues in Cyprus and in North America. A paper read before the Literary and philosophical society of Liverpool, April 5th, 1886 . . . [London, 1886]

40, [2] p. v pl. (incl. map) 21<sup>1</sup>/<sub>2</sub><sup>em</sup>.

Reprinted from Proceedings of the Literary and philosophical society of Liverpool, no. xl, p. 123-162.

**Packard, Alpheus Spring.** . . . The migrations of the destructive locust of the west . . . [Boston, 1877]

22-29 p. 24<sup>1</sup>/<sub>2</sub><sup>em</sup>.

From the American naturalist, January, 1877.

**Packard, Alpheus Spring.** . . . The Rocky Mountain locust. The brain of the locust . . . [Washington] 1880.

1 p. l., 223-242, [2] p., 6 l. 7 pl. 23<sup>em</sup>.

"List of works on the internal structure of the brain of Crustacea and insects:" p. 241-242.

Extracted from the Second report of the United States entomological commission, p. 223-242.

**Pictet, Alphonse.** Iconographie de quelques sauterelles vertes, par Alphonse Pictet et Henri de Saussure. Genève, Impr. Aubert-Schuchardt, 1892. Agr 5—229

26, [2] p. iii pl. 31<sup>em</sup>.

- Pictet, Alphonse.** . . . Locustides nouveaux ou peu connus du Musée de Genève  
 . . . Genève, 1888.  
 84 p. 3 pl. 3½<sup>cm</sup>.  
 Mémoires de la Société de physique et d'histoire naturelle de Genève, t. xxx.—n° 6.
- Quiñones, Ivan.** Tratado de las langostas muy util y necesario, en que se tratan cosas de prouecho y curiosidad para todos los que professan letras diuinas y humanas, y las mayores ciencias. Compuesto por el Doctor Ivan de Quiñones . . . Madrid, L. Sanchez, 1620.  
 12 p. l., 86 numb. l., 18 l. 2¾<sup>cm</sup>.  
 t.-p. vignette.  
 Printed on both sides of leaf.
- Reed, Edwyn C.** La langosta en Chile, por Edwyn C. Reed. Santiago de Chile, Impr. Gutenberg, 1893.  
 27 p. 25<sup>cm</sup>.  
 Paging irregular: no. 4\*, 5\*, 5\*\*, 6\* added.
- Rehn, James Abram Garfield.** On the genus *Phrynotettix* Glover (*Halde-manella* auct.) . . . [Philadelphia] 1902.  
 595-598 p. 2½<sup>cm</sup>.  
 From the Proceedings of the Academy of natural sciences of Philadelphia, September, 1902, vol. 54.
- Riley, Charles Valentine.** Destructive locusts. A popular consideration of a few of the more injurious locusts (or "grasshoppers") of the United States, together with the best means of destroying them. Washington, 1891.  
 62 p. illus., 12 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 25)
- Riley, Charles Valentine.** . . . Locust flights east of the Mississippi . . . [Topeka, 1877]  
 62-64 p. 2½<sup>cm</sup>.  
 From the Transactions of the Kansas academy of science, vol. 5.
- Riley, Charles Valentine.** . . . The locust plague; How to avert it . . . [Salem, 1876]  
 [215]-222 p. 24<sup>cm</sup>.  
 From the Proceedings of the American association for the advancement of science, Detroit meeting, August, 1875.
- Riley, Charles Valentine.** Prof. Riley's report to the governor of Kansas—The grasshopper question—Interesting information . . . [Topeka, 1877]  
 Clipping from the Weekly commonwealth of May 12, 1877.
- Riley, Charles Valentine.** The Rocky Mountain locust in Kansas, in 1877. Topeka, 1877.  
 21-42 p. illus. 23<sup>cm</sup>.  
 From the Monthly reports of the Kansas state board of agriculture for August, September and October, 1877. Circular 21.  
 Report of Prof. Riley's assistants in Kansas and synopsis of his remarks before the National agricultural congress at Chicago in September, 1876.
- Riley, Charles Valentine.** . . . The Rocky Mountain locust. Its habits and natural history . . . [Washington] 1878.  
 [1], 212-257 p. illus. 23<sup>cm</sup>.  
 Extracted from the First report of the United States entomological commission.
- Riley, Charles Valentine.** . . . The Rocky Mountain locust. Its metamorphoses and natural enemies . . . [Washington] 1878.  
 1 p. l., [279]-334 p. illus. 23<sup>cm</sup>.  
 Extracted from the First report of the United States entomological commission.
- Rivas Moreno, F.** La plaga de langosta; sus estragos y medios de combatirla, por F. Rivas Moreno. Madrid, Imp. de El resumen, 1888-89.  
 v. 3-4. v. 3, 16½<sup>cm</sup>; v. 4, 17<sup>cm</sup>.  
 Pomo 4, title reads: La plaga de langosta en Chipre, los Estados Unidos, Italia y las repúblicas del sur de América, sus estragos y medios de combatirla.
- The **Rocky Mountain locust**, or grasshopper, being the report of proceedings of a conference of the governors of several western states and territories, together with

several other gentlemen, held at Omaha, Nebraska, on the 25th and 26th days of October, 1876, to consider the locust problem; also a summary of the best means now known for counteracting the evil. Saint Louis, R. P. Studley company, printers and lithographers, 1876.

2 p. l., 58 p., 1 l. illus. 23<sup>em</sup>.

**Sander, L.** Die wanderheuschrecken und ihre bekämpfung in unseren afrikanischen kolonien, von Dr. L. Sander . . . mit unterstützung der wohlfahrtslotterie herausgegeben. Mit zahlreichen abbildungen im text und sechs uebersichtskarten. Berlin, D. Reimer (E. Vohsen) 192.

Agr 3—204

4 p. l., 544 p. illus., 6 fold. col. maps. 23<sup>em</sup>.

**Saussure, Henri de.** . . . Prodrum œdipodiorum insectorum ex ordine orthopterorum, auctore Henrico de Saussure. Genève, H. Georg, 1884.

254 p., 1 l. pl. 26½<sup>em</sup>. (Mémoires de la Société de physique et d'histoire naturelle de Genève. Tome XXVII.—no. 9)

— — — Additamenta . . . Genève, Impr. C. Schuchardt, 1888.

180, [2] p. pl. 26½<sup>em</sup>. (Mémoires de la Société de physique et d'histoire naturelle de Genève, tome xxx.—no. 1)

An added t.-p. for the whole work was issued with Additamenta, bearing title: Prodrome des œdipodiens, insectes de l'ordre des orthoptères, par Henri de Saussure. Genève, H. Georg, 1888.

**Saussure, Henri de.** Spicilegia entomologica genavensia. See under Hemimeridae, p. 284.

**Scudder, Samuel Hubbard.** . . . The genera of North American Melanopli . . . [Boston] 1897.

195-206 p. 24½<sup>em</sup>. (Proceedings of the American academy of arts and sciences vol. xxxii, no. 9 January, 1897)

**Scudder, Samuel Hubbard.** List of Orthoptera collected by Dr. A. S. Packard in the western United States in the summer of 1877. Washington, 1880.

6 p. 23<sup>em</sup>. (U. S. Entomological commission. Report 2. Appendix 2)

**Scudder, Samuel Hubbard.** . . . The orthopteran genus Schistocerca . . . [Boston] 1899.

[441]-476 p. 24½<sup>em</sup>. (Proceedings of the American academy of arts and sciences, vol. xxxiv, no. 17, March, 1899)

**Scudder, Samuel Hubbard.** . . . Revision of the orthopterous group Melanopli (Acridiidæ), with special reference to North American forms. By Samuel Hubbard Scudder . . . Washington, Gov't. print. off., 1897.

iv, 421 p. xxvi pl. 24<sup>em</sup>.

From the Proceedings of the United States national museum. vol. xx, p. 1-421 . . . <no. 1124>

— — — Supplement . . . [Davenport] 1898.

157-205 p., 3 l. vii-ix pl. 24<sup>em</sup>.

From the Proceedings of the Davenport academy of natural sciences, vol. vii, December 30, 1898.

**Scudder, Samuel Hubbard.** The species of the genus Melanoplus . . . [Philadelphia, 1897]

[5]-35 p. 23½<sup>em</sup>.

"Reprinted from Proc. Amer. philos. soc. vol. xxxvi. no. 154."

**Scudder, Samuel Hubbard.** . . . The species of the orthopteran genus Derotmema . . . [Boston] 1900.

[387]-395 p. 24½<sup>em</sup>. (Proceedings of the American academy of arts and sciences. vol. xxxv, no. 19. March, 1900)

**Selys-Longchamps, Michel Edmond, baron de.** . . . Sur la sauterelle voyageuse observée en Belgique . . . [Bruxelles, 1849]

3 p. 21½<sup>em</sup>.

From Bulletins de l'Académie royale des sciences, des lettres, et des beaux-arts de Belgique. vol. xvi, 1849, pt. 2, p. 626-627.

**Simpson, Charles Baird.** Yellow-winged locust (*Camnula pellucida* Scudd.) Washington, 1903.

3 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 53)

[**Snow, Francis Huntington**] . . . The more destructive grasshoppers of Kansas . . . Topeka, 1897.

11 p. v pl. 23<sup>em</sup>. (University of Kansas. Bulletin of the Department of entomology)  
Signed by F. H. Snow and S. J. Hunter.

**Targioni Tozzetti, Adolfo.** Cavallette in Algeria enell' agro Romano. [Modena, 1888]

6 p. 25<sup>em</sup>.

"Estratto dal giornale: Le Stazioni sperimentali agrarie italiane, anno 1888, vol. xiv.

**Thomas, Cyrus.** . . . How to destroy the young or unfledged locust . . . Lincoln, Neb., Daily globe printing office, 1877.

4 p. 19<sup>em</sup>. (. . . The United States entomological commission. Special bulletin for Nebraska. no. 1)

**Thomas, Cyrus.** . . . Synopsis of the Acrididæ of North America. By Cyrus Thomas, Ph. D. [Washington, Gov't print. off., 1873]

x, 262 p. 1 pl. 30<sup>em</sup>. (Dept. of the interior. Report of the United States geological survey of the territories. F. V. Hayden, United States geologist in charge. v. 5, pt. 1)

"Authorities": p. [3]-6.

**Tucker, E. S.** . . . Remarks about injurious grasshoppers . . . [Topeka] 1904.

934-935 p. illus. 40<sup>em</sup>.

From the Kansas farmer, September 22, 1904.

**United States—Dept. of agriculture—Division of entomology.** Reports of observations on the Rocky Mountain locust and the chinch bug, together with extracts from the correspondence of the division of miscellaneous insects. Washington, 1883.

36 p. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 2)

**United States—Dept. of agriculture—Division of entomology.** Reports on the damage by destructive locusts during the season of 1891. Made under the direction of the entomologist. Washington, 1892.

64 p. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 27)

**United States—Entomological commission.** First annual report of the United States entomological commission for the year 1877, relating to the Rocky Mountain locust and the best methods of preventing its injuries and of guarding against its invasions, in pursuance of an appropriation made by Congress for this purpose. Washington, 1878.

477, 295 p. illus., 5 pl., 2 maps. 23<sup>em</sup>.

**United States—Entomological commission.** Second report of the United States entomological commission for the years 1878 and 1879, relating to the Rocky Mountain locust, and the western cricket and treating of the best means of subduing the locust in its permanent breeding grounds, with a view of preventing its migrations into the more fertile portions of the trans-Mississippi country, in pursuance of appropriations made by Congress for this purpose. Washington, 1880.

322, 80 p. illus., 17 pl., 10 maps. 23<sup>em</sup>.

Bibliography of some of the literature concerning destructive locusts. Appendix. pp. 33-56.

**United States—Entomological commission.** Destruction of the young or unfledged locusts. Washington, 1877.

12 p. 23<sup>em</sup>. (U. S. Entomological commission. Bulletin 1)

**United States—Entomological commission.** On the natural history of the Rocky Mountain locust, and on the habits of the young or unfledged insects as they occur in the more fertile country in which they will hatch the present year. Washington, 1877.

15 p. illus., map. 23<sup>em</sup>. (U. S. Entomological commission. Bulletin 2)

**United States—Entomological commission.** The Rocky Mountain locust, or grasshopper of the West. Its habits and natural history, and the best means of counteracting its injuries. (U. S. Agriculture, Commissioner of. Report . . . for the year 1877. Washington, 1878. p. 264-333. xii pl., fold. map)

Reprint from Chapters VIII and XIII of the 1st Report of the United States Entomological commission with additions by C. V. Riley.



**Whitman, Allen.** . . . Report on the Rocky Mountain locust. For 1876. By Allen Whitman, state entomologist. Saint Paul, The Pioneer press company, 1877. 43 p. fold. map. 22 $\frac{1}{2}$ <sup>cm</sup>.

At head of title: Geological and natural history survey.

**Yersin, Alexander.** Note sur le *Pachytylus migratorius*, Fisch. Fr. . . . [Genève] 1858.

20 p. 22<sup>cm</sup>.

Tiré des Archives des sciences de la bibliothèque universelle. Novembre 1858.

**Zubovskii, N. N.** Eine neue *Gomphocerus*-art aus der Mongolei . . . [St.-Petersbourg, 1896]

[150]-152 p. 25<sup>cm</sup>.

From *Annuaire du Musée zoologique de l'Académie impériale des sciences de St. Pétersbourg*, 1896.

#### TETTIGIDÆ.

**Hancock, Joseph Lane.** The Tettigidae of North America, by Joseph Lane Hancock . . . Chicago, Pub. by special grant of Mrs. F. G. Logan, 1902. Agr 3-982 vi p., 1 l., 188 p. illus., XI pl. 27 $\frac{1}{2}$ <sup>cm</sup>.

"Literature": p. 182-184.

### LEPIDOPTERA.

#### GENERAL.

**Bemmelen, Johan Frans van.** De ontwikkeling der vlindervleugels in de pop. Voordracht gehouden in de bestuursvergadering van 16 oktober 1890 . . . Batavia en Noorwijk, 1890.

16, [2] p. 1 pl. 24<sup>cm</sup>. (Koninklijke natuurkundige vereeniging in Nederlandsch-Indie. Voor- drachten. No. 6)

**Bemmelen, Johan Frans van.** Ueber die entwicklung der farben und adern auf den schmetterlingsfluegeln . . . [Leiden, 1889]

13 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

Overgedrukt uit het Tijdschrift der Nederlandsche dierkundige vereeniging 1889.

**Berg, Carlos.** . . . Descripción de tres nuevos lepidópteros de la colección del Museo nacional de Buenos Aires . . . Buenos Aires, 1896.

4 p. illus. 27<sup>cm</sup>.

From *Anales del Museo nacional de Buenos Aires*. Tomo v, p. 1 á 4.

**Beutenmüller, William.** List of types of Lepidoptera in the Edwards collection of insects . . . New York, 1892.

167-198 p. 25<sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. iv, no. 1, article XIII, pp. 167-198.

**Beutenmüller, William.** List of types of some species of Lepidoptera, described by Grote and Robinson, in the American museum of natural history . . . New York, 1892.

59-64 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. iv, no. 1, article VII, pp. 56-64.

**Beutenmüller, William.** Some notes on transformations of Australian Lepidoptera, made by the late Henry Edwards, with notes and additions by William Beutenmüller. New York, 1892.

71-74 p. 25 $\frac{1}{2}$ <sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. iv, no. 1, article IX, p. 71-74.

**Beutenmüller, William.** Types of Lepidoptera in the collection of the American museum of natural history . . . New York, 1904.

81-86 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. xx, article v, p. 81-86.

**Boisduval, Jean Alphonse.** Histoire naturelle des insectes. Species général des lépidoptères, par le Dr. Boisduval . . . Tome 1, 5-10, atlas. Paris, Roret, 1836-58.

7 v. and atlas. 24, 58 pl. (partly col.) 21<sup>cm</sup>.

Agr 3-771

The work was begun by Boisduval, who after the publication of one volume associated with himself Guénéé, by whom v. 5-10 were written. Vols. 2-4 were to be devoted to the completion of the Diurnes by Boisduval, but they seem never to have been published.

"Abréviations et liste des ouvrages cités": v. 5, p. [xc]—xcvi.

CONTENTS.—t. 1. [Diurnes; papilionides, pécridés, par J. A. Boisduval] 1836.—t. 5-7. Noctuérites, par M. A. Guénéé. t. 1-3. 1852.—t. 8. Deltoides et pyralites, par M. A. Guénéé. 1854.—t. 9-10. Uranides et phalénites. t. 1-2. 1857.—Atlas. 1858.

**Butler, Arthur Gardiner.** . . . Corrections and addenda to certain papers on Lepidoptera published during the years 1865-66; with additional notes on some of the species described . . . [London] 1866.

[451]-458 p. 21<sup>cm</sup>.

From the Proceedings of the Zoological society of London, November 22, 1866.

**Butler, Arthur Gardiner.** . . . Descriptions of new genera and species of Lepidoptera in the collection of the British museum . . . [London] 1875.

[396]-400 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From the Annals and magazine of natural history for June 1875.

**Butler, Arthur Gardiner.** . . . Descriptions of some new species of exotic Lepidoptera . . . [London] 1871.

[79]-88 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 17, 1871.

**Comstock, John Henry.** Evolution and taxonomy. See under Anatomy and physiology, p. 39.

**Cramer, Pieter.** De uitlandsche kapellen voorkomende in de drie waereld-deelen Asia, Africa en America, by een verzameld en beschreeven door den Heer Pieter Cramer . . . Onder deszelfs opzigt allen naar het leven getekend, in het koper gebragt en met natuurlyke koleuren afgetekend . . . Papillons exotiques des trois parties du monde l'Asie, l'Afrique et l'Amérique. Rassemblés et décrits par Mr. Pierre Cramer . . . Dessinés sur les originaux, gravés et enlumines sous sa direction . . . Amsterdam, S. J. Baalde [etc., etc.] 1779-82.

8 pts. in 4 v. cccc col. pl. 31<sup>cm</sup>.

Deel 1 of text and deel 1 of plates have each a col. engr. half t.-p added. Deel 1-4 of plates have separate title-pages.

— Aanhangsel . . . vervattende naauwkeurige afbeeldingen van surinaamsche rupsen en poppen; als mede van veele zeldzaame en nieuwe ontdekte uitlandsche dag en nagt-kapellen. By een verzameld en beschreeven door Caspar Stoll . . . contenant les figures exactes des chenilles et des chrysalides de Suriname; comme celles des plusieurs rares et nouvellement decouvertes papillons et phalènes. Rassemblées et décrits par Mr. C. Stoll . . . Amsterdam, Chez N. T. Gravius, 1791.

1 p. l., 384 [i. e. 184] p. XLII col. pl. 30<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Dalla Torre, Karl Wilhelm von.** Die duftapparate der schmetterlinge . . . [Leipzig] 1885.

2 pts. 23<sup>cm</sup>.

Separat-abdruck aus "Kosmos," 1885, II. bd., s. [354]-364, [410]-423.

Litteratur: p. 421-423.

**Deschamps, Bernard.** Recherches microscopiques sur l'organisation des ailes des lépidoptères . . . [Paris] 1835.

111-137 p. 2 pl. (1 col.) 23<sup>cm</sup>.

From Ann. sci. nat. III (Zool.), 1835.

**Dewitz, Hermann.** Beschreibungen von jugendstadien exotischer lepidopteren. Von Dr. H. Dewitz, M. A. N. Mit 2 tafeln nr. VIII-IX. Eingegangen bei der Akademie den 10. december 1881. Halle, 1882.

27 p. VIII-IX col. pl. 32<sup>cm</sup>. (Nova acta der Ksl. Leop.-Carol.-deutschen akademie der naturforscher. bd. XLIV. nr. 2)

- Dickerson, Mary Cynthia.** Moths and butterflies, by Mary C. Dickinson . . . Boston, Ginn & company, 1901. 1—7156  
xviii, 344 p. incl. front., illus. 24<sup>cm</sup>.  
"Books for reference": p. 331-332.
- Dimmock, George.** George Dimmock's catalogue of Coleoptera & Lepidoptera. See under Coleoptera, p. 183.
- Edwards, Henry.** . . . Notes on the transformations of some species of Lepidoptera. By Henry Edwards and S. Lowell Elliott. Edited with additions, by William Beutenmüller. New York, 1892.  
75-80 p. 24<sup>cm</sup>.  
Author's edition, extracted from Bulletin of the American museum of natural history, vol. iv, no. 1, article x.
- Felder, Cajetan, freiherr von.** Lepidoptera, von Dr. Cajetan Felder . . . von Rudolf Felder . . . und Alois T. Rogenhofer . . . Atlas von 140 tafeln . . . Wien, Aus der Kaiserlich-königlichen hof- und staatsdruckerei, 1864-75. Agr 4—275  
2 p. l., 8 p., 1 l., 10, 20 p. cXL pl. 30<sup>cm</sup>. (*Added t.-p.*: Reise der österreichischen fregatte Novara um die erde in den jahren 1857, 1858, 1859 unter den befehlen des commodore B. von Wüllerstorff-Urbair. Zoologischer theil. 2. bd., 2. abth.: Lepidoptera von Dr. Cajetan Felder, Rudolf Felder und Alois F. Rogenhofer. Atlas . . . 1864-67)  
Plates cviii-cxl, each accompanied by leaf of descriptive text.\*
- Goeldi, Emil August.** . . . Grandiosas migrações de borboletas no valle amazonico . . . Pará, 1904.  
309-316 p. 2 pl (1 fold.) 23<sup>cm</sup>.  
Extracto do Boletim do Museu Goeldi, vol. iv, fasciculo 2-3.
- Gosse, Philip Henry.** . . . On the clasping-organs ancillary to generation in certain groups of the Lepidoptera. By Philip Henry Gosse . . . London, Printed for the Linnean society by Taylor and Francis, 1883. Agr 3—338  
cover-title, 265-345 p. 8 pl. 30<sup>cm</sup>. (The Transactions of the Linnean society of London. 2nd ser. Zoology. Vol. II. pt. 6.)
- Grote, Augustus Radcliffe.** Lepidopterological contributions. By Aug. R. Grote and Coleman T. Robinson . . . New York, 1866.  
37 p. 13-14 col. pl. 24<sup>cm</sup>.  
Reprinted from the Annals of the Lyceum of natural history of New York, vol. viii., October, 1866.
- Grote, Augustus Radcliffe.** . . . On the origin of insects and remarks on the antennal characters in the butterflies and moths . . . [Salem] 1874.  
110-112 p. 23<sup>cm</sup>.  
From the Proceedings of the American association for the advancement of science, Portland meeting, August, 1873, vol. xxii, pt. 2.
- Herrich-Schäffer, Gottlieb August Wilhelm.** Sammlung neuer oder wenig bekannter aussereuropäischer schmetterlinge. Hrsg. von Dr. Herrich-Schäffer . . . Regensburg, G. J. Manz, 1850-58 [69]  
bd. [1]-2, lief 1, in 1 v. 128 col. pl. 28<sup>cm</sup>.  
No more published?  
1869 is preface date of bd. 2, lief 1, which has no t.-p. date.
- Horsfield, Thomas.** A catalogue of the lepidopterous insects in the museum of the Hon. East-India company. By Thomas Horsfield . . . and Frederic Moore . . . London, W. H. Allen and co., 1857-59. Agr 4—238  
2 v. 36 pl. 23<sup>cm</sup>.
- Hübner, Jacob.** Sammlung exotischer schmetterlinge, errichtet von Jacob Hübner. 1806 . . . Augsburg, Im verlag der Hübner'schen werke bey C. Geyer [1806] Agr 3—787-8  
2 v. 438 col. pl. 24<sup>cm</sup>.  
Engr. t.-p.  
Hagen's Bibliotheca entomologica gives dates of publication as 1806-24.

**Hübner, Jacob.** *Zuträge zur Sammlung exotischer schmettlinge, bestehend in bekundigung einzelner fliegmuster neuer oder rarer nichteuropäischer gattungen von Jacob Hübner . . . Augsburg, Bey dem verfassers zu finden, 1818-37.* Agr 3-787-8

5 pts. 172 col. pl. 25½<sup>em</sup>.

Minor variations in titles of parts.

Erstes hundert; von Jacob Hübner. 1818.—Zweytes hundert; von Jacob Hübner. 1823.—Drittes hundert; von Jakob Hübner. 1825.—Viertes hundert; fortsetzung des Hübner'schen werkes, von Carl Geyer. 1832.—Fünftes hundert; fortsetzung des Hübner'schen werkes, von Carl Geyer. 1837.

Imprint of Viertes & Fünftes hundert: Augsburg, Im verlag der Hübner'schen werke, bei C. Geyer.

**Hübner, Jacob.** *Verzeichniss bekannter schmettlinge, verfasst van Jacob Hübner. Augsburg, Bey dem verfassers zu finden, 1816.* Agr 3-789-90

431, 72 p. 21<sup>em</sup>.

— *Anzeiger der im Verzeichnisse bekannter schmettlinge angenommenen benennungen ihrer horden, rotten, stämme, familien, vereine und gattungen.* [Nürnberg, 1826]

72 p. 21<sup>em</sup>.

Agr 3-789-90

Caption title.

154 ms. p. added.

Added ms. t.-p.: Index zu dem Verzeichniss bekannter schmettlinge von Jacob Hübner. Geschrieben von Jacob Sturm. Nürnberg, 1826.

**Insect changes.** *An illuminated present for youth: forming a first lesson in entomology.* London, Grant and Griffith, 1847. Agr 3-1138

[3]-32, [1] p. col. illus. 17<sup>em</sup>.

**Jackson, William Hatchett.** . . . *Studies in the morphology of the Lepidoptera.—Part 1, by W. Hatchett Jackson . . . London, Printed for the Linnean society by Taylor and Francis, 1890.* Agr 3-343

cover-title, 143-186 p. 5 pl. 31¼<sup>em</sup>. (The Transactions of the Linnean society of London, 2nd ser. Zoology. Vol. v, pt. 4)

Read 21st November, 1889.

**Jones, Edward Dukinfield.** *Metamorphoses of Lepidoptera from San Paulo, Brazil, in the Free public museum, Liverpool, by E. Dukinfield Jones . . . With nomenclature and descriptions of new forms by Frederic Moore . . . and an introductory note by T. J. Moore . . . [Liverpool, 1882]*

[23]-73 p. III-VI col. pl. 22<sup>em</sup>.

From the Proceedings of the Literary and philosophical society of Liverpool, v. 36, p. 325-77.

**Kellogg, Vernon Lyman.** *The taxonomic value of the scales of the Lepidoptera . . . [Lawrence] 1894.*

[45]-89 p., 2 l. illus., IX-X pl. 23¼<sup>em</sup>.

From Kansas university quarterly, vol. III, no. 1, July, 1894.

**Kholodkovskii, Nikolaus Alexandr.** *Sur les vaisseaux de Malpighi chez les lépidoptères . . . [Paris, 1884]*

2 p. 27<sup>em</sup>.

From Comptes rendus hebdomadaires de l'Académie des sciences, Paris. t. 98, p. 631-633.

**Knaggs, Henry Guard.** *The lepidopterist's guide, intended for the use of the young collector, containing full instructions for the collecting, management, observation, and preservation of Lepidoptera in all their stages. By H. Guard Knaggs . . . London, J. Van Voorst, 1869.* Agr 4-210

3 p. l., 122 p. 18<sup>em</sup>.

**Lelièvre, Ernest.** *Un mot au sujet de l'article de M. P. Chrétien intitulé: Étude sur les lépidoptères.* Paris, 1882.

1 p. 31¼<sup>em</sup>.

From Le naturaliste, v. 4, no. 19, Oct. 1, 1882.

**Lintner, Joseph Albert.** . . . *Entomological contributions. [no. I-IV] By J. A. Lintner . . . Albany, Weed, Parsons and co., printers, 1872-78.*

4 pts. illus., plates. 23<sup>em</sup>.

From 23d, 24th, 26th & 30th Annual reports of the New York state museum of natural history for the years 1869, 1870, 1872 & 1876.

**Lyonnet, Pierre.** *Traité anatomique de la chenille, qui ronge le bois de saule, augmenté d'une explication abrégée des planches, et d'une description de l'instrument et des outils dont l'auteur s'est servi, pour anatomiser à la loupe & au microscope, & pour déterminer la force de ses verres, suivant les règles de l'optique, & mécaniquement.* Par Pierre Lyonnet. La Haye, Au dépends de l'auteur; [etc., etc.] 1762. Agr 3—795

xxii p., 1 l., 616 p., 1 l. XVIII [i. e. XIX] pl. 26½<sup>em</sup>.

**Mayer, Alfred Goldsborough.** . . . The development of the wing scales and their pigment in butterflies and moths . . . Cambridge, Mass., 1896.

1 p. l. [207]—236 p., 7 l. 7 pl. 24½<sup>em</sup>. (Bulletin of the Museum of comparative zoology at Harvard college, vol. xxix, no. 5)

"Bibliography": p. 234—235.

**Mayer, Alfred Goldsborough.** . . . Effects of natural selection and race-tendency upon the color-patterns of Lepidoptera, by Alfred Goldsborough Meyer. With two plates. [New York, Pub. by the Macmillan company] printed by the Museum press, 1902. Agr 3—262

1 p. l., [31]—86 p. incl. xxx tab. (partly fold.) 11 pl. 26½<sup>em</sup>. (The Museum of the Brooklyn institute of arts and sciences. Science bulletin. v. 1, no. 2)

"Authors quoted": p. 61—63.

**Mayer, Alfred Goldsborough.** . . . On the color and color-patterns of moths and butterflies . . . Cambridge, Mass., 1897.

[167]—256 p., 10 l. 10 pl. (3 col.) 24½<sup>em</sup>. (Bulletin of the Museum of comparative zoology at Harvard college, vol. xxx, no. 4)

Bibliography: p. 249—254.

**Millière, Pierre.** *Iconographie et description de chenilles et lépidoptères inédits,* par P. Millière . . . Paris, F. Savy, 1859—69.

3 v. 154 col. pl. 29<sup>em</sup>.

Pub. in 35 livraisons.

**Neumoegen, Berthold.** *Guide to the collection of Lepidoptera of the world (butterflies and moths) Of B. Neumoegen, Esq. The first exhibition of the kind ever held in America.* Eden Musee, New York, April, 1888. New York, 1888.

32 p. illus. 22½<sup>em</sup>.

**Packard, Alpheus Spring.** . . . On gynandromorphism in the Lepidoptera. By A. S. Packard, jr., M. D. Read, February 17, 1875. [Boston, 1875]

409—412 p. pl. 30<sup>em</sup>.

From the Memoirs of the Boston society of natural history. vol. 2, part iv; number III, p. 409—412.

**Packard, Alpheus Spring.** . . . On the phylogeny of the Lepidoptera . . . [Leipzig] 1895.

8 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 477, 1895.

**Ratzeburg, Julius Theodor Christian.** *Zur charakteristik der frühern zustände und der verwandlung der lepidoptern, besonders der mikrolepidoptern, von J. T. C. Ratzeburg, M. d. A. d. N. Bei der Akademie eingegangen den 4. august 1839.* [Halle? 1842]

[391]—412 p. 30½<sup>em</sup>.

From Nova acta Acad. Caes. Leopold. Carol. deutschen akademie der naturforscher. vol. xix.

**Rebel, Hans.** . . . Dr. M. Standfuss' experimentelle zoologische studien mit lepidopteren . . . [Leipzig] 1898.

[504]—509 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," bd. XXI, no. 568 vom. 19. Sept. 1898.

**Romanoff, N. M., ed.** *Mémoires sur les lépidoptères, rédigés par N. M. Romanoff . . . St. Pétersbourg; Impr. de MM. Stassulévitch, 1884—1901.*

v. 1—9. plates (partly col.) maps. 28<sup>em</sup>.

CONTENTS.—tome I. 1. Romanoff, N. M. Les lépidoptères de la Transcaucasie. 1. partie.—2. Christoph, H. Lepidoptera aus dem Achal-TeKke-gebiete. 1. theil.—3. Staudinger, O. Beitrag zur kenntniss der lepidopteren-fauna des Achal-TeKke-gebiets.—4. Snellen, P. C. T. Un nouveau genre des pyralides.—5. Grumm-Grshimaïlo, Gr. Lepidopterologische mittheilungen. tome II. 1. Roma-

noff, N. M. Les lépidoptères de la Transcaucasie. 2. partie.—2. Christoph, H. Lepidoptera aus dem Achal-Tekke-gebiete. 2. theil.—3. Heylarts, F. J. M. Description d'un genre nouveau et d'une espèce nouvelle appartenant aux Cossina H. S.—4. Heylarts, F. J. M. Psychides nouvelles ou moins connues de l'Empire Russe.—5. Snellen, P. C. T. Description d'un nouveau genre de pyralides.—6. Christoph, H. Schmetterlinge aus Nord-Persien.—7. Erschoff N. Verzeichniss von schmetterlingen aus Central-Sibirien.—8. Grumm-Grshimailo, Gr. Bericht über meine reise in das Alai-gebiet (correspondenz) tome III. 1. Romanoff, N. M. Les lépidoptères de la Transcaucasie. 3. parte.—2. Christoph, H. Lepidoptera aus dem Achal-Tekke-gebiete. 3. theil.—3. Staudinger, O. Neue arten und varietäten von lepidopteren aus dem Amur-gebiete.—4. Fixsen, C. Lepidoptera aus Korea.—5. Grumm-Grshimailo, Gr. Bericht über meine reise in das östliche Buchara (correspondenz; mit 1 karte) Nebst anhang: Diagnosen einiger neuen species.—6. Alphéraky, S. Diagnoses de quelques lépidoptères inédits du Thibet. tome IV. Groum-Grshimailo, Gr. Le Pamir et sa faune lépidoptérologique. tome V. 1. Christoph, H. Lepidoptera aus dem Achal-Tekke-gebiete. 4. theil.—2. Alphéraky, S. Lépidoptères rapportés du Thibet par le Général N. M. Przewalsky de son voyage de 1884-1885.—3. Alphéraky, S. Lépidoptères rapportés de la Chine et de la Mongolie par G. N. Potanine.—4. Alphéraky, S. Le Pamir et sa faune lépidoptérologique. 2. partie (spéciale) iv. Noctuérites.—5. Christoph, H. Neue lepidopteren aus dem Kaukasas.—6. Alphéraky, S. Zur lepidopterenfauna von Teneriffa (mit einem vorwort von Dr. G. Sievers)—7. Alphéraky, S. Sur quelques lépidoptères de la Russie méridionale. tome VI. 1. Alphéraky, S. Lépidoptères rapportés de la Chine et de la Mongolie par G. N. Potanine (suite).—2. Staudinger, O. Die macrolepidopteren des Amurgebiets. I. theil. Rhopalocera, Sphingae, Bombyces, Noctuae.—3. Standfuss, M. Lepidoptero-logisches.—4. Erschoff, N. Verzeichniss von schmetterlingen aus Central-Sibirien. tome VII-VIII. Ragonot, E. L. Monographie des Phycitinae et des Gallericinae (tome VIII completed by Sir George Hampson)—tome IX. 1. Alphéraky, S. Lépidoptères rapportés par M-r. Gr. Groum-Grshimailo de l'Asie Centrale en 1889-1890.—2. Alphéraky, S. Lépidoptères des provinces chinoises Sé-Tchouen et Kham recueillis, en 1893, par M-r. G. N. Potanine.—3. Alphéraky, S. Lépidoptères de l'Amour et de la Corée.—4. Alphéraky, S. Mémoire sur différents lépidoptères, tant nouveaux que peu connus de la faune paléarctique.—5. Alphéraky, S. Sur quelques lépidoptères rapportés de l'Asie, en 1893-1895, par l'expédition de M-rs. Roborowsky et Kozlov.—6. Herz, O. Reise von Jakutsk nach Kamtschatka im jahre 1890.—7. Alphéraky, S. Lepidopteren aus Kamtschatka, gesammelt von O. Herz, bearbeitet von S. Alphéraky.

**Schilde, Johannes Gustav.** Schach dem Darwinismus! Studien eines lepidopterologen. Von Johannes Schilde. Hrsg. von dem Entomologischen verein in Berlin. Berlin, R. Friedländer & sohn, 1890.

4 p. 1., 360 p. 23½<sup>cm</sup>. (Added t.-p.: Berliner entomologische zeitschrift . . . 34. bd. . . )

**Staudinger, Otto.** Exotische schmetterlinge, von Dr. O. Staudinger und Dr. E. Schatz . . . Fürth, G. Löwensohn, 1888-92. Agr 3-368

2 pts. in 3 v. illus., 150 pl. (100 col.) 1 fold. map. 36½<sup>cm</sup>.

CONTENTS.—1. th. Exotische tagfalter in systematische reihenfolge mit berücksichtigung neuer arten von Dr. O. Staudinger unter technischer mitwirkung von Dr. H. Langhans. 1. bd. Beschreibungen. 2. bd. Abbildungen.—2. th. Die familien und gattungen der tagfalter systematisch und analytisch bearb. von Dr. E. Schatz, nach dem tode des verfassers fortgesetzt von J. Röber.

**Strecker, Herman i. e. Ferdinand Heinrich Herman.** Butterflies and moths in their connection with agriculture and horticulture. A paper prepared for the Pennsylvania fruit growers' society, January, 1879 . . . Harrisburg, 1879.

22 p. 24<sup>cm</sup>.

**Strecker, Herman i. e. Ferdinand Heinrich Herman.** Lepidoptera, rhopaloceres and heteroceres, indigenous and exotic; with descriptions and colored illustrations, by Herman Strecker . . . Reading, Pa., Owen's steam book and job printing office, 1872-77. Agr 4-230-1

143 p. 15 col. pl. 29½<sup>cm</sup>.

Issued in 15 nos.

— — — Supplement no. 1-3. By Herman Strecker. Reading, Pa., Printed for the author, 1898-1900. Agr 4-230-1

3 nos. 29½<sup>cm</sup>.

**Swinhoe, Charles.** . . . New species of oriental Lepidoptera . . . [London, 1899]

102-116 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. III, January, 1899.

**Targioni Tozzetti, Adolfo.** Sopra alcuni lepidotteri parassiti dell' uva, del grano turco, ecc., e sulla Helicopsyche ottenuta allo stato d' immagine. Lettera del Prof. Adolfo Targioni Tozzetti al Dott. G. Malfatti. [Milano, 1879]

7, [1] p. 24<sup>em</sup>.

Estratto dagli Atti della Società italiana di scienze naturali, vol. xxii.

**Tutt, James William.** Melanism and melanochroism in British Lepidoptera, by J. W. Tutt . . . London, S. Sonnenschein and co., 1891. Agr 4—234  
1 p. l., 66 p. illus. 22½<sup>em</sup>.

**Urech, Friedrich.** . . . Über eigenschaften der schuppenpigmente einiger lepidopterenspecies . . . [Leipzig? 1892]

8 p. 23<sup>em</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 398, 1892.

**Weir, J. Jenner.** Variations in the color of Lepidoptera [Greenwich, 1883]

40-48 p. 21<sup>em</sup>.

From [Report of the] West Kent natural history, microscopical and photographic society.

## FAUNA.

### UNITED STATES.

**Beutenmüller, William.** . . . Catalogue of Lepidoptera found within fifty miles of New York City, with their food-plants . . . [New York, 1890]

[199]-230 p. 24½<sup>em</sup>.

From the Annals of the New York academy of sciences. vol. v, March, 1890.

**Brooklyn entomological society.** Check list of the macro-lepidoptera of America, north of Mexico . . . Brooklyn, N. Y., Brooklyn entomological society, 1882. Agr 4—259

2 p. l., 25, iv p. 24<sup>em</sup>.

**Clemens, Brackenridge.** Contributions to American Lepidoptera . [Philadelphia] 1859-1860.

5 pts. 24½<sup>em</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, v. 11, p. 256-262, 317-328, v. 12, p. 4-16, 156-174, 203-232.

**Denton, Sherman F.** As nature shows them; moths and butterflies of the United States, east of the Rocky Mountains. With over 400 photographic illustrations in the text and many transfers of species from life, by Sherman F. Denton . Boston, B. Whidden, 1900. 47

2 v. illus., 56 pl. 25½<sup>em</sup>.

Originally issued in 8 sections, and published 1897-1900, Part I: The moths; part II: The butterflies. "A limited edition of 500 copies."

"The colored plates, or nature prints, used in the work, are direct transfers from the insects themselves . . . the scales of the wings of the insects are transferred to the paper while the bodies are printed from engravings and afterwards colored by hand."

**Dury, Charles.** . . . Catalogue of the Lepidoptera observed in the vicinity of Cincinnati, Ohio, including diurnals, Sphingidæ, Aegeriidæ, Zygaenidæ, Bombycidæ, Noctuidæ, Phalaenidæ, and Pyralidæ . . . [Cincinnati, 1881]

12 p. 23½<sup>em</sup>.

From the Journal of the Cincinnati society of natural history, v. 1, p. 12, 1881.

**Dyar, Harrison Gray.** A list of North American Lepidoptera and key to the literature of this order of insects. By Harrison G. Dyar . . . assisted by C. H. Fernald, PH. D., the late Rev. George D. Hulst, and August Busck. Washington, Gov't print. off., 1902.

xix, 723 p. 24<sup>em</sup>. (Added t. p.: Smithsonian institution. United States national museum. Bulletin . . . no. 52.)

"List of works quoted": p. ix-xix.

**Edwards, Henry.** Bibliographical catalogue of the described transformations of North American Lepidoptera. By Henry Edwards. Washington. Gov't print. off., 1889.

147 p. 23<sup>cm</sup>. (Added t.-p.: Smithsonian institution. United States national museum. Bulletin . . . no. 35).

**Edwards, Henry.** Pacific coast Lepidoptera. [San Francisco] 1873-78.

30 pts. 24 $\frac{1}{2}$ <sup>cm</sup>.

From the Proceedings of the California academy of science, July 7, 1873-July 15, 1878.

**Edwards, William Henry.** Catalogue of the Lepidoptera of America, north of Mexico . . . Philadelphia, American entomological society, 1877.

pt. 1. 25<sup>cm</sup>.

"Names of authors and works quoted and abbreviations used": pt. 1, p. 6-8.

From the Transactions of the American entomological society, vol. 6.

**Edwards, William Henry.** Descriptions of new species of North American Lepidoptera. [Washington] 1877.

115-119 p. 24<sup>cm</sup>.

From Field and forest, vol. III, January and February, 1877, nos. 7 & 8.

**Edwards, William Henry.** . . . On the Lepidoptera collected by Dr. Elliott Coues, U. S. A., in Montana, during 1874 . . . [Washington, 1878]

513-517 p. 22 $\frac{1}{2}$ <sup>cm</sup>.

From Bulletin of United States geol. and geog. survey of the territories, vol. IV, no. 2, 1878.

**Grote, Augustus Radcliffe.** . . . Notes on American Lepidoptera, with descriptions of twenty-one new species . . . [Buffalo, 1875]

145-163 p. 22 $\frac{1}{2}$ <sup>cm</sup>.

From the Bulletin of the Buffalo society of natural sciences, 1875, vol. 2.

**Grote, Augustus Radcliffe.** Notes on the Lepidoptera of America by Aug. R. Grote and Coleman R. [i. e. T.] Robinson . . . New York, 1867.

35 p. 2 col. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

Reprinted from the Annals of the Lyceum of natural history of New York, vol. VIII, April, 1867.

**Hoy, Philo Romayne** . . . I. A catalogue of Wisconsin Lepidoptera. II. A list of Noctuidæ of Wisconsin . . . [Madison, 1883]

[406]-421 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

From the Wisconsin geological survey, Geology of Wisconsin, v. 1, p. 406-421.

**Lintner, Joseph Albert.** . . . Lepidoptera of the Adirondack region . . . Albany, 1880.

[375]-400 p. 23<sup>cm</sup>.

From the Seventh annual report on the progress of the Topographical survey of the Adirondack region of New York.

**Morris, John Gottlieb.** . . . Catalogue of the described Lepidoptera of North America. Prepared for the Smithsonian institution. By John G. Morris. Washington, Smithsonian institution, 1860.

viii, 68 p. 21<sup>cm</sup>. (Smithsonian miscellaneous collections [v. 3])

"Authorities": p. [v]-vii.

**Morris, John Gottlieb.** . . . Synopsis of the described Lepidoptera of North America. Part I. Diurnal and crepuscular Lepidoptera. Comp. for the Smithsonian institution, by John G. Morris. Washington, Smithsonian institution, 1862.

xxvii, 358 p. illus. 23 $\frac{1}{2}$ <sup>cm</sup>. (Smithsonian miscellaneous collections [v. 4])

Agr 3-803

**Smith, Sir James Edward.** The natural history of the rarer lepidopterous insects of Georgia. Including their systematic characters, the particulars of their several metamorphoses, and the plants on which they feed. Collected from the observations of Mr. John Abbot, many years resident in that country, by James Edward Smith . . . London, Printed by T. Bensley, for J. E. Edwards [etc.] 1797.

Agr 4-3607

2 v. civ col. pl. 41<sup>cm</sup>.

Added t.-p. in French.

Text in English and French.



**Smith, John Bernhard.** List of the Lepidoptera of boreal America, by John B. Smith . . . assisted by Henry Skinner, M. D., Geo. D. Hulst, PH. D., C. H. Fernald, PH. D., C. V. Riley, PH. D. Philadelphia, American entomological society, 1891.

[v], [1], [7]-124 p. 24<sup>cm</sup>.

Agr 5—241

**Snow, Francis Huntington.** Catalogue of the Lepidoptera of eastern Kansas . . . [Topeka, 1875]

29-59 p. 22<sup>4</sup><sup>cm</sup>.

From Transactions of the Kansas academy of science, vol. iv.

Also published in Observer of nature, vol. 3, nos. 2-5; Nov. 23, 1875-March 15, 1876.

**Strecker, Herman, i. e. Ferdinand Heinrich Herman.** Butterflies and moths of North America, with full instructions for collecting, breeding, preparing, classifying, packing for shipment, etc., a complete synonymical catalogue of macrolepidoptera, with a full bibliography, to which is added a glossary of terms and an alphabetical and descriptive list of localities. By Herman Strecker . . . Diurnes . . . Reading, Pa., Press of B. F. Owen, 1878.

Ag 3—369

2 p. 1., ii, 283 p. 25<sup>cm</sup>.

"Bibliography": p. [209]-283.

**Strecker, Herman, i. e., Ferdinand Heinrich Herman.** Description of a new species of *Ægiale* and notes on some other species of North American Lepidoptera . . . [Philadelphia, 1876]

148-153 p. 23<sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1876.

**Strecker, Herman, i. e. Ferdinand Heinrich Herman.** . . . Lepidoptera . . . [Washington, 1878]

1847-1867, [1] p., 1 l. ii col. pl. 22<sup>cm</sup>.

From Annual report of Lieut. E. H. Ruffner . . . Explorations and surveys in the Department of the Missouri, being App. SS of the Report of the chief of engineers, U. S. War department, for 1878.

**Van Duzee, Edward P.** List of the macro-lepidoptera of Buffalo and vicinity . . . Buffalo, 1891.

[105]-166 p. 23<sup>4</sup><sup>cm</sup>.

From the Bulletin of the Buffalo society of natural sciences, vol. v, no. III.

#### FOREIGN.

**Abafi Aigner, Lajos.** A lepkészet története magyarországon. Irta Abafi Aigner Lajos. Budapest, Kiadja a Kir. magyar természettudományi társulat, 1893.

vi p., 1 l., 202, [1] p. 23<sup>4</sup><sup>cm</sup>.

"I. Függetlék. Külföldi lepkészeti irodalom": p. 127-174.

"II. Függetlék. Magyarországi lepkészeti irodalom": p. 175-194.

**Aurivillius, Per Olof Christopher.** . . . Diagnosen neuer lepidopteren aus dem Congo-gebiete . . . Stockholm, 1896.

431-436 p. 21<sup>4</sup><sup>cm</sup>.

Öfversigt af Kongl. vetenskaps-akademiens Förhandlingar 1896, N:o 6.

**Aurivillius, Per Olof Christopher.** . . . Förteckning öfver en samling Coleoptera och Lepidoptera från Kongoflodens område, skänkt till Riksmuseum af Löjtnant M. Juhlin-Dannfelt . . . Stockholm, 1887.

305-314 p. 21<sup>4</sup><sup>cm</sup>.

Öfversigt of Kongl. vetenskaps-akademiens Förhandlingar 1887, N:o 5.

**Aurivillius, Per Olof Christopher.** . . . Grönlands insektfauna. I. Lepidoptera, Hymenoptera . . . Stockholm, 1890.

33, [1] p. illus., 3 pl. 21<sup>4</sup><sup>cm</sup>.

Bihang till K. Svenska vet.-akad. Handlingar. Bd. 15, Afd. iv, N:o 1.

**Aurivillius, Per Olof Christopher.** Lepidoptera, insamlade i nordligaste Asien under Vega-expeditionen . . . Stockholm, 1885.

[75]-80 p. 1 col. pl. 24<sup>4</sup><sup>cm</sup>.

Ur "Vega-expeditionens vetenskapliga iakttagelser." Bd. iv, Stockholm, 1885.

**Aurivillius, Per Olof Christopher.** . . Lepidoptera och Coleoptera insamlade under professor A. G. Nathorst's arktiska expeditioner 1898 och 1899, under den svenska expeditionen till Beeren Eiland 1899 och under konservator G. Kolthoff's expedition till Grönland 1900 . . . Stockholm, 1900.

1135-1144 p. 21½<sup>cm</sup>.

Öfversigt af Kongl. vetenskaps-akademiens Förhandlingar 1900. N:o 10.

**Aurivillius, Per Olof Christopher.** Lepidoptera of the Swedish zoological expedition to Egypt and the White Nile . . . [Upsala, 1903]

9 p. illus. 24<sup>cm</sup>. (On cover: Results of the Swedish zoological expedition to Egypt and the White Nile, 1901, under the direction of L. A. Jägerskiöld. No. 8)

**Aurivillius, Per Olof Christopher.** . . . Verzeichniss einer von den Herren missionären E. Laman und W. Sjöholm bei Mukinbungu am unteren Congo zusammengebrachten schmetterlingssammlung . . . Stockholm, 1900.

1039-1058 p. 21<sup>cm</sup>.

Öfversigt af Kongl. vetenskaps-akademiens Förhandlingar, 1900. n:o 9.

**Berg, Cárlos.** . . . Observaciones sobre lepidópteros argentinos y otros sud-americanos . . . Buenos Aires, 1899.

[369]-390 p. 26½<sup>cm</sup>.

From Anales del Museo nacional de Buenos Aires. Tomo vi, p. 369 á 390.

**Berg, Cárlos.** . . Sobre algunas larvas de lepidópteros argentinos . . . Buenos Aires, 1900.

[206]-208 p. 24½<sup>cm</sup>.

Comunicaciones del Museo nacional de Buenos Aires. T. I, N° 6, p. 206 á 208. 23 de mayo de 1900.

**Bergsträsser, Johann Andreas Benignus.** Naturgeschichte der europäischen schmetterlinge . . . für liebhaber welche die nomenclatur der hanauischen insecten nicht besitzen besonders hrsg. von Joh. Andr. Benignus Bergsträsser . . . Hanau, Im verlage des verfassers, 1779-80.

Agr 4-3456

3 pts. in 1 v. 82 col. pl. 24<sup>cm</sup>.

Pl. 12 wanting.

Forms jahrg. II-IV of his Nomenclatur und beschreibung der insecten in der grafenschaft Hanau-Münzenberg . . . 1778-80.

**Boisduval, Jean Alphonse.** Considérations sur des lépidoptères envoyés du Guatemala à M. de l'Orza par le D<sup>r</sup> Boisduval. Rennes, 1870.

1 p. l., 100 p. 25<sup>cm</sup>.

**Boisduval, Jean Alphonse.** Europæorum lepidopterorum index methodicus; auctore J. A. Boisduval . . . Pars prima, sistens genera Papilio, Sphinx, Bombyx et Noctua Lin. Parisiis, apud Méquignon-Marvis; [etc., etc.] 1829.

103 p. 20<sup>cm</sup>.

**Boisduval, Jean Alphonse.** Faune entomologique de Madagascar, Bourbon et Maurice. Lépidoptères. Par le docteur Boisduval . . . Avec des notes sur les mœurs par M. Sganzin . . . Paris, Roret, 1835.

Agr 4-3411

2 p. l., 122 p. 16 col. pl. 27<sup>cm</sup>.

**Boisduval, Jean Alphonse.** Genera et index methodicus europæorum lepidopterorum, a doctore J. A. Boisduval . . . Parisiis, Roret, 1840.

Agr 4-3398

viii, [1] p., 1 l., 238 p. 23½<sup>cm</sup>.

**Boisduval, Jean Alphonse.** Histoire générale et iconographie des lépidoptères et des chenilles de l'Amérique septentrionale, par le docteur Boisduval . . . et M. John Leconte . . . Tome 1. Paris, Roret, 1833.

2 p. l., 228 p. 78 col. pl. 23<sup>cm</sup>.

A second t.-p. preceding plates reads as above except that it gives no volume number.

**Boisduval, Jean Alphonse.** Icones historique des lépidoptères nouveaux ou peu connus. Collection, avec figures coloriées, des papillons d'Europe nouvellement découverts; ouvrage formant le complément de tous les auteurs iconographes; par le docteur Boisduval . . . Paris, Roret, 1832-34.

Agr 4-3401

2 v. in 1. 84 col. pl. 23½<sup>cm</sup>.

Issued in 42 pts., 1832-41.

**British Lepidoptera.** Omitting Tineæ except Epigraphidæ and Psychidæ (the arrangement and nomenclature as adopted by Doubleday from Guenée) . . . York, 1860.

[4] p. 22<sup>cm</sup>.

**Burmeister, Hermann Carl Conrad.** Description physique de la république Argentine d'après des observations personnelles et étrangères, par le D<sup>r</sup> H. Burmeister . . . Tome cinquième, Lépidoptères; première partie contenant les diurnes, crépusculaires et bombycoïdes. Avec un atlas de xxiv planches in-4°. Buéno-Ayres, Imprimerie de P.-E. Coni, [etc., etc.] 1878.

vi, 524, [2] p. 24<sup>cm</sup>.

**Carpenter, George Herbert.** . . . A collection of Lepidoptera from Lokoja, West Africa . . . [Dublin] 1895.

304-310 p. illus. 21½<sup>cm</sup>.

From Scientific proceedings of the Royal Dublin society, vol. VIII (n. s.), part IV, no. 89.

**Carpenter, George Herbert.** Reports on the zoological collections made in Torres Straits by Prof. A. C. Haddon, 1888-1889. Lepidoptera from Murray Island. By G. H. Carpenter . . . [Dublin, 1891]

4 p. 21½<sup>cm</sup>.

From the Scientific proceedings of the Royal Dublin society, vol. VII, part I.

**Christ, H.** Nachtrag zu der Uebersicht der um Basel gefundenen tagfalter und Sphinges L. . . . [Basel, 1886]

[127]-132 p. 21<sup>cm</sup>.

From Verhandlungen der Naturforschenden gesellschaft in Basel, v. 8. Uebersicht appeared in v. 6, 1877, p. 363-388 of same publication.

**Christoph, Hugo Theodor.** Die lepidopteren des Acha-Tekke-gebietes . . . [Brünn, 1889]

36 p. 24½<sup>cm</sup>.

From Verhandlungen d. Naturf. vereins in Brünn. xxvii. bd. 1889.

**Druce, Herbert.** . . . Descriptions of new species of Lepidoptera, chiefly from Central America . . . [London] 1888-1890.

pt. [1-3] 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 6, vol. VII, p. [234]-242, September 1888; vol. VIII, p. [77]-94, July 1889; vol. IX, p. [213]-218, March 1890.

**Druce, Herbert.** . . . Descriptions of some new species of Lepidoptera from East Africa and tropical America . . . [London] 1901.

[432]-444 p. 21½<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. VII, May 1901.

**Druce, Herbert.** . . . Descriptions of some new species of Lepidoptera from South America and one from North Australia . . . [London] 1903.

[220]-222 p. 21½<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. XII, August 1903.

**Druce, Herbert.** A list of the lepidopterous insects collected by Mr. L. Layard at Chentaboon and Nahconchaisee, Siam, with descriptions of new species . . . [London] 1874.

[102]-109 p. 1 col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 20, 1874.

**Duponchel, Philogène Auguste Joseph.** Catalogue méthodique des lépidoptères d'Europe distribués en familles, tribus et genres, avec l'exposé des caractères sur lesquels ces divisions sont fondées, et l'indication des lieux et des époques où l'on trouve chaque espèce, pour servir de complément et de rectification à l'histoire naturelle des lépidoptères de France, devenue celle des lépidoptères d'Europe par les suppléments qu'on y a ajoutés, par M. P. A. J. Duponchel . . . Paris, Méquignon-Marvis fils, 1844.

xxx p., 1 l., 523 p. 20½<sup>cm</sup>.

- Durrant, John Hartley.** Contributions to the knowledge of the entomological fauna of Hertfordshire. No. 1.—Lepidoptera . . . [London] 1888.  
[63]—75 p. 21½<sup>em</sup>.  
From the Transactions of the Hertfordshire natural history society, vol. v, pt. 3, December, 1888.
- Durrant, John Hartley.** List of Lepidoptera observed in the neighborhood of Hitchin and at Knebworth, Herts . . . [London] 1885.  
[261]—266 p. 21½<sup>em</sup>.  
From the Transactions of the Hertfordshire natural history society, vol. III, pt. 7, December, 1885.
- Dyar, Harrison Gray.** The Lepidoptera of the Kootenai district of British Columbia . . . Washington, 1904.  
779—938 p. 25<sup>em</sup>.  
From the Proceedings of the United States national museum, vol. xxvii, p. 779—938 <No. 1376>
- Eastlake, F. Warrington.** . . . Entomologia hongkongensis. Report on the Lepidoptera of Hongkong . . . [Philadelphia] 1885.  
81—88 p. 22½<sup>em</sup>.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1886.
- Fischer, J. E., edler von Röslerstamm.** Abbildungen zur berichtigung und ergänzung der schmetterlingkunde, besonders der microlepidopterologie als supplement zu Treitschkés und Hübner's Europaischen schmetterlingen, mit erläuterndem text. Hrg. von J. E. Fischer, edlen von Röslerstamm . . . Leipzig, In der J. C. Hinrich'schen buchhandlung; Nixdorf in Böhmen, Bei dem verfasser, 1834. Agr 4—3534  
1 p. l., v, [6]—304, [4] p. 100 col. pl. 27<sup>em</sup>.
- Foetterle, José G.** Descrição de lepidopteros do Brazil . . . [São Paulo, 1901]  
[618]—652 p. xv—xviii col. pl. 24<sup>em</sup>.  
From Revista do Museu Paulista, vol. v, 1901.
- Frey, Heinrich.** Die lepidopteren der Schweiz. Von Professor Dr. Heinrich Frey. Leipzig, W. Engelmann, 1880.  
xxvi, 454 p. 24<sup>em</sup>.  
"Literatur-verzeichniss mit den abkürzungen": p. [vii]—viii.
- Godman, Frederick Du Cane.** Catalogue of Lepidoptera collected by Mr. S. N. Walter in the island of Billiton. Rhopalocera by F. D. Godman and Osbert Salvin; Heterocera by H. Druce. [London] 1878.  
637—643 p. 1 col. pl. 22<sup>em</sup>.  
From the Proceedings of the Zoological society of London, June 4, 1878.
- Godman, Frederick Du Cane.** . . . On the Lepidoptera collected by the late W. A. Forbes on the banks of the lower Niger. Rhopalocera by F. D. Godman and O. Salvin. Heterocera by H. Druce. [London] 1884.  
219—229 p. 1 col. pl. 22½<sup>em</sup>.  
From the Proceedings of the Zoological society of London, April 1, 1884.
- Gordon, W. J.** Our country's butterflies & moths and how to know them. A guide to the Lepidoptera of Great Britain. By W. J. Gordon . . . With a thousand examples in colour by H. Lynn. And many original diagrams. London, Day & son [etc.] [1896]  
Agr 3—336  
vii, [1], 150 p. col. front., illus., 32 col. pl. 19½<sup>em</sup>.
- Haworth, Adrian Hardy.** Prodromus lepidopterorum britannicorum. A concise catalogue of British lepidopterous insects, with times and places of appearance in the winged state. By a fellow of the Linnæan society . . . London, Printed by J. Parslee, for T. Hurst, 1802.  
Agr 4—3550  
1 p. l., vi p., 1 l., 39, 6 p. 19½<sup>em</sup>.
- Heinemann, H. von.** Die schmetterlinge Deutschlands und der Schweiz, systematisch bearb. von H. von Heinemann. Nebst analytischen tabellen zum bestimmen der schmetterlinge. Zweite abtheilung. Kleinschmetterlinge. Braunschweig, In commission bei C. A. Schwetschke und sohn (M. Bruhn), 1863—77.  
2 v. 22½<sup>em</sup>.
- CONTENTS.—bd. I, hft. I. Die wickler. 1863.—bd. I, hft. II. Die zünsler. 1865.—bd. II, hft. I. Die motten und federmotten. 1870.—bd. II, hft. II. Die motten und federmotten, von H. v. Heinemann und Dr. M. F. Wecke. 1877.

**Herrich-Schäffer, Gottlieb August Wilhelm.** Systematische bearbeitung der schmetterlinge von Europa, zugleich als text, revision und supplement zu Jakob Hübner's sammlung europäischer schmetterlinge, von Dr. G. A. W. Herrich-Schäffer . . . Regensburg, In commission bei G. J. Manz, 1843-56.

6 v. in 2. 672 pl. (636 col.) 28<sup>cm</sup>.

Incomplete, 250 plates wanting.

**Hewitson, William Chapman.** Descriptions of new Indian lepidopterous insects from the collection of the late Mr. W. S. Atkinson . . . Calcutta, Pub. by the Asiatic society of Bengal, 1879-82.

pt. 1-2. 4 col. pl. 32<sup>cm</sup>.

CONTENTS.—pt. 1. Rhopalocera, by William C. Hewitson. Heterocera (Sphingidæ-Hepialidæ), by Frederic Moore . . . With an introductory notice, by Arthur Grote.—pt. 2. Heterocera (continued) (Cymatophoridaæ-Herminiidæ), by Frederic Moore.

**Hofmann, Ernst.** Die gross-schmetterlinge Europas . . . Von professor Ernst Hofmann . . . 2. aufl. Stuttgart, Verlag der C. Hoffmann'schen verlagsbuchhandlung (A. Bleil) 1894.

Agr 5—522

1 p. l., xxxi, 240 p. illus., 71 col. pl. 29½<sup>cm</sup>.

"Verzeichniss der autoren": p. [239]-240.

**Holland, William Jacob.** . . . List of the Lepidoptera collected in East Africa, 1894, by Mr. William Astor Chanler and Lieutenant Ludwig von Höhnel . . . Washington, 1896.

741-767 p. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xviii <No. 1098>

**Holland, William Jacob.** . . . 1. List of the Lepidoptera collected in eastern Africa by Dr. W. L. Abbott, with descriptions of some apparently new species. 2. List of the Lepidoptera collected in Somaliland, East Africa, by Mr. William Astor Chanler and Lieut. von Höhnel. 3. List of the Lepidoptera from Aldabra, Seychelles, and other East African islands, collected by Dr. W. L. Abbott. 4. List of the Lepidoptera collected in Kashmir by Dr. W. L. Abbott . . . Washington, 1895.

229-279 p. vii-viii pl. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xviii, p. 229-279 <Nos. 1062, 1063, 1064, 1065>

**Hübner, Jacob.** Systematisch-alphabetisches verzeichniss aller bisher bey den für bildungen zur sammlung europäischer schmetterlinge angegebenen gattungsbenennungen, mit vormerkung auch augsburgischer gattungen; von Jacob Hübner. 1822. Augsburg, Bey dem verfassers zu finden [1822]

Agr 3—342

vi, 81 p. 21<sup>cm</sup>.

**Kappel, August Wilhelm.** British and European butterflies and moths (Macrolpidoptera) By A. W. Kappel . . . and W. Egmont Kirby . . . With thirty coloured plates by H. Deuchert and S. Slocombe. London, E. Nister; New York, E. P. Dutton & co., [1895]

xvi, 273 p. xxx col. pl. 29½<sup>cm</sup>.

**Kirby, William Forsell.** The butterflies and moths of Africa . . . Being a paper read before the Victoria institute . . . [London, 1889-90]

12 p. 21½<sup>cm</sup>.

"Remarks on the foregoing paper. By the Rev. F. A. Walker", p. 9-12.

Author's copy, from the Journal of transactions of the Victoria institute, v. 23.

**Kirby, William Forsell.** The butterflies and moths of Europe . . . London, Paris, New York and Melbourne, 1903.

5—1894

lxxii, 432 p. illus., pl., 54 col. pl. (incl. front). 27½<sup>cm</sup>.

Each pl. has guard-sheet with descriptive letter-press.

**Kirby, William Forsell.** European butterflies and moths . . . Based upon Berge's "Schmetterlingsbuch". By W. F. Kirby . . . London, Petter, Galpin & co., 1882.

Agr 4—290

xvi, lvi, 427 p. 62 pl. (61 col.) 23<sup>cm</sup>.

Plates bound separately.

**Kirby, William Forsell.** Familiar butterflies and moths, by W. F. Kirby . . . London, New York [etc.] Cassell and company, limited, 1901.

[iii]-viii, 144 p. illus., xviii col. pl. incl. front. 24 $\frac{1}{2}$ cm.

Each plate accompanied by leaf of explanatory text.

**Kirby, William Forsell.** . . . On the collection of Lepidoptera formed by Basil Thomson, Esq., in the Louisiade archipelago . . . [London] 1889.

[156]-167 p. 21 $\frac{1}{2}$ cm.

From the Annals and magazine of natural history for August 1889.

**List of British Lepidoptera.** [London, 18—]

12 p. 19cm.

**Lucas, Hippolyte i. e. Pierre Hippolyte.** Histoire naturelle des lépidoptères d'Europe, par H. Lucas . . . [Ed. 2] Paris, L. de Bure, 1845. Agr 3—345

2 p. l., viii, 216 p. 79 (i. e. 81) pl. (partly col.) 24 $\frac{1}{2}$ cm. ([Bibliothèque zoologique])

Has, preceding plates, engr. and decorated half t.-p.

**Mabille, Paul.** Lépidotères, par M. P. Mabille. [Paris, 1888] Agr 3—1257  
35 p. III col. pl. 28cm. ([Ministères de la marine et de l'instruction publique. Mission scientifique du Cap Horn. 1882-1883. Tome vi. Zoologie. Insectes])

**Martin, Joanny.** Les lépidoptères d'Europe; introduction à l'étude des papillons suivie de tableaux de détermination des familles, des tribus, des genres, et de la plupart des espèces européennes, par Joanny Martin . . . Paris, Schleicher frères & cie [n. d.] Agr 5—688

2 p. l., vi, 801 p. illus., LIV col. pl. 13 $\frac{1}{2}$  x 17 $\frac{1}{2}$ cm.

**Meyrick, Edward.** A handbook of British Lepidoptera, by Edward Meyrick . . . London and New York, Macmillan and co., 1895.

vi p., 1 l., 843, [1]p. illus. 20cm.

**Moore, Frederic.** The Lepidoptera of Ceylon. By F. Moore . . . (Pub. under the special patronage of the government of Ceylon.) London, L. Reeves & co., 1880-87.

3 v. 215 col. pl. 30cm.

**Moore, Frederic.** List of the Lepidoptera collected by the Rev. J. H. Hocking, chiefly in the Kangra district, N. W. Himalaya; with descriptions of new genera and species . . .

Pt. I. XI-XII col. pl. 21 $\frac{1}{2}$ cm.

From the Proceedings of the Zoological society of London, February 21, 1882, p. 234-263.

**Moore, Frederic.** Scientific results of the second Yarkand mission; based upon the collections and notes of the late Ferdinand Stoliczka, Ph. D. Lepidoptera, by Frederic Moore . . . Published by order of the government of India. Calcutta, Office of the Superintendent of government printing, 1879. Agr 3—349

1 p. l., 18 p. I col. pl. 31cm.

**Morris, Francis Orpen.** A history of British butterflies. By the Rev. F. O. Morris . . . 5th ed . . . London, G. Bell & sons, 1870. Agr 4—218

viii, 159, 24 p. 74 pl. (72 col.) 26cm.

"Aphorismata entomologica": 24 p.

**Möschler, Heinrich Benno.** Beiträge zur schmetterlings-fauna von Jamaica . . . Frankfurt a. M., 1886.

cover-title, [25]-84, [3] p. 1 col. pl. 29 $\frac{1}{2}$ cm.

Separatabdruck aus den Abhandlungen der Senckenbergischen naturforschenden gesellschaft. bd. xiv.

**Möschler, Heinrich Benno.** Die lepidopteren-fauna der inel Portorico. Von H. B. Möschler. Zum druck vorbereitet durch M. Saalmüller . . . [Frankfurt a. M., 1889] Agr 4—292

[69]-360 p., 1 l. front. (port.) col. pl. 29 $\frac{1}{2}$ cm.

From Abhandlungen der Senckenbergischen naturforschenden gesellschaft. bd. xvi.

[Naturforscher-gesellschaft bei der Universität Jurjew (Dorpat)] Lepidoptera baltica. Schmetterlings-verzeichniss der Ostseeprovinzen nach dem catalog Staudinger-Rebel. [Jurjew (Dorpat) Druck von C. Mattiesen] 1902. Agr 3—196 xi, [4], 79 p. 25<sup>cm</sup>. (Archiv für die naturkunde Liv-, Ehst- und Kurlands. 2. ser., bd. XII, lfg. 1)

Ochsenheimer, Ferdinand. Die schmetterlinge von Europa. Von Ferdinand Ochsenheimer Leipzig, Bey G. Fleischer dem jüngern, 1807—35. Agr 3—804 10 v. in 8. 21<sup>cm</sup>.

bd. 5—10, by Friedrich Treitschke.

bd. 8—10 pub. by E. Fleischer.

"Verzeichniss der entomologischen schriftsteller, welche bey den faltren verglichen und angeführt sind": 1. bd., 1. abth., p [3]—8.

"Verzeichniss der benutzten neueren entomologischen schriften" 10. bd., 1. abth. der supplemente, p. [xiii]—xvi.

CONTENTS.—1. bd., 1. abth. Falter, oder tagschmetterlinge. 1807. 2. abth. Falter, oder tagschmetterlinge. 1808.—2. bd. Schwärmer, oder abendschmetterlinge. (Sphinxes Linn. Zigæna, Sesia et Sphinxes Fabr.) 1808.—3. bd. Nachtschmetterlinge. (Bombyx et Noctua Linn. Bombyx, Cossus, Hepialus, Phycis, Lithosia Fabr.) 1810.—4. bd. Nachtrag zu den drey ersten bänden der schmetterlinge von Europa. 1816.—5. bd., 1. abth. Nachtschmetterlinge. G. Acronycta-Miselia. 1825. 2. abth. G. Polia-Cerastis. 1825.—6. bd., 1. abth. Spanner. G. Ennomos-Cabera. 1827. 2. abth. G. Acidalia-Idæa. 1828.—7. bd. Zünsler. G. Herminia-Ennychia. 1829.—8. bd. Wickler. G. Haliastur-Cochylis. 1830.—9. bd., 1. abth. Schaben. G. Scardia-Hamilis. 1832. 2. abth. Schaben. Geistchen. G. Hypsolopha-Orneodes. 1833.—10. bd., 1. abth. der supplemente. G. Melitea-Eyprepia. 1834. 2. abth. der supplemente. G. Acronycta-Idæa. 1835. 3. abth. der supplemente. G. Herminia-Orneodes. 1835.

Olliff, Arthur Sidney. . . . Short life-histories of nine Australian Lepidoptera . . . [London] 1888.

[357]—362 p. 1 pl. 22<sup>cm</sup>.

From the Annals and magazine of natural history for May 1888. ser. 6. vol. 1, p. 357—362.

Packard, Alpheus Spring. List of insects collected at Pebas, Equador, and presented by Prof. James Orton . . . [Salem, 1871]

87—87 p. 23<sup>cm</sup>.

From the 2d and 3d Annual reports of the trustees of the Peabody academy of science for the years 1869—1870.

Packard, Alpheus Spring. View of the lepidopterous fauna of Labrador . . . [Boston, 1867]

32 6; p. 24<sup>cm</sup>.

From Proceedings of the Boston society of natural history, vol. xi, p. 32—63.

Pagenstecher, Arnold. Die arktische lepidopteren-fauna. Bearb. von Dr. Arnold Pagenstecher in Wiesbaden. [Jena, G. Fischer, 1901] Agr 3—807

1 p. l., [199]—400 p. 86<sup>cm</sup>. (Fauna arctica . . . hrsg. von Dr. Fritz Römer und Dr. Fritz Schaudinn. 2. bd. 2. lief.)

Ausgegeben mitte februar 1902.

Porchinskiĭ, Iosif Aloizievich. . . . Lepidopterorum Rossiaë biologia. Auctore I. Portchinsky . . . C.-Петербургъ, 1885—93.

pt. 1—4. illus., col. plates. 28—26<sup>cm</sup>.

Russian title: Гусеницы и бабочки C.-Петербургской губернии. Биологическія наблюденія и изслѣдованія, I. Порчинскаго.

Pt. I has t.-p. wholly in Russian. Latin title appears as caption title.

CONTENTS.—Pt. I. Drepanulidæ, Cymatophoridæ, Noctuaë (partim) 1885.—Pt. II—IV. Coloration marquante et taches ocellés, leur origine et leur développement. 1890—93.

Fraun, Sigmund von. Abbildung und beschreibung europäischer schmetterlinge in systematischer reihenfolge, von Sigmund von Fraun. Nürnberg, Bauer & Raspe (E. Küster) [1868] Agr 3—808

2 p. l., [84] p. 40 (i. e. 41) pl. (40 col.) 28<sup>cm</sup>.

Added t.-p.: Die europäischen eulen—Noctuaë—in systematischer reihenfolge, hrsg. von Sigmund von Fraun. Nürnberg, Bauer & Raspe (L. Korn) 1868.

**Rambur, J. Pierre.** Catalogue systématique des lépidoptères de l'Andalousie, par P. Rambur . . . [pt. 1] Paris, J.-B. Baillière; New York, H. Baillière, [etc., etc.] 1858-[66]

2 p. l., 412, ix, [2] p. xxii col. pl. 25 $\frac{1}{2}$ cm.

No more published.

**Rebel, Hans.** . . . Beitrag zur microlepidopterenfauna des Canarischen Archipels. Wien, 1892.

[241]-284 p. pl. 28cm.

From Annalen des K. K. Naturhistorischen hofmuseums. Bd. VII, hft. 3.

**Rebel, Hans.** Beiträge zur microlepidopterenfauna Oesterreich-Ungarns . . . [Wien] 1889.

34 p. 1 pl. 22 $\frac{1}{2}$ cm.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1889> besonders abgedruckt.

**Rebel, Hans.** Studien über die lepidopterenfauna der Balkanländer. Von Dr. H. Rebel . . . [Wien, A. Hölder, 1903]

pt. 1. col. pl. 28cm.

Caption title.

"Separat-abdruck aus dem XVIII. bande der Annalen des K. K. Naturhistorischen hofmuseums [p. 123-347]"

CONTENTS.—1 t. Bulgarien und Ostrumelien,

**Reizenstein, L. von.** Catalogue of the Lepidoptera of New Orleans and its vicinity . . . Printed for R. C. Kerr, librarian of the New Orleans academy of sciences. New Orleans, Printed by I. T. Hinton, 1863.

10 p. 13 $\frac{1}{2}$ cm.

**Reuter, Enzo.** Bidrag till kannedomen om macro-lepidopter-faunan i Ålands och Åbo skärgårdar, af Enzo Reuter. [Helsingfors, Finska litteratur-sällskapetets tryckeri, 1890]

Agr 4—3594

1 p. l., 111 p. 25 $\frac{1}{2}$ cm. (Länsi-Suomi. Västra Finland. v)

**Reuter, Enzo.** . . . Förteckning öfver macrolepidoptera funna i Finland efter år 1869. Af Enzo Reuter . . . Helsingfors, J. Simelii arfvingars boktryckeri aktiebolag, 1893.

Agr 4—3596

85 p. 22cm. (Acta Societatis pro fauna et flora fennica, IX, n:o 6)

**Reuter, Enzo.** . . . Nykomlingar för Ålands och Åbo skärgårdars macrolepidopter-fauna . . . Helsingfors, 1890.

[29]-47 p. 23cm.

From Meddel. af Societas pro fauna et flora fennica. 17, 1891.

**Schøyen, Wilhelm Maribo.** Fortegnelse over Norges Lepidoptera . . . Christiania, 1893.

54 p. double map. 23 $\frac{1}{2}$ cm. (Christiania videnskabs-selskabs Forhandlinger, 1893. no. 13)

**Schøyen, Wilhelm Maribo.** Oversigt over de i Norges arktiske region hidtil fundne Lepidoptera . . . [Kristiania, 1880]

[119]-228 p. col. pl. 23cm.

Separataftryk af Archiv for matematik og naturvidenskab. v. bind.

**Scott, Alexander Walker.** . . . Australian Lepidoptera and their transformations, drawn from the life by Harriet and Helena Scott; with descriptions, general and systematic, by A. W. Scott . . . London, J. Van Voorst, 1864-98.

2 v. 21 col. pl. 44cm.

t.-p. of v. 2: Australian museum, Sydney. Australian Lepidoptera and their transformations, by the late Alexander Walker Scott; with illustrations drawn from the life by his daughters, Harriet Morgan and Helena Forde. Vol. II. Ed. and rev. by Helena Forde and Arthur Sidney Olliff. Sydney, Printed by order of the trustees, 1890-1898.

Above t.-p. of v. 2 takes the place of the t.-p. first pub. with v. 2, pt. 1.

Vol. I pub. in 3 pts.

Vol. II pub. in 5 pts.



**Selys-Longchamps, Michel Edmond, baron de.** Catalogue des lépidoptères ou papillons de la Belgique, précédé du tableau des libellulines de ce pays, par Edm. de Selys-Longchamps . . . Liège, J. Desoer, 1837. Agr 4—226  
2 p. l., 23 p., 1 l. 22½<sup>cm</sup>.

**Selys-Longchamps, Michel Edmond, baron de.** Énumération des insectes lépidoptères de la Belgique par Edm. de Selys-Longchamps . . . Liège, H. Dessain, 1844. Agr 5—227  
1 p. l., 85 p. 22½<sup>cm</sup>.  
Extrait du tome 2 des Mémoires de la Société royale des sciences de Liège.

**Smith, John Bernhard.** Check list of the Lepidoptera of boreal America, by John B. Smith . . . assisted by Henry Skinner, M. D., and W. D. Kearfott. Philadelphia, American entomological society, 1903. Agr 5—240  
v, 136 p. 23<sup>cm</sup>.

**Speyer, Adolf.** Die geographische verbreitung der schmetterlinge Deutschlands und der Schweiz. Nebst untersuchungen über die geographischen verhältnisse der lepidopterenfauna dieser länder überhaupt. Von Dr. Adolf Speyer und August Speyer. . . . Leipzig, Engelmann, 1858—62.  
2 v. 22½<sup>cm</sup>.

CONTENTS.—1. th. Die tagfalter, schwärmer und spinner. (Papilio Sphinx et Bombyx s. l.) 1858.—  
2. th. Die noctuinen in weitem sinne. (Cymatophoridae, Noctuidae s. str., Deltoidea, Chloëphoridae, Nolidae, Brepidae) Nebst nachträgen zum ersten theile. 1862.

“Quellen-verzeichniss”: 1. th. p. [441]—450.

“Quellen-verzeichniss II”: 2. th. p. [255]—260.

**Stainton, Henry Tibbats.** A manual of British butterflies and moths. By H. T. Stainton . . . London, J. Van Voorst, 1857.  
v. 1. (xii, 338 p.) illus. 19½<sup>cm</sup>.

CONTENTS.—Vol. 1. Comprising the butterflies and stout-bodied moths.

**Standfuss, Max.** Handbuch der paläarktischen gross-schmetterlinge für forscher und sammler. 2. gänzlich umgearbeitete und durch studien zur descendenztheorie erweiterte auf. des Handbuches für sammler der europäischen gross-schmetterlinge. Von Dr. M. Standfuss . . . Mit 8 lithographischen tafeln und 8 text-figuren. Jena, G. Fischer, 1896.  
xii, 392 p. illus., VIII col. pl. 25½<sup>cm</sup>.  
Bibliography: p. 14—17.

**Staudinger, Otto.** Catalog der lepidopteren des europaeischen faunengebiets. I. Macrolepidoptera bearb. von Dr. O. Staudinger. II. Microlepidoptera bearb. von Dr. M. Wocke. Dresden, Dr. O. Staudinger [etc.] 1871. Agr 4—229  
xxxviii, 426 p. 24<sup>cm</sup>.

Paging irregular; 393 bis inserted.

Added title: Catalogue ou énumération méthodique des lépidoptères qui habitent le territoire de la faune européenne. I. Macrolepidoptera, par O. Staudinger . . . II. Microlepidoptera, par M. Wocke . . .

For 3d ed. see Staudinger, Otto, Catalog der lepidopteren des palaeartischen faunengebietes.

**Staudinger, Otto.** Catalog der lepidopteren des palaeartischen faunengebietes, von Dr. phil. O. Staudinger und Dr. phil. H. Rebel. 3. auf. des Cataloges der lepidopteren des europäischen faunengebietes. Berlin, R. Friedländer & sohn, 1901.  
2 v. in 1. front. (port.) 24<sup>cm</sup>. Agr 4—228

“Verzeichnis der abkürzungen von autorennamen und publicationen”: 1. th., p. [xv]—xxvi.

CONTENTS.—1. th. Famil. Papilionidae-Hepialidae, von Dr. O. Staudinger und Dr. H. Rebel.—2. th. Famil. Pyralidae-Micropterygidae, von Dr. H. Rebel.

[**Stephens, James Francis**] List of the specimens of British animals in the collection of the British museum. Pt. v, [x, xvi] Lepidoptera. London, Printed by order of the trustees, 1850—54.

8 pts. 18<sup>cm</sup>.

The Lepidoptera are contained in pts. v, x, XII, xvi. Pt. XII wanting.

Pt. xvi by H. T. Stainton.

**Tutt, James William.** A natural history of the British Lepidoptera; a text-book for students and collectors, by J. W. Tutt . . . London, S. Sonnenschein & co.; [etc., etc.] 1899-1904.

4 v. plates. 22<sup>cm</sup>.

**Walker, Francis.** List of the specimens of lepidopterous insects in the collection of the British museum. By Francis Walker. London, Printed by order of the trustees, 1854-66.

Agr 4-350

35 pts. 18<sup>cm</sup>.

Author's name does not appear on title pages of pt. I and II.

Pts. I-VII form 1st series, 1808 p.; pt. VIII forms 2d series, 271 p.; pts. IX-XV form 3d series, 1888 p.; pts. XVI-XIX, 4th series, 1036 p.; pts. XX-XXVI, 5th series, 1796 p.; pts. XXVII-XXX, 6th series, 1096 p.; pts. XXXI-XXXV, 7th series, 2040 p.

Each series contains index.

CONTENTS.—Pt. I-VII. Lepidoptera Heterocera.—Pt. VIII. Sphingidæ.—Pt. IX-XV. Noctuidæ.—Pt. XVI. Deltoides.—Pt. XVII-XIX. Pyralides.—Pt. XX-XXVI. Geometrites.—Pt. XXVII. Crambites & Tortricites.—Pt. XXVIII. Tortricites & Tineites.—Pt. XXIX-XXX. Tineites.—Pt. XXXI-XXXV. Supplement. Pt. [1]-5.

**Weiler, Josef.** Die schmetterlinge des Tauferer thales. Ein beitrage zur lepidopteren-kunde von Tirol . . . Innsbruck, 1880.

33 p. 23½<sup>cm</sup>.

Separat-abdruck aus dem Programme der K. K. Ober-realschule zu Innsbruck für das studien-jahr 1879-1880.

**Wilde, O.** Die pflanzen und raupen Deutschlands. Versuch einer lepidoptologischen botanik, von O. Wilde . . . Berlin, E. S. Mittler & sohn, 1860-61.

2 v. in 1. x pl. 20½<sup>cm</sup>.

Agr 3-376

CONTENTS.—1. th. Systematische beschreibung der pflanzen unter angabe der an denselben lebenden raupen, von O. Wilde . . . Mit einem vorworte von Dr. A. Speyer. 1860.—2. th. Systematische beschreibung der raupen unter angabe ihrer lebensweise und entwicklungszeiten, von O. Wilde. Mit 10 tafeln abbildungen. 1861.

## LARVÆ.

**Buckler, William.** The larvæ of the British butterflies and moths. By (the late) William Buckler, ed. by H. T. Stainton . . . London, Printed for the Ray society, 1886-1901.

9 v. col. pl. 22½<sup>cm</sup>.

Vol. I-IV edited by H. T. Stainton; vol. V edited (in part) by (the late) H. T. Stainton; vol. VI-IX edited by Geo. T. Porritt.

CONTENTS.—v. I. The butterflies. 1886.—v. II. The Sphinges or hawk-moths and part of the Bombyces. 1887.—v. III. The concluding portion of the Bombyces. 1889.—v. IV. The first portion of the Noctuæ, 1891.—v. V. The second portion of the Noctuæ. 1893.—v. VI. The third and concluding portion of the Noctuæ. 1895.—v. VII. The first portion of the Geometræ. 1897.—v. VIII. The concluding portion of the Geometræ. 1899.—v. IX. The Deltoides, Pyrales, Crambites, Tortricites, Tineæ, and Pterophori, concluding the work. 1901.

**Chambers, Vector Tousey.** On the antennæ and trophi of lepidopterous larvæ . . . [Cincinnati, 1882]

[5]-21 p. 3 pl. 22<sup>cm</sup>.

From Journal of the Cincinnati society of natural history, v. 5, 1882.

**Dobeneck, A., freiherr von.** Die raupen der tagfalter, schwärmer und spinner des mitteleuropäischen faunen-gebietes. Mit besonderer berücksichtigung der schädlinge und deren bekämpfung. Als erster beitrage für ein bestimmungswerk der insektenlarven analytisch bearb. von Dr. A. freiherr von Dobeneck . . . Stuttgart, E. Ulmer, 1899.

Agr 3-1234

xii, 260 p. illus. 24<sup>cm</sup>.

"Litteratur": p. [xi]-xii.

**Dyar, Harrison Gray.** . . . Additional notes on the classification of lepidopterous larvæ . . . [New York] 1895.

[49]-62 p. illus. 23<sup>cm</sup>.

Reprinted from the Transactions of the New York academy of sciences, vol. XIV.

**Dyar, Harrison Gray.** . . . Descriptions of the larvæ of some moths from Colorado . . . Washington, 1902.

369-412 p. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxv, p. 369-412 <no. 1290>

**Froggatt, Walter Wilson.** . . . Caterpillar plagues, with an account of the potato-pests at Windsor . . . Sydney, 1901.

7 p. illus., 2 pl. 25<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 447)

From the Agricultural gazette of N. S. Wales, vol. XII. February 1901.

**Froggatt, Walter Wilson.** A leaf-mining caterpillar Sydney, 1899.

2 p. pl. 25<sup>cm</sup>. ([Department of agriculture, New South Wales] Miscellaneous publication, no. 323)

From Agricultural gazette of N. S. Wales, vol. x, August, 1899.

**Gruber, August, i. e., Friedrich August.** Ueber nordamerikanische papilioniden- und nymphaliden-raupen . . . [Jena, 1884]

[465]-489 p. VII-VIII fold. pl. 23½<sup>cm</sup>.

From Jenaische zeitschrift für naturwissenschaft . . . 17. bd., n. f. 10. bd.

**Hofmann, Ernst.** Die raupen der gross-schmetterlinge Europas . . . Von professor Dr. Ernst Hofmann . . . Stuttgart, Verlag der C. Hoffmann'schen verlagsbuchhandlung (A. Bleil) 1893.

Agr 5-523

1 p. l., xxiv, 318 p. illus., 50 col. pl. 29½<sup>cm</sup>.

"Verzeichnis der autoren": p. [v]-vi.

**Hofmann, Ernst.** Die raupen der schmetterlinge Europas. Von Prof. Dr. Arnold Spuler. 2. auf. von Dr. E. Hofmann's gleichnamigen werke . . . Stuttgart, E. Schweizerbartsche verlagsbuchhandlung (E. Nägele) [1904]

Agr 5-638

2 p. l., xxxviii, [60] p. illus., 60 col. pl. 29½<sup>cm</sup>.

**Medicus, Wilhelm.** Illustrierter raupenkalender. Zusammenstellung der raupen nach monaten, in welchen sie vorkommen, und mit angabe, von welchem fütter sie leben und wo sie hauptsächlich zu finden sind . . . Von Dr. Wilh. Medicus . . . Kaiserslautern, A. Gotthold [pref. 1889]

Agr 3-1184

v, [1], 80 p. VII col. pl. 16<sup>cm</sup>.

**Müller, Wilhelm called Müller-Blumenau.** Ueber einige im wasser lebende schmetterlings-raupen Brasiliens . . . Berlin, 1884.

[194]-216 p. 1 pl. 23<sup>cm</sup>.

From Archiv für naturgeschichte, vol. L, hft. II

**Packard, Alpheus Spring.** Notes on some points in the external structure and phylogeny of lepidopterous larvæ . . . [Boston] 1890.

88-114 p. 2 pl. 25<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. xxv, 1890.

**Townsend, Charles Henry Tyler.** . . . Notes on lepidopterous larvæ . . . [San Francisco, 1894]

353-358 p. 23½<sup>cm</sup>.

Extract from Zoe, vol. IV, no. 4.

## FAMILIES.

### RHOPALOCERA.

**Aurivillius, Per Olof Christopher.** . . . Rhopalocera æthiopica; die tagfalter der æthiopischen faunengebietes, eine systematisch-geographische studie, von Chr. Aurivillius . . . Der Königl. akademie der wissenschaften vorgelegt den 8. juni 1898. Stockholm, Kungl. boktryckeriet, P. A. Norstedt & söner, 1898.

Agr 3-322

561 p., 7 l. illus., VI col. pl. 31½<sup>cm</sup>. (Kongl. svenska vetenskaps-akademiens Handlingar. Bandet 31. n:o 5.)

"Verzeichniss der bisher veröffentlichten abhandlungen über die tagfalter der einzelnen gebiete Afrikas:" p. 11-21.

**Aurivillius, Per Olof Christopher.** . . . Ueber sekundäre geschlechtscharaktere nordischer tagfalter . . . Stockholm, 1880.

50 p. III pl. 21 $\frac{1}{2}$ cm.

Bihang till K. Svenska vet. akad. Handlingar. bd. 5. no 25.

**Aurivillius, Per Olof Christopher.** . . . Verzeichnis einer schmetterlingsammlung aus dem Katanga-gebiete im südwestlichen theile des Congostaates . . . Stockholm, 1903.

[245]-254 p. illus. 21 $\frac{1}{2}$ cm.

Särtryck ur Arkiv för zoologi utgivet af K. Svenska vetenskapsakademien. bd. 1.

**Barber, Harry G.** . . . A list of Nebraska butterflies . . . [Lincoln, Neb., 1894]

16-22 p. 24cm.

Extract Proc. Nebr. acad. sci., IV, p. 16-22, 1894.

**Berg, Carlos.** . . . Comunicaciones lepidopterológicas acerca de veinticinco ropalóceros sudamericanos . . . Buenos Aires, 1897.

[233]-261 p. 26 $\frac{1}{2}$ cm.

From Anales del Museo nacional de Buenos Aires. tomo v, p. 233 á 261.

**Beutenmüller, William.** . . . The butterflies of the vicinity of New York city, by William Beutenmüller . . . [New York] 1902. Agr 3-415

cover-title, 52 p. illus. 25cm. (Guide leaflet no. 7)

Supplement to American museum journal, vol. II, no. 5, May, 1902.

**Beutenmüller, William.** Descriptive catalogue of the butterflies found within fifty miles of New York city, together with a brief account of their life histories and habits . . . New York, 1893.

241-310 p. II-VI pl. 25cm.

Author's edition, extracted from Bulletin of the American museum of natural history, vol. v, article XVI, pp. 241-310.

**Biologia centrali-americana. Insecta. Lepidoptera-Rhopalocera** By Frederick Ducane Godman . . . and Osbert Salvin . . . [London, Pub. for the editors by R. H. Porter] 1879-1901. Agr 3-187

3 v. 112 (i. e. 113) col. pl. 32cm.

Issued in parts.

Cover-titles: Biologia centrali-americana; or, Contributions to the knowledge of the fauna and flora of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1901, by F. Ducane Godman.

CONTENTS.—I-II. Text.—III. Plates.

**Blatchley, Willis Stanley.** . . . A catalogue of the butterflies known to occur in Indiana . . . Indianapolis, 1892.

1 p. l., 44 p., 1 l. 22 $\frac{1}{2}$ cm.

From the Seventeenth report on the geology and natural history of Indiana, p. 365-408.

**Boll, Jacob.** Ueber dimorphismus und variation einiger schmetterlinge Nord-Amerikas . . . [Dallas, Texas, 1876] Agr 3-324

[3] p. 28cm.

**Bramson, Konstantin Ljüdvigovich.** Tableaux analytiques pour la détermination des lépidoptères diurnes (rhopalocères) d'Europe et du Caucase, par K. L. Bramson . . . (Tr. de l'allemand par l'auteur) [Bruxelles, 1894] Agr 4-3435

120, [4] p. illus. 25cm.

Issued with Miscellanea entomologica.

**Braswell, A.** . . . List of the butterflies collected at Chapel Hill, N. C. [Raleigh] 1888.

19-21 p. 23cm.

From Journal Elisha Mitchell scientific society, 1888, v. 5, pt. 1.

**Butler, Arthur Gardiner.** An account of a collection of butterflies made by the Rev. K. St. Aubyn Rogers between Mombasa and the forests of Taveta . . . [London] 1901.

[22]-35 p. 22 $\frac{1}{2}$ cm.

From the Annals and magazine of natural history, ser. 7, vol. VII, January, 1901.

**Butler, Arthur Gardiner.** . . . An account of a collection of butterflies obtained by Lord Delamere, chiefly at Munisu, near Mount Kenya . . . [London] 1901.

[97]-203 p. 21½<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. VII, February, 1901.

**Butler, Arthur Gardiner.** Catalogue of diurnal Lepidoptera described by Fabricius in the collection of the British museum. By Arthur Gardiner Butler . . . London, Printed by order of the trustees, 1869. Agr 3—774

iv p., 1 l., 303 p. III pl. 22¼<sup>cm</sup>.

**Butler, Arthur Gardiner.** . . . Descriptions of some remarkable new species and a new genus of diurnal Lepidoptera. Description of a new species of tiger-moth in the possession of Mr. T. W. Wood. London, 1867.

6 p. 1 pl. 21½<sup>cm</sup>.

From the Annals and magazine of natural history for September, 1867.

**Butler, Arthur Gardiner.** . . . List of diurnal Lepidoptera collected by Mr. Spaight in northern India . . . [London] 1870.

[724]-728 p. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, November 1, 1870.

**Butler, Arthur Gardiner.** . . . A list of diurnal Lepidoptera recently collected by Mr. Whitely in Hakodadi (north Japan) . . . [London, 1866?]

50-59 p. 21½<sup>cm</sup>.

From the Proceedings of the Linnean society of London, Zoology, v. 9, p. 50-59.

**Butler, Arthur Gardiner.** . . . List of species in a small collection of butterflies from the South Seas . . . [London] 1870.

5 p. 21½<sup>cm</sup>.

From the Annals and magazine of natural history for May, 1870.

**Butler, Arthur Gardiner.** List of the butterflies of Costa Rica, with descriptions of new species. By Arthur G. Butler . . . and Herbert Druce . . . [London] 1874.

330-370 p. 21½<sup>cm</sup>.

From the Proceedings of the Zoological society of London, June 2, 1874.

**Butler, Arthur Gardiner.** List of the diurnal Lepidoptera of the South-Sea Islands . . . [London] 1874.

274-291 p. 1 col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, May 5, 1874.

**Butler, Arthur Gardiner.** . . . On a second collection of butterflies obtained by Mr. Edward M. de Jersey in Nyasaland . . . [London] 1900.

[59]-63 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. v, January, 1900.

**Butler, Arthur Gardiner.** . . . On butterflies collected between Chinde and Mandala, British Central Africa, by Edward M. de Jersey, esq., in March and April, 1899 . . . [London] 1899.

[372]-378 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. IV, November, 1899.

**Butler, Arthur Gardiner.** . . . On new diurnal Lepidoptera. [London] 1870.

[7]-10 p. 21½<sup>cm</sup>.

From the Annals and magazine of natural history for May, 1870.

**Butler, Arthur Gardiner.** . . . On some new species of butterflies from tropical America . . . [London] 1875.

4 p. 22¼<sup>cm</sup>.

From the Annals and magazine of natural history for March, 1875.

**Comstock, John Henry.** How to know the butterflies; a manual of the butterflies of the eastern United States, by John Henry Comstock . . . and Anna Botsford Comstock . . . New York, D. Appleton and company, 1904. 4-13626

xii, 311 p. illus., XLV col. pl. (incl. front.) 21<sup>cm</sup>.

**Dale, Charles William.** The history of our British butterflies, containing a full bibliographical notice of each species, with copious extracts from the old authors,

and full descriptions of all the British species, their eggs, caterpillars, chrysalides and varieties, with a notice of their habits, localities, frequency, &c., &c. By C. W. Dale, F. E. S. London, J. Kempster & co. [1889]

2 p. l., xli p., 2 l., 232 p. 21½<sup>cm</sup>.

**Davis, William T.** Butterflies of Staten Island. [n. p.] 1884.

1 l. 22½<sup>cm</sup>.

**Dewitz, Hermann.** . . . Afrikanische tagschmetterlinge. Von H. Dewitz . . . Eingegangen bei der Akademie den 11. december 1878. Halle, 1879.

40 p. II-III pl. 32<sup>cm</sup>. (Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher. bd. xli. Pars II, nr. 2)

**Dewitz, Hermann.** . . . Westafrikanische tagschmetterlinge. (Fortsetzung zu Nova acta, bd. xli, ps. II, nr. 2) von H. Dewitz, M. A. N. Westafrikanische nympha-liden . . . Eingegangen bei der Akademie am 10. August 1885. Halle, 1887.

8 p. col. pl. 32½<sup>cm</sup>. (Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher. bd. .. nr. 4.)

**Doubleday, Edward.** The genera of diurnal Lepidoptera: comprising their generic characters, a notice of their habits and transformations, and a catalogue of the species of each genus. By Edward Doubleday . . . and John O. Westwood . . . Illustrated with eighty-six plates, by William C. Hewitson . . . In two vol-umes . . . London, Longman, Brown, Green, and Longmans, 1846-52.

2 v. 86 pl. (85 col.) 39½<sup>cm</sup>.

CONTENTS.—vol. I. Containing the families Papilionidæ, Pieridæ, Ageronidæ, Danaidæ, Heli-conidæ, Acraeidæ, and part of the Nymphalidæ, by Edward Doubleday. 1846-50.—vol. II. Contain-ing the remainder of the family Nymphalidæ, and the families, Morphidæ, Brassolidæ, Satyridæ, Libytheidæ, Erycinidæ, Lycænidæ, and Hesperidæ; with a supplement, by John O. Westwood. 1850-52.

**Druce, Herbert.** A list of the collection of diurnal Lepidoptera made by Mr. J. J. Monteiro, in Angola, with descriptions of some new species . . . [London] 1875.

406-417 p. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, June 1, 1875.

**Druce, Herbert.** A list of the collections of diurnal Lepidoptera made by Mr. Lowe in Borneo, with descriptions of new species . . . [London, 1873]

[337]-361 p. xxxii-xxxiii col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, March 18, 1873.

**Duncan, James.** . . . Entomology. British butterflies. By James Duncan, M. W. S., etc. Edinburgh, W. H. Lizars; [etc., etc.] 1860.

Agr 3-49

4 p. l., [17]-246 p. front. (port.) 34 pl. (partly col.) 17½<sup>cm</sup>. (The naturalist's library. Ed. by Sir William Jardine . . . [Reprint] vol. xxix)

Engr. half t.-p.

Reprint of his The natural history of British butterflies. 1835.

"Memoir of Werner." Translation of the Eloge of Baron Cuvier: p. [17]-40.

**Duncan, James.** . . . Entomology. Foreign butterflies. By James Duncan . . . Edinburgh, W. H. Lizars; [etc., etc.] 1858.

Agr 3-53

4 p. l., [17]-208 p. front. (port.) illus., 30 col. pl. (1 fold.) 17½<sup>cm</sup>. (The naturalist's library. Ed. by Sir William Jardine . . . [Reprint] vol. xxxi)

Engr. half t.-p.

Reprint of his The natural history of foreign butterflies. 1837.

"Memoir of Lamarck," p. [17]-63.

**Duncan, James.** The natural history of British butterflies. Illustrated by thirty-six plates; with memoir and portrait of Werner. By James Duncan, M. W. S. Edinburgh, W. H. Lizars; [etc., etc.] 1835.

Agr 3-50

xv, [17]-246 p. front. (port.) 34 pl. (partly col.) 18<sup>cm</sup>. (The naturalist's library. Conducted by Sir William Jardine . . . Entomology. vol. lvi)

Engr. half t.-p.

The Memoir of Werner is a translation of the "Eloge of Baron Cuvier, pronounced before the Royal institute of France."

**Duncan, James.** The natural history of foreign butterflies. Illustrated by thirty-three coloured plates; with memoir and portrait of Lamarck. By James Duncan, m. w. s. Edinburgh, W. H. Lizars; [etc., etc.] 1837. Agr 3-54  
xv, [17]-208 p. front. (port.) illus., 30 col. pl. 18 $\frac{1}{2}$ cm. (The naturalist's library. Conducted by Sir William Jardine . . . Entomology. vol. v)  
Engr. half t.-p.

**Edwards, William Henry.** The butterflies of North America [by] William H. Edwards . . . Boston, New York, Houghton, Mifflin and company, 1879-97.  
3 v. col. plates. 29 $\frac{1}{2}$ cm.  
Imprint of v. 1: Philadelphia, The American entomological society, 1868-72; text reprinted, Boston, Houghton, Osgood and company, 1879.

**Edwards, William Henry.** Descriptions of certain species of diurnal Lepidoptera found within the limits of the United States and of British America . . . Philadelphia, 1861-62.  
3 pts. 1 col. pl. 24cm.  
From the Proceedings of the Academy of natural sciences of Philadelphia, July, 1861, February and April, 1862.

**Edwards, William Henry.** Synopsis of North American butterflies. By William H. Edwards . . . Philadelphia, The American entomological society, 1872; text reprinted, Boston, Houghton, Osgood and company, 1879. Agr 5-515  
v, 52 p. 29 $\frac{1}{2}$ cm. [*With his* The butterflies of North America. v. 1. Philadelphia, 1868-72; text reprinted, Boston, 1879]  
"Authors and works quoted in Synopsis": p. III-v.

**Eimer, G. H. Theodor.** Die artbildung und verwandtschaft bei den schmetterlingen. Eine systematische darstellung der abänderungen, abarten und arten der segelfalter-ähnlichen formen der gattung Papilio. Von Dr. G. H. Theodor Eimer . . . Jena, G. Fischer, 1889.  
xii, 243 p. illus. 25 $\frac{1}{2}$ cm. and atlas (1v col. pl.) 34 $\frac{1}{2}$ cm.

**Felder, Cajetan, freiherr von.** Rhopalocera von Dr. Cajetan Felder . . . von Rudolf Felder . . . Wien, Aus der Kaiserlich-königlichen hof- und staatsdruckerei, 1864-67. Agr 4-276  
1 p. 1., vi, 548 p., 1 l. 31cm. (*Added t.-p.*: Reise der österreichischen fregatte Novara um die erde in den jahren 1857, 1858, 1859, unter den befehlen des commodore B. von Wüllerstorff-Urbair. Zoologischer theil. 2. bd. 2. abth.: Lepidoptera von Dr. Cajetan und Rudolph Felder. Rhopalocera. Text . . .)

The plates to accompany above text are included in the volume entitled: Lepidoptera, von Dr. Cajetan Felder . . . von Rudolf Felder . . . und Alois F. Rogenhofer . . . Atlas von 140 tafeln . . . Wien . . . 1864-75.

**Fernald, Charles Henry.** The butterflies of Maine. Designed for the use of the students in the Maine State college and the farmers of the State . . . Augusta, 1884. 104 p. illus. 22cm.  
Also published as Appendix to Annual reports . . . of the State college of agriculture and the mechanic arts, Orono, Me., 1883.

**Fletcher, James.** A trip to Nepigon. Some notes upon collecting and breeding butterflies from the egg . . . [Ottawa, 1888] .  
15 p. 24 $\frac{1}{2}$ cm.

**French, George Hazen.** Analytical tables of the butterflies of Illinois. Carbondale, Ill., 1879.  
30-42 p. 21cm.  
From the Fifth annual report of the principal to the Board of trustees of the Southern Illinois normal university.

**Gosse, Philip Henry.** . . . "The prehensores of male butterflies of the genera Ornithoptera and Papilio." (Abstract.) [London], 1881.  
[23]-27 p. 21cm.  
From the Proceedings of the Royal society, No. 216, 1881.

**Holland, William Jacob.** Asiatic Lepidoptera. List of the diurnal Lepidoptera taken by Mr. William Doherty of Cincinnati in Celebes, June and July, 1887, with descriptions of some apparently new forms . . . [Boston] 1890.

[52]-82 p. III-V pl. 24 $\frac{1}{2}$ cm.

From the Proceedings of the Boston society of natural history, vol. xxv, 1890.

**Holland, William Jacob.** The butterfly book: a popular guide to a knowledge of the butterflies of North America, by W. J. Holland . . . with 48 plates in color-photography, reproductions of butterflies in the author's collection, and many text illustrations presenting most of the species found in the United States. New York, Doubleday & McClure co., 1898. Dec. 14, 98-64

1 p. l., xx, 382 p. illus., XLVIII col. pl. (incl. front.) 26 $\frac{1}{2}$ cm.

"Books about North American butterflies": p. 69-74.

**Kirby, William Forsell.** A synonymic catalogue of diurnal Lepidoptera, by W. F. Kirby . . . London, J. Van Voorst; [etc., etc.] 1871.

v p. 1 l., 690 p. 22 $\frac{1}{2}$ cm.

— — — Supplement, March, 1871-June, 1877. London, J. Van Voorst, 1877. iv p., 2 l., [691]-883 p. 23cm.

**Kirby, William Forsell.** The young collector's handbook of butterflies. By W. F. Kirby . . . London, W. S. Sonnenschein & co. [n. d.]

82 p. illus. 16 $\frac{1}{2}$ cm.

**Kopman, Henry H.** The butterflies of Louisiana . . . [New Orleans] 1903.

From the Times-Democrat, April 12, 1903.

Mounted clippings on 4 sheets 20 x 13 $\frac{1}{2}$ cm.

**Leech, John Henry.** Butterflies from China, Japan, and Corea. By John Henry Leech . . . London, R. H. Porter, 1892-94.

3 v. illus., XLIII (*i. e.* 48) pl. (partly col.) 1 fold. map. 28 $\frac{1}{2}$ cm.

CONTENTS.—[pt. I] Dedication. Preface. Systematic list of families, genera and species. Introduction. Geographical distribution tables. Nymphalidæ. Lemoniidæ. 1892-94.—pt. II. Lycaenidæ. Papilionidæ. Hesperiidæ. [Appendix. Index of genera and species] 1893-94.—[pt. III] Plates. 1892-94.

**Lyman, Henry H.** . . . Dimorphism and polymorphism in butterflies . . . [Montreal] 1899.

[24]-35 p. 22 $\frac{1}{2}$ cm.

"Reprinted from the Canadian record of science, January, 1899."

**Marshall, George Frederick Leicester.** The butterflies of India, Burmah and Ceylon. A descriptive handbook of all the known species of rhopaloceros Lepidoptera inhabiting that region, with notices of allied species occurring in the neighbouring countries along the border; with numerous illustrations. By Major G. F. L. Marshall . . . and Lionel de Nicéville . . . The illustrations drawn by Babu Gris Chunder Chuckerbutty and Babu Behari Lal Dass. The wood engravings by George Pearson. The autotype plates by the Autotype company of London. The chromolithographs by Messrs. West, Newman & co. Calcutta, Printed and published by the Calcutta central press co., ld., 1882-90. Agr 3-347

3 v. 3 front., illus., XXIX pl. (partly col.) 25 $\frac{1}{2}$ cm.

Vol. II-III by Lionel de Nicéville.

**Maynard, Charles Johnson.** The butterflies of New England; with original descriptions of one hundred and six species, accompanied by eight lithographic plates, in which are given at least two hand-colored figures of each species, by C. J. Maynard. Boston, Mass., B. Whidden, 1886. Agr 3-1258

iv p., 1 l., 65, [2] p. VIII col. pl. incl. front. 36cm.

Each plate accompanied by leaf of description.

**Miskin, William Henry.** A synonymical catalogue of the Lepidoptera Rhopalocera (butterflies) of Australia, with full bibliographical reference; including descrip-



tions of some new species. By W. H. Miskin . . . [Brisbane, J. C. Beal, government printer, 1891]

Agr 4—291

xx, 92 p., 1 l., ix numb. l. 22<sup>em</sup>. (*Added t.p.*: Annals of the Queensland museum, no. 1)

"List of authors quoted in this catalogue with abbreviations and full names": p. [xi]-xiv.

"Abbreviations and full titles of all the works quoted in this catalogue": p. [xv]-xx.

**Moore, Frederic.** . . . Descriptions of new Asiatic diurnal Lepidoptera . . . [London] 1883.

521-535 p. XLVIII-XLIX col. pl. 21<sup>4</sup><sup>em</sup>.

From the Proceedings of the Zoological society of London, November 20, 1883.

**Olliff, Arthur Sidney.** . . . Australian butterflies; a brief account of the native families, with a chapter on collecting and preserving insects. By A. Sidney Olliff . . . Sydney, Batson & co., printers, 1889.

Agr 4—3577

1 p. l., 48 p., 1 l. illus. 21<sup>4</sup><sup>em</sup>.

Pub. by the Natural history association of New South Wales.

**Olliff, Arthur Sidney.** . . . On Rhopalocera from the vicinity of Mt. Bellen-der-Ker, Queensland . . . [Sidney] 1888.

[394]-396 p. 21<sup>4</sup><sup>em</sup>.

From vol. III (series 2nd) of the "Proceedings of the Linnæan society of New South Wales" (March 28th, 1888)

**Riley, Charles Valentine.** . . . Philosophy of the pupation of the butterflies and particularly of the Nymphalidæ . . . [Salem, 1880]

9 p. illus. 24<sup>em</sup>.

From the Proceedings of the American association for the advancement of science, vol. XXVIII, Saratoga meeting, August, 1879.

**Schaus, William.** . . . Descriptions of new American butterflies . . . Wash- ington, 1902.

1 p. l., 383-460 p. 24<sup>4</sup><sup>em</sup>.

From the Proceedings of the United States national museum, vol. XXIV, p. 383-460. <No. 1262>

**Scudder, Samuel Hubbard.** . . . Antigeny, or sexual dimorphism in butter- flies . . . [Boston, 1877]

[149]-158 p. 23<sup>4</sup><sup>em</sup>.

From the Proceedings of the American academy of arts and sciences, vol. XII. 1877.

**Scudder, Samuel Hubbard.** . . . A brief comparison of the butterfly faunas of Europe and eastern North America, with hints concerning the derivation of the latter . . . [Salem, Mass., 1877]

[268]-273 p. 24<sup>4</sup><sup>em</sup>.

From the Proceedings of the American association for the advancement of science, Buffalo meet- ing, August, 1876.

**Scudder, Samuel Hubbard.** Brief guide to the commoner butterflies of the northern United States and Canada; being an introduction to a knowledge of their life-histories, by Samuel Hubbard Scudder. New York, H. Holt and company, 1893.

Agr 3—358

xi, 206 p. illus. 19<sup>4</sup><sup>em</sup>.

"Some works on American butterflies": p. 27-32.

**Scudder, Samuel Hubbard.** The butterflies of the eastern United States and Canada with special reference to New England. By Samuel Hubbard Scudder . . . Cambridge, Published by the author, 1889.

3 v. fronts. (ports.) 89 pl. (partly col.) 3 maps (2 fold.) 28<sup>4</sup><sup>em</sup>.

CONTENTS.—Vol. I. Introduction, Nymphalidæ.—Vol. II. Lycaenidæ, Papilionidæ, Hesperidæ.— Vol. III. Appendix, plates.

**Scudder, Samuel Hubbard.** Every-day butterflies, a group of biographies, by Samuel Hubbard Scudder . . . Boston and New York, Houghton, Mifflin and company, 1899.

Agr 3—359

vi p., 1 l., 391 p. col. front., illus., 8 col. pl. 20<sup>4</sup><sup>em</sup>.

- Scudder, Samuel Hubbard.** . . . Food plants of New England butterflies. [Boston? 1869]  
[2] p. 21<sup>em</sup>.  
From the American naturalist, August, 1869.
- Scudder, Samuel Hubbard.** Fragments of the coarser anatomy of diurnal Lepidoptera . . . Cambridge, 1882. Agr 4—2 16  
2 p. l., 83 p. 19½<sup>em</sup>.  
Reprinted from Psyche, vol. 3.
- Scudder, Samuel Hubbard.** Historical sketch of the generic names proposed for butterflies. *See under* Entomology. Nomenclature.
- Scudder, Samuel Hubbard.** The life of a butterfly; a chapter in natural history for the general reader, by Samuel H. Scudder . . . New York, H. Holt and company, 1893. 4—21501  
186 p. 4 pl. 18<sup>em</sup>;
- Scudder, Samuel Hubbard** . . . A list of the butterflies of New England . . . [Salem?, Mass.] 1863.  
[161]—179 p. 23½<sup>em</sup>.  
From the Proceedings of the Essex institute, Salem, Mass., vol. III, read at the meeting of March 10, 1862.
- — — Supplement. [Boston, 1868]  
[375]—384 p. 24<sup>em</sup>.  
From the Proceedings of the Boston society of natural history, vol. XI, January 22, 1868.
- Scudder, Samuel Hubbard.** Notice of a small collection of butterflies, made by Dr. A. S. Packard, in Colorado and Utah, in 1875 . . . [Washington, 1876]  
269—270 p. 23<sup>em</sup>.  
From Bulletin of the U. S. geological and geographical survey of the territories, v. 2, no. 3. 1876.
- Scudder, Samuel Hubbard.** Notice of the butterflies and Orthoptera, collected by Mr. George M. Dawson, as naturalist of the B. N. A. boundary commission . . . [n. p., 1875]  
5 p. 22½<sup>em</sup>.
- Scudder, Samuel Hubbard.** . . . Notice of the butterflies collected by Dr. Edward Palmer in the arid regions of southern Utah and northern Arizona during the summer of 1877 . . . Washington, 1878.  
253—258 p. 23<sup>em</sup>.  
Extracted from the Bulletin of the United States geological and geographical survey, vol. IV, no. 1.
- Scudder, Samuel Hubbard.** . . . A preliminary list of the butterflies of Iowa. By Samuel H. Scudder. [Chicago, 1869?]  
326—337 p. 28½<sup>em</sup>.  
From Transactions of the Chicago academy of sciences, v. 1.
- Scudder, Samuel Hubbard.** . . . Synonymic list of the butterflies of North America, north of Mexico . . . [Buffalo, 1875—76]  
2 pts. 23<sup>em</sup>.  
From the Bulletin of the Buffalo society of natural sciences, vol. II, p. 233—269; vol. III, p. 98—129.
- Scudder, Samuel Hubbard.** A systematic revision of some of the American butterflies, with brief notes on those known to occur in Essex county, Mass. . . Salem, Mass., 1872.  
62 p. 22½<sup>em</sup>.  
From the Report of the Peabody academy of science for 1871, p. 24 to 82, inclusive.
- Sharpe, Emily Mary.** . . . Description of two new butterflies collected by Major E. M. Woodward in Nandi, equatorial Africa . . . [London, 1899]  
[243]—244 p. 22<sup>em</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. III, March 1899.
- Skinner, Henry.** A synonymic catalogue of the North American Rhopalocera, by Henry Skinner . . . Philadelphia, American entomological society, 1898.  
xv, [1], 99, [1], xiv p. 24<sup>em</sup>.

A table of the British butterflies, arranged according to a scale of sizes. [n. p., n. d.]

98 x 68<sup>cm.</sup>, (fold. 20 x 11<sup>cm.</sup>)

Ms.

**Tepper, J. Gottlieb Otto.** Notes and remarks on South Australian Rhopalocera . . . [Adelaide, 1893]

[281]—286 p. 21<sup>4</sup><sup>cm.</sup>

From the Transactions of the Royal society of South Australia, 1893.

**Trimen, Roland.** On a collection of butterflies made in Manica, tropical south-east Africa, by Mr. F. C. Selous, in the year 1892 . . . [London, 1894]

14—82 p. iv—vi col. pl. 22<sup>4</sup><sup>cm.</sup>

From the Proceedings of the Zoological society of London, January 16, 1894.

**Trimen, Roland.** . . . On butterflies collected in tropical south-western Africa by Mr. A. W. Eriksson . . . [London, 1891]

59—107 p. viii—ix col. pl. 22<sup>4</sup><sup>cm.</sup>

From the Proceedings of the Zoological society of London, January 20, 1891.

**Trybom, Filip.** . . . Dagfjärilar insamlade af svenska expeditionen till Jenisei 1876 . . . Stockholm [1877]

35—51 p. 21<sup>4</sup><sup>cm.</sup>

Öfversigt af Kongl. vetenskaps-akademiens Förhandlingar, 1877. no 6.

**Walter, Alfred.** Beiträge zur morphologie der schmetterlinge. I. th. Zur morphologie der schmetterlingsmundtheile . . . Dorpat, 1885.

2 p. l., 57, [2] p. 2 fold. pl. 22<sup>cm.</sup>

Inaug.-dis.—Dorpat.

“Benutzte literatur” : p. [55]—57.

**Waterhouse, G. A.** . . . Catalogue of the Rhopalocera of Australia, by G. A. Waterhouse . . . Sydney [Printed by S. D. Townsend & co.] 1903. 4—19098

49, ii, [1] p. 21<sup>cm.</sup>. (Memoirs of the New South Wales naturalists' club. no. i)

**Weismann, August.** Studien zur descendenz-theorie. i. Ueber den saison-dimorphismus der schmetterlinge, von Dr. August Weismann . . . Mit zwei farben-drucktafeln. Leipzig, W. Engelmann, 1875. 3—11292

iv, 94 p., 1 l. 2 col. pl. 25<sup>4</sup><sup>cm.</sup>

“Separat-abdruck aus den Annali del Museo civico de storia naturale di Genoa, bd. vi, 1874.”

**Westwood, John Obadiah.** The British butterflies and their transformations, illustrated in a series of plates by H. N. Humphreys, esq. With characters and descriptions by J. O. Westwood . . . New ed. rev. and corrected by the author. London and Edinburgh, W. and R. Chambers, 1860. Agr 3—373

xii, 137 p., 1 l. 42 col. pl. 29<sup>cm.</sup>

Added t.-p., col.

**White, Francis Buchanan White.** . . . On the male genital armature in the European Rhopalocera . . . (Plates LV.—LVII.) Read December 21st, 1876. [London, 1877]

357—369 p. 3 col. pl. 29<sup>cm.</sup>

From the Transactions of the Linnean society of London. 2d. series.—Zoology, vol. i.

#### NYMPHALIDÆ.

**Aurivillius, Per Olof Christopher.** . . . Neue nymphaliden aus dem Congo-gebiete . . . [Stockholm, 1897]

279—286 p. illus. 21<sup>4</sup><sup>cm.</sup>

Öfversigt af Kongl. vetenskaps-akademiens Förhandlingar, 1897. No 5.

**Burgess, Edward.** . . . Contributions to the anatomy of the milk-weed butterfly *Danais archippus* (Fabr.). By Edward Burgess . . . Boston, Pub. by the Society, 1880. Agr 3—326

19 p. illus., 11 pl. 30<sup>cm.</sup>

At head of title: 1830. Anniversary memoirs of the Boston Society of natural history. 1880.

- Butler, Arthur Gardiner.** Descriptions of four new species of *Protogonius* . . . [London] 1875.  
[35]–36 p. 1 col. pl. 22 $\frac{1}{2}$ cm.  
From the Proceedings of the Zoological society of London, January 19, 1875.
- Butler, Arthur Gardiner.** . . . A monograph of the genus *Lemonias*, with descriptions of new species in the collection of the British museum, including other forms sometimes placed in that genus . . . [London, 1866?]  
[214]–229 p. 6–7 col. pl. 22cm.  
Extracted from the Linnean society's Journal.—Zoology, vol. IX.
- Butler, Arthur Gardiner.** . . . Note on abnormalities in the neuration of the hind wings in *Acræa andromacha* . . . [London] 1870.  
[777]–778 p. 22 $\frac{1}{2}$ cm.  
From the Proceedings of the Zoological society of London, November 15, 1870.
- Butler, Arthur Gardiner.** Note on the *Nymphalis caledonia* of Hewitson . . . [London, 1867]  
[873]–874 p. illus. 21 $\frac{1}{2}$ cm.  
From the Proceedings of the Zoological society of London, November 14, 1867.
- Butler, Arthur Gardiner.** . . . Remarks upon the *Papilio cocytus* of Fabricius and its distinctness from the *Adolias cocytus* of authors; with notes on the sexes of the allied species. [London] 1868.  
4 p. 21 $\frac{1}{2}$ cm.  
From the Annals and magazine of natural history for January and February 1868.
- Butler, Arthur Gardiner.** . . . Revision of the genus *Protogonius* . . . [London] 1873.  
[772]–775 p. col. pl. 22 $\frac{1}{2}$ cm.  
From the Proceedings of the Zoological society of London, December 2, 1873.
- Druce, Herbert.** A revision of the lepidopterous genus *Paphia* . . . [London] 1877.  
632–652 p. LXI–LXIV col. pl. 22cm.  
From the Proceedings of the Zoological society of London, June 19, 1877.
- Felder, Cajetan, freiherr von.** Ein neues lepidopteron aus der familie der nymphaliden und seine stellung im natürlichen systeme, begründet aus der synopse der übrigen gattungen. Von Dr. Cajetan Felder . . . Eingegangen bei der Akademie am 29. februar 1860. Jena, F. Frommann, 1861.  
50 p. 1 col. pl. 30 $\frac{1}{2}$ cm.  
From Nova acta Acad. Leopold. Carol. t. 28.
- Godman, Frederick Du Cane.** . . . Descriptions of some new species of *Napeogenes* . . . [London] 1899.  
[155]–158 p. 22cm.  
From the Annals and magazine of natural history, ser. 7, vol. III., February, 1899.
- Kellogg, Vernon Lyman.** The sclerites of the head of *Danaus archippus* Fab. . . . [Lawrence] 1893.  
[51]–57 p., 1 l. 1 pl. 23cm.  
From Kansas university quarterly, vol. II, no. 2, October, 1893.
- Moore, Frederic.** A monograph of *Limnaina* and *Euplœina*, two groups of diurnal Lepidoptera belonging to the subfamily Euplœinæ; with descriptions of new genera and species . . . [London, 1883]  
201–324 p. XXIX–XXXII col. pl. 21 $\frac{1}{2}$ cm.  
From the Proceedings of the Zoological society of London, May 1, 1883.
- Müller, Fritz, i. e., Johann Friedrich Theodor.** *Epicalia acontius*. Ein ungleiches Ehepaar . . . [Leipzig, 1878].  
[285]–292 p. illus. 22cm.  
From Kosmos, II. jährg., IV. bd., heft 10.
- Müller, Gustav Wilhelm.** Südamerikanische nymphalidenraupen. Versuch eines natürlichen systems der nymphaliden. Von Dr. Wilh. Müller in Greifswald. Mit 4 tafeln . . . Jena, G. Fischer, 1886.  
x, 255 p. 4 pl. (partly fold.) 24 $\frac{1}{2}$ cm.  
Separat-abdruck aus den "Zoologischen jahrbüchern. Zeitschrift für systematik, biologie und geographie der thiere," hrsg. v. Dr. J. W. Spengel. 1. bd.  
"Litteraturverzeichniss": p. 251. Agr 3—194

**Riley, Charles Valentine.** Hackberry butterflies. Descriptions of the early stages of *Apatura lycaon*, Fabr., and *Apatura herse*, Fabr.; with remarks on their synonymy . . . [St. Louis, 1873]

[193]-208 p. illus. 24½<sup>cm</sup>.

From the Transactions of the St. Louis academy of science, vol. III.

**Riley, Charles Valentine.** . . . On the summer dormancy of the larva of *Phyciodes nycteis* (Doubleday), with remarks on the natural history of the species

. . . [Salem, 1875]

108-112 p. 24<sup>cm</sup>.

From the Proceedings of the American association for the advancement of science, Hartford meeting, August, 1874.

**Rivers, John James.** A new species of Californian Lepidoptera . . . [San Francisco] 1888.

103-105 p. 23<sup>cm</sup>.

From Proceedings of the California academy of science. 2d series, v. 1, 1888.

**Scudder, Samuel Hubbard.** A cosmopolitan butterfly. Its birthplace and natural history . . . Cambridge, 1876.

14 p. 24½<sup>cm</sup>.

Reprinted from the American naturalist, July and October, 1876.

**Scudder, Samuel Hubbard.** . . The curious history of a butterfly . . .

[n. p., 1872]

6 p. 22<sup>cm</sup>.

From the American naturalist, September, vol. vi.

**Scudder, Samuel Hubbard.** . . . The tropical faunal element of our southern Nymphalinae systematically treated . . . [Boston, 1892]

236-251 p. 24½<sup>cm</sup>.

From the Proceedings of the American academy of arts and sciences, v. 27.

**Urech, Friedrich.** . . Experimentelle ergebnisse der schnürung von noch weichen puppen der *Vanessa urticae* quer über die flügelchen . . . [Leipzig, 1897]

[487]-501 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger" no. 547. 1897.

#### AGAPETIDÆ.

**Butler, Arthur Gardiner.** Catalogue of diurnal Lepidoptera of the family Satyridæ in the collection of the British museum. By Arthur Gardiner Butler . . . London, Printed by order of the trustees, 1868.

vi, 211 p. v pl. 22½<sup>cm</sup>.

**Butler, Arthur Gardiner.** . . . Descriptions of some new species of Satyridæ belonging to the genus *Euptychia* . . . [London] 1867.

[104]-110 p. xi-xii pl. (1 col.) 22½<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 24, 1867.

**Grote, Augustus Radcliffe.** . . . A colony of butterflies . . . [Boston] 1876.

[129]-132 p. 23½<sup>cm</sup>.

From the American naturalist, vol. x, no. 3.

#### ERYCINIDÆ.

**Butler, Arthur Gardiner.** Description of a new genus of diurnal Lepidoptera belonging to the family Erycinidæ . . . [London] 1867.

[37]-39 p. illus. 22½<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 10, 1867.

**Mengel, Levi W.** A catalogue of the Erycinidæ, a family of butterflies. With the synonymy brought down to July 1, 1904, by Levi W. Mengel . . . [Reading, Pa.] 1905.

3 p. l., [9]-161 p. 22½<sup>cm</sup>.

Ms. note says that synonymy is brought down to Oct. 1, 1904.

## LYCÆNIDÆ.

**Butler, Arthur Gardiner.** . . . Descriptions of new species of Lycænidæ in the collection of the British Museum . . . [London] 1901.

[288]-291 p. 21½<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. vii, March, 1901.

**Butler, Arthur Gardiner.** . . . Descriptions of new species of the genus Lycænesthes . . . [London] 1899.

[341]-344 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. iv, November, 1899.

**Butler, Arthur Gardiner.** . . . A list of the species of Cyaniris, a well known group of the family Lycænidæ . . . [London] 1900.

[441]-451 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. v, May, 1900.

**Butler, Arthur Gardiner.** . . . Note on the identity of certain species of Lycænidæ . . . [London] 1867.

[34]-36 p. illus. 22½<sup>em</sup>.

From the Proceedings of the Zoological society of London, January 10, 1867.

**Druce, Hamilton H.** . . . Descriptions of four new species of Lycænidæ from the Eastern Archipelago . . . [London] 1897.

[13]-16 p. 21½<sup>em</sup>.

From the Annals and magazine of natural history, ser. 6, vol. xix, January, 1897.

**Druce, Hamilton H.** . . . Descriptions of some new genera and species of West-African Lycænidæ . . . [London] 1891.

[364]-367 p. 22<sup>em</sup>.

From the Annals and magazine of natural history, for April, 1891.

**Druce, Hamilton H.** . . . Descriptions of three new Lycænidæ from New Guinea . . . [London] 1894.

[252]-255 p. 21½<sup>em</sup>.

From the Annals and magazine of natural history, ser. 6, vol. xiii, March, 1894.

**Druce, Hamilton H.** . . . Descriptions of twelve new species of Lycænidæ from West Africa and one from the Solomon Islands, in the collection of Herbert Druce . . . [London] 1890.

[24]-31 p. 22<sup>em</sup>.

From the Annals and magazine of natural history for January, 1890.

**Druce, Hamilton H.** Further contributions to our knowledge of the Bornean Lycænidæ . . . [London] 1896.

650-683 p. xxix-xxxii col. pl. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, June 16, 1896.

**Druce, Hamilton H.** A list of the Lycænidæ of the south Pacific islands east of the Solomon group, with descriptions of several new species . . . [London] 1892.

434-446 p. 1 col. pl. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, May 17, 1892.

**Druce, Hamilton H.** A monograph of the Bornean Lycænidæ . . . [London] 1895.

556-627 p. xxxi-xxxiv col. pl. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, June 18, 1895.

**Druce, Hamilton H.** A monograph of the butterflies of the genus *Thysonotis*. By Hamilton H. Druce, and G. T. Bethune-Baker . . . [London] 1893.

536-553 p. xlv-xlviii pl. (2 col.) 22½<sup>em</sup>.

From the Proceedings of the Zoological society of London, June 20, 1893.

**Druce, Hamilton H.** . . . On the Lycænidæ of the Solomon Islands . . . [London] 1891.

357-373 p. xxxi-xxxii col. pl. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, June 2, 1891.

**Kirby, William Forsell.** . . . Descriptions of new species of African Lycænidæ, chiefly from the collections of Dr. Staudinger and Mr. Henley Grose Smith . . . [London] 1890.

[261]-274 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history for September, 1890, ser. 6, vol. vi.

**Scudder, Samuel Hubbard.** . . . Note on the species of Glaucopsyche from eastern North America . . . [Buffalo? 1874]

2 p. 23<sup>cm</sup>.

From the Bulletin of the Buffalo society of natural sciences, vol 1, 1873-74.

**Townsend, Charles Henry Tyler.** . . . Lycænid larva on Atriplex. [Boston, 1893]

1104-1105 p. 23<sup>cm</sup>.

From the American naturalist, December, 1893.

#### PAPILIONIDÆ.

**Behr, Hans Hermann.** . . . The genus *Neophasia* Behr. [San Francisco, 1889]

91-94 p. 25<sup>cm</sup>.

Extract from Proc. Cal. acad. sci., 2d ser. II.

**Elwes, Henry John.** On butterflies of the genus *Parnassius* [London] 1886.

6-53 p. IV pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 19, 1886.

**Gray, George Robert.** Catalogue of lepidopterous insects in the collection of the British museum. Pt. I. Papilionidæ. London, Printed by order of the trustees, 1852.

Agr 4-284

2 p. 1., 84 p. 14 pl. (18 col.) 31<sup>cm</sup>.

**Gray, George Robert.** List of the specimens of lepidopterous insects in the collection of the British museum. By George Robert Gray F. L. S. Pt. I. Papilionidæ. London, Printed by order of the trustees, 1856.

Agr 3-340

2 p. 1., 106 p. 18<sup>cm</sup>.

**Hagen, Hermann August.** *Papilio machaon* . [Boston] 1882.

[105]-109 p. 23<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. xxii, October 25, 1882.

**Westwood, John Obadiah.** . . . Observations on two species of Indian butterflies. (*Papilio castor* and *P. pollux*) . . . [London, 1881]

479-484 p. XLIV-XLV pl. 21<sup>cm</sup>.

From the Proceedings of the Zoological society of London, April 5, 1881.

#### PIERIDÆ.

**Berg, Carlos.** . . . Révision et description des espèces argentines et chiliennes du genre *Tatochila* Butl. . . Buenos Aires, 1895.

[217]-255 p. illus. 27<sup>cm</sup>.

From Anales del Museo nacional de Buenos Aires. Tomo IV, p. 217 & 255.

**Beutenmüller, William.** Revision of the species of *Euchloë* inhabiting America, north of Mexico . . . New York, 1898.

235-248 p. XIII-XIV pl. 24<sup>cm</sup>.

Author's edition, extracted from Bulletin of the American museum of natural history. vol. x, pp. 235-248.

**Butler, Arthur Gardiner.** . . . Descriptions of four new species of diurnal Lepidoptera of the genus *Thyca* . . . [London] 1869.

3 p. 21<sup>cm</sup>.

From the Annals and magazine of natural history for October, 1869.

**Butler, Arthur Gardiner.** Descriptions of some new species and a new genus of Pierinæ, with a monographic list of the species of *Ixias* . . . [London, 1871]

[250]-254 p. 1 col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, March 7, 1871.

**Butler, Arthur Gardiner.** . . . A review of the Dismorphina of the new world, with descriptions of new species . . . [London] 1899.

[373]-393 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. III, May, 1899.

**Butler, Arthur Gardiner.** . . . A revision of the pierine genus Huphina, with notes on the seasonal phases and descriptions of new species . . . [London] 1899.

[201]-214 p. 21<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. III, March, 1899.

**Butler, Arthur Gardiner.** A synonymic list of the species formerly included in the genus Pieris; with all others described since the subdivision of the group by recent authors . . . [London] 1872.

26-67 p. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 16, 1872.

**Hagen, Hermann August.** . . . Contributions from the northern transcontinental survey. The genus Colias . . . [Boston] 1882.

[150]-178 p. 23<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. XXII.

**Hoffmeister, August W.** Report on noxious insects . . . [Des Moines, 1880] 82-85 p. 23<sup>cm</sup>.

On Pieris rapæ.

From the Report of the Iowa state horticultural society for 1879, vol. 14, 1880.

**Nicéville, Lionel de.** . . . A revision of the pierine butterflies of the genus Percas . . . [London] 1898.

[478]-484 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. II, December, 1898.

**Scudder, Samuel Hubbard.** . . . The introduction and spread of Pieris rapæ in North America, 1860-1885. By Samuel H. Scudder. Boston, Pub. by the Society, 1887.

Agr 3-360

cover-title, 58-69 p. 1 fold. map. 30<sup>cm</sup>.

"Bibliography:" p. 68-69.

From Memoirs of the Boston society of natural history; vol. IV.

**Scudder, Samuel Hubbard.** Notice of some North American species of Pieris . . . [Boston, 1861]

8 p. 24<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. VIII., September, 1861, p. 178-185.

**Scudder, Samuel Hubbard.** . . . On the genus Colias in North America . . . [Boston, 1862]

103-110 p. illus. 23<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. IX, September, 1862.

**Urech, Friedrich.** . . . Beobachtungen über die zeitliche succession des Auftretens der farbenfelder auf den puppenflügelchen von Pieris brassicæ . . . [Leipzig?] 1892]

13 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 397 u. 398, 1892.

**Vollenhoven, Samuel Constantius Snellen van.** Essai d'une faune entomologique de l'archipel Indo-Néerlandais, par S. C. Snellen van Vollenhoven . . . Seconde monographie: famille des piérides . . . La Haye, M. Nijhoff, 1865.

2 p. l., 70, [5] p. 7 pl. (6 col.) 32<sup>cm</sup>.

Plates wanting.

#### HESPERIDÆ.

**Elwes, Henry John.** . . . A revision of the oriental Hesperidiæ. By H. J. Elwes . . . and James Edwards, F. E. S. Received April 14, 1896; read June 2, 1896. <Plates XVIII-XXVII.> [London, 1897]

Agr 3--334

[101]-324 p. 10 pl. (partly col.) 32<sup>cm</sup>.

Caption title.

From "The Transactions of the Zoological society of London," vol. XIV. Pt. IV, October, 1897.



**Scudder, Samuel Hubbard.** . . . The species of the lepidopterous genus *Pamphila*. By Samuel H. Scudder. Boston, Pub. by the society, 1874. Agr 3—361  
cover-title, 341-353 p. 2 pl. (1 col.) 23½cm.  
From *Memoirs of the Boston society of natural history*, vol. II.

**Scudder, Samuel Hubbard.** . . . The two principal groups of *Urbicolæ* (*Hesperidæ* auct.) . . . [Buffalo, 1873]  
2 p. 24cm.  
From the *Bulletin of the Buffalo society of natural sciences*, vol. I.

MEGATHYMIIDÆ.

**Riley, Charles Valentine.** Additional notes on *Megathymus yuccæ* . . . [St. Louis, 1878]  
23-25 p. pl. 23½cm.  
From the *Transactions of the Academy of science of St. Louis*, vol. III, no. 4, p. 566-568.

**Riley, Charles Valentine.** Notes on the yucca borer (*Megathymus yuccæ*) . . . St. Louis, 1876.  
23 p. illus. 22½cm.  
From the *Transactions of the Academy of science of St. Louis*, vol. III, January, 1876.

HETEROCCRA.

**Aurivillius, Per Olof Christopher.** . . . *Lepidoptera Heterocera*. 2. Stockholm, 1904.

68 p. illus., col. pl. 21¼cm. (Beiträge zur kenntnis der insektenfauna von Kamerun, n:o 11)  
From *Arkiv för zoologi utgifvet af K. Svenska vetenskapsakademien*, bd. 2, n:o 4.  
For pt. I of this article see *Entomologisk tidskrift*, vol. 23, p. 273, 1902.

**Beutenmüller, William.** Notes on some North American moths, with descriptions of new species . . . New York, 1893.  
19-26 p. 22¼cm.  
Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. v, article II, p. 19-26.

**Beutenmüller, William.** Notes on some species of North American moths . . . New York, 1897.  
209-212 p. illus. 24¼cm.  
Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. IX, article XIV, p. 209-212

**Beutenmüller, William.** Notes on transformations of some North American moths . . . New York, 1893.  
87-94 p. 24¼cm.  
Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. v, article VIII, p. 87-94.

**Beutenmüller, William.** On the earlier stages of some species of North American moths . . . New York, 1892.  
65-70 p. 24¼cm.  
Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. IV, no. 1, article VIII, p. 65-70.

**Biologia centrali-americana.** *Insecta. Lepidoptera-Heterocera* . . . by Herbert Druce . . . [London, Pub. for the editors by R. H. Porter] 1881-1900. Agr 5—503  
. 3 v. 101 col. pl. 32cm.  
Issued in parts.

Cover-titles: *Biologia centrali-americana*; or, *Contributions to the knowledge of the fauna and flora of Mexico and Central America*. Ed. by F. Ducane Godman and Osbert Salvin.  
Aug. 1898-1900, ed. by F. Ducane Godman.  
CONTENTS.—I-II. Text.—III. Plates.

**Boisduval, Jean Alphonse.** *Histoire naturelle des insectes: species général des lépidoptères hétérocères* par MM. Boisduval et Guénéé. Tome 1. *Sphingides, sésiiides, castnides*, par M. le Dr J.-A. Boisduval . . . Paris, Roret, 1874. Agr 3—772  
2 p. I., iv, 568, 4 p. 11 col. pl. 21cm.

**British museum.** Catalogue of the Lepidoptera Phalænæ in the British museum . . . London, Printed by order of the trustees, 1898-1901.

v. 1-5 and 3 atlases of col. plates. illus., 3 fold, tab. 23<sup>cm</sup>.

CONTENTS.—vol. I. Catalogue of the Syntomidæ in the collection of the British museum. By Sir George F. Hampson . . . 1898.—vol. II. Catalogue of the Arctiadae (Nolinæ, Lithosiinæ) in the collection of the British museum. By Sir George F. Hampson . . . 1900.—vol. III. Catalogue of the Arctiadae (Arctiinae) and Agaristidæ in the collection of the British museum. By Sir George F. Hampson . . . 1901.—vol. IV-V. Catalogue of the Noctuidæ in the collection of the British museum. By Sir George F. Hampson. 1903-05.

**British museum.** Illustrations of typical specimens of Lepidoptera Heterocera in the collection of the British museum. Part I-IX. London, Printed by order of the trustees, 1877-93.

9 pts. CLXXVI col. pl. 33<sup>cm</sup>.

CONTENTS.—pt. I-III. By Arthur Gardiner Butler.—pt. IV. North-American Tortricidæ. By Lord Walsingham.—pt. V-VII. By Arthur Gardiner Butler.—pt. VIII. The Lepidoptera Heterocera of the Nilgiri district. By George Francis Hampson.—pt. IX. The Macrolepidoptera Heterocera of Ceylon. By George Francis Hampson.

**Butler, Arthur Gardiner.** Illustrations of typical specimens of Lepidoptera Heterocera in the collection of the British museum. Part I-III, V-VII. London, Printed by order of the trustees, 1877-89.

6 pts. col. pl. 33<sup>cm</sup>.

**Coleman, N.** Notes on the larvæ of certain heterocerous Lepidoptera . . . [Boston, 1882]

28-29 p. 22<sup>cm</sup>.

From the Journal of the Boston zoölogical society, vol. 1, no. 3.

**Cotes, Everard Charles.** A catalogue of the moths of India, comp. by E. C. Cotes . . . and Colonel C. Swinhoe . . . Calcutta, 1887.

pt. 1-2. 24<sup>cm</sup>.

Paged continuously; pt. 1. 1 p. 1., 40 p.; pt. 2: 1 p. 1., [41]-255 p.

CONTENTS.—pt. I. Sphinges. pt. II. Bombyces.

**Dewitz, Hermann.** Afrikanische nachtschmetterlinge. Von Dr. H. Dewitz, M. A. N. Mit 2 tafeln nr. II-III. Eingegangen bei der Akademie den 29. december 1879. Halle, 1881.

81 p. 2 pl. 32<sup>cm</sup>. (Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher, bd. XLII, nr. 2)

**Distant, William Lucas.** Some apparently undescribed species of Heterocera from the Transvaal. [London] 1899.

[359]-362 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. iv, November, 1899.

**Druce, Herbert.** . . . Description of a new genus and some new species of Heterocera from Central America . . . [London] 1892-94.

pt. [1-2] 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 6, vol. xi, p. [275]-279, April, 1892, vol. XIII, p. [168]-182, February, 1894.

**Druce, Herbert.** . . . Description of some new species of Heterocera . . . [London] 1898-1901.

pts. [1-4] 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. 4, p. [146]-149, February, 1898; [207]-215, March, 1898; vol. iv, p. [200]-205, September, 1899; vol. vii, p. [74]-79, January, 1901.

**Druce, Herbert.** . . . Descriptions of a new genus and some new species of Heterocera . . . [London] 1882.

[777]-782 p. LX-LXI col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, December 19, 1882.

**Druce, Herbert.** Descriptions of new species of Lepidoptera Heterocera chiefly from South America . . . [London] 1885.

618-536 p. XXXII-XXXIII col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, May 19, 1885.

- Druce, Herbert.** . . . Descriptions of new species of Lepidoptera Heterocera from Central and South America . . . [London, 1890]  
493-520 p. XLII-XLIII col. pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, June 17, 1890.
- Druce, Herbert.** Descriptions of new species of Lepidoptera Heterocera from Central and South America . . . [London] 1893.  
280-311 p. XIX-XXI col. pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, March 28, 1893.
- Druce, Herbert.** Descriptions of new species of Zygaenidæ and Arctiidæ . . . [London] 1883.  
372-384 p. XXXIX-XI col. pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, June 5, 1883.
- Druce, Herbert.** . . . Descriptions of some new genera and species of Heterocera from Central and tropical South America . . . [London] 1896.  
[28]-42 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 6, vol. XVIII, July, 1896.
- Druce, Herbert.** . . . Descriptions of some new genera and species of Heterocera from tropical South America . . . [London] 1900.  
[507]-527 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. v, June, 1900.
- Druce, Herbert.** Descriptions of some new species of Heterocera from tropical Africa . . . [London] 1886-96.  
2 pts. XXVII-XXVIII col. pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, June 29, 1886, p. 409-411, and the Annals and magazine of natural history, ser. 6, vol. XVII, May, 1896, p. 351-356.
- Druce, Herbert.** . . . Descriptions of some new species of Heterocera from tropical America . . . [London] 1895-1899.  
3 pts. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 6, vol. XVI, July 1895, p. [36]-39; vol. XX, September 1897, p. [299]-305; ser. 7, vol. III, April, 1899, p. [293]-302.
- Druce, Herbert.** . . . Descriptions of some new species of Heterocera from tropical America, Africa, and the Eastern Islands . . . [London] 1899.  
2 pts. 21<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. III, March, 1899, p. [228]-236; June, 1899, p. [465]-474.
- Druce, Herbert.** . . . Descriptions of some new species of Heterocera from tropical South America . . . [London] 1900.  
[64]-67 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. VI, July, 1900.
- Druce, Herbert.** . . . Descriptions of some new species of Lepidoptera, chiefly from South America . . . [London] 1903.  
[196]-203 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. XI, February, 1903.
- Druce, Herbert.** . . . Descriptions of some new species of Lepidoptera Heterocera from tropical South America . . . [London] 1904.  
[241]-250 p. 21<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. XIII, April, 1904.
- Druce, Herbert.** Descriptions of some new species of Lepidoptera Heterocera mostly from tropical Africa . . . [London] 1887.  
668-686 p. 1 col. pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, December 20, 1887.
- Druce, Herbert.** . . . List of the Lepidoptera Heterocera collected by Mr. C. M. Woodford at Suva, Viti Levu, Fiji Islands, with the descriptions of some new species . . . [London] 1888.  
219-231 p. 1 col. pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, April 17, 1888.

**Druce, Herbert.** List of the Lepidoptera Heterocera, with descriptions of the new species, collected by Mr. C. M. Woodford at Aola, Guadalcanar Island, Solomon Islands . . . [London] 1888.

570-580 p. 1 col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, December 18, 1888.

**Druce, Herbert.** . . . On a collection of Heterocera, from Dominica . . . [London, 1884]

321-326 p. 1 col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, May 6, 1884.

**Duncan, James.** . . . Entomology. British moths, sphinxes, etc. By James Duncan, M. W. S., etc. London, H. G. Bohn, 1866. Agr 3-51

4 p. l., [17]-268 p. front. (port.) 30 col. pl. 17½<sup>cm</sup>. (The naturalist's library. Ed. by Sir William Jardine . . . [Reprint] vol. xxx)

Engr. half t.-p.

Reprint of his The natural history of British moths, sphinxes, etc. 1836.

"Memoir of Maria Sibilla Merian": p. [17]-46.

**Duncan, James.** . . . Entomology. Exotic moths. By James Duncan . . . Edinburgh, W. H. Lizars; [etc., etc.] 1858. Agr 3-55

4 p. l., [17]-229 p. front. (port.) 30 (*i. e.* 31) pl. (partly col., 1 fold.) 1 facsim. 17½<sup>cm</sup>. (The naturalist's library. Ed. by Sir William Jardine . . . [Reprint] vol. xxxii)

Engr. half t.-p.

Reprint of his The natural history of exotic moths. 1841.

"Memoir of Latreille": p. [17]-60.

"Chronological list of Latreille's publications": p. 53-60.

**Duncan, James.** The natural history of British moths, sphinxes, &c. Illustrated by thirty-two plates; with memoir and portrait of Madam Merian. By James Duncan, M. W. S. Edinburgh, W. H. Lizars; [etc., etc.] 1836. Agr 3-52

xv, [17]-268 p. front. (port.) 30 col. pl. 18<sup>cm</sup>. (The naturalist's library. Conducted by Sir William Jardine . . . Entomology. vol. iv)

Engr. half t.-p.

**Duncan, James.** The natural history of exotic moths. By James Duncan, M. W. S. Illustrated by thirty-four coloured plates, with portrait and memoir of Latreille. Edinburgh, W. H. Lizars; [etc., etc.] 1841.

2 p. l., [ix]-xv, [17]-229 p. front. (port.) 30 (*i. e.* 31) pl. (partly col.) 1 facsim. 18<sup>cm</sup>. (The naturalist's library. Conducted by Sir William Jardine . . . Entomology. vol. viii)

Engr. half t.-p.

"Chronological list of Latreille's publications": p. 53-60

**Dyar, Harrison Gray.** . . . Life histories of some North American moths . . . Washington, 1900.

255-284 p. 25<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxxiii, p. 255-284. <No. 1209>

**Eliot, Ida Mitchell.** Caterpillars and their moths, by Ida Mitchell Eliot and Caroline Gray Soule; with illustrations from photographs of living caterpillars and spread moths by Edith Eliot. New York, The Century co., 1902. 2-22496

xiii, 302 p. pl. 21<sup>cm</sup>.

**Elwes, Henry John.** On some new moths from India . . . [London] 1890.

378-401 p. xxxii-xxxiv pl. (2 col.) 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, May 6, 1890.

**French, George Hazen.** Analytical tables of the moths of Illinois belonging to the families Sphingidae, Zygaenidae and Bombycidae. Carbondale, Ill., 1880.

26-47 p. 22<sup>cm</sup>.

From the Sixth annual report of the principal to the Board of trustees of the Southern Illinois normal university.

**Froggatt, Walter Wilson.** . . . Wood moths: with some account of their life-histories . . . [Sydney] 1894.

[375]-383 p. 23<sup>cm</sup>.

From vol. ix. (series 2nd) of the "Proceedings of the Linnean society of New South Wales" (June 27th, 1894)

**Great Britain**—*Board of agriculture*. . . Moths on fruit trees. The winter moth. [London, 1894]

2 p. illus. 22<sup>cm</sup>. (*Its* [Leaflet] 1894 [no.] 8)

**Grote, Augustus Radcliffe**. List of the North American Platypterices, Attaci, Hemileucini, Ceratocampadæ, Lachneides, Tereidines and Hepiali, with notes. . . [Philadelphia, 1876]

9 p. 23<sup>cm</sup>.

From the Proceedings of the American philosophical society, 1876, vol. 14, p. 256-264.

**Grote, Augustus Radcliffe**. New check list of North American moths, by Aug. R. Grote . . . [n. p.] 1882.

cover-title, [3]-73 p. 23<sup>cm</sup>.

**Grote, Augustus Radcliffe**. New moths, with a partial catalogue of Noctuæ; and new moths, principally collected by Mr. Roland Thaxter in Maine, with notes on noxious species and remarks on classification . . . Washington, 1882.

563-591 p. 23<sup>cm</sup>.

Author's edition, extracted from the Bulletin of the United States geological and geographical survey, vol. VI, no. 3.

**Grote, Augustus Radcliffe**. . . North American moths with a preliminary catalogue of species of *Hadena* and *Polia* . . . Washington, 1881.

[257]-277 p. 22½<sup>cm</sup>.

Author's edition, extracted from the Bulletin of the United States geological and geographical survey, vol. VI, no. 2.

**Guenée, Achille**. *Europæorum microlepidopterorum index methodicus, sive Pyrales, Tortrices, Tineæ et Alucitæ Linnæi, secundùm novum naturalemque ordinem dispositæ, nominibus genuinis restitutis, synonymia accuratè elucidata, locis indicatis, novisque speciebus aut larvis brevè descriptis. Auctore A. Guenée . . . Pars prima; sistens tortrices, phycidas, crambidas, tinearumque initium. Parisiis, a. . . Roret, 1845.*

Agr 3-341

2 p. 1., VI, 106 p. 21¼<sup>cm</sup>.

**Hampson, George Francis**. Illustrations of typical specimens of Lepidoptera Heterocera in the collection of the British museum. Part VIII.—The Lepidoptera Heterocera of the Nilgiri district. By George Francis Hampson. London, Printed by order of the trustees, 1891.

iv, 144 p. CXXXIX-CLVI col. pl. 33<sup>cm</sup>.

**Hampson, George Francis**. Illustrations of typical specimens of Lepidoptera Heterocera in the collection of the British museum. Part IX.—The macrolepidoptera Heterocera of Ceylon. By George Francis Hampson. London, Printed by order of the trustees, 1893.

v, 182 p. CLVII-CLXXVI col. pl. 33<sup>cm</sup>.

**Hampson, Sir George Francis, 10th bart.** . . . The Lepidoptera-Phalænæ of the Bahamas . . . [London] 1901.

[246]-261 p. 22<sup>cm</sup>.

From the *Annals and magazine of natural history*, ser. 7, vol. VII, March 1901.

**Hampson, Sir George Francis, 10th bart.** . . . Moths . . . By G. F. Hampson. London, Taylor and Francis; [etc., etc.], 1892-96.

4 v. illus. 23<sup>cm</sup>. (The fauna of British India, including Ceylon and Burma. Published under the authority of the Secretary of state for India in council. Ed. by W. T. Blanford) 1-26626

**Harvey, Leon F.** . . . Observations on North American moths . . . [Buffalo] 1874-75.

2 pts. 22¼<sup>cm</sup>.

From the Bulletin of the Buffalo society of natural sciences, v. 2, p. 118-121, 270-284.

**Holland, William Jacob**. The moth book; a popular guide to a knowledge of the moths of North America, by W. J. Holland . . . with forty-eight plates in color photography, and numerous illustrations in the text, reproducing specimens in the collection of the author, and in various public and private collections. New York, Doubleday, Page & company, 1903.

3-31233

xxiv, 479 p. illus., XLVIII col. pl. incl. front. 26¼<sup>cm</sup>.

**Kirby, William Forsell.** A synonymic catalogue of Lepidoptera Heterocera. (Moths) By W. F. Kirby . . . Vol. I. Sphingines and Bombyces. London, Gurney & Jackson; [etc., etc.] 1892.

xii, 951 p. 24 $\frac{1}{2}$ cm.

**Leech, John Henry.** . . . Lepidoptera Heterocera from northern China, Japan and Corea. By John Henry Leech. [London, 1898-1901] Agr 4-83

[676] p. 2 col. pl. 21 $\frac{1}{2}$ cm.

From Transactions of the Entomological society of London, 1898, p. 261-379; 1899, p. 99-219; 1900, p. 9-161, 511-663; 1901, p. 385-513.

**Mayer, Alfred Goldsborough.** . . . On the mating instinct in moths . . . London, 1900.

[183]-190 p. 22cm.

From the Annals and magazine of natural history, ser. 7, vol. v, February 1900.

**Meyrick, Edward.** Descriptions of Australian micro-lepidoptera . . . Sydney, F. W. White, 1880-81.

pt. III-VI. 22cm.

From the Proceedings of the Linnean society of New South Wales, vol. v, pt. 2, p. 132-182, 204-272; vol. VI, pt. 3, p. 410-536, 629-706.

**Moore, Frederic.** . . . Descriptions of new genera and species of Asiatic Lepidoptera Heterocera . . . [London, 1879-83]

2 pts. 5 col. pl. 21 $\frac{1}{2}$ cm.

From the Proceedings of the Zoological society of London, May 6, 1879, p. 387-417; Jan. 16, 1883, p. 15-30.

**Moore, Frederic.** Descriptions of new genera and species of Asiatic nocturnal Lepidoptera . . . [London, 1881]

326-380 p. XXXVII-XXXVIII col. pl. 21 $\frac{1}{2}$ cm.

From the Proceedings of the Zoological society of London, March 1, 1881.

**Newman, Edward.** An illustrated natural history of British moths. With life-size figures from nature of each species, and of the more striking varieties; also, full descriptions of both the perfect insect and the caterpillar, together with dates of appearance, and localities where found. By Edward Newman. London, W. Tweedie, 1869.

viii, 486 p. illus. 26 $\frac{1}{2}$ cm.

Agr 3-351

**Nickerl, Ottokar.** . . . Die kleinschmetterlinge (microlepidoptera) Böhmens . . . Prag, 1894.

vi, 38 p. 23cm. (On cover: Catalogus insectorum faunæ bohemicæ. Verzeichnis der insekten Böhmen's hrsg. von der Gesellschaft für physiokratie Böhmen. III)

**Packard, Alpheus Spring.** The life histories of certain moths of the families Ceratocampidæ, Hemileucidæ, etc., with notes on the armature of the larvæ . . . [Philadelphia] 1893.

139-192 p. illus., v-xi pl. 23 $\frac{1}{2}$ cm.

Reprinted May 18, 1893, from the Proceedings of the American philosophical society, vol. XXXI.

**Peters, H. T.** Die heteroceren-raupen (und -puppen) des H. T. Peters'schen manuskriptwerkes: Biologische beiträge zur brasilianischen schmetterlings-fauna . . . Neudamm, 1898-1901.

12 p. 25 $\frac{1}{2}$ cm.

**Reuter, Enzo.** . . . Bidrag till kannedomen om microlepidopter-faunan i Ålands och Åbo skärgårdar . . . I. Pyralidina, Tortricina . . . Helsingfors, 1899.

79 p. 23 $\frac{1}{2}$ cm. (Acta Societatis pro fauna et flora fennica, xv. no. 5)

**Schaus, William.** . . . Descriptions of some new species of Heterocera . . . [London, 1901]

[265]-270 p. 22cm.

From the Annals and magazine of natural history, ser. 7, vol. VII, March 1901.

**Sharpe, Emily Mary.** . . . Descriptions of two new moths collected by Dr. Christy on the upper Niger . . . [London, 1899]

[371]-373 p. 22cm.

From the Annals and magazine of natural history, ser. 7, vol. III, May 1899.

**Snow, Francis Huntington.** Three noxious insects. The forest hand-maid moth, the maple worm, and the codling moth . . . [Topeka, Kan., 1884]

93-101 p. illus. 22½<sup>em</sup>.

From Quarterly report of the Kansas State board of agriculture, for the quarter ending December 31, 1883.

**Swinhoe, Charles.** Catalogue of eastern and Australian Lepidoptera Heterocera in the collection of the Oxford university museum, by Colonel C. Swinhoe . . . Oxford, At the Clarendon press, 1892-1900.

2 v. 16 col. pl. 23<sup>em</sup>.

CONTENTS.—pt. I. Sphinges and Bombyces.—pt. II. Noctuina, Geometrina and Pyralidina, by Colonel C. Swinhoe. Pterophoridaæ and Tineina, by the Right Hon. Lord Walsingham . . . and John Hartley Durrant.

**Swinhoe, Charles.** . . . New species of eastern and Australian moths . . . [London, 1900]

[305]-313 p. 23<sup>em</sup>.

From the Annals and magazine of natural history, ser. 7, vol. vi, September 1900.

**Walker, Francis.** Characters of undescribed Lepidoptera Heterocera. By Francis Walker, F. L. S. London, E. W. Janson, 1869.

2 p. l., 112 p. 21<sup>em</sup>.

**Walsingham, Thomas De Grey, 6th lord.** On the micro-lepidoptera of the West Indies . . . [London, 1891]

492-549 p. pl. 22½<sup>em</sup>.

From the Proceedings of the Zoological society of London, November 17, 1891.

**Walsingham, Thomas De Grey, 6th lord.** Revision of the West-Indian micro-lepidoptera, with descriptions of new species . . . [London, 1897]

54-183 p. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, January 19, 1897.

**Zeller, Philipp Christoph.** Beiträge zur kenntniss der nordamerikanischen nachtfalter, besonders der microlepidopteren . . . [Wien, 1872-75]

3 pts. 7 pl. 22<sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <Jahrgang 1872, 1873, 1875> besonders abgedruckt.

#### SPHINGIDÆ.

**Anthony, Arthur C.** New England Philampeli . . . [Boston, 1882]

18-19 p. 22<sup>em</sup>.

From the Journal of the Boston zoölogical society, v. 1, no. 2.

**Beutenmüller, William.** Descriptive catalogue of the Sphingidæ found within fifty miles of New York city . . . New York, 1895.

275-320 p. II-VII pl. 25<sup>em</sup>.

Author's edition, extracted from Bulletin of the American museum of natural history, vol. VII, article VIII, pp. 275-320.

**Beutenmüller, William.** The hawk-moths of the vicinity of New York city; a guide leaflet to the collection on exhibition in the American museum of natural history, by William Beutenmüller . . . [New York], Pub. by the museum, 1903,

31 p. illus. 25<sup>em</sup>. (Guide leaflet no. 10)

Agr 3-416

Supplement to the American museum journal, vol. III, no. 2, February 1903.

**Beutenmüller, William.** Transformations of some North American hawk-moths . . . New York, 1896.

291-298 p. 24½<sup>em</sup>.

Author's edition, extracted from Bulletin of the American museum of natural history, vol. VIII, article XIX, pp. 291-298.

**Butler, Arthur Lennox.** Report on the caterpillars of Cephonodes hylas attacking the coffee in the district of Sungei Ujong, Negri Sembilan . . . [n. p., 1900]

4 p. 29½<sup>em</sup>.

**Fernald, Charles Henry.** The Sphingidæ of New England. [By] C. H. Fernald, A. M. Orono, February, 1886. Augusta, Sprague & son, printers to the state, 1886. Agr 5—150

85 p., 1 l. vi pl. 23<sup>cm</sup>.

**Giard, Alfred.** Évolution d'Acherontia atropos. Rennes, 1903.

4 p. 26<sup>cm</sup>.

From La feuille des jeunes naturalistes, IV<sup>e</sup> série, 33<sup>e</sup> année, n<sup>o</sup> 391, 1<sup>er</sup> mai 1903, p. 124-127.

**Grote, Augustus Radcliffe.** . . . New check list of North American Sphingidæ . . . [Buffalo] 1877.

220-225 p. 22<sup>4</sup><sup>cm</sup>.

From the Bulletin of the Buffalo society of natural sciences, vol. III, no. 5, 1877.

**Newman, Edward.** Sphinx vespiformis: an essay by Edward Newman . . . London, F. Westley & A. H. Davis, 1832. Agr 3—198

54, [1] p. 3 fold. diagr. 22<sup>4</sup><sup>cm</sup>.

**Rothschild, Hon. Walter i. e. Lionel Walter.** . . . A revision of the lepidopterous family Sphingidæ. By the Hon. Walter Rothschild, PH. D., and Karl Jordan . . . Issued at the Zoological museum, Tring, March 1903. London and Aylesbury, Printed by Hazell, Watson & Viney, ld., 1903. Agr 3—890

2 v. 67 pl. (7 col.) fold. tables. 28<sup>4</sup><sup>cm</sup>. (Novitates zologicæ. Vol. IX. Supplement)

Paged continuously; [v. 1]: cxxxv, 813 p.; [v. 2]: 2 p. l., 815-972 p., 67 l.

Issued in two volumes having identical title-pages, without volume numbers.

#### CASTNIIDÆ.

**Druce, Herbert.** . . . Descriptions of five new species of Castnia from tropical South America [London] 1896.

[216]-218 p. 21<sup>4</sup><sup>cm</sup>.

From the Annals and magazine of natural history, ser. 6, vol. xvii, March 1896.

**Westwood, John Obadiah.** . . . Descriptions of some new exotic species of moths . . . [London, 1881]

141-145 p. illus. XII-XIII col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 4, 1881.

**Westwood, John Obadiah.** . . . A monograph of the lepidopterous genus Castnia and some allied groups . . . Read June 17th, 1875. [London, 1875]

[155]-207 p. xxviii-xxxiii pl. (partly col.) 29<sup>4</sup><sup>cm</sup>.

Extracted from the "Transactions of the Linnean society of London," second series—Zoology, vol. I.

#### URANIIDÆ.

**Camboué, R. Paul.** Sur l'Urania rhipheus . . . [Москва, n. d.]

5 p. 22<sup>4</sup><sup>cm</sup>.

**Westwood, John Obadiah.** . . . Observations on the Uraniidæ, a family of lepidopterous insects, with a synopsis of the family and a monograph of Coronidia, one of the genera of which it is composed . . . Received March 18th, read April 16th, 1878. [London, 1879]

[507]-542 p. lxxxv-lxxxviii pl. (partly col.) 31<sup>4</sup><sup>cm</sup>.

From the Transactions of the Zoological society, vol. X, pt. XII. 1879.

#### SATURNIDÆ.

**Hagen, Hermann August.** On Attacus (Samia) columbia and its parasites . . . [Buffalo] 1875.

201-208 p. 23<sup>cm</sup>.

From the Bulletin of the Buffalo society of natural sciences, v. 2.

**Packard, Alpheus Spring.** . . . Aglia tau, a connecting-link between the Cera-  
tocampidæ and Saturniidæ, and the type of a new subfamily, Agliinæ . . . [Lon-  
don] 1893.

[172]-175 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 6, vol. XI, February 1893.



**Packard, Alpheus Spring.** Studies on the transformations of moths of the family Saturniidae . . . [Boston] 1893.

55-92 p. illus., III pl. 23½<sup>cm</sup>.

From the Proceedings of the American academy of arts and sciences, vol. XXVIII, 1893.

**Smith, John Bernhard.** A revision of the lepidopterous family Saturniidae . . . [Washington, 1887]

414-437 p., 3 l. XII-XIV pl. 25<sup>cm</sup>.

From Proceedings of United States national museum, vol. IX, p. 414-437.

**Smith, Sidney Irving.** Description of a species of *Samia*, supposed to be new, from Norway, Me. . . . [Boston, 1865]

[342]-346 p. 22¼<sup>cm</sup>.

Notes on two ichneumons parasitic on *Samia columbia*. By A. S. Packard, jun.: p. 345-346.

From the Proceedings of the Boston society of natural history, vol. IX, March, 1865.

**Strecker, Herman, i. e. Ferdinand Heinrich Herman.** The larva of *Samia gloveri*, Streck. . . . [Davenport, Ia., 1880]

276-278 p. 24<sup>cm</sup>.

From Proceedings of the Davenport academy of natural sciences, vol. II, 1876-78.

**Townsend, Charles Henry Tyler.** Notes on *Hemileuca*. . . . [San Diego, Cal., 1893]

51-53 p. 23¼<sup>cm</sup>.

From the West American scientist, vol. VIII, p. 51-53.

#### SYNTOMIDÆ.

**Druce, Herbert.** . . . Descriptions of some new species of Syntomidæ, chiefly in the Oxford museum . . . [London] 1898.

[401]-408 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. I., May, 1898.

**Hampson, Sir George Francis, 10th bart.** Catalogue of the Syntomidæ in the collection of the British museum. By Sir George F. Hampson, bart. London, Printed by order of the trustees, 1898.

xxi, 559 p. and atlas of XVII col. pl. illus., fold. tab. 23<sup>cm</sup>. (Added t.-p. Catalogue of the Lepidoptera Phalænæ in the British museum. vol. I)

#### ARCTIIDÆ.

**Butler, Arthur Gardiner.** . . . Description of a new genus of heterocerous Lepidoptera, founded upon the *Papilio charmione* of Fabricius . . . [London] 1869.

[43]-45 p. illus. 21¼<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 14, 1869.

**Hampson, Sir George Francis, 10th bart.** Catalogue of the Arctiadae (Arctianæ) and Agariidæ in the collection of the British museum. By Sir George F. Hampson, bart. London, Printed by order of the trustees, 1901.

xix, 690 p. and atlas of 19 col. pl. illus., fold. tab. 23<sup>cm</sup>. (Added t.-p.: Catalogue of the Lepidoptera Phalænæ in the British museum. vol. III)

**Hampson, Sir George Francis, 10th bart.** Catalogue of the Arctiadae (Nolinæ, Lithosianæ) in the collection of the British museum. By Sir George F. Hampson, bart. London, Printed by order of the trustees, 1900.

xx, 589 p. and atlas of 18 col. pl. illus., fold. tab. 23<sup>cm</sup>. (Added t.-p.: Catalogue of the Lepidoptera Phalænæ in the British museum. vol. II)

**Rogenhofer, Alois F.** Ueber die synonymie und die früheren stände von *Earias insulana* B. (*siliquana* H. Sch.) und beschreibung einer neuen art . . . [Wien] 1870.

6 p. 22<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien (jahrgang 1870) besonders abgedruckt.

- Silvestri, Filippo.** . *L'Ocnogina betica* (*Ocnogyna bæticum* Ramb.) conosciuta volgarmente allo stato larvale col nome di bruco peloso. Portici, 1905.  
12 p. illus. 26<sup>cm</sup>. (R. Scuola superiore d'agricoltura in Portici (Laboratorio di entomologia agraria) Bolletino N. 10—serie II)
- Smith, John Bernhard.** The North American species of *Callimorpha* Latr. . .  
[Washington, 1888]  
338-353 p. pl. 24½<sup>cm</sup>.  
From Proceedings of United States national museum, vol. x, p. 338-353.
- Smith, John Bernhard.** The species of *Euerhythra* Harv. [Washington, 1888]  
335-337 p. pl. 24½<sup>cm</sup>.  
From Proceedings of United States national museum, vol x, p. 335-337.
- Strecker, Herman, i. e., Ferdinand Heinrich Herman.** On some hybrids between *Callimorpha lecontei*, Bdl., and *C. interrupto-marginata*, De Beauv., figured on plate iv, figs. 5, 6, 7 . . . [Davenport, Ia., 1880]  
275-276 p. pl. 24<sup>cm</sup>.  
From Proceedings of the Davenport academy of natural sciences, vol. II, 1876-78.

## ZYGAENIDÆ.

- Boisduval, Jean Alphonse.** Essai sur une monographie des zygénides, suivi du tableau méthodique, des lépidoptères d'Europe; par. M. J. A. Boisduval . . . Paris, Méquignon-Marvis [etc., etc.] 1829.  
2 p. l., xxvi, 132 p. 8 col. pl. 20<sup>cm</sup>.  
"Table des principaux auteurs cités dans la monographie ou dans le catalogue:" p. xxi-xxvi.
- Packard, Alpheus Spring.** . . New American moths; *Zygænidæ* and *Bombycidæ* . . . [Salem] 1872.  
8 p. 22<sup>cm</sup>.  
From the Annual report of the Peabody academy of science for 1871, p. 84-91, published April, 1872.
- Packard, Alpheus Spring.** . . Notes on the family *Zygænidæ* . . . [Salem] 1854.  
7-47 p. 2 pl. 23½<sup>cm</sup>.  
From the Proceedings of the Essex institute, vol. iv, no. 1, April, 1864.
- Stretch, Richard H.** Illustrations of the *Zygænidæ* & *Bombycidæ* of North America, by Richard H. Stretch. vol. I. pt. 1 to 9. July 1872 to Dec. 1873. [San Francisco, 1872-73]  
vii, [iii]-iv, [5]-242 p., 10 l. 10 col. pl. 24½<sup>cm</sup>.

## AGARISTIDÆ.

- Butler, Arthur Gardiner.** . . . Notes on certain genera of *Agaristidæ*, with descriptions of new species . . . [London] 1875.  
[135]-144 p. 1 pl. 22½<sup>cm</sup>.  
From the Annals and magazine of natural history for February 1875.
- Druce, Herbert.** . . . Descriptions of some new species of *Agaristidæ* . . . [London] 1894.  
[21]-24 p. 21½<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 6, vol. xiv., July 1894.
- Hampson, Sir George Francis, 10th bart.** Catalogue of the *Arctiidæ* (*Arctianæ*) and *Agaristidæ*. See under *Arctiidæ*, p. 337.

## NOCTUIDÆ.

- Alabama—Commissioner of agriculture.** "The boll worm" and "the cotton worm" . . . Auburn, Ala., 1885.  
51 p. vii-viii col. pl. 22<sup>cm</sup>. (Bulletin no. 8, of the State department of agriculture)

**Berg, Carlos.** . . . Sur la distribution géographique de l'Ophioderes materna (L.) Bsd. . . . Buenos Aires [1896]

[28]-24 p. 27<sup>cm</sup>

From Anales del Museo nacional de Buenos Aires. Tomo v, p. 23 à 24.

**Beutenmüller, William.** . . . Descriptive catalogue of the Noctuidæ found within fifty miles of New York City . . . New York, 1901-02.

2 pts. illus. 25<sup>cm</sup>.

Author's edition, extracted from Bulletin of the American museum of natural history, vol. xiv, article xx, p. 229-312; vol. xvi, article xxxiii, p. 418-458.

**Beutenmüller, William.** Notes on some species of Catocala . . . New York, 1903.

505-510 p. 24 $\frac{1}{2}$ <sup>cm</sup>.

Author's edition, extracted from Bulletin of the American museum of natural history, vol. xix, article xix, pp. 505-510.

**Bruner, Lawrence.** Army worms in Nebraska. [Lincoln, n. d.]

1 p. illus. 83 $\frac{1}{2}$  x 18<sup>cm</sup>.

**Butler, Arthur Gardiner.** . . . Revision of the noctuid genus Melipotis, Hübn., with descriptions of two new species . . . [London] 1892.

[315]-327 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history for October 1892.

**Chittenden, Frank Hurlbut.** Fall army worm and variegated cutworm. Washington, 1901.

64 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 29)

**French, George Hazen.** Description of two new deltoïd moths . . . Springfield, Ill., 1894.

[9]-10 p. 23 $\frac{1}{2}$ <sup>cm</sup>.

From Bulletin Illinois state laboratory of natural history, vol. iv, 1894. p. 8-9.

**French, George Hazen.** Synopsis of the Catocalæ of Illinois . . . Carbondale, Ill., 1881.

11 p. illus. 21<sup>cm</sup>.

From curator's report in the Seventh annual report of the principal to the Board of trustees of the Southern Illinois normal university.

**French, George Hazen.** Synopsis of the Noctuidæ of Illinois . . . Greenville, Ill., 1882.

31 p. 22 $\frac{1}{2}$ <sup>cm</sup>.

From curator's report in the Eighth annual report of the principal to the Board of trustees of the Southern Illinois normal university.

**Froggatt, Walter Wilson.** The caterpillar plague . . . The climbing cutworm (Phlegetonia carbo, Gn.) Sydney, 1898.

717-719 p. pl. 25<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. ix.

**Froggatt, Walter Wilson.** . . . Caterpillars. The bugong moth (Agrotis infusa, Boisd.) . . . Sydney, 1899.

5 p. 25<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 348)

From Agricultural gazette of N. S. Wales, vol. x, December, 1899.

**Gentry, Thomas G.** Curious anomaly in history of certain larvæ of Acronycta oblongita, Guenee, and hints on phylogeny of Lepidoptera . . . [Philadelphia] 1875.

24-54 p. 22<sup>cm</sup>.

From the Proceedings of the Academy of natural sciences of Philadelphia, v. 27, 1875.

**Great Britain—Board of agriculture.** . . . Surface caterpillars. [London, 1896]

4 p. illus. 22 $\frac{1}{2}$ <sup>cm</sup>. (Its Leaflet no. 33)

— — — [London, 1898]

4 p. illus. 21 $\frac{1}{2}$ <sup>cm</sup>. (Its Leaflet no. 33)

- Grote, Augustus Radcliffe.** Check list of the Noctuidæ of America, north of Mexico, by A. R. Grote . . . Buffalo, N. Y., Reinecke & Zesch, printers, 1875-76.  
2 pts. pl. 22 $\frac{1}{2}$ cm.  
Paged continuously; pt. I, 28 p.; pt. II, [29]-50 p.  
CONTENTS.—pt. I. Bombyciæ and Noctuelitæ (Nonfasciatae).—pt. II. Noctuelitæ (Fasciatae), Deltoides and Noctuo-Phalaenid.
- Grote, Augustus Radcliffe.** The cotton worm . . . [Montgomery, 1876]  
[199]-204 p. 21 $\frac{1}{2}$ cm.  
From Geological survey of Alabama. Report of progress for 1875.
- Grote, Augustus Radcliffe.** . . . Descriptions of Noctuidæ, chiefly from California . . . Washington, 1878.  
169-187 p. 23cm.  
Author's edition, extracted from the Bulletin of the United States geological and geographical survey, vol. IV, no. 1.
- Grote, Augustus Radcliffe.** An illustrated essay on the Noctuidæ of North America; with "A colony of butterflies" . . . London, J. Van Voorst, 1882.  
85 p. IV col. pl. 25 $\frac{1}{2}$ cm.
- Grote, Augustus Radcliffe.** Introduction to a study of the North American Noctuidæ . . . [Philadelphia] 1883.  
134-176 p. 22 $\frac{1}{2}$ cm.  
From the Proceedings of the American philosophical society, vol. XXI.
- Grote, Augustus Radcliffe.** . . . List of the Noctuidæ of North America . . . [Buffalo] 1874.  
77 p. col. pl. 23cm.  
From the Bulletin of the Buffalo society of natural sciences, vol. II, no. 1.
- Grote, Augustus Radcliffe.** . . . Notes on a collection of noctuid moths made in Colorado in 1875 by Dr. A. S. Packard, jr. . . . Washington, 1877.  
115-120 p. 22 $\frac{1}{2}$ cm.  
Author's edition, extracted from the Bulletin of the United States geological and geographical survey, vol. III, no. 1.
- Grote, Augustus Radcliffe.** . . . On allied species of Noctuidæ inhabiting Europe and North America . . . [Buffalo, 1874]  
7 p. 22 $\frac{1}{2}$ cm.  
From the Bulletin of the Buffalo society of natural sciences, 1875, vol. 2, p. 193-200.
- Grote, Augustus Radcliffe.** . . . On certain species of black-winged Catocala . . . [Buffalo] 1877.  
187-188 p. 22 $\frac{1}{2}$ cm.  
From the Bulletin of the Buffalo society of natural sciences, vol. 3, 1877.
- Grote, Augustus Radcliffe.** . . . On Lithophane and new Noctuidæ . . . Washington, 1879.  
201-208 p. 22cm.  
Author's edition, extracted from the Bulletin of the United States geological and geographical survey, vol. V, no. 2.
- Grote, Augustus Radcliffe.** . . . On the cotton worm of the southern states (*Aletia argillacea* Hübner) . . . [Philadelphia, 1874]  
13-18 p. 20cm.  
From the Proceedings of the American association for the advancement of science, Hartford meeting, August, 1874.
- Grote, Augustus Radcliffe.** . . . Preliminary list of the North American species of Agrotis, with descriptions . . . Washington, 1881.  
[149]-164 p. 23 $\frac{1}{2}$ cm.  
Author's edition, extracted from the Bulletin of the United States geological and geographical survey, vol. VI, no. 1.
- Hampson, Sir George Francis, 10th bart.** Catalogue of the Noctuidæ in the collection of the British museum. By Sir George F. Hampson, bart. London, Printed by order of the trustees, 1903-05.  
[pt. 1-2] illus., LV-XCV col. pl. 23cm. (*Added t. p.*: Catalogue of the Lepidoptera Phalaenæ in the British museum, vol. IV-V)  
Plates issued separately.  
CONTENTS.—[pt. 1] Agrotinæ.—[pt. 2] Hadeninæ.

- Howard, Leland Ossian.** Army worm (*Leucania unipuncta* Haw.) Washington, 1894.  
5 p. illus. 23<sup>cm</sup>. (U. S. Agriculture Dept. of—Entomology, Division of. Circular, ser. 2, no. 4)
- Hoyt, J. D.** [Practical modes of destroying the cotton worm.] Selma [1874]  
13 p. illus., pl. 15<sup>cm</sup>.  
On cover: Prize essay. The silver pitcher, offered by H. A. Stollenwerck & bros., for the best essay on the destruction of the caterpillar, awarded to J. D. Holt, Livingston, Ala.
- Ismalun, Albert.** . . . Sommaire communication sur le ravageur du cotonnier, par Albert Ismalun . . . Le Caire, Imprimerie nationale de Boulaq, 1884.  
39 p. 2 col. pl. 22<sup>cm</sup>. (Bulletin du Comité agricole no. 1. Avril 1884)
- Künckel d'Herculais, Jules Philippe Alexandre.** Les lépidoptères à trompe perforante, destructeurs des oranges (ophidères) . . . [Paris, 1875]  
3 p. illus. 27<sup>4</sup><sup>cm</sup>.  
Reprinted from Paris, Acad. sci. Comptes rendus. v. 81, p. 397-400.
- Künckel d'Herculais, Jules Philippe Alexandre.** Les sésamies en Algérie. Observations sur les mœurs de ces noctuelles. Leurs ravages dans les plantations de maïs, de sorgho, de cannes à sucre, etc. . . . Alger, 1897. Agr 4—3560  
16 p. II pl. 23<sup>cm</sup>.  
Pages [3]—8 from L'Algérie agricole, no. 196, 15 février 1897.  
Pages 9-16 from Comptes-rendus des séances de l'Académie des sciences, t. cxxiv, 1897, no. 7, p. 373 (15 février 1897)
- Lederer, Julius.** Die noctuinen Europa's, mit zuziehung einiger bisher meist dazu gezählter arten des asiatischen Russland's, Kleinasien's, Syrien's und Labrador's. Systematisch bearb. von Julius Lederer . . . Wien, Buchdruckerei von F. Manz, 1857.  
xv, 251, [1] p. 4 pl. 22<sup>cm</sup>.
- Lintner, Joseph Albert.** . . . Cut-worms . . . Albany, 1888.  
36 p. illus. 23<sup>cm</sup>. (Bulletin of the New York state museum of natural history, no. 6, November, 1888)
- A List of British Deltoides and Pyralites <according to Guenée> . . . [n. p., n. d.]  
1 p. 21<sup>4</sup><sup>cm</sup>.
- McBryde, John McLaren.** The army worm (*Leucania unipuncta*) [Knoxville, Tenn. 1880]  
76-84 p. 21<sup>4</sup><sup>cm</sup>.  
From Report of the experimental and other work of the School of agriculture . . . of the University of Tennessee . . . 1879/80.
- Mally, Frederick William.** Boll worm of cotton; a report of progress in a supplementary investigation of this insect. Washington, 1891.  
50 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 24)
- Mally, Frederick William.** Report on the boll worm of cotton (*Heliothis armiger* Hübn.) Washington, 1893.  
73 p. 2 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 29)
- Minot, Charles Sedgwick.** . . . Report on the anatomy of *Aletia xyliana*, by Charles Sedgwick Minot and Edward Burgess . . . Washington, 1884.  
45-58 p, 1 l. vi-xi col. pl. 23<sup>cm</sup>.  
Author's edition, extracted from the Fourth report of the U. S. entomological commission, being a report on the Cotton worm, etc.
- Mokrzhet'skiï, Sigismund A.** . . . Biologie de la *Tapinostola muscolosa* Hb. et son invasion. . . . Симферополь, 1896.  
1 p. l., 12 p., 1 l. col. pl. 22<sup>4</sup><sup>cm</sup>.  
Added title and text in Russian.  
Изданіе Таврической губернской земской управы.
- Moniez, Romain Louis.** . . . La chenille du *Neuronia* (*Heliophobus*) popularis dans les environs d'Avesnes en 1894, ses dégâts, ses ennemis naturels, moyens employés pour la détruire . . . Lille, 1894.  
19 p. 25<sup>4</sup><sup>cm</sup>.  
Extrait de la Revue biologique du Nord de la France, vol. vi, no. 12, p. 460, septembre 1894.

- Moore, Frederic.** . . . On the genera and species of the lepidopterous subfamily Ophiderinæ inhabiting the Indian region . . . Received January 19th, read January 20th, 1880. [London, 1881] Agr 3—348  
[68]—76 p. 3 col. pl. 30½<sup>cm</sup>.  
From the Transactions of the Zoological society, vol. xi, part III, 1881.
- Morrison, Herbert Knowles.** . . . Descriptions of new Noctuidæ . [Boston, 1875]  
131—166 p. 23½<sup>cm</sup>.  
From the Proceedings of the Boston society of natural history, 1875, vol. 17, p. 131—166.
- Morrison, Herbert Knowles.** Descriptions of new Noctuidæ [Buffalo, 1875]  
109—117 p. 23<sup>cm</sup>.  
From the Bulletin of the Buffalo society of natural sciences, 1875, vol. 2, p. 109—117.
- Morrison, Herbert Knowles.** Notes on North American Lepidoptera . . . [New York, 1876]  
91—104 p. 23½<sup>cm</sup>.  
From the Annals of the New York lyceum of natural history, vol. xi, p. 91—104, 1876.
- Morrison, Herbert Knowles.** . . . Notes on the Noctuidæ . . . [Boston, 1875]  
[114]—126 p. 22<sup>cm</sup>.  
From the Proceedings of the Boston society of natural history, vol. xviii, p. 114—126.
- Morrison, Herbert Knowles.** . . . On the species of Calocampa . [Buffalo, 1875]  
190—192 p. 23<sup>cm</sup>.  
From the Bulletin of the Buffalo society of natural sciences, 1875, vol. 2, p. 190—192.
- Olliff, Arthur Sidney.** . . . Insect pests. The maize moth (*Heliothis armigera*, Hüb.) . . . Sydney, 1890.  
4 p. pl. 24½<sup>cm</sup>. (New South Wales—Agriculture, Department of. [Publication])
- Packard, Alpheus Spring.** Entomological report on the army worm and grain aphid . . . [Augusta, 1861]  
16 p. 22½<sup>cm</sup>.  
Reprinted from the Sixth annual report of the secretary of the Maine board of agriculture, 1861, p. [130]—145.
- Prout, Louis Beethoven.** *Coremia ferrugaria* Haw. and *Unidentaria* Haw. . . . [London] 1894.  
19 p. 21½<sup>cm</sup>.  
Paper read at the City of London entomological and natural history society, March 20th, 1894.
- [**Prout, O. F.**] Essay on the best mode of using Paris green for the destruction of the cotton caterpillar. By an Alabama planter. [n. p., 1873]  
10 p. 21<sup>cm</sup>.
- Quaintance, Altus Lacy.** Cotton bollworm; an account of the insect, with results of experiments in 1903. Washington, 1904.  
24 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 191)
- Reuter, Odo Morannal.** Zur kenntniss der geographischen verbreitung der graseule in Finnland . . . [Helsingfors, 1892]  
10 p. fold. pl. 24½<sup>cm</sup>.  
From Fennia, vol. v, no. 12.
- Riley, Charles Valentine.** Additional notes on the army worm (*Leucania unipuncta*) . . . <Abstract> Salem, 1881.  
24—26 p. 25<sup>cm</sup>.  
From the Proceedings of the American association for the advancement of science, vol. xxix, Boston meeting, August, 1880.
- Riley, Charles Valentine.** [Address on the cotton worm before the Cotton convention at Atlanta, Nov. 2, 1881; with discussion] (U. S. Agriculture, Dept. of. Address of Hon. George B. Loring . . . and other proceedings of the cotton convention . [Report no. 17] Washington, 1881. p. 19—35)  
The greater part of the address is also published in Report of the Commissioner of Agriculture for 1881 and 1882, p. 153—157.

**Riley, Charles Valentine.** Biological notes on the army worm (*Leucania unipuncta* Haw.) . . . [Salem, 1877]

279-283 p. illus. 24<sup>em</sup>.

From Proceedings of the American association for the advancement of science, 25th meeting, 1876.

**Riley, Charles Valentine.** Cotton worm; summary of its natural history, with an account of its enemies, and the best means of controlling it; being a report of progress of the work of the commission. Washington, 1880.

144 p. illus., pl. 23<sup>em</sup>. (U. S. Entomological commission. Bulletin 3)

A revised edition was published as the Fourth report of the United States entomological commission.

**Riley, Charles Valentine.** . . . The cotton worm in the United States <Abstract> . . . [Philadelphia, 1880]

3 p. 25<sup>em</sup>.

From the Proceedings of the American association for the advancement of science, vol. XXVIII, Saratoga meeting, August, 1879.

**Riley, Charles Valentine.** Descriptions of two new moths. *See under* Notodontidæ, p. 345.

**Riley, Charles Valentine.** Fourth report of the United States entomological commission, being a revised edition of Bulletin no. 3, and the final report on the cotton worm, together with a chapter on the boll worm. Washington, 1885.

399, 147 p. illus., 64 pl. 23<sup>em</sup>. (U. S. Entomological commission. Report 4)

"History of the literature and bibliography": p. 322-344.

**Riley, Charles Valentine.** Some recent practical results of the cotton worm inquiry by the U. S. entomological commission . . . Salem, 1881.

26-33 p. 25<sup>em</sup>.

From the Proceedings of the American association for the advancement of science, vol. XXIX, Boston meeting, August, 1880.

**Rouzaud, Henri.** . . . Sur les mœurs et les métamorphoses d'un lépidoptère carnassier destructeur de cochenilles (*Erastria scitula*) . . . Montpellier, Paris, 1893.

24 p. illus. 23<sup>em</sup>. (Bibliothèque du Progrès agricole et viticole.)

**Shurtleff, Carleton A.** Report on the army worm, *Leucania unipuncta* Haw. . . . [Salem, 1872]

8 p. 25<sup>em</sup>.

From Proceedings of Essex institute, vol. III.

**Smith, John Bernhard.** A catalogue, bibliographical and synonymical, of the species of moths of the lepidopterous superfamily Noctuidæ found in boreal America. With critical notes, by John B. Smith . . . Washington, Gov't print. off., 1893.

424 p. 24<sup>em</sup>. (Added t.p.: . . . Bulletin of the United States national museum. no. 44)

"Index to authors and works cited": p. 19-26.

**Smith, John Bernhard.** Contribution toward a monograph of the insects of the lepidopterous family Noctuidæ of temperate North America. Revision of the species of the genus *Agrotis*. By John B. Smith . . . with five plates. Washington, Gov't print. off., 1890.

Agr 3—210

iv, 237 p. v pl. 24<sup>em</sup>. (U. S. national museum. Bulletin no. 38)

**Smith, John Bernhard.** Contributions toward a monograph of the insects of the lepidopterous family Noctuidæ of boreal North America. A revision of the deltoïd moths. By John B. Smith . . . Washington, Gov't print. off., 1895.

Agr 4—3610

vi, 129 p. xiv pl. 24<sup>em</sup>. (Added t.p.: . . . Bulletin of the United States national museum. no. 48)

**Smith, John Bernhard** . . . Contributions toward a monograph of the lepidopterous family Noctuidæ of boreal North America. A revision of the moths referred to the genus *Leucania*, with description of new species. By John B. Smith . . . Washington, Gov't print. off., 1902.

Agr 4—3611

1 p. l., 159-209 p. v-vi pl. 24<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XXV, p. 159-209 . . . <no. 1283>

**Smith, John Bernhard.** . . . Contributions toward a monograph of the lepidopterous family Noctuidæ of boreal North America. A revision of the species of

Acronycta (Ochsenheimer) and of certain allied genera. By John B. Smith . . . and Harrison G. Dyar . . . Washington, Gov't print. off., 1898. Agr 4-3612

1 p. l., 194 p. xxii pl. 24 $\frac{1}{2}$ em.

Includes an additional copy of pl. I-VII, in colors, and marked Bulletin 7, Division of entomology, Dept. agr. "These colored plates were originally intended for a publication of the Department of agriculture. The manuscript never having been completed, the plates were transferred . . . to the U. S. national museum, and are included by request with the separates sent out to entomologists."

From the Proceedings of the United States national museum, vol. XXI, p. 1-194 . . . <no. 1140>

**Smith, John Bernhard.** . . . Contributions toward a monograph of the Noctuidæ of temperate North America. Revision of Homohadena, Grote. By John B. Smith . . . Washington, Gov't print. off., 1891. Agr 4-3614

cover-title, 397-405 p. illus. 24 $\frac{1}{2}$ em.

From the Proceedings of the United States national museum, vol. XIII, p. 397-405. <no. 838>

**Smith, John Bernhard.** . . . Contributions toward a monograph of the Noctuidæ of temperate North America. Revision of some tæniocampid genera. By John B. Smith . . . Washington, Gov't print. off., 1889. Agr 4-3615

cover-title, 455-496 p. xxii-xxiii pl. 24 $\frac{1}{2}$ em.

From the Proceedings of the United States national museum, vol. XII, p. 455-496 . . . <no. 781>

**Smith, John Bernhard.** . . . Contributions toward a monograph of the Noctuidæ of boreal America. Revision of the genus Cucullia; revision of the Diopinae; revision of Xylomiges and Morrisonia. By John B. Smith . . . Washington, Gov't print. off., 1892. Agr 4-3613

cover-title, 33-86 p. II-III pl. 24 $\frac{1}{2}$ em.

From the Proceedings of the United States national museum, vol. xv, p. 33-86 . . . <nos. 890-892>

**Smith, John Bernhard.** . . . Contributions toward a monograph of the Noctuidæ of temperate North America. Revision of the species of Hadena referable to Xylophasia and Luperina. By John B. Smith . . . Washington, Gov't print. off., 1891. Agr 4-3616

cover-title, 407-447 p. xxvi-xxxvii pl. 24 $\frac{1}{2}$ em.

From the Proceedings of the United States national museum, vol. XIII, p. 407-447 . . . <no. 839>

**Smith, John Bernhard.** . . . Contributions toward a monograph of the Noctuidæ of temperate North America. Revision of the species of Mamestra. By John B. Smith . . . Washington, Gov't print. off., 1891. Agr 4-3608

cover-title, 197-276 p. VIII-XI pl. 25em.

From the Proceedings of the United States national museum, vol. XIV, p. 197-276 . . . <no. 851>

**Smith, John Bernhard.** . . . A hundred new moths of the family Noctuidæ. By John B. Smith . . . Washington, Gov't print. off., 1903. Agr 4-3609

1 p. l., 413-495 p. 25em.

From the Proceedings of the United States national museum, vol. XXII, p. 413-495. <no. 1203>

**Smith, John Bernhard.** New genera and species of North American Noctuidæ . . . [Washington, 1888]

450-479 p. 24 $\frac{1}{2}$ em.

From Proceedings of United States national museum, vol. x.

**Smith, John Bernhard.** . . . New species of nocturnal moths of the genus Campometra, and notes. By John B. Smith . . . Washington, Gov't print. off., 1899.

1 p. l., 101-105 p. 24 $\frac{1}{2}$ em.

From the Proceedings of the United States national museum, vol. XXII, p. 101-105. <no. 1184>

**Smith, John Bernhard.** Notes on Cydosia and Cerathosia . . . [Washington, 1889]

185-190 p. illus. 24em.

From Proceedings of United States national museum, vol. XI, p. 185-190.

**Stelle, J. Parish.** The cotton caterpillar and how to combat it successfully. [Charleston, 1874]

511-516 p. illus. 25em.

From the Rural Carolinian, vol. v.



**Tracy, Samuel Mills.** Experiments on the boll worm injuring tomatoes. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1888. Washington, 1889. p. 141-142)

**Tryon, Henry.** . . . Caterpillar plague. (*Leucania unipuncta*, Haw.) [Brisbane] 1900.

135-147 p. CLXXII-CLXXIV pl. 24 $\frac{1}{2}$ cm.

From the Queensland agricultural journal, vol. VI, Feb. 1, 1900.

**Tryon, Henry.** Orange-piercing moths—Fam. Ophiderinæ . . . [Brisbane] 1898.

308-315, [1] p. XVIII-XXII A pl. 24 $\frac{1}{2}$ cm.

From the Queensland agricultural journal, vol. II, pt. 4-5, April-May, 1898.

**Tutt, James William.** The British Noctuæ and their varieties, by J. W. Tutt . . . London, Sonnenschein & co., 1891-92.

4 v. 22cm.

Illus. t.-p.

## NOTODONTIDÆ.

**Davidge, John Beale.** . . . Experiments and observations on the caterpillar which infests the Lombardy poplar . . . [Baltimore, 1806]

139-158 p. 22cm.

**Poujade, Gustave Arthur.** Description d'une nouvelle espèce de lépidoptères de Madagascar . . . [Paris] 1903.

[1] p. 24cm.

Extrait du Bulletin du Muséum d'histoire naturelle de Paris, 1903, no. 2, p. 57.

**Riley, Charles Valentine.** Descriptions of two new moths . . . [St. Louis, 1878]

240-255 p. illus. 23cm.

From the Transactions of the Academy of science of St. Louis. vol. III. 1868-1877.

## LIPARIDÆ.

**Bavaria—Government.** Die nonne, auch fichtenspinner, fichtenbär, rothbauch genannt (*Liparis monacha*). Naturgeschichtliche beschreibung der nonne, nebst kurzer darlegung der lebensweise und des forstlichen verhaltens derselben, dann bezeichnung der massnahmen zur vertilgung des insektes in den verschiedenen entwicklungs-zuständen (als falter, ei, raupe und puppe). Auf veranlassung der betheiligten staatsministerien für waldbesitzende gemeinden &c. und privatwaldbesitzer zusammengestellt von bayerischen forstbeamten. München, M. Rieger'sche universitäts-buchhandlung, 1890.

16 p. illus. 22 $\frac{1}{2}$ cm.

**Beutenmüller, William.** Description of a new moth from North Carolina . . . New York, 1903.

585-586 p. 24 $\frac{1}{2}$ cm.

Author's edition, extracted from Bulletin of the American museum of natural history, vol. XIX, article XXIII, pp. 585-586.

**Boas, Johan Erik Vesti.** Et besøg paa de af nonnen angrebne svenske skovdi-strikter i juli 1899 . . . [Kjøbenhavn, 1899]

[134]-146 p. 3-8 pl. 20cm.

Særtryk af "Tidsskrift for skovvæsen," XI, række B.

**Boas, Johan Erik Vesti.** Bøgenonnen i 1901. [Kjøbenhavn 1901?]

[146]-148 p. 21cm. (Skoven og dyrelivet. 65)

**Boas, Johan Erik Vesti.** Nonnen. I anledning af dens optræden i Sverrig 1898 . . . Kjøbenhavn, 1899.

[73]-85 p. col. pl. 20cm.

Særtryk af Tidsskrift for skovvæsen bd. XI, B.

**Boas, Johan Erik Vesti.** Nonnens optræden i Sverrig og i Danmark i de sidste aar . . . [København, 1903?]

46-63 p. 20 $\frac{1}{2}$ cm.

From Tidsskrift for skovvæsen, xv, B.

**Chrétien, Pierre.** Étude sur les lépidoptères, la ponte de la *Tephrosia crepuscularia* et de certaines liparides . . . [Paris] 1882.

140-142 p. 32cm.

From Le naturaliste, v. 4, no. 18, September 15, 1882.

**Coleman, N.** . . . Notes on the changes in the larvæ of *Orgyia leucostigma* . . . [Boston] 1882.

[39]-42 p. 22cm.

From the Journal of the Boston zoölogical society, vol. 1, no. 4, p. 39-42.

**Fernald, Charles Henry.** The brown-tail moth, *Euproctis chrysorrhœa* (L.) A report on the life history and habits of the imported brown-tail moth, together with a description of the remedies best suited for destroying it. By Charles H. Fernald . . . and Archie H. Kirkland . . . Published under the direction of the State board of agriculture by authority of the legislature. Boston, Wright & Potter printing co., state printers, 1903. Agr 4-893

73 p. 14 pl. incl. front., map. 23cm.

**Forbush, Edward H.** The gypsy moth. *Porthetria dispar* (Linn.) A report of the work of destroying the insect in the commonwealth of Massachusetts, together with an account of its history and habits both in Massachusetts and Europe. By Edward H. Forbush . . . and Charles H. Fernald . . . Published under the direction of the State board of agriculture by authority of the Legislature. Boston, Wright & Potter printing co., state printers, 1896.

xii, 495, c p. illus., 66 pl. (partly col.) incl. col. front., v maps. 23cm.

11 of the plates accompanied by leaf of descriptive text.

"Literature on the gypsy moth": p. 257-267.

**Froggatt, Walter Wilson.** . . . On the bag-shelters of lepidopterous larvæ of the genus *Teara* . . . [Sydney] 1896.

258-260 p. 1 pl. 22cm.

From the Proceedings of the Linnean society of New South Wales, 1896, pt. 2, June 24th.

**Great Britain—Board of agriculture.** Tent caterpillars. See under *Lasiocampidæ*, p. 347.

**Grevillius, Anders Yngve.** Zur kenntnis der biologie des goldafters (*Euproctis chrysorrhœa* (L) Hb.) und der durch denselben verursachten beschädigungen. Von Dr. A. Y. Grevillius . . . Leipzig, G. Thieme, 1905. Agr 5-637

[1], [222]-322 p. illus. 23 $\frac{1}{2}$ cm.

"Verzeichnis der benutzten literatur": p. 319-322.

Abdruck aus den Beiheften zum Botanischen centralblatt. bd. xviii. abt. II. heft. 2. Originalarbeiten.

**Hancock, Joseph Lane.** The white-marked tussock-moth (*Orgyia leucostigma* Smith and Abbott) in Chicago . . . [Boston] 1894.

326-328 p. illus. 24cm.

From the American naturalist, v. 28. April 1, 1894.

**Howard, Leland Ossian.** Gypsy moth in America: a summary account of the introduction and spread of *Porthetria dispar* in Massachusetts and the efforts made by the state to repress and exterminate it. Washington, 1897.

39 p. illus. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 11)

**Massachusetts—State board of agriculture.** Report . . . on the work of extermination of the gypsy moth. Jan., 1893-99. Boston, Wright & Potter printing co., state printers, 1893-[99]

7 nos. plates. 23 $\frac{1}{2}$ cm.

**Massachusetts**—*State board of agriculture*. . . . Special report of the State board of agriculture on the work of extermination of the *Ocneria dispar* or gypsy moth. Acts of 1891, chapter 210. Boston, Wright & Potter printing co., state printers, 1892.

cover-title, 26 p. col. front., plates, map. 23 $\frac{1}{2}$ cm. ([Massachusetts. General court, 1892] House. 4—10184 [Doc.] no. 25)

**Silant'ev, A. A.** Монашенка (*Ocneria monacha* L.) въ лѣсахъ царства польскаго въ 1893 году, ея образъ жизни, распространеніе и борьба съ нею. А. А. Силантъевъ. Москва, Типо-литографія Г. С. Ламакина, 1895.

61 p. fold. tab. 25cm.

The nun moth (*Ocneria monacha* L.) in the forests of the government of Poland in 1893, its habits, distribution and the struggle against it.

**Wachtl, Fritz A.** . . . Beiträge zur kenntniss der morphologie, biologie und pathologie der nonne (*Psilura monacha* L.) und versuchsergebnisse über den gebrauchswerth einiger mittel zur vertilgung der raupe. Von Fritz A. Wachtl, und Karl Kornauth . . . Wien, K. u. K. Hof-buchhandlung W. Frick, 1893.

4 p. l., 38 p., 3 l. illus., III pl. (1 col.) 29 $\frac{1}{2}$ cm. (Mittheilungen aus dem forstlichen versuchswesen Österreichs. xvi. heft)

[**Wasmann, Eric**] . . . Die nonne. [Freiburg i. B., 1893]

26 p. 22 $\frac{1}{2}$ cm.

Sonder-abdruck aus d. "Stimmen aus Maria-Laach." 1893, 6. u. 7. hft.

[**Wasmann, Eric**] . . . Zum ende der nonnenplage. [Freiburg i. B., 1894]

[2] p. 23 $\frac{1}{2}$ cm.

Sonder-abdruck aus den "Stimmen aus Maria-Laach." 1894, 1. hft.

#### LASIOCAMPIDÆ.

**Aurivillius, Per Olof Christopher.** . . . On the Ethiopian genera of the family Striphnopterygidæ . . . Stockholm, 1901.

33 p. illus., 5 pl. 21 $\frac{1}{2}$ cm.

Bihang till K. Svenska vet. akad. Handlingar. Bd. 27. Afd. iv. N:o 7.

**Davis, Nelson F.** . . . The apple-tree tent-caterpillar and its life history. By Nelson F. Davis . . . [Harrisburg] W. S. Ray, state printer, 1904. Agr 4—3429

16 p. 28 pl. 23 $\frac{1}{2}$ cm. (Commonwealth of Pennsylvania. Dept. of agriculture. Bulletin no. 120)

**Great Britain**—*Board of agriculture*. . . . Tent caterpillars. The lackey moth (*Clisiocampa neustria*, Linn) and the brown tail (*Porthesia chrysoorrhœa*, Linn.) [London, 1901]

5 p., 1 l. 21cm. (*Its* Leaflet no. 69)

**Morgan, Joseph Harcourt Alexander.** Some observations upon *Artace punctistriga*. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 99. Washington, 1901. p. 182—183. 3 pl.)

**Philippi, Federico.** Escrecencias de la vid y dos insectos dañinos al agricultor . . . Santiago de Chile, 1887.

7 p. pl. 23 $\frac{1}{2}$ cm.

Del Boletín de la Sociedad nacional de agricultura, A. XVIII.

**Walsingham, Thomas De Grey, 6th lord.** . . . Contributions to the knowledge of the genus *Anaphe*, Walker . . . London, 1885.

cover-title, 421—426 p. 2 col. pl. 31cm. (The Transactions of the Linnean society of London. 2nd ser. Zoology. Vol. II. Part 12)

Read March 20, 1884.

#### DREPANULIDÆ.

**Jones, Edward Dukinfield.** Notes on the various stages of the "hammock moth" . . . [London and Liverpool] 1879.

7 p. 1 fold. pl. 21 $\frac{1}{2}$ cm.

From the Proceedings of the Literary and philosophical society of Liverpool, v. 33, p. 77—81.

## BOMBYCIDÆ.

**Beutenmüller, William.** Descriptive catalogue of the bombycine moths found within fifty miles of New York City . . . New York, 1898.

353-418 p. xv-xxiii pl. 25<sup>cm</sup>.

Author's ed., extracted from Bulletin of the American museum of natural history, vol. x, article xvii.

**Packard, Alpheus Spring.** Monograph of the bombycine moths of America north of Mexico, including their transformations and origin of the larval markings and armature. Part I-II . . . By Alpheus S. Packard . . . [Washington, Gov't print. off., 1895-1905] 5-31916

v. 1-2. plates (partly col.) maps. 31<sup>cm</sup>. (*Added t.p.:* Memoirs of the National academy of sciences. Vol. VII, IX)

CONTENTS.—pt. I. Notodontidae.—pt. II. Ceratocampidae, subfamily Ceratocampinae.

**Packard, Alpheus Spring.** New American moths; Zygaenidæ and Bombycidæ. *See under Zygaenidæ*, p. 338.

**Packard, Alpheus Spring.** Studies on the life-history of some bombycine moths, with notes on the setæ and spines of certain species . . . [New York] 1893.

[41]-92 p. illus. 23<sup>cm</sup>.

From the Annals of the New York academy of sciences, vol. VIII, May, 1893.

**Reichenbach, Ludwig.** Ein zweifelhafter triton und eine ausgezeichnete varietät von *Euprepia villica* . . . Eingegangen bei der Akademie im december 1865. Dresden, 1865.

15 p. col. pl. 30½<sup>cm</sup>.

From Nova acta Acad. Cæs. Leop.-Carol. germ. nat. cur. xxxii, 1865, no. 10.

**Reuter, Enzo.** . . . *Bombyx lanestris* L. var. *Aavasaksæ* Teich och dess utvecklingshistoria . . . [Helsingfors] 1890.

[48]-54 p. 23<sup>cm</sup>.

From Societas pro fauna et flora fennica. Meddelanden no 17, 1890.

**Stretch, Richard H.** Illustrations of the Zygaenidæ & Bombycidæ. *See under Zygaenidæ*, p. 338.

**Verson, Enrico.** Lo sviluppo postembrionale degli organi sessuali accessori nella femina del *Bombyx mori*, nota preventiva. Venezia, 1896.

7 p. 22½<sup>cm</sup>.

From Atti del R. Istituto veneto di scienze, lettere ed arti, tomo VII, serie VII.—1895-96.

## PLATYPTERYGIDÆ.

**Packard, Alpheus Spring.** 1. Life history of *Drepana arcuata*. 2. Hints on the evolution of the bristles, spines and tubercles of certain caterpillars . . . [Boston] 1890.

482-560 p. III-IV pl. 24½<sup>cm</sup>.

From the Proceedings of the Boston society of natural history, vol. xxiv, 1890.

## GEOMETRIDÆ.

**Bolle, Giovanni.** Der frostpanner des kirschbaumes und dessen vertilgung mittelst der klebetheeringe . . . [Görz, 1897]

7 p. illus. 23½<sup>cm</sup>.

Auszug aus den "Atti e memorie" der K. K. Landwirtschaftlichen gesellschaft in Görz (heft 10), 1897.

**Britton, Wilton Everett.** Observations on the banding of trees to prevent injury by the fall cankerworm. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Washington, 1901. Bulletin 99. p. 160-161)

**Coquillett, Daniel William.** Canker-worms. Washington, 1895.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 9)

**Druce, Herbert.** . . Descriptions of new species of *Eratina* from tropical South America. [London] 1892.

[97]-107 p. 22<sup>em</sup>.

From the Annals and magazine of natural history for January, 1892.

**Graeff, H. A.** The measure worm ("Ennomos subsignaria"—Hübner), a description of the insect in all its metamorphoses, its history and progress, and a systematic plan for its final extermination, together with remarks on the state of shade trees in the city of Brooklyn, by H. A. Graeff & Edw. Wiebe . . . Brooklyn, 1862.

22 p. 23<sup>em</sup>.

**Great Britain—Board of agriculture.** . . . Caterpillars on fruit trees. The winter moth (*Cheimatobia brumata*) . . . The great winter moth (*Hybernia defoliaria*). [London, 1898]

7, [1] p. illus. 21½<sup>em</sup>. (*Its* Leaflet no. 4)

**Great Britain—Board of agriculture.** . . : The magpie moth (*Abraxas grossulariata*). [London, 1897]

3, [1] p. illus. 21<sup>em</sup>. (*Its* Leaflet no. 20)

**Grosjean, H.** Note sur la destruction de la chématobie . . . Paris, 1896.

2 p. 28<sup>em</sup>.

Extrait du Bulletin du Ministère de l'agriculture, vol. xv.

**Gumpenberg, Carl, freiherr von.** . . Systema geometrarum zonæ temperationis septentrionalis. Systematische bearbeitung der spanner der nördlichen gemäßigten zone von C. Freih. v. Gumpenberg . . . Halle, 1887-96.

8 pts in 1 v. 8 pl. incl. 3 maps. 32<sup>em</sup>. (*Nova acta der Ksl. Leop.-Carol. deutschen akademie der naturforscher*, bd. XLIX, nr. 4; bd. LII, nr. 4; bd. LIV, nr. 4; bd. LIV, nr. 5; bd. LVIII, nr. 4; bd. LIX, nr. 2; bd. LXIV, nr. 6; bd. LXV, nr. 3)

"Benützte literatur": 1. th., p. 7-8.

**Lederer, Julius.** Die spanner. (Als fortsetzung des im vorigen jahre dieser zeitschrift enthaltenen aufsatzes: "Versuch, die europäischen lepidopteren in möglichst natürliche reihenfolge zu stellen." [Wien] 1853.

106 p. 2 pl. 21½<sup>em</sup>.

From Verhandlungen, Zool.-botan. verein in Wien, 1853, v. 3, p. 165-270.

**Mann, Benjamin Pickman.** . . . Description of a monstrous female imago of *Anisopteryx pometaria*, with remarks on the pupa . . . [Boston] 1873.

2 p. 22<sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. xvi, November 26, 1873, p. 163-165.

**Mann, Benjamin Pickman.** . . Explanation of the "Corrigenda" to a communication in these Proceedings, vol. xv, pp. 381-384, entitled: "*Anisopteryx vernata* distinguished from *A. pometaria*" . . . [Boston] 1874.

6 p. 22<sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. xvi, Jan. 1, 1874.

**Packard, Alpheus Spring.** Catalogue of the Phalænidæ of California . . . [Boston] 1870-73.

2 pts. 1 pl. 23½<sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. XIII, 1871, p. 381-405, vol. xvi, 1873, p. 13-40.

**Packard, Alpheus Spring;** Descriptions of new American Phalænidæ . . . [Salem, 1873]

52-81 p. 24½<sup>em</sup>.

From the Fifth annual report of the trustees of the Peabody academy of science, for the year 1872.

**Packard, Alpheus Spring.** Descriptions of new North American Phalænidæ and Phyllopoda . . . [Salem] 1874.

39-57 p. 25<sup>em</sup>.

From the Sixth annual report of the Peabody academy of science, 1874.

- Packard, Alpheus Spring.** Life-histories of some geometrid moths . . . [Philadelphia, 1884]  
933-936 p. 23<sup>cm</sup>.  
From the American naturalist, September, 1884, vol. xviii.
- Packard, Alpheus Spring.** . . . A monograph of the geometrid moths or Phalænidæ of the United States. By A. S. Packard, jr., M. D. Washington, Gov't print. off., 1876.  
iv, p., 2 l., 607 p., 13 l. XIII pl. 30½<sup>cm</sup>. (*Added t.p.*: Department of the interior. Report of the United States geological survey of the territories. F. V. Hayden, United States geologist-in-charge. volume x)
- Packard, Alpheus Spring.** Notes on North American moths of the families Phalænidæ and Pyralidæ in the British museum . . . [Salem, 1873]  
82-92 p. 24½<sup>cm</sup>.  
From the Fifth annual report of the trustees of the Peabody academy of science, for the year 1872.
- Rainbow, William Joseph.** . . . Description of the larva of *Pseudoterpna percomptaria*, Gn. . . . Description of a new araneiad . . . [Sydney, 1898]  
cover-title, [81]-83 p., 1 l. pl. 24½<sup>cm</sup>.  
From "Records of Australian museum," vol. III, pt. 4, June 13, 1898.
- Riley, Charles Valentine.** . . . Canker-worms: being an account of the two species injurious to fruit and shade trees, with practical suggestions . . . [Washington] 1883.  
2 p. l., 157-197 p. illus., pl. 23<sup>cm</sup>.  
Author's edition, extracted from the Third report of the United States entomological commission.
- Riley, Charles Valentine.** . . . A new herbarium pest . . . Chicago, 1891.  
[334]-337 p. illus. 24<sup>cm</sup>.  
From the Botanical gazette. December, 1891.
- Riley, Charles Valentine.** On the differences between *Anisopteryx pometaria*, Harr., and *Anisopteryx æscularia*, W.-V., with remarks on the genus *Paleacrita* . [St. Louis, 1878]  
30-34 p. 23½<sup>cm</sup>.  
From the Transactions of the Academy of science of St. Louis, vol. III, no. 4, p. 573-577.
- Riley, Charles Valentine.** Remarks on canker-worms and description of a new genus of Phalænidæ . . . [St. Louis] 1875.  
273-280 p. illus. 23<sup>cm</sup>.  
From the Transactions of the St. Louis academy of science, vol. III.
- Schøyen, Wilhelm Maribo.** . . . Fjeldbirkemaaleren (*Cidaria dilutata* S. V.) . . . [Kristiania? 1891]  
[74]-86 p. 22½<sup>cm</sup>.  
Særtryk af "Den Norske forstforenings Aarvog for 1891."
- Schøyen, Wilhelm Maribo.** . . . Larvehærjinger paa birkeskoven i Tromsø amt . . . [n. p., 189-]  
[4] p. 23<sup>cm</sup>.  
Separataftryk af „Tidsskrift for skovbrug."
- White, Francis Buchanan.** . . . Some notes on the British species of *Oporabia* . . . [Perth, 1877]  
11 p. pl. 21½<sup>cm</sup>.  
"Further notes on the species of *Oporabia*": p. 9-11.  
From the Scottish naturalist, vol. iv, 1877.

## PSYCHIDÆ.

- Froggatt, Walter Wilson.** . . . Australian case or bag moths. Sydney, 1899.  
7 p. pl. 25<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 337)  
From Agricultural gazette of N. S. Wales, vol. x, October, 1899.  
"Bibliography": p. 7.

**Gibson, William Hamilton.** A fatherless and motherless race. A strange insect—the basket carrier or house-builder caterpillar . . . [New York] 1878.

2199-2200 p. illus. 41<sup>cm</sup>.

From the Scientific American supplement, no. 138, August 24, 1878.

**Glover, Townsend.** The hang-worm. (U. S. Pate. office. Report of the Commissioner of patents for the year 1859. Agriculture. Washington, 1860. p. 551-554. illus.)

**Rathvon, Simon Snyder.** "The drop worm" Thyridopteryx ephemeraformis. Lancaster, Pa., 1875.

113-114 p. illus. 32½<sup>cm</sup>.

From the Lancaster farmer, vol. VII, no. 8.

**Riley, Charles Valentine.** Remarks on the bag-worm (Thyridopteryx ephemeraformis) . . . Washington, 1884.

80-83 p. illus. 23<sup>cm</sup>.

From the Proceedings of the Biological society of Washington, vol. II, 1882-84. Extras printed, April 10, 1884.

## LIMACODIDÆ.

**Packard, Alpheus Spring.** The life history of certain moths of the family Cochliopodidæ, with notes on their spines and tubercles . . . [Philadelphia] 1893.

83-108 p. iv pl. 23¼<sup>cm</sup>.

Reprinted April 19, 1893, from the Proceedings of the American philosophical society, vol. xxxi.

## CHALCOSIIDÆ.

**Druce, Herbert.** . . . Descriptions of eight new species of Chalcosiidæ . . . [London] 1891.

[140]-144 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history for January, 1891.

## MEGALOPYGIDÆ.

**Jones, Edward Dukinfield.** . . . Experiments with a venomous caterpillar . . . [London and Liverpool] 1878.

3 p. 1 col. pl. 21¾<sup>cm</sup>.

Extract from the Proceedings of the Literary and philosophical society of Liverpool, v. 32, p. 102-105.

**Packard, Alpheus Spring.** . . . On the larva of Lagoa, a bombycine caterpillar with seven pairs of abnormal legs; with notes on its metameric glandular abdominal processes . . . [Leipzig] 1892.

6 p. illus. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 394, 1892)

**Packard, Alpheus Spring.** A study of the transformations and anatomy of Lagoa crispata, a bombycine moth . . . Philadelphia, 1894.

[275]-292 p. VII pl. 23¾<sup>cm</sup>.

Reprinted February 7, 1894, from Proc. Amer. Philos. Soc., vol. xxxii.

**Packard, Alpheus Spring.** . . . Unusual number of legs in the caterpillar of Lagoa. [Boston] 1885.

714-715 p. illus. 24<sup>cm</sup>.

American naturalist, extra, July, 1885.

## COSSIDÆ.

**Bailey, James S.** The natural history of Cossus centerensis . . . [n. p., 1878] 4 p. 1 pl. 24<sup>cm</sup>.

**Boas, Johan Erik Vesti.** Cossus ligniperda i eg. [Kjøbenhavn, 1890]

[.00]-106 p. fold. pl. 21<sup>cm</sup>.

Særtryk af Tidsskrift for skovvæsen II, A.

**Great Britain**—*Board of agriculture*. . . . The wood leopard moth (*Zeuzera æsculi*) [London, 1899]

4 p. illus. 2½<sup>cm</sup>. (*Its* Leaflet no. 60)

**Schøyen, Wilhelm Maribo**. En Cossus-larves forekomst i maven hos et menneske . . . Kristiania, 1896.

cover-title, 7 p. 22½<sup>cm</sup>.

Sep.-aftr. af N. mag. f. lægevi., no. 6, 1896.

**Schøyen, Wilhelm Maribo**. En trædelægger . . . [Kristiania? 1893]

8-12, 27-28 p. illus. 22½<sup>cm</sup>.

From *Tidsskrift for skovbrug*. Udgivet af den Norske forstforening, 1. aarg. 1893.

**Stebbing, E. P.** . . . On the life-history of *Arbela tetraonis*, Moore, a destructive insect pest in casuarina plantations in Madras . . . [Calcutta, 1903]

[252]-257 p. 23<sup>cm</sup>.

From the *Journal, Asiatic society of Bengal*, vol. LXXII, pt. II, no. 4, 1903.

#### SESIIDÆ.

**Beutenmüller, William**. Critical review of the Sesiidæ found in America, north of Mexico . . . New York, 1896.

111-148 p. 25<sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. VIII, article VII, p. 111-148.

**Beutenmüller, William**. . . . Notes on North American Sesiidæ, with descriptions of new species. Food-habits of North American Sesiidæ . . . New York, 1897.

213-220 p. 25<sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. IX, articles XV and XVI, p. 213-220.

**Beutenmüller, William**. Studies of some species of North American *Ægeriidæ* . . . New York, 1894.

87-98 p. 24½<sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. VI, article II, p. 87-98.

**Beutenmüller, William**. Synopsis of the species of *Melittia* of America, north of Mexico, with description of a new species . . . New York, 1899.

149-151 p. 24½<sup>cm</sup>.

Author's edition, extracted from *Bulletin of the American museum of natural history*, vol. XII, article VIII, p. 149-151.

**Bos, Jan Ritzema**. . . . De glasvlengelige vlinders (*Sesia*). [Gent, 1897]

11 p. illus. 33<sup>cm</sup>.

Overgedrukt uit het "Tijdschrift over plantenziekten," 2. afl., 1897.

**Brandt, Eduard Karlovich**. . . . On the anatomy of *Sesia tipuliformis* and *Trochilium apiforme*, Linn. . . . [London, 1890]

[185]-190 p. 23<sup>cm</sup>.

From the *Annals and magazine of natural history for August*, 1890.

Translated by W. F. Kirby from article published in "Horæ Societatis entomologicæ rossicæ," vol. XXXII, p. 41-49.

**Butler, Arthur Gardiner**. . . . Notes on the *Ægeriidæ*, with descriptions of new genera and species . . . [London] 1874.

[407]-411 p. 22½<sup>cm</sup>.

From the *Annals and magazine of natural history for December*, 1874.

**Chittenden, Frank Hurlbut**. Squash-vine borer (*Melittia satyriniformis* Hbn.). Washington, 1899.

6 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 38)

— — — Rev. ed. Washington, 1903.

6 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 38)



- Kellicott, David Simons.** Our injurious aegerians . . . [Columbus, 1890]  
11-19 p. pl. 23<sup>cm</sup>.  
From the Journal of the Columbus horticultural society. vol. v, no. 1, March, 1890.
- [**Kron, Francis J.**] The grape-vine borer: in a communication on the grape-vine, by Dr. E. Mitchell, in the Raleigh register for April 5, 1854. [Raleigh, N. C., 1854]  
8 p. 22½<sup>cm</sup>.
- Marlatt, Charles Lester.** Peach-tree borer (*Sannina exitiosa* Say). Washington, 1896.  
4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 17)  
— — — Washington, 1903.
- 6 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, [ser 2, no.] 54)
- Townsend, Charles Henry Tyler.** The peach and apricot borer of southern New Mexico . . . [San Diego, Cal., 1893]  
54-55 p. 23½<sup>cm</sup>.  
From the West American scientist, vol. VIII, p. 54-55.

## PYRALIDÆ.

- Bos, Jan Ritzema.** . . . De meelmot (*Ephestia kuhniella* Zeller) . . . [Amsterdam, 1893]  
12 p. 23½<sup>cm</sup>.  
Overgedrukt uit de "Vragen van den dag," 1893.
- [**Bryce, Peter Henderson**] . . . The flour moth "*Ephestia kuhniella*." Issued by the Ontario Department of agriculture. [Toronto, 1889] Agr 3—146  
15 p. illus. 22<sup>cm</sup>. (Bulletin i. Provincial board of health of Ontario)  
Cover-title.
- Cockerell, Theodore Dru Alison.** The sugar-cane borer (*Diatræa saccharalis*, Fabr.) . . . [Kingston, Jamaica, 1892]  
[2]-7 p. 32<sup>cm</sup>.  
From Bulletin of the Botanical department, Jamaica, no. 30. April, 1892.  
"Bibliography": p. 7.
- Danysz, Jean.** . . . *Ephestia kuhniella*, parasite des blés, des farines et des biscuits; histoire naturelle du parasite et moyens de le détruire, par J. Danysz. Paris, Liège, Baudry et cie., 1893.  
viii, 58 p., 1 l. illus. 22<sup>cm</sup>. (Mémoires du Laboratoire de parasitologie végétale de la Bourse de commerce. vol. I, 1893)
- Fernald, Charles Henry.** The Crambidae of North America. [By] C. H. Fernald. [Amherst] 1896.  
93 p. 9 pl. (6 col.) 23<sup>cm</sup>.  
Published by Massachusetts agricultural college.
- Forbes, Stephen Alfred.** The root web-worm. Champaign, Ill. 1885.  
38-39 p. 22<sup>cm</sup>.  
From Illinois crop report, May, 1885, circular 122.
- Giard, Alfred.** Sur le ptérophore de la gentiane (*Mimæseoptilus graphodactylus* Treitschke) Reims, 1893.  
3 p. 21½<sup>cm</sup>.  
Société d'étude des sciences naturelles de Reims, extrait des Mémoires)
- Grote, Augustus Radcliffe.** . . . Preliminary studies on the North American Pyralidæ. I . . . [Washington, 1878]  
669-705 p. illus. 23<sup>cm</sup>.  
From the Bulletin of the United States geological and geographical survey, vol. IV, 1878.
- Jablonowski, József.** . . . A kukoriczamoly, *Botys nubilalis* Hb. (Életmódja és irtása) . . . [Budapest, 1898?]  
15 p. illus. 25½<sup>cm</sup>.  
At head of title: M. kir. rovtartani állomás, Budapest.

**Joannis, Joseph de.** Note sur une phycide vivant en parasite dans un nid de chenilles provenant de Mayomba (Congo) . . . [Paris] 1900.

4 p. illus. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1900, no. 6, p. 280.

**Johnson, Willis Grant.** The Mediterranean flour moth (*Ephestia kuehniella* Zell.) in Europe and America. Appendix to the 19th report of the state entomologist of Illinois. By W. G. Johnson . . . Springfield, Ill., E. T. Hartman, state printer, 1896.

cover-title, 65 p. illus. 23<sup>cm</sup>.

"Bibliographical list:" p. 58-65.

**Lederer, Julius.** Beitrag zur kenntniss der pyralidinen. Von Jul. Lederer . . . [Wien, In commission bei Carl Gerold's sohn, 1863]

2 pts. 2-18 pl. 21 $\frac{1}{2}$ <sup>cm</sup>.

From Wiener entomologische monatschrift, vol. VII, no. 8, p. 243-290, no. 10-11, p. 331-506.

Bibliography: p. 244-246.

**Lefroy, H. Maxwell.** . . . Hints and suggestions for the treatment of the moth borer in sugar cane . . . [n. p., V. Gale, printer to the government of Barbados] 1900.

2 p. l., 21 p. 17 $\frac{1}{2}$ <sup>cm</sup>. (Imperial department of agriculture for the West Indies. [Pamphlet ser., no. 1])

Signed: H. Maxwell-Lefroy.

**Lindemann, Karl Eduardovich.** Würmer an chokolade . . . [St. Petersburg, 1892]

18-19 p. 27 $\frac{1}{2}$ <sup>cm</sup>.

From Land und- hauswirthschaftliche beilage der St. Petersburger zeitung. 1892, nr. 5.

A List of British Deltoides and Pyralites. See under Noctuidæ, p. 341.

**Mason, James Wood.** Some account of the "Palanbyoo" or "Teindoung bo" (*Paraponyx oryzalis*), a lepidopterous insect-pest of the rice-plant in Burma which in the caterpillar stage breathes water by means of tracheal-gills. By J. Wood-Mason . . . Calcutta, Printed by the superintendent, government printing, 1885. Agr 5-49

1 p. l., 12 p. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.

**Olliff, Arthur Sidney.** . . . On a species of moth (*Epicrocis terebrans*) destructive to red cedar and other timber trees in New South Wales . . . Sydney, 1894.

5 p. pl. 25<sup>cm</sup>.

From Agricultural gazette of New South Wales, vol. v, p. 513-515.

**Packard, Alpheus Spring.** Catalogue of the Pyralidæ of California, with descriptions of new Californian Pterophoridaæ . . . New York, 1873.

267-220 p. 1 pl. 25 $\frac{1}{2}$ <sup>cm</sup>.

From the Annals of the Lyceum of natural history of New York, 1873, vol. x.

**Packard, Alpheus Spring.** Habits of an aquatic pyralid caterpillar . . . [Philadelphia, 1884]

824-826 p. pl. 23 $\frac{1}{2}$ <sup>cm</sup>.

From the American naturalist, August, 1884, vol. xviii.

**Packard, Alpheus Spring.** Notes on North American moths. See under Geometridæ, p. 350.

**Popenoe, Edwin A.** The web-worm. Notes upon its habits, and description of its transformations . . . [Topeka, 1880]

99-103 p. 23<sup>cm</sup>.

From Second quarterly report of the Kansas State board of agriculture.

**Ragonot, Émile Louis.** Essai sur la classification des pyralites, par E.-L. Ragonot . . . Paris, Impr. É. Duruy, 1891.

pt. 1. 4 col. pl. 22 $\frac{1}{2}$ <sup>cm</sup>.

Published by the Société entomologique de France, from its Annales, 1891 and 1892.

**Wallengren, Hans Daniel Johan.** . . . Skandinavians pyralider och choreutider beskrifne . . . Stockholm [1871]

961-1060 p. 21 $\frac{1}{2}$ <sup>cm</sup>.

Öfversigt af Kongl. vetenskaps-akademiens Förhandlingar, 1871.

**Wallengren, Hans Daniel Johan.** . . . Tvenne för skandinaviens fauna nya pyralider . . . Stockholm [1873]

43-44 p. 2½<sup>cm</sup>.

Öfversigt af Kongl. vetenskaps-akademiens Förhandlingar 1873.

**Walsingham, Thomas De Grey, 6th lord.** . . . Description of a new genus and species of Pyralidæ, from the Kangra valley, Punjab. By the Right Hon. Lord Walsingham . . . London, Printed for the Linnean society by Taylor and Francis, 1888.

cover-title, 47-52 p. 1 col. pl. 28½<sup>cm</sup>. (The Transactions of the Linnean society of London. 2nd ser. Zoology. Vol. v. Part II)

Read 16th June, 1887.

#### PTEROPHORIDÆ.

**Fernald, Charles Henry.** . . . The Pterophoridæ of North America. [By] C. H. Fernald. . . . Rev. ed. . . . Boston, 1898. Agr 4—3533

84 p. incl. 1x pl. 23½<sup>cm</sup>. (Special bulletin, Hatch experiment station of the Massachusetts agricultural college)

**Guérin-Méneville, Félix Édouard.** Mémoire sur la nécessité d'étudier un moyen simple et applicable en grand de préserver les blés des attaques de l'alicute, qui leur fait perdre, en très-peu de temps, de 30 à 80 pour 100 de leur poids . . . [Paris, 1852]

11 p. 22<sup>cm</sup>.

From Mémoires de la Société nationale d'agriculture de France, v. 93, 1852.

**Packard, Alpheus Spring.** Catalogue of the Pyralidæ of California, with descriptions of new Californian Pterophoridæ. See under Pyralidæ, p. 354.

**Walsingham, Thomas De Grey, 6th lord.** New genera of Agdistidæ and Pterophoridæ. See under Tineidæ.

**Walsingham, Thomas De Grey, 6th lord.** Pterophoridæ of California and Oregon. By Thomas, Lord Walsingham. London, J. Van Voorst, 1880.

xvi, 66 p., 3 l. III col. pl. 25½<sup>cm</sup>.

#### TORTRICIDÆ.

**Berlese, Antonio.** . . . Esperienze contro la Cochyliis ambiguella Hübn. (Tignuola della vite) . . . Padova, 1893.

44 p. 23½<sup>cm</sup>.

Estratto dal Giornale di patologia vegetale, num. 6-12.

**Berlese, Antonio.** Notizie intorno all' effetto degli insettifughi nella lotta contro la Cochyliis ambiguella . . . Firenze, 1896.

40 p., 1 l. illus. 23<sup>cm</sup>.

At head of title: Dott. Antonio Berlese e Dott. Gustavo Leonardi.

Estratto dalla Rivista di patologia vegetale. anno IV, num. 7-12.

**Boas, Johan Erik Vesti.** . . . Granbarkvikleren, Tortrix pactolana. [Kjøbenhavn, n. d.]

4 p. pl. 20½<sup>cm</sup>.

Særtryk af Tidsskrift for skovvæsen.

**Buchenau, Franz Georg Philipp.** Die "springenden bohnen" aus Mexiko. Dritter befrag . . . [Bremen, 1892]

[277]-290 p. 24<sup>cm</sup>.

From Abhandl. naturw. verein, Bremen. Bd. XII., p. [277]-290.

**Carpenter, George Herbert.** . . . A new species of Tortrix from Tuam . . . [Dublin, 1891]

91-94 p. col. pl. 22<sup>cm</sup>

"Reprinted from Scientific proceedings of the Royal Dublin society [vol. VII, part II]"

**Cooke, Matthew.** . . . Natural history and habits of the codling moth, or apple worm. Also, notes on the scale insect. By Messrs. Cooke & son . . . Sacramento, H. S. Crocker & co., printers and stationers, 1879.

32 p. illus. 15½cm.

Advertisements: p.29-32.

**Despeissis, A.** The codlin moth in Australia . . . Perth 1903.

87-98 p. illus. 21¼cm.

From the Journal of the Department of agriculture of Western Australia, February 1903.

**Florence. Reale stazione di entomologia agraria di Firenze.** . . . Relazione . . . sulla piralide della vite in Piemonte e sopra i mezzi per combatterla. [Roma, Tip. eredi Botta, 1890]

20 p. illus. 25cm.

At head of title: Ministero di agricoltura, industria e commercio. Direzione generale dell'agricoltura.

**Forbes, Stephen Alfred.** . . . Arsenical poisons for the codling moth (*Carpocapsa pomonella*, L.). Record and discussion of experiments for 1885 and 1886 . . . Springfield, Ill., 1887.

26 p. 22cm. (Office of the State entomologist of Illinois. Bulletin no. 1)

— — — 2d ed. Springfield, Ill., 1887.

24 p. 22cm. (Office of the State entomologist of Illinois. Bulletin no. 1)

**Froggatt, Walter Wilson.** The codling moth (*Carpocapsa pomonella*, Linn.) . . . Sydney, 1901.

1354-1365 p. pl. 24¼cm.

From the Agricultural gazette of N. S. Wales, vol. xii.

**Girard, Maurice.** Note sur les carpocapses des fruits à pepins et à noyau . . . [Paris, 1877]

7 p. 21¼cm.

Extrait du Journal de la Société centrale d'horticulture de France, 2<sup>e</sup> série, t. xi, 1877, p. 526-532.

**Great Britain—Board of agriculture.** . . . The codlin moth. *Carpocapsa pomonella*, L. [London, 1896]

4 p. illus. 23cm. (*Its Leaflet* no. 30)

— — — [London, 1898]

4 p. illus. 21¼cm. (*Its Leaflet* no. 30)

**Howard, Leland Ossian.** The codling moth. (*Carpocapsa pomonella*, L.) Order Lepidoptera; family Tortricidæ. (U. S. Agriculture, Commissioner of. Report of the Commissioner. 1887. Washington, 1888. p. 88-115. 1 pl.)

**Jablonowski, József.** Útmutatás a szőlőmoly (*Cochylis ambiguella*) és szőlőloncza (*Tortrix pilleriana*) irtására. Budapest, 1898.

[47]-53 p. 23cm.

At head of title: A földmivelésügyi M. K. Minister kiadványa.

**Kearfott, William Dunham** . . . Descriptions of new species of tortricid moths, from North Carolina, with notes . . . Washington, 1905.

349-364 p. 25cm.

From the Proceedings of the United States national museum, vol. xxviii, p. 349-364 <no.1398.>

**Laborde, J.** Étude sur la *Cochylis* et les moyens de la combattre par les traitements d'hiver . . . Paris, 1900.

20 p. 27cm.

Extrait de la Revue de viticulture, tome xiv.

**Lintner, Joseph Albert.** . . . On *Mermis acuminata* Leidy: a parasite of the larva of *Carpocapsa pomonella*. [Albany, 1878]

[6]-14 p. 23cm.

From the Thirtieth annual report of the New York state museum of natural history, for the year 1876, Entomological contributions no. iv, p. 5-14.

**New Zealand—Legislative council—Joint codlin-moth committee.** . . . Report . . . [Wellington] 1885.

14 p. 34¼cm.

- Olliff, Arthur Sidney.** . . . The codling moth, *Carpocapsa pomonella*, Linn. Its life-history and habits . . . Sidney, 1892.  
14 p., 11. pl. 24 $\frac{1}{2}$ cm. (Dept. of agriculture, New South Wales. Entomological bulletin, no. 1)
- Postl, Adolfo.** . . . La pirale o tignola della vite . . . [Göriz, Austria, 1887]  
20 p. illus. 23 $\frac{1}{2}$ cm.  
Extract from "Atti e Memorie" dell' I. R. Istituto sperimentale di bacologia ed enologia, no. 9, 1887.
- Quinn, George.** Arsenical spraying against codlin moth. Report on experimental work for 1902-3 . . . [Adelaide] 1903.  
[717]-786 p. illus. 24 $\frac{1}{2}$ cm.  
From Journal of agriculture and industry of South Australia, vol. vi, no. 12.
- Quinn, George.** The codlin moth. Some Tasmanian experiences . . . [Adelaide] 1902.  
110-114 p. 24 $\frac{1}{2}$ cm.  
From Journal of agriculture and industry of South Australia, Sept. 1, 1902.
- Quinn, George.** Spraying tests for codlin moth . . . [Adelaide] 1902.  
19-21 p. diagrs. 24cm.  
From Journal of agriculture and industry of South Australia, Aug. 1, 1902.
- Reuter, Enzio.** . . . *Tortrix paleana* Hb. En my fiende till våra ängar och åkrar. Bidrag till artens naturalhistoria . . . [Helsingfors] 1893.  
[82]-94 p. 22 $\frac{1}{2}$ cm.  
Öfvertryck ur Sällskapet pro fauna et flora fennica, Meddelanden 19, 1893.
- Riley, Charles Valentine.** Descriptions of some new Tortricidæ (leaf-rollers) . . . [St. Louis] 1881.  
9 p. 23cm.  
From the Transactions of the St. Louis academy of science, vol. iv, no. 2, April 28, 1881.
- Scott, G. Shaw.** Codlin moth. By G. Shaw Scott . . . [Bloemfontein, 1904]  
6 p. illus. 24 $\frac{1}{2}$ cm. (Orange River Colony. Department of agriculture . . . Farmers' bulletin, no. iv)  
Text in English and Dutch.
- Scudder, Samuel Hubbard.** . . . The pine moth of Nantucket—*Retinia frustana*—by Samuel H. Scudder. Boston, A. Williams and company, 1883. Agr 4—3603  
20, [2] p. col. pl. 23 $\frac{1}{2}$ cm. (Publications of the Massachusetts society for the promotion of agriculture)
- Simpson, Charles Baird.** The codling moth. Washington, 1903.  
105 p. illus., 16 pl. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 41)  
"Bibliography": p. 97-105.
- Simpson, Charles Baird.** Control of the codling moth. Washington, 1903.  
24 p. illus. 23cm. (U. S. Agriculture, Dept. of. Farmers' bulletin 171)
- Simpson, Charles Baird.** Report on the codling-moth investigations in the northwest during 1901. Washington, 1902.  
29 p. illus., 5 pl. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 35)
- Thomas, Friedrich August Wilhelm.** Der fichtennestwickler in Thüringen . . . [Berlin, 1891]  
[619]-620 p. 24 $\frac{1}{2}$ cm.  
From Gartenflora, 40. jahrg., p. 619-620.
- Victoria, Australia—Dept. of agriculture.** . . . Codlin moth experiments. [Melbourne, 1902]  
30 p. illus. 21 $\frac{1}{2}$ cm (Its Guides to growers, no. 49)
- Victoria, Australia.—Dept. of agriculture.** . . . Codlin moth. Report of the Secretary for agriculture . . . Melbourne, J. Ferres, government printer, 1885.  
12 p. 34 $\frac{1}{2}$ cm.  
Report made by D. Martin.
- Wachtl, Fritz A.** . . . Die weisstannen-triebwickler *Tortrix murinana* Hübner, *Steganoptycha rufimitrana* Herrich-Schaeffer und ihr auftreten in der forsten von Nieder-Oesterreich, Mähren und Schlesien während des letztabgelaufenen decen-

niums. Von Fritz A. Wachtl . . . Mit fünf tabellen und zwölf tafeln in farbendruck und lithographie. Wien, G. P. Faesy, 1882.

vii, 66 p., 4 l. XII pl. (partly col.) tables (partly fold.) 28<sup>cm</sup>. (Mittheilungen aus dem forstlichen versuchswesen Oesterreichs)

**Walsingham, Thomas De Grey, 6th lord.** . . . Asiatic Tortricidæ . . . [London, 1900]

[114] p. 22<sup>cm</sup>.

From the Annals and magazine of natural history (ser. 7) vol. v, p. 368-386, 451-469, 481-490; vol. vi, p. 121-137, 234-243, 333-341, 401-409, 429-448.

**Walsingham, Thomas De Grey, 6th lord.** Illustrations of typical specimens of Lepidoptera Heterocera in the collection of the British museum. Part iv-North-American Tortricidæ. By Lord Walsingham. London, Printed by order of the trustees, 1879.

xi, 84 p. LXI-LXXVII col. pl. 33<sup>cm</sup>.

**Wilkinson, Samuel James.** The British tortrices. By S. J. Wilkinson. London, J. Van Voorst, 1859.

Agr 3-377

vii, [1], 328 p., 4 l. iv pl. 23<sup>cm</sup>.

#### TINEIDÆ.

**Berlese, Antonio.** . . . La tignuola del melo (*Hyponometa malinellus* Zell.) ed il modo di combatterla . . . Padova, 1893.

1 p. l., 24, [1] p. illus., col. pl. 23½<sup>cm</sup>.

Estratto dalla Rivista di patologia vegetale, n. 1-6, 1893.

**Boll, Jacob.** Ueber die befruchtung der nordamerikanischen *Yucca*-arten. [n. p., 1876]

4 p. illus. 22<sup>cm</sup>.

**Bos, Jan Ritzema.** . . . De "spruitvreter" der bessenstruiken (*Incurvaria capitella* L) [Gent, 1897]

4 p. 23<sup>cm</sup>.

Overgedrukt uit het "Tijdschrift over plantenziekten," 6. afl., 1897.

**Busck, August.** . . . New species of moths of the super-family Tineina from Florida . . . Washington, 1900.

225-254 p. 1 pl. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol xxiii, p. 225-254. <No. 1208>

**Busck, August.** . . . A review of the American moths of the genus *Depressaria* Haworth, with descriptions of new species . . . Washington, 1902.

[731]-749 p. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxiv, p. 731-749. <No. 1268>

**Busck, August.** . . . Tineid moths from British Columbia, with descriptions of new species . . . Washington, 1904.

[745]-778 p. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxvii, p. 745-778. <No. 1375>

**Carter, Landon.** Observations concerning the fly-weevil that destroys the wheat, with some useful discoveries and conclusions concerning the propagation and progress of that pernicious insect, and the methods to be used to prevent the destruction of the grain by it . . . [Philadelphia, 1771]

205-217 p. 24<sup>cm</sup>.

From the Transactions of the American philosophical society. 1771, vol. 1.

**Chambers, Vactor Tousey.** Annual address [1879: The metamorphoses of insects as illustrated in the tineid genus *Lithocolletis* of Zeller] Cincinnati, 1879.

22 p. 1 pl. 22<sup>cm</sup>.

From the Journal of the Cincinnati society of natural history, vol. ii, no. 2, July 1879.

**Chambers, Vactor Tousey.** . . . Descriptions of new Tineina from Texas, and others from more northern localities . . . [Washington, 1878]

79-106 p. 23½<sup>cm</sup>. [With his *The Tineina of Colorado*]

From the Bulletin of the United States geological and geographical survey of the territories, v. 4, p. 79-106.

**Chambers, Vector Tousey.** . . . Index to the described Tineina of the United States and Canada . . . [Washington, 1878]

125-167 p. 23½<sup>cm</sup>. [*With his* The Tineina of Colorado]

From the Bulletin of the United States geological and geographical survey of territories, v. 4, p. 125-167.

**Chambers, Vector Tousey.** . . . Notes on a collection of tineid moths made in Colorado in 1875 by A. S. Packard, jr., M. D. . . . [Washington, 1877]

143-145 p. illus. 23½<sup>cm</sup>. [*With his* The Tineina of Colorado]

From the Bulletin of the United States geological and geographical survey of the territories, v. 3, p. 143-145.

**Chambers, Vector Tousey.** . . . On *Pronuba yuccasella* (Riley), and the habits of some Tineina . . . [Cincinnati] 1878.

14 p. illus. 23<sup>cm</sup>.

From the Journal of the Cincinnati society of natural history, vol. 1, October, 1878.

**Chambers, Vector Tousey.** . . . On the distribution of Tineina in Colorado . . . [Washington, 1877]

[147]-150 p. 23½<sup>cm</sup>. [*With his* 'The Tineina of Colorado.']

From the Bulletin of the United States geological and geographical survey of the territories, v. 3, p. 147-150.

**Chambers, Vector Tousey.** . . . Tineina and their food-plants. [Washington, 1878]

[107]-123 p. 23<sup>cm</sup>.

From Bulletin of U. S. Geol. and geog. survey of the territories, vol. iv, no. 1, 1878.

**Chambers, Vector Tousey.** . . . The Tineina of Colorado . . . [Washington, 1877]

121-142 p. 23½<sup>cm</sup>.

From Bulletin of the United States geological and geographical survey of the territories, v. 3, p. 121-142.

**Clemens, Brackenridge.** The Tineina of North America, by (the late) Dr. Brackenridge Clemens. (Being a collected edition of his writings on that group of insects) With notes by the editor, H. T. Stainton . . . London, J. Van Voorst, 1872.

Agr 4—3512

xv, 282 p. illus. 23<sup>cm</sup>.

**Edwards, Henry.** . . . Notes on the habits and earlier stages of *Cryptophasa unipunctata*, Don . . . [Sydney] 1890.

[300]-302 p. 22<sup>cm</sup>.

From vol. v (series 2d) of the "Proceedings of the Linnean society of New South Wales" (25th June, 1890).

**Froggatt, Walter Wilson.** The potato moth (*Lita solanella*, Boisds.) . . . Sydney, 1903.

321-326 p. col. pl. 25<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. xiv.

"Bibliography dealing with the potato-moth": p. 325-326.

**Great Britain—Board of agriculture.** . . . The diamond-back moth (*Plutella cruciferarum*, Zeller) [London, 1894]

5 p. illus. 22½<sup>cm</sup>. (*Its* [Leaflet] 1894 [no.] 3)

— — [London, 1898]

6 p. illus. 21½<sup>cm</sup>. (*Its* Leaflet no. 22)

**Great Britain—Board of agriculture.** . . . The pith moth (*Laverna atra*, Harv.) [London, 1903]

3 p. 21<sup>cm</sup>. (*Its* Leaflet no. 90)

**Great Britain—Board of agriculture.** . . . The raspberry moth (*Lampronia rubiella*) [London, 1892]

3 p. illus. 24½<sup>cm</sup>. (*Its* [Leaflet] 1892 [no.] 4)

— — [London, 1893]

[71]-73 p. illus. 24½<sup>cm</sup>. (*Its* [Leaflet] 1893 [no.] 14)

**Great Britain—Board of agriculture.** The raspberry moth (*Lampronia rubiella*). [London, 1898]

3, [1] p. illus. 2¼<sup>cm</sup>. (*Its* Leaflet no. 14)

**Great Britain—Board of agriculture.** . . . The small ermine moths. (*Hypomeuta*) [London, 1900]

3, [1] p. illus. 21<sup>cm</sup>. (*Its* Leaflet no. 65)

**Great Britain—Board of agriculture.** . . . The turnip diamond-back moth. *Cerostoma xylostella*. (Curtis.) *Plutella xylostella*. (Zell.) [London, 1891]

3 p. illus. 25<sup>cm</sup>. (*Its* [Leaflet] 1891 [no.] 6)

**Hagen, Hermann August.** Über ein eigenthümliches organ in der begattungstasche zweier tineiden und dessen bedeutung für die befruchtung . . . [Leipzig, 1882]

18-21 p. 22¼<sup>cm</sup>.

From Zoologischer anzeiger, v. 5, 1882.

**Hall, William Bonell.** *Physalis viscosa* a food plant for *Gelechia nigrimaculella*, Chambers . . . [n. p., 1895?]

29-31 p. 22<sup>cm</sup>.

From the Third annual report of the Ohio state academy of science.

**Herpin, J. Ch.** Sur l'alucite ou teigne des blés et sur les moyens de la détruire, par M. le Dr. J.-Ch. Herpin . . . Paris, 1860.

26 p., 1 l. illus. 24¼<sup>cm</sup>.

Extrait des Mémoires de la Société du Berry, 1860.

**Mann, Benjamin Pickman.** The white coffee-leaf miner (*Cemistoma coffeelum* Stainton). A report as entomologist to the government of Brazil . . . Salem, 1872.

22 p. 1 pl. 22¼<sup>cm</sup>.

Reprinted from the American naturalist for June and October, 1872, vol. vi, p. 330-340, 596-607.

**Marchal, Paul.** Observations sur la biologie des hyponomeutes et remarques à propos de la distinction des espèces nuisibles aux arbres fruitiers. Bordeaux, 1902.

14 p. 24<sup>cm</sup>.

Extrait du Bulletin de la Société d'études et de vulgarisation de la zoologie agricole, 1902, no. 4.

**Marlatt, Charles Lester.** Peach twig-borer: an important enemy of stone fruits. Washington, 1898.

15 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 80)

**Marlatt, Charles Lester.** True clothes moths (*Tinea pellionella*, et al.) Washington, 1898.

8 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 36)

**Moniez, Romain Louis.** Sur l'insecte qui attaque les cèpes et mousserons desséchés et sur les moyens de le détruire . . . [Lille] 1894.

4 p. 25<sup>cm</sup>.

Extrait de la Revue biologique du nord de la France, vi, no. 9, p. 325, juin 1894.

**Ormerod, Eleanor Anne.** Report to the Royal agricultural society of England on the recent attacks (July–August, 1891) of the caterpillar of the diamond-back moth . . . London, 1891.

34 p. 21¼<sup>cm</sup>.

From the Journal of the Royal agricultural society of England. vol. ii, 3d series, pt. iii.

**Ragonot, Émile Louis.** . . . Note sur la teigne des pommes de terre (micro-lépidoptères) *Gelechia solanella*, Boisd., très-nuisible aux pommes de terre en Algérie . . . Paris, 1875.

7 p. 24<sup>cm</sup>.

Extrait du Bulletin de la Société d'acclimatation (N° d'avril 1875).

**Reuter, Enzo.** . . . Om de finska arterna af bombycidsläktet *Nola* Leach . . . [Helsingfors] 1893.

[119]-125 p. 23<sup>cm</sup>.

Öfvertryck ur Meddel. af Soc. pro fauna et flora fennica, 19, 1893.



**Riley, Charles Valentine.** The cabbage plutella (*Plutella cruciferarum* Zell. Order Lepidoptera; family Tineidæ) New York, 1884.

6837-6838 p. illus. 41<sup>em</sup>.

From the Scientific American supplement, no. 428, March 15, 1884.

**Riley, Charles Valentine.** List of the Tineina of boreal America . . . Philadelphia, 1891.

[94]-114, [2] p. 22<sup>4</sup><sup>em</sup>.

Extracted from the List of the Lepidoptera of boreal America, by John B. Smith.

**Riley, Charles Valentine.** On the oviposition of the Yucca moth . . . [Salem, 1873]

4 p. 24<sup>em</sup>.

From the American naturalist, vol. VII, October, 1873.

**Stainton, Henry Tibbats.** The natural history of the Tineina . . . By H. T. Stainton, assisted by Prof. Zeller and J. W. Douglas. London, J. Van Voorst; [etc., etc.] 1855-70.

v. 1-18. col. plates. 23<sup>em</sup>.

In English, French, German, and Latin.

vol. III-V, VII-XIII by H. T. Stainton, assisted by Professor Zeller, J. W. Douglas, and Professor Frey.

CONTENTS.—Vol. I. Nepticula. Pt. I. Cemiostoma. Pt. I. 1855.—Vol. II. Lithocolletis. Pt. I. 1857.—Vol. III. Elachista. Pt. I. Tischeria. Pt. I. 1858.—Vol. IV. Coleophora. Pt. I. 1859.—Vol. V. Coleophora. Pt. II. 1860.—Vol. VI. Depressaria. Pt. I. 1861.—Vol. VII. Bucculatrix. Pt. I, and Nepticula. Pt. II. 1862.—Vol. VIII. Gracilaria. Pt. I, and Ornix. Pt. I. 1864.—Vol. IX. Gelechia. Pt. I. 1865.—Vol. X. Gelechia. Pt. II. 1867.—Vol. XI. Prays, Swammerdamia, Zelleria, Laverna, Glyphipteryx, Heliozela and Antispila. 1870.—Vol. XII. Cosmopteryx, Stathmopoda, Chauliodus, Asychna and Ochromolopia, and . . . the history of twelve species of the genus Depressaria. 1870.—Vol. XIII. Ochseneimeria, Phylloporia, Myrmeozela, Incurvaria, Micropteryx, Adela, Nemotois, Psecadia, Phibalocera, Enicostoma, Exæretia, and Ypsolophus. 1873.

**Stainton, Henry Tibbats.** The Tineina of southern Europe. By H. T. Stainton . . . London, J. Van Voorst, 1869.

Agr 3—367

vii, [1], 370 p. front. 23<sup>em</sup>.

**Theobald, Frederick Vincent.** The larch Coleophora or leaf miner (*Coleophora laricella*, Hübner) [New York, 1904]

181-182 p. illus. 32<sup>em</sup>.

From the Gardeners' chronicle, no. 924, Sept. 10, 1904.

**Thomas, Friedrich August Wilhelm.** . . Ueber die bildung des sackes der roenschabe . . . [n. p., 1893]

[11]-12 p. 23<sup>4</sup><sup>em</sup>.

Sonder-abdruck aus „Mittheilungen des Thür. bot. vereins," n. f., hft. v, 1893.

**Townsend, Charles Henry Tyler.** . . A mesquite tineid which constructs a bag-like case from the leaves. [San Francisco, 1893]

226-228 p. 24<sup>em</sup>.

Extract from Zoe, vol. IV, no. 3.

**Townsend, Charles Henry Tyler.** On an apparently microlepidopterous leaf-miner of the vine . . . [San Diego, Cal., 1893]

36-37 p. 24<sup>em</sup>.

From the West American scientist, vol. VIII, p. 36-37.

**Walsingham, Thomas De Grey, 6th lord.** New genera of Agdistidæ and Pterophoridaæ. London, 1892.

7 p. col. pl. 27<sup>em</sup>.

Reprinted from the "Entomologist's monthly magazine," vol. XXVII, p. 216-218 (August), 241-244 (September), 259-262 (October), 1891; and illustrated by plate XII of the first volume of "Novitates lepidopterologicae."

**Walsingham, Thomas De Grey, 6th lord.** . . A new species of Tineidæ. (*Gracilaria theivora*, Wlsm., sp. nov.) [Calcutta, 1891]

[49]-50 p. illus. 22<sup>4</sup><sup>em</sup>.

From Indian museum notes, vol. II, p. 49-50.

**Walsingham, Thomas De Grey, 6th lord.** . . . On moths collected at Aden and in Somaliland. By Lord Walsingham . . . and G. F. Hampson . . . [London, 1895]

[257]-283 p. col. pl. 22 $\frac{1}{2}$ cm.

From the Proceedings of the Zoological society of London, February 18, 1895.

**Walsingham, Thomas De Grey, 6th lord.** On some new and little known species of Tineidæ . . . [London, 1880]

77-93 p. XI-XII col. pl. 22cm.

From the Proceedings of the Zoological society of London, February 17, 1880.

**Walsingham, Thomas De Grey, 6th lord.** On some North-American Tineidæ . . . [London, 1881]

301-325 p. XXXV-XXXVI col. pl. 22cm.

From the Proceedings of the Zoological society of London, February 15, 1881.

**Whitehead, Charles.** . . . Special report of the Intelligence department on the attack of the diamond-back moth caterpillar. 1891. London, printed for H. M. Stationery off., by Eyre and Spottiswoode, 1891.

iv, 30 p. 24 $\frac{1}{2}$ cm.

At head of title: Board of agriculture.

Signed: Charles Whitehead.

#### HEPIALIDÆ.

**Olliff, Arthur Sidney.** . . . Notes on *Zelotypia Stacyi*, and an account of a variety . . . [Sydney] 1887.

[467]-470 p. 22 $\frac{1}{2}$ cm.

From vol. II (series 2nd) of the "Proceedings of the Linnean society of New South Wales" (August 31st, 1887)

**Olliff, Arthur Sidney.** . . . On a new *Pielus* from the Blue Mountains [Sydney] 1887.

[1015]-1016 p. 1 col. pl. 21 $\frac{1}{2}$ cm.

From vol. II (series 2nd) of the "Proceedings of the Linnean society of New South Wales" (December 28th, 1887)

#### HEMIPTERA.

##### GENERAL.

**Amyot, Charles Jean Baptiste.** Histoire naturelle des insectes. Hémiptères. Par C.-J.-B. Amyot . . . et Audinet Serville . . . Ouvrage accompagné de planches. Paris, Roret, 1843.

lxxvi, 675, [1] p. and atlas (12 col. pl.) 21 $\frac{1}{2}$ cm.

**Berg, Carlos.** Notas hemipterológicas . . . [Buenos Aires, 1899]

[158]-160 p. 24cm.

From Comunicaciones del Museo nacional de Buenos Aires, t. I, no. 5.

**Blanchard, Raphael.** . . . Sur la piqûre de quelques hémiptères . . . Paris, 1902.

[139]-148 p. 25 $\frac{1}{2}$ cm.

Extrait des Archives de parasitologie, t. v, no. 1.

Bibliographic material in the foot notes.

**Distant, William Lucas.** . . . Rhynchotal notes [I-VIII] [London, 1899-1901]

8 nos. in 9 pts. 22cm.

Wanting [no.] III.

From the Annals and magazine of natural history, ser. 7, vol. IV, July, September, 1899; ser. 7, vol. V, April, May, 1900; ser. 7, vol. VI, July, August, October, 1900; ser. 7, vol. VII, January, 1901.

**Fabricius, Johann Christian.** . . . Systema rhyngotorum secundum ordines, genera, species adiectis synonymis, locis, observationibus, descriptionibus. Brunsvigae, apud C. Reichard, 1803.

[iii]-x, 314, [1] p. 20 $\frac{1}{2}$ cm.

**Fieber, Franz Xaver.** Entomologische monographien . . . Sieben abhandlungen. Prag, J. G. Calve'schen buchhandlung, 1844. Agr 5—151

2 p. l., [137], [1] p. x pl. 28<sup>em</sup>.

Paging irregular. p. 137 erroneously numbered 118.

Aus den Abhandlungen der K. Böhm. gesellschaft der wissenschaften (v. folge, bd. 3)

Slip pasted over imprint reads: Leipzig, 1844, Verlag von J. A. Barth.

**Fieber, Franz Xaver.** Rhynchotographieen. Von Franz Xav. Fieber . . . Drei monographische abhandlungen. Vorträge gehalten am 21. jänner 1846 und am 8. april 1847 in den Sections-versammlungen der Königl. Böhm. Gesellschaft der wissenschaften . . . Prag, Druck der Kais. Königl. Hofbuchdruckerei von G. Haase söhne, 1851.

64 p. 27<sup>4</sup><sup>em</sup>.

"Literatur": p. [5]—6.

**Forbes, Stephen Alfred.** . . . Bacteria normal to digestive organs of Hemiptera . . . [Springfield, Ill., 1892]

6 p. 23<sup>em</sup>.

From Bulletin of the Illinois State laboratory of natural history. vol. iv.

**Kirkaldy, George Willis.** . . . Aquatic Rhynchota . . . [Torino, 1899]

2 p. 25<sup>em</sup>.

At head of title: Viaggio del Dott. A. Borelli nel Chaco boliviano e nella Republica Argentina. xvi. From Bollettino dei Musei di zoologia ed anatomie comparata della R. Università di Torino, vol.

xiv, n. 352.

**Kirkaldy, George Willis.** . . . Aquatic Rhynchota. [Torino, 1899]

4 p. illus. 25<sup>em</sup>.

At head of title: Viaggio del Dr. A. Borelli nella Repubblica Argentina e nel Paraguay, xxiv.

From Bollettino dei Musei di zoologia ed anatomia comparata della R. Università di Torino, vol.

xiv, n. 351.

**Kirkaldy, George Willis.** . . . Aquatic Rhynchota . . . [Torino, 1899]

8 p. illus. 25<sup>em</sup>.

At head of title: Viaggio del Dr. Enrico Festa nell' Ecuador e regioni vicine, xix.

From Bollettino dei Musei di zoologia ed anatomia comparata della R. Università di Torino. vol.

xiv. n. 350.

**Kirkaldy, George Willis.** . . . Aquatic Rhynchota collected by Dr. E. Festa in Darien & Venezuela. [Torino, 1899]

[1] p. 25<sup>em</sup>.

From Bollettino dei Musei di zoologia ed anatomia comparata della R. Università di Torino. vol.

xiv. n. 348.

**Kirkaldy, George Willis.** Note sopra alcuni rincoti acquatici africani del Museo civico di storia naturale di Genova . . . [Genova, 1898]

2 p. 25<sup>em</sup>.

Estratto dagli Annali del Museo civico di storia naturale di Genova. ser. 2, vol. xix (xxxix) 15 luglio 1898.

**Kirkaldy, George Willis.** . . . On some aquatic Rhynchota from South America in the collections of the Museum of zoology and comparative anatomy of the Royal university of Turin. [Torino, 1899]

2 p. 25<sup>em</sup>.

From Bollettino dei Musei di zoologia ed anatomia comparata della R. Università di Torino. vol. xiv. n. 347.

**Lethierry, Lucien.** . . . Catalogue général des hémiptères, par L. Lethierry . . . et G. Severin . . . Bruxelles, F. Hayez, imprimeur de l'Académie royale de Belgique, 1893—96.

3 v. 24<sup>4</sup><sup>em</sup>.

At head of title: Musée royale d'histoire naturelle de Belgique.

Imprint of v. 3: Berlin, R. Friedländer & fils, libraires-éditeurs, 1896.

CONTENTS.—t. I. Héteroptères; Pentatomidæ.—t. II. Héteroptères; Coreidæ, Berytidæ, Lygæidæ, Pyrrhocoridae.—t. III. Héteroptères; Tingidæ, Phymatidæ, Aradidæ, Hebridæ, Hydrometridæ, Hemiccephalidæ, Reduviidæ, Saldidæ, Apophiliidæ, Ceratocombidæ, Cimicidæ, Anthocoridae.

**Locy, William Albert.** Observations on the pulsating organs in the legs of certain Hemiptera . . . [Philadelphia, 1884]

13-19 p. illus., pl. 23<sup>cm</sup>.

From American naturalist. vol. 18.

**Löw, Franz.** Beiträge zur kenntniss der rhynchoten . . . [Wien, 1862]

8 p. 1 pl. 22<sup>½</sup><sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1862> besonders abgedruckt.

**Osborn, Herbert.** . . . Notes on the distribution of Hemiptera . . . [Des Moines?, 1893]

120-123 p. 23<sup>cm</sup>.

From Proceedings Iowa academy of sciences for 1893, vol. 1, pt. IV.

**Smith, John Bernhard.** . . . The structure of the hemipterous mouth. [New York] 1892.

[2] p. illus. 22<sup>cm</sup>.

From Science. Apr. 1, 1902, vol. XIX, no. 478.

**Spinola, Massimiliano.** Essai sur les insectes hémiptères, rhyngotes, ou hétéroptères, par Maximilien Spinola. Paris, J.-B. Baillière; [etc., etc.] 1840.

383 p. 5 fold. tab. 21<sup>½</sup><sup>cm</sup>.

" Liste des ouvrages cités ou simplement consultés dans le courant de cet essai: p. [5-6]

**Spinola, Massimiliano.** Tavola sinottica dei generi spettanti alla classe degli insetti Artroidignati, Flempitera, Linn. Latr.—Rhyngota, Fab.—Rhynchota, Burm. Memoria del socio attuale Signor marchese Massimiliano Spinola . . . Modena, Dai tipi della R. D. Camera, 1850.

138 p. 30<sup>½</sup><sup>cm</sup>.

Inserita nella pte 1<sup>a</sup> del tomo xxv, delle Memorie della Società italiana delle scienze residente in Modena.

**Stål, Carl.** Hemiptera Fabriciana. Fabricianska hemipterararter, efter de i Köpenhamn och Kiel förvarade typexemplaren granskade och beskrifne of C. Stål. Till K. Vet.-akad. inlemnad den 9 September 1868. . . . Stockholm, P. A. Norstedt & söner, 1868-69.

2 pts. in 1 v. 31<sup>cm</sup>. (Kongl. Svenska vetenskaps-akademiens Handlingar. Bandet 7. N:o 11; Bandet 8. N:o 1)

**Stoll, Caspar.** Natuurlyke en naar't leeven naauwkeurig gekleurde afbeeldingen en beschryvingen der cicaden en wantzen, in alle vier waerelds deelen, Europa, Asia, Africa en America, huishoudende, by een verzameld en beschreeven door Caspar Stoll'. Représentation exactement colorée d'après nature des cigales et des punaises, qui se trouvent dans les quatre parties du monde, l'Europe, l'Asie, l'Afrique et l'Amérique; rassemblées et décrites par Caspar Stoll'. Amsterdam, J. C. Sepp, 1780-88.

2 v. in 1. 70 col. pl. 29<sup>½</sup><sup>cm</sup>.

Each vol. has added engr. t. -p. in colors.

Dutch and French in parallel columns.

CONTENTS.—[pt. 1] Cicaden.—[pt. 2] Wantzen.

**Westwood, John Obadiah.** A catalogue of Hemiptera, in the collection of the Rev. F. W. Hope . . . with short Latin descriptions of the new species, by J. O. Westwood. . . . London, Printed by J. C. Bridgewater, 1842.

pt. 2. 24<sup>½</sup><sup>cm</sup>.

**White, Francis Buchanan White.** . . . Report on the pelagic Hemiptera procured during the voyage of H. M. S. Challenger in the years 1873-1876. By F. Buchanan White. . . . [London, Printed for H. M. Stationery off., 1883]

Agr 4-3628

2 p. l., 82, [6] p. III pl. (2 col.). 31<sup>cm</sup>. ([Report on the scientific results of the voyage of H. M. S. Challenger during the years 1873-76 . . . Zoology—vol. VI, pt. XIX])

**Zabriskie, J. L.** A curious unknown, aquatic, hemipterous larva. . . . [New York, 1891]

128-129 p. illus. 23<sup>cm</sup>.

From Journal of the New York microscopical society. Vol. VII, no. 4. October, 1891.

## FAUNA.

## UNITED STATES.

**Osborn, Herbert.** Additions to the lists of Hemiptera of Iowa, with descriptions of new species . . . [Des Moines, 1898]

9-24 p. illus. 23<sup>cm</sup>.

From Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts, no. 3.

Reprinted from Proceedings Iowa academy of sciences, vol. 5.

**Osborn, Herbert.** Contributions to the hemipterous fauna of Iowa by Herbert Osborn and E. D. Ball. [Des Moines, 1897]

[172]-234 p. xix-xxvi pl. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts, no. 2.

Reprinted from Proceedings Iowa academy of sciences, vol. iv.

CONTENTS.—I. On the life-history of Jassidæ.

**Uhler, Philip Reese.** Hemiptera of the North Pacific exploring expedition under Com'r's Rodgers and Ringgold . . . [Philadelphia, 1860]

221-231 p. 24<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, June, 1860.

**Uhler, Philip Reese.** List of Hemiptera of the region west of the Mississippi River, including those collected during the Hayden explorations of 1873 . . . [Washington, 1876]

[269]-361 p., 1 l. 19-21 pl. 23<sup>cm</sup>.

From United States geological and geographical survey of the territories. Bulletin, ser. 2, no. 5.

**Uhler, Philip Reese . . .** On the Hemiptera collected by Dr. Elliott Coues, U. S. A., in Dakota and Montana, during 1873-74 . . . [Washington, 1878]

503-512 p. 23<sup>cm</sup>.

From Bulletin of the United States geological and geographical survey of the territories, vol. iv, no. ii, 1878.

**Van Duzee, Edward P.** A list of the Hemiptera of Buffalo and vicinity . . . [Buffalo, 1894]

[168]-240 p. 23<sup>cm</sup>.

From the Bulletin of the Buffalo society of natural sciences, vol. v, no. iv.

## FOREIGN.

**Atkinson, Edwin T.** New or little known Indian Rhynchota. By E. T. Atkinson . . . Calcutta, Printed by G. H. Rouse, 1888.

1 p. l., 333-345 p. col. pl. 23<sup>cm</sup>.

Reprinted from the Journal of the Asiatic society of Bengal, vol. LVII, pt. 2, no. 4, 1888.

**Berg, Carlos.** . . . Contribución al estudio de los hemípteros de la Tierra del Fuego . . . Buenos Aires, 1896.

7 p. 27<sup>cm</sup>.

From Anales del Museo nacional de Buenos Aires, tomo v, p. 131 à 137.

**Berg, Carlos.** Hemiptera argentina enumeravit speciesque novas descripsit Carolus Berg. Bonariæ, Ex-typographiæ P. E. Coni, [etc., etc.] 1879. Agr 3-770

viii, 9-316 p. 24<sup>cm</sup>.

**Berg, Carlos.** . . Hemípteros de la Tierra del Fuego, coleccionados por el Señor Carlos Backhausen y descritos por el Doctor Carlos Berg . . . Buenos Aires, 1895.

1 p. l., [195]-206 p. 27<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

From Anales del Museo nacional de Buenos Aires. t. iv, p. 195 à 206.

**Berg, Carlos.** Nova Hemiptera faunarum Argentinæ et Uruguayensis, descripsit Carolus Berg . . . Bonariæ, Ex typographiæ P. E. Coni et filiorum, 1891-92.

1 p. l., 112 p. 24<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

Ex: Anal. Soc. cient. argent. t. xxxii (1891) et t. xxxiii & xxxiv (1892)

**Breiddin, Gustav.** Die hemipteren von Celebes; ein beitrage zur faunistik der insel, von Gustav Breiddin . . . Stuttgart, E. Schweizerbart'sche verlagshandlung (E. Naegle) 1901.

Agr 4—3397

213 p., 21. pl. 25<sup>cm</sup>.

Sonderabdruck a. d. Abhandlungen der Naturforschenden gesellschaft zu Halle, bd. xxiv.

**Carpenter, George Herbert.** Reports on the zoological collections made in Torres Straits by Professor A. C. Haddon, 1888—1889. Rhynchota from Murray Island and Mabuiag . . . [Dublin, 1891]

137—146 p. XII—XIII pl. 21<sup>cm</sup>.

Reprinted from Scientific proceedings of the Royal Dublin society. vol. VII.

**Dallas, William Sweetland.** List of the specimens of hemipterous insects in the British museum . . . London, Printed by order of the trustees, 1851—52.

2 pts. 18<sup>cm</sup>.

Agr 7—329

Paged continuously: 2 p. 1., 368 p.; 2 1., 369—592 p.

**Dominique, J.** Catalogue des hémiptères (hétéroptères, homoptères, psyllides) de la Loire-Inférieure . . . [Nantes, 1902]

[165]—230 p., 11. 25½<sup>cm</sup>.

From the Bulletin, Société des sciences naturelles de l'ouest de la France. 2. sér., t. II.

**Douglas, John William.** A catalogue of British Hemiptera; Heteroptera, and Homoptera (Cicadaria and Phytophthires), comp. by John William Douglas and John Scott. Published by the Entomological society of London. (Being part of a proposed General catalogue of the insects of the British Isles) London, Printed for the Society by A. Napier, 1876.

viii, 99, [1] p. 22½<sup>cm</sup>.

**Faune entomologique armoricaine. Hémiptères.** v. 1, 1.—3. familles. Rennes, Impr. F. Simon, 1904.

3 pts. in 1. 25½<sup>cm</sup>.

Publié par la Société scientifique et médicale de l'ouest.

CONTENTS.—Vol. 1. Hétéroptères, par J. Guérin et J. Péneau. 1.—3. familles. Pentatomides, coréides, bérytides.

**Fieber, Franz Xaver.** Die europäischen Hemiptera. Halbflügler. (Rhynchota Heteroptera) Nach der analytischen methode bearbeitet, von Dr. Franz Xaver Fieber . . . Mit zwei lithographirten tafeln. Wien, C. Gerold's sohn, 1861.

vi, 444 p. II pl. 23½<sup>cm</sup>.

**Flor, Gustav.** Die rhynchoten Livlands in systematischer folge beschrieben von Dr. Gustav Flor . . . Dorpat, 1860—61.

5—4191

2 v. 23½<sup>cm</sup>. (Added t.p.: Archiv für die naturkunde Liv-, Est- und Kurlands. Hrsg. von der Dorpater naturforscher-gesellschaft. 2. ser. Biologische naturkunde. 3.—4. bd.)

CONTENTS.—1. th. Rhynchota frontirostria Zett.—2. th. Rhynchota gulaerostria Zett.

**Froggatt, Walter Wilson.** Notes on Australian Hemiptera. (Plant bugs) . [Sidney, 1901—02]

pt. 1—2. col. pl. 24<sup>cm</sup>.

From Agricultural gazette of N. S. Wales, vol. XII, p. 1592—1601; vol. XIII, p. 318—324.

**Harrington, W. Hague.** Fauna Ottawaensis. Hemiptera . . . [Ottawa, Canada, 1894]

66—67 p. 21½<sup>cm</sup>.

From Ottawa naturalist, vol. VIII, no. 4.

**Horváth, Géza von.** . . . Adnotationes synonymicæ de hemipteris palæarcticis . . . [Budapest] 1903.

[555]—558 p. 26<sup>cm</sup>.

From Annales Muséi nationalis hungarici, vol. I, 1903.

**Horváth, Géza von.** . . . Descriptions of new Hemiptera from New South Wales . . . [Budapest] 1902.

[601]—612 p. 25<sup>cm</sup>.

From Természettudományi közlönyök, vol. XXV, 1902.

**Horváth, Géza von.** . . . Hemiptera nonnulla nova asiatica. [Budapest, 1892]

[134]-137 p. 26<sup>cm</sup>.

Editio separata e Természetráji füzetek, vol. xv, pte. 3, 1892. A Museo nationali hungarico Budapestinensi vulgato.

**Horváth, Géza von.** . . . Hemiptera nova africana. [Budapest, 1892]

[254]-267 p. 26<sup>cm</sup>.

Editio separata e Természetráji füzetek, vol. xv, pte. 4, 1892. A Museo nationali hungarico Budapestinensi vulgato.

**Horváth, Géza von.** Hemiptera nova palæarctica . . . [Budapest, 1896]

[322]-329 p. 26<sup>cm</sup>.

Editio separata e Természetráji füzetek, vol. xix, 1896. A Museo nationali hungarico Budapestinensi vulgato.

**Horváth, Géza von.** . . . Hemiptera nova turkestanica . . . [Budapest, 1895]

[221]-225 p. 25<sup>cm</sup>.

Editio separata e Természetráji füzetek, vol. xviii, pte. 3-4, 1895. A Museo nationali hungarico Budapestinensi vulgato.

**Horváth, Géza von.** . . . Insecta heptapotamica a DD. Almásy et Stummer-Traunfels collecta. I. Hemiptera . . . [Budapest] 1904.

[574]-590 p. 25<sup>cm</sup>.

From Annales Musei nationalis hungarici, vol. ii, 1904.

**Horváth, Géza von.** Ordo. Hemiptera. Conscriptit Dr. G. Horváth. (Subordo Aptera a R. Kohaut) [Budapest, 1897]

72 p. map. 26½<sup>cm</sup>. (. . . Fauna regni Hungariæ. Animalium Hungariæ hucusque cognitorum enumeratio systematica. In memoriam regni Hungariæ mille abhinc annis constituti edidit Regia societas scientiarum hungarica. III. Arthropoda. (Insecta-Hemiptera)

**Kirby, William Forsell.** . . . Catalogue of the described Hemiptera Heteroptera and Homoptera of Ceylon, based on the collection formed (chiefly at Pundaloya) by Mr. E. Ernest Green . . . [London, 1891]

[71]-176 p. 4-6 pl. (1 col.) 22<sup>cm</sup>.

Extracted from the Linnean society's Journal.—Zoology, vol. xxiv.

**Marquand, Ernest D.** The Hemiptera of the Land's End district. [n. p., n. d.]

[29]-33 p. 22½<sup>cm</sup>.

From Transactions of the Natural history and antiquarian society of Penzance.

**Puton, Auguste.** Catalogue des hémiptères (hétéroptères, cicadines et psyllides) de la faune paléarctique, par le D<sup>r</sup>. A. Puton . . . 3. éd. Caen, Imprimerie le Blanc-Hardel, H. Delesques, successeur, 1886.

99, [1] p. 22½<sup>cm</sup>.

— — — 4. éd. Caen, Au bureau de la Société française d'entomologie, 1899.

121 p. 22<sup>cm</sup>.

Issued with Revue d'entomologie, tome xviii.

**Reuter, Odo Morannal.** Hemiptera gymnocerata Europæ. Hémiptères gymnocrates d'Europe, du bassin de la Méditerranée et de l'Asie Russe, décrites par O. M. Reuter. [Helsingfors, Imprimerie de la Société finlandaise de littérature, 1878]-96.

5 v. 34 pl. (27 col.) 28½<sup>cm</sup>.

Vol. i-iii form vol. xiii of the Acta Soc. Fennicæ.

**Sahlberg, John.** Bidrag till Tschuktsch-Halföns insektfauna. See under Coleoptera, p. 201.

**Sahlberg, John.** Coleoptera och Hemiptera insamlade af Vega-expeditionens medlemmar å Berings Sunds Amerikanska kust. See under Coleoptera, p. 201.

**Sahlberg, John.** Coleoptera och Hemiptera insamlade af Vega-expeditionens medlemmar på Bering-On. See under Coleoptera, p. 201.

**Schouteden, H.** . . . Faune entomologique de l'Afrique tropicale. Rhynchota æthiopica, auctore H. Schouteden . . . Bruxelles [Spineux et c<sup>o</sup>] 1903-05.

pt. 1-2. illus., ii col. pl. 37½<sup>cm</sup>. (État indépendant du Congo. Annales du Musée du Congo . . . Zoologie. Sér. III [tome I, fasc. I-II])

CONTENTS.—I. Scutellerinæ et Graphosomatidæ. II. Arminæ et Tessaratominæ.

**Signoret, Victor.** Hémiptères, par M. Signoret. [Paris, 1888] Agr 3—1265  
7 p. 28<sup>cm</sup>. ([Ministères de la marine et de l'instruction publique. Mission scientifique du Cap  
Horn. 1882-1883. Tome VI. Zoologie. Insectes])  
Caption title.

**Stål, Carl.** . . . Enumeratio hemipterorum. Bidrag till en förteckning öfver  
alla hittills kända Hemiptera, jemte systematiska meddelanden, af C. Stål . . .  
Stockholm, P. A. Norstedt & söner, 1870-76.  
5 pts. in 1 v. 30<sup>cm</sup>.

**Stål, Carl.** Hemiptera africana descripsit Carolus Stål . . . Holmiæ, ex officina  
Norstedtiana, 1864-66.  
4 v. in 1. 22<sup>cm</sup>.

**Stål, Carl.** Hemiptera insularum philippinarum. Bidrag till philippinska öarnes  
hemipter-fauna . . . [Stockholm, 1871]  
607-776 p. VII-IX pl. 22½<sup>cm</sup>.  
Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1870, no. 7.

**Uhler, Philip Reese.** . . . List of Hemiptera-Heteroptera of Las Vegas Hot  
Springs, New Mexico, collected by Messrs. E. A. Schwarz and Herbert S. Barber . . .  
Washington, 1904.  
1 p. l., 349-364 p. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. XXVII, p. 349-364 <No. 1360>

**Uhler, Philip Reese.** . . . Summary of the Hemiptera of Japan, presented to  
the United States national museum by professor Mizukuri . . . Washington, 1896.  
255-297 p. 24½<sup>cm</sup>.  
From the Proceedings of the United States national museum, vol. XIX, p. 255-297 <No. 1108>

## FAMILIES.

### HETEROPTERA.

**Berg, Carlos.** . . . Descripciones de algunos hemípteros heterópteros nuevos ó  
poco conocidos, por el Dr. Carlos Berg . . . Montevideo, Imprenta artística de Dor-  
nache y Reyes, 1894.  
[3]-19 p. 29<sup>cm</sup>.  
De los "Anales del Museo nacional de Montevideo" (1, p. 13-27.—1894)

**Biologia centrali-americana.** Insecta. Rhynchota. Hemiptera-Heteroptera . . .  
[London, Pub. for the editors by R. H. Porter] 1880-1901. Agr 5—500  
2 v. plates (partly col.) 32<sup>cm</sup>.  
Vol. I by W. L. Distant; vol. II by G. C. Champion.  
Issued in parts.  
Cover-titles: Biologia centrali-americana; or, Contributions to the knowledge of the fauna and flora  
of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.  
Aug. 1893-1901, ed. by F. Ducane Godman.

**Castelnau, Francis L. de Laporte, comte de.** Essai d'une classification systé-  
matique de l'ordre des hémiptères (hémiptères hétéroptères, Latr.) . . . [Paris,  
1832]  
88 p. 51-55 pl. 22<sup>cm</sup>.  
From Magasin de zoologie, 1832, tome 2.

**Douglas, John William.** The British Hemiptera, vol. I. Hemiptera-Heterop-  
tera. By John William Douglas, and John Scott. London, Pub. for the Ray society  
by R. Hardwicke, 1865. Agr 3—779  
xii, 627, [1] p., 21 l. 21 pl. 23<sup>cm</sup>.  
Added t.-p.: The Ray society . . . London, 1865.

**Fieber, Franz Xaver.** Genera hydrocoridum secundum ordinem naturalem in  
familias disposita, auctore Francisco Xaverio Fieber . . . Pragæ, Ex Cæs. Reg.  
Aulica typographia filiorum A. Haase, 1851.  
30 p., 1 l. IV pl. 29<sup>cm</sup>.  
Ex Actis Regiæ bohemiæ societatis scientiarum.



**Glover, Townend.** Heteroptera or plant-bugs. (U. S. Agriculture, Commissioner of. Report of the Commissioner for the year 1875. Washington, 1876. p. 114-140. illus.)

**Glover, Townend.** Manuscript notes from my journal; or, Illustrations of insects, native and foreign. Order Hemiptera, suborder Heteroptera, or plant-bugs. By Townend Glover . . . Washington, Written & etched by Townend Glover; transferred to and printed from stone by J. C. Entwisle, 1876.

1 p. l., II numb. 1., 10 l., 132 numb. 1. x pl. (9 col.) 30<sup>cm</sup>.

**Hahn, Carl Wilhelm.** Die wanzenartigen insecten. Getreu nach der natur abgebildet und beschrieben von Dr. Carl Wilhelm Hahn . . . Nürnberg, C. H. Zeh, 1831-53.

Agr 3-785

9 v. cccxxiv pl. (partly col.) 21<sup>4</sup><sup>cm</sup>.

Continued, from the second half of v. 3, by G. A. W. Herrich-Schäffer.

Imprint of v. 8-9: Nürnberg, J. L. Lotzbeck, 1848-53.

**Horváth, Géza von.** Heteroptera anatica in regione Brussæ collecta . . . [Budapest, 1883]

21-30 p. 25<sup>cm</sup>.

From Természetráji füzetek, vol. 7, 1883.

**Horváth, Géza von.** Hydrocorisæ tres novæ . . . [Budapest] 1904.

[594]-595 p. 25<sup>cm</sup>.

From Annales Musei nationalis hungarici, vol II, 1904.

**Léon, Nicu.** . . . Disposition anatomique des organes de succion chez les hydrocores et les géocores par le Dr. N. Léon . . . Jassy, Imprimerie nationale, 1888. 20 p. illus. 17<sup>4</sup><sup>cm</sup>. (Publications du Bulletin de la Société des médecins et naturalistes de Jassy)

**Léon, Nicu.** Recherches morphologiques sur les pièces labiales des hydrocores par le Dr. N. Léon . . . Jassy, Tip. "Dacia" P. Iliescu & D. Grossu, 1901.

cover-title, 13 p. 23<sup>4</sup><sup>cm</sup>.

**Martin, Joanny.** Hémiptères hétéroptères nouveaux d'Asie . . . [Paris, 1902] 5 p. illus. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n° 5, p. 333.

**Montandon, Arnold L.** Contributions à la faune entomologique de la Roumanie. Nouvelles espèces d'hémiptères-hétéroptères . . . [Bucarest, 1895]

5 p. 32 x 23<sup>cm</sup>.

Extrait du Bulletin des sciences physiques, n° 11 et 12, 1895.

**Montandon, Arnold L.** Deux espèces d'hémiptères hétéroptères des collections du Muséum de Paris . . . [Paris, 1899]

3 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1899, n° 2, p. 79.

**Montandon, Arnold L.** Deux hémiptères nouveaux (section des hydrocorises Latr.) . . . Caen, 1892.

1 p. l., [73]-76 p. 21<sup>4</sup><sup>cm</sup>.

**Montandon, Arnold L.** . . . Hemiptera cryptocera . . . [Genova, 1897]

13 p. 26<sup>cm</sup>.

At head of title: Viaggio di Leonardo Fea in Birmania e regioni vicine. LXXV.

Estratto dagli Annali del Museo civico di storia naturale di Genova, serie 2<sup>a</sup>, vol. xvii (xxxvii) 8 febbraio 1897.

**Montandon, Arnold L.** Hémiptères hétéroptères nouveaux des collections du Muséum de Paris . . . [Paris, 1898]

4 p. 25<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1898, n° 2, p. 72-75.

**Montandon, Arnold L.** . . . Hémiptères hétéroptères; première liste et descriptions d'espèces nouvelles . . . [Torino] 1895.

10 p. 24<sup>cm</sup>.

At head of title: Viaggio del Dott. A. Borelli nella Repubblica Argentina e nel Paraguay. xviii.

From Bollettino dei Musei di zoologia ed anatomia comparata della R. Università di Torino, vol. x, n. 219, 12 dicembre 1895.

**Montandon, Arnold L.** . . . Notes on American Hemiptera Heteroptera . . . Washington, 1893.

45-52 p. 25<sup>em</sup>.

From the Proceedings of the United States national museum, vol. xvi, p. 45-52. <No. 924>

**Mulsant, Martial Étienne.** Histoire naturelle des punaises de France, par E. Mulsant . . . et Cl. Rey. Paris, F. Savy; [etc.] 1865-66.

v. 1-2. 2 pl. 28<sup>em</sup>.

**Noualhier, Maurice.** Hémiptères gymnocérates récoltés au Senegal par M. Chevreux (campagne de la goélette Melita en 1889-1890), avec la description des espèces nouvelles . . . [Paris, 1898]

2 p. 24<sup>em</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1898, n° 5, p. 232.

**Osborn, Herbert.** Notes on South American Hemiptera-Heteroptera. . . [Columbus? 1904]

[195]-204 p. 23½<sup>em</sup>. (Contributions from the Department of zoology and entomology, O. S. U., no. 20)

From the Ohio naturalist, vol. v, no. 1.

**Pittier de Fabrega, Henri F.** . . . Hemípteros heterópteros (especies hasta hoy coleccionadas y determinadas) por H. Pittier y P. Biolley. San José de Costa Rica, A. C., Tipografía nacional, 1895.

24 p. 19½<sup>em</sup>. (Instituto físico geográfico nacional. Invertebrados de Costa Rica II)

**Say, Thomas.** Descriptions of new species of heteropterous Hemiptera of North America. . . New Harmony, Indiana. December, 1831. [Albany, 1858]

755-814 p. 22½<sup>em</sup>.

From Transactions Agricultural society of New York, 1857, vol. 17.

Reprint of a tract published in 1831.

"Correspondence relative to the insect that destroys the cotton plant," p. 813-814.

**Schellenberg, Johann Rudolph.** Das geschlecht der land und wasserwanzen: Nach familien geordnet mit abbildungen, von J. R. Schellenberg. Zürich, Orell, Füßli und compagnie, 1800.

Agr 5-238

32 p. xiv col. pl. 22½<sup>em</sup>.

**Uhler, Philip Reese.** Check-list of the Hemiptera Heteroptera of North America. By Philip R. Uhler. Brooklyn, N. Y., Brooklyn entomological society, 1886.

2 p. 1., 29, [3] p. 23<sup>em</sup>.

Agr 5-244

**Uhler, Philip Reese.** . . . Notices of some Heteroptera in the collection of Dr. T. W. Harris . . . [Boston, 1871]

17 p. 23<sup>em</sup>.

From the Proceedings of the Boston society of natural history, February 1, 1871.

**Uhler, Philip Reese.** Observations of some remarkable Heteroptera of North America . . . [Baltimore, 1892]

179-184 p. 24½<sup>em</sup>.

From Transactions of the Maryland academy of sciences, May 1892.

**Uhler, Philip Reese.** Observations upon the heteropterous Hemiptera of Lower California, with descriptions of new species . . . [San Francisco, 1894]

[223]-295 p. 25<sup>em</sup>.

Extract from Proc. Cal. Acad. sci. ser. 2, vol. iv.

**Uhler, Philip Reese.** On the Hemiptera-Heteroptera of the island of Grenada, West Indies . . . [London, 1894]

167-224 p. 22½<sup>em</sup>.

From the Proceedings of the Zoological society of London, March 6, 1894.

**Walker, Francis.** Catalogue of the specimens of heteropterous-Hemiptera in the collection of the British museum. By Francis Walker . . . London, Printed for the trustees of the British museum, 1867-73.

8 pts. 22½<sup>em</sup>.

Pt. 3-8 title reads: Catalogue of the specimens of Hemiptera Heteroptera in the collection of the British museum.

- Walker, Francis.** Catalogue of Hemiptera Heteroptera in the British museum. By Francis Walker. Supplement. London, E. W. Janson, 1873.  
vi, 63 p. 21<sup>cm</sup>.
- Wolff, Johann Friedrich.** Abbildungen der wanzen, mit beschreibungen, von Johann Friedrich Wolff . . . Erlangen, J. J. Palm, 1800-11.  
5 pts. in 1 v. xx pl. 27<sup>cm</sup>.

## PENTATOMIDÆ.

- Atkinson, Edwin T.** Description of some new hemipterous insects belonging to the genus *Chrysocoris*, Hahn . . . [Calcutta, 1887]  
3 p. 23<sup>cm</sup>.  
From the Proceedings, Asiatic society of Bengal, for January, 1887.
- Atkinson, Edwin T.** Notes on Indian Rhynchota, Heteroptera, No. 1[-5] [completing the family Pentatomidæ] By E. T. Atkinson . . . Calcutta, 1887-88.  
5 nos. 23<sup>cm</sup>.  
Reprinted from the Journal of the Asiatic society of Bengal, vol. LVI, pt. II, no. 1-2; vol. LVII, pt. II, no. 1-2; vol. LVIII, pt. II, no. 1.  
Index from vol. LVIII, pt. II, no. 5, 1890.
- Costa, Achille.** Additamenta ad centurias cimicum regni Neapolitani auctore Achille Costa . . . xvi kalendas septembris 1860. [Naples, 1863]  
41 p. III col. pl. 29<sup>cm</sup>.  
From Atti del Real Istituto d'incoraggiamento alle scienze naturali di Napoli. Tomo x, 1863.
- Fallén, Karl Fredrik.** Hemiptera Sveciæ. Cimicides eorumque familiæ affines. Auctore Carol. Fred. Fallén . . . Londini Gothorum, ex officina Berlingiana, 1829.  
4 p. 1., 186, [2] p. 19<sup>cm</sup>. Agr 4-1784  
Added t. -p.: Hemiptera Sveciæ. Descripta a Carolo Fr. Fallén . . . Sectio prior. Hemelytrata.  
First issued in 12 dissertations, 1828-29.  
Bound with this is his [Hemiptera Sveciæ; Cicadariæ, Fulgorides, Tettigonides] which appeared in 6 dissertations in 1826.
- Fallén, Karl Fredrik.** Monographia cimicum Sueciæ. Auctore Carol. Fred. Fallén . . . Hafniæ, apud G. Bonnierum, 1818.  
16 p., 1 l., [17]-123 p. 20½<sup>cm</sup>.
- Horváth, Géza von.** . . . Conspectus specierum generis *Graphosoma* . . . [Budapest] 1903.  
[345]-354 p. 25<sup>cm</sup>.  
From Annales Musei nationalis hungarici, 1903.
- Horváth, Géza von.** Pentatomidæ novæ africanæ . . . Budapest, 1904.  
[253]-271 p. 25<sup>cm</sup>.  
From Annales Musei nationalis hungarici, vol. II, 1904.
- Horváth, Géza von.** . . . Pentatomidæ novæ extraeuropææ . . . [Budapest, 1903]  
[400]-409 p. 24½<sup>cm</sup>.  
From Annales Musei nationalis hungarici, vol. 1, 1903.
- Howard, Leland Ossian.** The harlequin cabbage-bug, or calico back (*Murgantia histrionica* Hahn) Washington, 1895.  
2 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 10)
- Künckel d'Herculis, Jules Philippe Alexandre.** La punaise de lit et ses appareils odoriférants—Des glandes abdominales dorsales de la larve et de la nymphe; des glandes thoraciques sternales de l'adulte . . . [Paris, 1886]  
4 p. 27<sup>cm</sup>.
- Künckel d'Herculis, Jules Philippe Alexandre.** . . . Recherches sur les glandes odorifiques des insectes hémiptères, et particulièrement sur celles de la punaise de lit. Mécanisme de la sécrétion. Valeur dans la classification. [Paris, 1886]  
5 p. illus. 24½<sup>cm</sup>.

- Marlatt, Charles Lester.** Bedbug. Washington, 1902.  
8 p. illus. 22<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 47)  
"Revised reprint from Bulletin 4, new series, Division of entomology, U. S. department of agriculture, pp. 32-38."
- Martin, Joanny.** Catalogue des hémiptères Plataspidinæ des collections du Muséum d'histoire naturelle de Paris . . . [Paris, 1899]  
5 p. 24<sup>cm</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle—1899, no. 5, p. 229.
- Mokrzhetskiï, Sigismund A.** . . . Хлѣбная черепашка въ Крыму. (Клопъ Eurygaster maurus Fabr.) Изслѣдованіе С. А. Мокржецкаго . . . Симферополь, Типографія Спино, 1894.  
1 p. l., v, 64, [3] p., 1 l. col. pl., map. 25½<sup>cm</sup>.  
The Hottentot bug in the Crimea.  
At head of title: Отчетъ Тавическаго губернскаго земскаго энтомолога.
- Montandon, Arnold L.** Hémiptères de la s. fam. des Plataspidinæ, récoltés par M. le Dr. Elio Modigliani à l'Île d'Engano sur la côte occidentale de Sumatra . . . [Genova, 1893]  
5, [1] p. 26<sup>cm</sup>.  
Estratto dagli Annali del Museo civico di storia naturale di Genova. ser. 2, vol. XIII (XXXIII) 5 giugno 1893.
- Montandon, Arnold L.** . . . Hémiptères de la s. fam. des Plataspidinæ récoltés par M. Leonardo Fea en Birmanie et régions voisines . . . [Genova, 1894]  
[3]-28 p. 25½<sup>cm</sup>.  
At head of title: Viaggio di Leonardo Fea in Birmania e regioni vicine.  
Estratto dagli Annali del Museo civico di storia naturale di Genova. ser. 2, vol. XIV (XXXIV) 4-7 maggio 1894.
- Montandon, Arnold L.** Hémiptères de la s. fam. des Plataspidinæ récoltés par M. M. Loria et Modigliani en Océanie et conservés au Musée civique de Gênes; notes et descriptions d'espèces nouvelles . . . [Genova, 1896]  
15 p. 25½<sup>cm</sup>.  
Estratto dagli Annali del Museo civico di storia naturale di Genova, serie 2<sup>a</sup>, vol. XVII (XXXVII) 10 dicembre 1896.
- Montandon, Arnold L.** . . . Nouvelle espèce du genre Coptosoma de la faune paléartique . . . Bucuresci, 1898.  
5 p. 26½<sup>cm</sup>.  
From Bulletin de la Société des sciences de Bucarest. AN VII, no. 2.
- Montandon, Arnold L.** Nouvelles espèces du genre Coptosoma d'Australie et de Nouvelle Guinée appartenant aux collections du Musée civique de Gênes . . . [Genova, 1894?]  
15 p. 24½<sup>cm</sup>.  
Estratto dagli Annali del Museo civico di storia naturale di Genova, serie 2<sup>a</sup>, vol. XIV (XXXIV) 30 giugno 1894.
- Montandon, Arnold L.** . . . Plataspidinæ . . . [Genova, 1895]  
5 p. 25½<sup>cm</sup>.  
At head of title: Esplorazione del Giuba e dei suoi affluenti compiuta dal Cap. V. Bottego durante gli anni 1892-98 sotto gli auspicii della Società geografica italiana.—Risultati zoologici. VI.  
Estratto dagli Annali del Museo civico di storia naturale di Genova. ser. 2, vol. XV (XXXV) 6 aprile 1895.
- Montgomery, Thomas Harrison.** . . . Preliminary report on the chromatin reduction in the spermatogenesis of Pentatoma . . . [Leipzig] 1897.  
[467]-460 p. illus. 23<sup>cm</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger," no. 546, 1897.
- Olliff, Arthur Sidney.** . . . Bronzy orange bug (Oncoscelis sulciventris, Stål). [Sydney, 1892]  
5 p. pl. 24½<sup>cm</sup>.  
From Agricultural gazette of New South Wales, vol. III, p. 368-372.

**Schellenberg, Johann Rudolf.** Cimicum in Helvetiæ aquis et terris degentium genus in familias redactum observationibus et iconibus ad naturam delineatis illustratum a J. R. Schellenberg. Turici, impensis Orellii, Fuesslii et socc., 1800. 25 p. xiv col. pl. 21½<sup>em</sup>.

**Summers, Henry Elijah.** . . . A generic synopsis of the nearctic Pentatomidæ . . . [Des Moines, 1898]  
7 p. 23½<sup>em</sup>.  
Reprint from report of Iowa academy of sciences, 1898.

**Webster, Francis Marion.** The probable origin and diffusion of *Blissus leucop-terus* and *Murgantia histrionica*. See under *Lygæidæ*, p. 375.

## COREIDÆ.

**Atkinson, Edwin T.** Note on the rice-juice sapper of Madras . . . [Calcutta, 1887]  
4 p. 23<sup>em</sup>.  
From Proceedings Asiatic society of Bengal for January, 1887.

**Chittenden, Frank Hurlbut.** Common squash bug (*Anasa tristis* De G.) Wash-ington, 1899.  
5 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 39)

**Howard, Leland Ossian.** Box-elder plant-bug (*Leptocoris trivittatus* Say) Washington, 1898.

3 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 28)

**Montandon, Arnold L.** Hemiptera-Heteroptera Coreidæ. Notes sur le genre *Vilga* Stål et descriptions d'espèces nouvelles . . . [n. p., 1897]  
4 p. 26½<sup>em</sup>.

Extrait du "Bulletin de la Société des sciences de Bucarest," vi-e année, no. 2, 1897.

**Montandon, Arnold L.** Hémiptères-hétéroptères de l'équateur; trois espèces nouvelles de la fam. Coreidæ . . . Bucarest, 1897.  
8 p. 27<sup>em</sup>.

Extrait du Bulletin de la Société des sciences, no. 3.

**Paulmier, Frederick Clark.** The spermatogenesis of *Anasa tristis* . . . Boston, 1899.  
1 p. l., 223-272 p. xiii-xiv fold, pl. 26<sup>em</sup>.

Reprinted from Journal of morphology, supplement to vol. xv.

"Literature": p. 267-269.

**Popenoe, Edwin A.** The box-elder bug (*Leptocoris trivittatus*) . . . Manhat-tan, Kan., 1889.

1 p. illus. 38½x27<sup>em</sup>.

From the Industrialist, State agricultural college, Manhattan, Kansas. Vol. xiv, no. 26, March 9, 1889.

**Stål, Carl.** . . . Genera coreidarum Europæ disposuit C. Stål <Communic. d. 12 junii 1872> Stockholm, 1872.

49-53 p. 21½<sup>em</sup>.

Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1872, no. 6, Stockholm.

**Stål, Carl.** Til kändedomen om Coreida. [Stockholm, 1860]

419-475 p. 22½<sup>em</sup>. Öfvers. af K. Vet.-akad. Förh., d. 14 december 1859.

## LYGÆIDÆ. BIBLIOGRAPHY.

**Forbes, Stephen Alfred.** . . . Contribution to an economic bibliography of the chinch bug. 1785-1888. [Springfield, Ill., 1889]  
122 p. iii pl. (2 fold.) 22½<sup>em</sup>. (Appendix to the Sixteenth report of the State entomologist of Illinois)

## LYGÆIDÆ.

- Forbes, Stephen Alfred.** On a bacterial insect disease . . . [n. p., 1891]  
7 p. 24<sup>cm</sup>.  
"Reprinted from the North American practitioner, September, 1891."
- Forbes, Stephen Alfred.** On the chinch bug (*Blissus leucopterus*, Say) in Illinois. Present condition, and prospects for 1887 and 1888. Remedial procedure recommended . . . Champaign, 1887.  
[27]-43 p. 23<sup>cm</sup>. (Office of the State entomologist of Illinois, Bulletin no. 2)
- Horváth, Géza von.** . . . Monographia colobathristinarum . . . [Budapest] 1904.  
[117]-172 p. 26<sup>cm</sup>.  
From *Annales Musei nationalis hungarici*, vol. II, 1904.
- Horváth, Géza von.** Monographia lygæidarum Hungariæ. Magyarország bodobácsféléinek magánrajza, a Kir. Magyar természettudományi társulat megbízásából, írta Horváth Géza . . . Egy színes nyomású táblával. Budapest, Kiadja a Kir. M. természettudományi társulat, 1875.  
vi p., 1 l., 109 p., 1 l. 1 col. pl. 31<sup>cm</sup>.
- Horváth, Géza von.** . . . Species generis Pionosomus Fieb. . . . [Budapest, 1895]  
[39]-41 p. 25<sup>cm</sup>.  
Editio separata e Természetrzaji füzetek. Vol XVIII. Pte. 1-2. 1895. Musæo nationali hungarico Budapestinensi vulgato.
- Howard, Leland Ossian.** Chinch bug: a general summary of its history, habits, enemies, and of the remedies and preventives to be used against it. Washington, 1887.  
48 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of.—Entomology, Division of. Bulletin 17)
- Howard, Leland Ossian.** The chinch bug (*Blissus leucopterus*, Say) Order Hemiptera; family Lygæidæ. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p. 51-88. 2 pl.)  
"Bibliographical list": p. 84-88.
- Osborn, Herbert.** The chinch bug in Iowa . . . [Ames, Iowa] 1888.  
13 p. 24<sup>cm</sup>. (Bulletin of the Iowa agricultural college from the Department of entomology, issued January, 1888)
- Riley, Charles Valentine.** The chinch bug . . . [New York] 1881.  
[1] p. illus. 31½x24<sup>cm</sup>.  
From *American agriculturist*, November, 1881, p. 476.
- Sahlberg, Reinhold Ferdinand.** Monographia Geocorisarum Fennixæ . . . Hel-singforsixæ, ex officina topographica Frenczelliana, 1848. Agr 5—236  
1 p. l., xl, 154 p., 1 l. 18<sup>cm</sup>.  
Inaug.-dis.—Helsingfors.  
Carl Axel von Pfaler, respondent.
- Shimer, Henry.** . . . Notes on *Micropus* (*Lygarus* [!]) *leucopterus*, Say ("The chinch bug"), with an account of the great epidemic disease of 1865 among insects . . . Philadelphia, 1867.  
6 p. 25<sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, May, 1867.
- Snow, Francis Huntington.** Experiments for the artificial dissemination of a contagious disease among chinch-bugs . . . [Topeka, Kansas, 1890]  
34-37 p. 23½<sup>cm</sup>.  
From *Transactions, Kansas academy of science*, vol. XII, pt. 1, 1889.
- Thomas, Cyrus.** Chinch-bug; its history, characters, and habits, and the means of destroying it or counteracting its injuries. Washington, 1879.  
44 p. illus., map. 23<sup>cm</sup>. (U. S. Entomological commission. Bulletin 5)

**Webster, Francis Marion.** The chinch bug and Hessian fly . . . [Columbus] 1896.

7 p. illus. 25<sup>em</sup>.

Extracted from Ohio agricultural report for 1896.

**Webster, Francis Marion.** Chinch bug: its probable origin and diffusion, its habits and development, natural checks and remedial and preventive measures, with mention of the habits of an allied European species. Washington, 1898.

82 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 15)

**Webster, Francis Marion.** Have we more than one species of *Blissus* in North America? Boston, 1899.

813-817 p. illus. 24<sup>em</sup>.

Reprint from the American naturalist, vol. xxxiii, no. 394, October, 1899.

**Webster, Francis Marion.** . . . The probable origin and diffusion of *Blissus leucopterus* and *Murgantia histrionica* . . . [n. p.] 1896.

[141]-155 p. illus., double map. 23<sup>em</sup>.

Extr. from the Journal of Cincinnati society natural history, vol. xviii, Feb. 1896.

Read before the Ohio academy of science, December 28, 1895.

#### CAPSIDÆ.

**Atkinson, Edwin T.** Catalogue of the Capsidæ . . . Calcutta, 1889.

176 p. 23<sup>em</sup>.

Agr 4-3472

Reprinted from Supplement Journal of the Asiatic society of Bengal, vol. LVIII, pt. II, 1889, p.25-200.

**Giard, Alfred.** . . . Sur un hémiptère hétéroptère (*Halticus minutus* Reuter) qui ravage les arachides en Cochinchine . . . [Paris, 1892]

4 p. 23½<sup>em</sup>.

Extraits des Comptes rendus des séances de la Société de biologie. Séance du 30 janvier 1892.

**Horváth, Géza von.** Capsidæ novæ aut minus cognitæ . . . [Budapest, 1898]

[501]-505 p. 25<sup>em</sup>.

From "Természetráji füzetek," vol. xxi.

**Mason, James Wood.** Report on the tea-mite and the tea-bug. *See under* Tetranychidæ, p. 465.

**Theobald, Frederick Vincent.** Notes on the needle-nosed hop bugs . . .

[Lond., 1895]

7 p. illus. 21<sup>em</sup>.

Reprinted from the Journal of the S. E. agricultural college, no. 2, p. 11-16.

**Uhler, Philip Reese.** Observations of North American Capsidæ, with descriptions of new species. No. 5 . . . [Baltimore] 1890.

73-88 p. 24½<sup>em</sup>.

From Transactions of the Maryland academy of sciences, 1890.

Nos. 1-4 printed in Entomologica americana 1887-88.

**Zehnter, Leo.** . . . De helopeltisplaag bij de cacao-cultuur en hare bestrijding, door Dr. L. Zehntner. Malang, A. J. Jahn, 1903.

cover-title, 22 p. pl. 22½<sup>em</sup>. (Proefstation voor cacao te Salatiga. Bulletin no. 7)

#### ACANTHIIDÆ.

**Reuter, Odo Morannal.** . . . Acanthiidæ americanæ . . . [Stockholm, 1871]

557-568 p. pl. 22½<sup>em</sup>.

Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1871, n:o 5.

**Reuter, Odo Morannal.** . . . Skandnaviens och Finlands acanthiider . . . Stockholm, 1871.

403-429 p. 22½<sup>em</sup>.

Öfversigt af Kongl. Vetenskaps-akademiens Förhandlingar, 1871. N:o 3.

## ARADIDÆ.

**Bergroth, E.** Aradides nouveaux. [Paris, 1898]

3 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle., 1898, no. 3, p. 149-151.

## PHYMATIDÆ.

**Handlirsch, Anton.** Deux espèces nouvelles du genre *Amblythyreus* Westw. (Hémiptères-phymatides), des collections du Muséum d'histoire naturelle de Paris . . . [Paris, 1899]

2 p. 23<sup>4</sup><sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1899, no. 1, p. 32.

**Handlirsch, Anton.** . . . Monographie der phymatiden . . . Wien, 1897.

[127]-230 p. illus., IV-IX pl. 27<sup>4</sup><sup>cm</sup>.

Annalen des K. K. naturhistorischen hofmuseums. (Separatabdruck aus bd. XII, hft. 2)

**Martin, Joanny.** Catalogue des espèces de Phymatidæ (hémiptères hétéro.) des collections du Muséum de Paris . . . [Paris, 1898]

3 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1898, no. 3, p. 147.

## PYRRHOCORIDÆ.

**Jackson, Charles T.** Researches on the cotton-stainer, or red bug. (U. S.—Patent office. Report of the Commissioner of patents for the year 1858. Agriculture. Washington, 1859. p. 272-273)

**Martin, Joanny.** Espèce nouvelle d'hémiptère de la famille des Pyrrhocoridae . . . [Paris] 1900.

21-22 p. 23<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1900, no. 1.

**Preudhomme de Borre, Alfred i. e. Carl Franz Paul Alfred.** *Pyrrhocoris marginatus* . . . Genève, 1896.

[1] p. 23<sup>cm</sup>.

Extrait des Archives des sciences physiques et naturelles, 4. période, t. II, décembre 1896

## TINGITIDÆ.

**Horváth, Géza von.** . . . Species generis *Galeatus* Curt. . . . [Budapest, 1897]

[455]-460 p. 25<sup>4</sup><sup>cm</sup>.

Editio separata e Természetráji füzetek, vol. XX, 1897. A Museo nationali hungarico Budapestinensi vulgato.

**Horváth, Géza von.** Tingitidae novae palaearticae. [Budapest] 1902.

[593]-600 p. 25<sup>cm</sup>.

From Természetráji füzetek, vol. XXV, 1902.

## REDUVIIDÆ.

**Berg, Carlos.** . . . Tres Reduviidae novae argentinae . . . [Buenos Aires, 1900]

[187]-190 p. 24<sup>4</sup><sup>cm</sup>.

From Comunicaciones del Museo nacional de Buenos Aires. T. I, no. 6.

## NABIDÆ.

**Bianchi, Valentin L'vovich.** De speciebus duabus novis generis *Nabis* Latr. . . . [St. Petersburg, 1896]

[118]-116 p. 25<sup>cm</sup>.

From Annuaire, Musée zoologique, Académie impériale des sciences de St.-Petersbourg, 1896.



## SALDIDÆ.

**Reuter, Odo Morannal.** Monographia anthocoridarum orbis terrestris. Scripsit O. M. Reuter. Helsingforsia, Ex officina typographica Societatis litterariæ fennicæ, 1884.

204 p. 29<sup>cm</sup>.

"Ex Actorum Societatis scientiarum fennicæ. Tomo xiv."

## BELOSTOMIDÆ.

**Dimmock, George.** . . . Belostomidæ and some other fish-destroying bugs. . . [Boston, 1886.]

[67]-74 p. illus. 23<sup>cm</sup>.

"Literature:" p. 74.

From the Annual report of the Fish and game commissioners of Massachusetts, 1886.

Also pub. in the Bulletin of the United States fish commission, vol. vi, p. 353-359.

**Montandon, Arnold L.** Deux nouvelles espèces du genre *Belostoma* Latr. (= *Zaitha* Am. et Serv. et auct.) des collections du Muséum de Paris . . . [Paris, 1903]

3 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1903, n° 1, p. 21.

**Montandon, Arnold L.** Hemiptera Cryptocerata. Notes et descriptions. *See under* Naucoridæ, p. 378.

**Montandon, Arnold L.** Hémiptères hétéroptères. Trois espèces nouvelles du genre *Zaitha* Am. et Serv., des collections du Muséum de Paris . . . [Paris, 1899]

4 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1899, n° 4, p. 170.

## GERRIDÆ.

**Horváth, Géza von.** . . . Description of a new species of Gerrididæ . . . [London, 1899]

1 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. III., February 1899.

## HYDROMETRIDÆ.

**Berg, Carlos.** Descripciones hydrometridarum novarum Reipublicæ Argentinae . . . [Buenos Aires, 1898]

[3]-6 p. 24<sup>cm</sup>.

From Comunicaciones del Museo nacional de Buenos Aires. Tomo I. n° 1.

**Coutière, H.** Sur un nouvel hémiptère halophile, *Hermatobatodes Marchei*, n. gen., n. sp., par H. Coutière et J. Martin . . . Paris, 1901.

12 p. illus. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1901, n° 5, p. 215.

**Coutière, H.** Sur un nouvel hémiptère halophile, par H. Coutière et J. Martin . . . [Paris, 1901]

5 p. illus. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1901, n° 4, p. 172.

## NOTONECTIDÆ.

**Kirkaldy, George Willis.** Description d'une espèce nouvelle de Notonectidæ (hémiptères) de la collection du Muséum d'histoire naturelle de Paris . . . [Paris, 1898]

2 p. 24<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle.—1898, no. 3, p. 151.

## CORISIDÆ.

**Fieber, Franz Xaver.** Species generis *Corisa* monographice dispositæ . . .  
Pragæ, 1851.

48 p. II pl. 28½<sup>cm</sup>.

Ex Actis Regiæ bohemicæ societatis scientiarum, vol. VII.

## NAUCORIDÆ.

**Montandon, Arnold L.** Hemiptera Cryptocerata. Fam. Naucoridæ, sous-fam. Cryptocricinæ . . . (Eingelaufen am 21. jänner 1897) [Wien] 1897.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1897> besonders abgedruckt.

**Montandon, Arnold L.** Hemiptera Cryptocerata. Fam. Naucoridæ. Sous-fam. Laccocorinæ . . . (Eingelaufen am 28. mai 1897) [Wien, 1897]

20 p. 23<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1897> besonders abgedruckt.

**Montandon, Arnold L.** Hemiptera Cryptocerata. Fam. Naucoridæ, sous-fam. Limnocatorinæ . . . (Eingelaufen am 3. juni 1898) . . . [Wien, 1898]

13 p. 23<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1898> besonders abgedruckt.

**Montandon, Arnold L.** Hemiptera Cryptocerata. Notes et descriptions d'espèces nouvelles . . . Bucuresci, 1898.

no. 1-2. 26½<sup>cm</sup>.

From Bulletin de la Société des sciences de Bucarest, an VII, no. 3 și 4, 5.

CONTENTS.—No. 1. Naucoridæ.—No. 2. Belostomidæ.

**Montandon, Arnold L.** . . . Hemiptera Cryptocerata. Révision de la s. fam. "Limnocatorinæ" . . . [Torino] 1897.

8 p. 25<sup>cm</sup>.

From Bolletino dei Musei di zoologia ed anatomia comparata della R. Università di Torino, vol. XII, n. 297, 11 giugno 1897.

**Montandon, Arnold L.** Hémiptères nouveaux des collections du Muséum de Paris . . . Paris, 1897.

7 p. 24½<sup>cm</sup>.

Extrait du Bulletin du Muséum d'histoire naturelle, 1897, no° 4, p. 124-130.

## NEPIDÆ.

**Marshall, William Stanley.** Some points in the anatomy of *Ranatra* [!] *fusca* P. Beauv. [By] Wm. S. Marshall and Henry Severin. [Madison] 1904.

[487]-508 p. xxxiv-xxxvi pl. 23<sup>cm</sup>.

From the Transactions of the Wisconsin academy of sciences, arts, and letters, vol. xiv.

**Montandon, Arnold L.** Hémiptères-hétéroptères; une nouvelle forme dans le genre *Ranatra*, description d'une espèce nouvelle . . . Bucuresci, 1898.

5 p. illus. 27<sup>cm</sup>.

From Bulletin de la Société des sciences de Bucarest. An. VII, no. 1.

## HOMOPTERA.

**Ashmead, William Harris.** The Homoptera of Alaska. [New York, 1904]

127-187 p. illus. 26½<sup>cm</sup>.

From Harriman Alaska expedition, vol. VIII.

**Atkinson, Edwin T.** Notes on Indian Rhynchota [Homoptera] no. 1-6. By E. T. Atkinson . . . Calcutta, Printed by J. W. Thomas, 1885-[86]

[iii]-iv, [1], [210]-233, [5]-23, 76-117, [127]-158, 12-83, [143]-223 p. 23<sup>cm</sup>.

Reprinted from the Journal of the Asiatic society, Bengal, v. LIII-LV, 1884-86.

**Biologia centrali-americana.** Insecta Rhynchota. Hemiptera-Homoptera. [London, Pub. for the editors by R. H. Porter, 1881-1905]

v. 1; v. 2, p. 1-316; v. 2, pt. 2, p. 1-33. col. plates. 32<sup>cm</sup>.

Vol. I by W. L. Distant and W. W. Fowler; vol. II by W. W. Fowler; vol. II, pt. 2 by T. D. A. Cockerell.

Issued in parts.

Cover-titles: *Biologia centrali-americana*; or, Contributions to the knowledge of the fauna and flora of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1905, ed. by F. Ducane Godman.

**Distant, William Lucas.** . . . On some South African Homoptera . . . [London, 1899]

[113]-115 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. iv, August, 1899.

**Distant, William Lucas.** . . . Some apparently undescribed neotropical Homoptera . . . [London, 1899]

[112]-113 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. iv, August, 1899.

**Dreyfus, Ludwig Theodor.** Zu J. Krassiltschiks mittheilungen über "die vergleichende anatomie und systematik der phytophthires" mit besonderer bezugnahme auf die phylloxeriden . . . Leipzig, 1894.

24 p. 2 pl. (1 double) 23½<sup>cm</sup>.

Sonderabdruck aus dem Zool. anzeiger, 1894, no. 449, 450 u. 451.

**Fieber, Franz Xaver.** Les cicadines d'Europe d'après les originaux et les publications les plus récentes . . . par le Dr. Franz-Xavier Fieber. Traduit de l'allemand par Ferd. Reiber . . . [Paris, 1875-79?]

pt. 1-4. 15 pl. 22½<sup>cm</sup>.

Caption title.

"Bibliographie": 1. partie, p. 30-38.

From "Revue et magazin de zoologie."

CONTENTS.—1. ptie. Comprenant les familles des Membracida, Cicadaea, Fulgorida, Cercopida, Ulopida, Paropida, Scarida, disposées selon la méthode analytique.—2. ptie. Descriptions des espèces.—3. ptie. Description des espèces.—4. ptie. Descriptions des espèces (suite).

**Fieber, Franz Xaver.** Katalog der europäischen cicadinen, nach originalien mit benützung der neuesten literatur, von Dr. F. X. Fieber . . . Wien, C. Gerold's sohn, 1872.

lv, 19 p. 24½<sup>cm</sup>.

**Glover, Townend.** Homoptera. (U. S. Agriculture, Commissioner of. Report of the operations of the Department for the year 1876. Washington, 1877. p. 24-46. illus.)

**Goeldi, Emil August.** Aphorismen, neue resultate und conjecturen zur frage nach den fortpflanzungs-verhältnissen der phytophthiren enthaltend. Von Dr. Emil A. Göldi, Schaffhausen, Buchdruckerei von F. Rothermel, 1885.

cover-title, 8 p. 22<sup>cm</sup>.

**Horváth, Géza von.** . . . Homoptera nova ex Hungaria . . . [Budapest, 1897]

[620]-643 p. illus. 26<sup>cm</sup>.

Editio separata e Természetráji füzetek, vol. xx, 1897 a Musæo nationali hungarico Budapestinensi vulgato.

**Horváth, Géza von.** . . . Homoptera quinque nova ex Hungaria . . . [Budapest] 1903.

[472]-476 p. illus. 26<sup>cm</sup>.

From Annales Musæi nationalis hungaricis, vol. i, 1903.

**Ihering, Hermann von.** Os piolhos vegetaes (Phytophthires) do Brazil . . . São Paulo, 1897.

[385]-420 p. illus. 23½<sup>cm</sup>.

Da Revista do Museu paulista, N. II—1897.

Litteratura sobre Phytophthires: p. 388-390.

**Kaltenbach, Johann Heinrich.** Monographie der familien der pflanzenläuse (Phytophthires) Von J. H. Kaltenbach . . . 2. ausg. . . . Aachen, In commission bei A. Jacobi & co., 1872. Agr 5—160

xliii, 222 p., 1 l. fold. pl. 21 $\frac{1}{2}$ cm.  
"Literatur": p. xli-xlii.

**Melichar, Leopold.** Homopteren-fauna von Ceylon. Von Dr. L. Melichar . . . Berlin, F. L. Dames, 1903. Agr 4—84  
iv, 248 p. vi pl. 24cm.

**Shimer, Henry.** . . . On a new genus in Homoptera (Section Monomero) . . . Philadelphia, 1867.

9 p. illus. 24 $\frac{1}{2}$ cm.  
From the Proceedings of the Academy of natural sciences of Philadelphia, January, 1867.

**Van Duzee, Edward P.** Descriptions of some new North American homopterous insects . . . [Buffalo, 1894]

[205]—216 p. 23cm.  
From the Bulletin of the Buffalo society of natural sciences, vol. v, no. iv.

[**Walker Francis**] List of the specimens of homopterous insects in the collection of the British museum . . . London, Printed by order of the trustees, 1850—52.

4 pts. viii pl. 18cm.  
Paged continuously; pt. I: 1 p. l., 260 p.; pt. II: 2 p. l., [261]—636 p.; pt. III: 2 p. l., [637]—907 p.; pt. IV: ix, [909]—1188 p.

— — Supplement. London, Printed by order of the trustees, 1858.  
2 p. l., 369, [1] p. 18cm.

#### CICADIDÆ.

**Buckton, George Bowdler.** Monograph of the British Cicadæ or Tettigidæ. By George Bowdler Buckton . . . London and New York, Macmillan & co., 1890—91.

2 v. 82 pl. (partly col.) 22 $\frac{1}{2}$ cm. Agr 3—773  
Issued in 8 parts.

**Collinson, Peter.** Some observations on the cicada of North America, collected by P. Collinson. [n. p.] 1764.

633—634 p. pl. 20 $\frac{1}{2}$ cm.  
Plate wanting.  
Read before the Royal society, Feb. 23, 1764.

**Davis, William T.** . . . The seventeen-year locust on Staten Island. [n. p.] 1894.

[13]—15 p. 24cm.  
From the Proceedings of the Natural science association of Staten Island. vol iv, no. 4.

**Distant, William Lucas.** A monograph of oriental Cicadidæ. By W. L. Distant . . . Pub. by order of the trustees of the Indian museum, Calcutta . . . London, Printed by West, Newman & co.; [etc., etc.] 1889—92.

ix, [4], 157, [1] p. illus., xv pl. (partly col.) 32cm. Agr 3—331  
Appeared in 7 pts.

**Distant, William Lucas.** On two undescribed cicadas from the Transvaal [London, 1899?]

81—82 p. 22cm.  
From the Annals and magazine of natural history, ser. 7, vol. III.

**Froggatt, Walter Wilson.** Cicadas ("locusts") and their habits . . . [Sydney, 1903]

2 pts. illus. 24 $\frac{1}{2}$ cm.  
From Agricultural gazette of New South Wales. Vol. XIV, p. 334—341, 418—425.  
"Bibliography": p. 423—425.

**Froggatt, Walter Wilson.** . . . Notes on cicadas. [Sydney, 1895]

526—582 p. 22cm.  
From vol. x (ser. 2nd) of the "Proceedings of the Linnean society of New South Wales" (September 25th, 1895)

**Hartman, William D.** The seventeen-year locust [*Cicada septemdecim*] An address before the West Chester microscopical soc'ty, April 9th, 1885, by Wm. D. Hartman . . . [West Chester, Pa., Daily local news, 1885]

[7] p. 20½<sup>cm</sup>.

**Hunter, Walter David.** Periodical cicada in 1902. Washington, 1902.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 44)

**Jacobi, Arnold.** . . . *Heteropsaltria*, n. g. *cicadarium stridulantium*. [Berlin, 1902]

[78]—76 p. illus. 22<sup>cm</sup>.

Sonderabdruck aus den Sitzungs-berichten der Gesellschaft naturforschender freunde, jahrg. 1902, nr. 3.

**Kirby, William.** . . . The characters of *Otiocerus* and *Anotia*, two new genera of hemipterous insects belonging to the family of Cicadiadæ: with a description of several species . . . [London] 1822.

12—23 p. pl. 27½<sup>cm</sup>.

From the Transactions of the Linnean society, vol. XIII.

Read March 2, 1819.

**Lander, Benjamin.** . . . Hut-building seventeen-year cicadas. An attempt at an explanation . . . [New York, 1894]

233—234 p. 41½<sup>cm</sup>.

From Scientific American, October 13, 1894.

**Marlatt, Charles Lester.** New nomenclature for the broods of the periodical cicada. Washington, 1902.

8 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 45)

**Marlatt, Charles Lester.** Periodical cicada, an account of *Cicada septemdecim*, its natural enemies and the means of preventing its injury, together with a summary of the distribution of the different broods. Washington, 1898.

148 p. illus., 4 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 14)

"Bibliography of the periodical cicada": p. 119—134.

**Melichar, Leopold.** Cicadinen (Hemiptera-Homoptera) von mittel-Europa, von Dr. L. Melichar . . . Berlin, F. L. Dames, 1896.

xxvii, 364 p., 12 l. XII pl. 23½<sup>cm</sup>.

"Literatur": p. viii—xiii.

**Osborn, Herbert.** Observations on the Cicadidæ of Iowa. [Des Moines, 1896]

194—203 p. 1 map. 23<sup>cm</sup>.

From Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts [no. 1]

Reprinted from the Proceedings of the Iowa academy of sciences, 1895, vol. III (1896).

**Rathvon, Simon Snyder.** The seventeen-year locusts of 1872 (*Cicada septemdecim*). Lancaster, 1872.

[123]—127 p. 26<sup>cm</sup>.

From the Lancaster farmer, vol. IV, no. 7.

**Riley, Charles Valentine.** Periodical cicada. An account of *Cicada septemdecim* and its tredecim race, with a chronology of all broods known. Washington, 1885.

46 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 8)

— — — Ed. 2. Washington, 1885.

46 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 8)

Ed. 1, published June 17, 1885; ed. 2, July 13, 1885.

**Riley, Charles Valentine.** . . . The song notes of the periodical cicada . . . [Salem, Mass., 1886]

330—332 p. 24½<sup>cm</sup>.

Abstract.

From the Proceedings of the American association for the advancement of science, vol. XXXIV, Ann Arbor meeting, August, 1885.

**Sajó, Karl.** Die siebzehnjährige cikade (*Cicada septendecim*) . . . [Berlin, 1899]

2 pts. illus. 30x21<sup>cm</sup>.

From Prometheus, jahrg. x, p. 388-393, 401-406.

**Schwarz, Eugene Amandus.** Periodical cicada in 1897-1898. Washington, 1897-1898.

2 nos. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 22, 30)

#### FULGORIDÆ.

**Ashmead, William Harris.** The corn delphacid, *Delphax maidis* . . . [Cambridge, Mass., 1890]

[321]-324 p. illus. 25<sup>cm</sup>.

From Psyche, March-April, 1890.

**Butler, Arthur Gardiner.** Description of two new species of *Fulgora* from India. [London, 1874]

1 p. 21½<sup>cm</sup>.

From Annals and magazine of natural history for August, 1874.

**Butler, Arthur Gardiner.** List of the species of *Fulgora*, with descriptions of new forms in the collection of the British museum. [London, 1873]

[97]-102 p. col. pl. 22<sup>cm</sup>.

From the Proceedings of the Zoological society of London, January 20, 1873.

**Horváth, Géza von.** Species nova jassidarum ex Hispania . . . [Budapest] 1900.

1 p. 25<sup>cm</sup>.

From Természetrájsi füzetek, vol. XXIII, 1900.

**Horváth, Géza von.** Species palæarcticæ generis *Caliscelis* Lap. . . [Budapest] 1904.

[378]-385 p. 25<sup>cm</sup>.

From Annales Musei nationalis hungarici, vol. II, 1904.

**Melichar, Leopold.** Monographie der acanaloniiden und flatiden (Homoptera) . . . [Wien, 1902]

[177]-253 p. 9 pl. 28<sup>cm</sup>.

"Literatur": p. 179-181.

Separat-abdruck aus dem XVII. bande der Annalen des K. K. Naturhistorischen Hofmuseums.

**Sajó, Karl.** Die einzige echte leuchtzikadenform Europas . . . [Berlin, 1899]

564-568 p. illus. 23x21<sup>cm</sup>.

From Prometheus, jahrg. x, no. 36 (no. 504)

**Swezey, Otto H.** . . . Observations on hymenopterous parasites of certain Fulgoridæ. By Otto H. Swezey . . . Columbus, University, 1903. Agr 3-391

cover-title, 444-451 p. illus. 23<sup>cm</sup>. (Ohio state university. Contributions from the Department of zoology and entomology. no. 13)

University bulletin. Series 7, no. 23.

Reprinted from Ohio naturalist, vol. III, p. 444-452, 1903.

**Swezey, Otto H.** . . . A preliminary catalogue of the described species of the family Fulgoridæ of North America, north of Mexico . . . Springfield, O., 1904.

48 p. 24<sup>cm</sup>. (Ohio department of agriculture. Division of nursery and orchard inspection, Bulletin no. 3)

"Bibliography": p. 43-48.

**Van Duzee, Edward P.** A preliminary review of the North American Delphacidae . . . [Buffalo, 1897]

[225]-261 p. 23½<sup>cm</sup>. (Bulletin of the Buffalo society of natural sciences, vol. v, no. v)

## MEMBRACIDÆ.

**Buckton, George Bowdler.** A monograph of the Membracidæ, by George Bowdler Buckton . . . to which is added a paper entitled Suggestions as to the meaning of the shapes and colours of the Membracidæ in the struggle for existence, by Edward B. Poulton . . . London, L. Reeve & co., limited, 1903. Agr 5—508 vi p., 1 l., [4], 296 p., 60 l. 1x col. pl. 29<sup>cm</sup>. (*On cover: Monographiæ entomologica, II*) Issued in 6 parts, 1901-03.

**Goding, Frederic Webster.** . . . Bibliographical and synonymical catalogue of the described Membracidæ of North America . . . [Peoria, 1894]

[391]-481, [1] p. 28<sup>cm</sup>.

From the Bulletin of the Illinois state laboratory of natural history. vol. 3.

**Goding, Frederic Webster.** . . . A monograph of the Australian Membracidæ . . . [Sydney, 1903]

41 p. pl. 22<sup>cm</sup>.

From the Proceedings of the Linnean society of New South Wales, 1903, pt. 1, March 25th.

**Goding, Frederic Webster.** . . . A preliminary study of the Membracidæ described from Australia and Tasmania . . . [Sydney, 1898]

[85]-90 p. 22<sup>cm</sup>.

From the Proceedings of the Linnean society of New South Wales, 1898, pt. 1, May 25th.

**Marlatt, Charles Lester.** Buffalo tree-hopper (*Ceresa bubalus* Fab.) Washington, 1897.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 23)

**Marlatt, Charles Lester.** Notes on the oviposition of the Buffalo tree-hopper . . . [Topeka, 1887]

84-85 p. 22<sup>cm</sup>.

From the Transactions of the Kansas academy of science, vol. x, 1885-6.

**Poulton, Edward Bagnall.** Suggestions as to the meaning of the shapes and colours of the Membracidæ in the struggle for existence . . . London, 1903.

15 p. 28x22<sup>cm</sup>.

Reprinted from "A monograph of the Membracidæ," by G. B. Buckton.

## CERCOPIDÆ.

**Ball, Elmer Darwin.** . . . A study of the genus *Clastoptera* . . . [Des Moines, 1896]

[182]-194 p. xi-xiv pl. 23<sup>cm</sup>.

From Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts, [no. 1]

Reprinted from the Proceedings of the Iowa academy of sciences, 1895, vol. III (1896).

**Goding, Frederic Webster.** . . . Synopsis of the subfamilies and genera of the North American Cercopidæ, with a bibliographical and synonymical catalogue of the described species of North America . . . [Peoria, 1896]

[483]-501 p. 25½<sup>cm</sup>.

From Bulletin Illinois state laboratory of natural history. Vol. III.

**Jacobi, Arnold.** Ueber den einfluss der schaumcikade (*Aphrophora salicis*) auf die weiden . . . [Berlin, 1902]

[1] p. 27<sup>cm</sup>.

Sonderabdruck aus "Arbeiten aus der Biologischen abtheilung für land- und forstwirtschaft am Kaiserl. gesundheitsamte." Bd. II, heft 4, 1902.

**Morse, Edward Sylvester.** . . . A bubble-blowing insect. [N. Y.] 1900.

17 p. illus. 24<sup>cm</sup>.

Reprinted from Appleton's Popular science monthly for May, 1900.

## TETTIGONIIDÆ.

**Ball, Elmer Darwin.** . . . A review of the Tettigonidæ of North America, north of Mexico, by Elmer D. Ball . . . Columbus, The University, 1901. Agr 3—919 cover-title, 41 p. VII pl. 22½<sup>cm</sup>. (Ohio state university. Contributions from the Dept. of zoology and entomology, no. 6)

Reprinted from Proceedings Iowa academy of sciences, VIII, 1901, p. 35-75.

**Berg, Carlos.** . . . Duæ species novæ Argentinæ gyponæ generis . . . [Buenos Aires, 1899]

[5]-7 p. 25<sup>cm</sup>.

Extracto de los "Anales de la Sociedad científica argentina," tomo XLVII.

**Taschenberg, Ernst Ludwig.** Zur kenntniss der cicadellinen-gattung Tettigonia Geoffr. . . . [Halle a. S., 1884]

[431]-455 p. 23½<sup>cm</sup>.

From Zeitschrift für naturwissenschaften, bd. LVII, 1884, juli-august.

**Walsh, Benjamin Dann.** . . . Fire-blight: two new foes of the apple and pear . . . [Chicago, 1862]

3 p. illus. 25<sup>cm</sup>.

From the Prairie farmer (Chicago, Ill.) Sept. 6th, 1862.

Supplementary entomological note: p. 3-4.

## JASSIDÆ.

**Gillette, Clarence P.** . . . The grape-vine typhlocybrids of the Mesilla Valley, N. M. [Cambridge, Mass., 1895]

14-15 p. illus. 24<sup>cm</sup>.

From the Supplement to Psyche, December 1895.

**Horváth, Géza von.** . . . Synopsis generis Doratura Sahlb. [Budapest] 1903.

[451]-459 p. pl. 26<sup>cm</sup>.

From Annales Musei nationalis hungarici, vol. I, 1903.

**Osborn, Herbert.** . . . The genus Scaphoideus . . . Columbus, Ohio, 1900.

187-209 p. ix-x pl. 24½<sup>cm</sup>. (Ohio state university. Contributions from the Department of zoology and entomology no. 3)

Reprinted from Jour. Cinc. soc. nat. hist., vol. XIX, no. 6, June 1900.

**Osborn, Herbert.** . . . A review of the North American species of Athysanus (Jassidæ) by Herbert Osborn and E. D. Ball . . . Columbus, Ohio, 1902.

[231]-256 p. incl. 16-17 pl. 23½<sup>cm</sup>. (Ohio state university. Contributions from the Department of zoology and entomology no. 7)

Reprinted from Ohio naturalist, vol. II, p. 231-257, 1902.

**Osborn, Herbert.** . . . Studies of North American Jassoidea, by Herbert Osborn and Elmer D. Ball . . . [n. p.] 1898.

45-100 p., 6 l. VI pl. 24½<sup>cm</sup>.

Reprinted from vol. VII, Proceedings of the Davenport academy of natural sciences, Davenport, Iowa.

Continuation of the studies presented before the Iowa academy of sciences and published in vol. IV, p. 172, (1897) under the title "Contributions to the hemipterous fauna of Iowa."

**Perkins, Robert C. L.** . . . The leaf-hopper of the sugar cane . . . Honolulu[!] 1903.

38 p. 23½<sup>cm</sup>. (Board of commissioners of agriculture and forestry. Territory of Hawaii. Division of forestry. Bulletin no. 1)

**Woodworth, Charles William.** . . . Jassidæ of Illinois. Pt. I . . . Peoria, Ill., 1887.

[9]-33, [1] p. illus., plates. 22½<sup>cm</sup>. (Bulletin of the Illinois state laboratory of natural history. Champaign, Illinois, vol. III, article II.)



## PSYLLIDÆ.

- Buckton, George Bowdler.** Notes on a new psyllid . . . [Calcutta, 1895]  
2 p. illus. 23 $\frac{1}{2}$ <sup>cm</sup>.  
From Indian museum notes. vol. III.
- Dobson, Thomas.** On laap, or lerp, the cup-like coverings of Psyllidæ found on the leaves of certain eucalypti . . . [London, 1857]  
123-130 p. pl. 22<sup>cm</sup>.  
From Transactions of the Microscopical society of London. vol. v.
- Förster, Arnold.** . . Uebersicht der gattungen und arten in der familie der psylloden . . . [Bonn, 1848]  
[65]-98 p. 21<sup>cm</sup>.  
From Verhandlungen des Naturhistorischen vereins der preussischen Rheinlande. 1848. 3.
- Frauenfeld, Georg, ritter von.** Vorläufige mittheilung betreffend die arbeit über die familie der psyllen . . . [Wien, 1869]  
2 p. 22<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoolog.-botanischen gesellschaft in Wien <jahrgang 1869> besonders abgedruckt.
- Froggatt, Walter Wilson.** . Australian Psyllidæ. [Sydney, 1900]  
250-302 p. XI-XIV pl. 22<sup>cm</sup>.  
From the Proceedings of the Linnean society of New South Wales, 1900, pt. 2, May 30th.
- Great Britain—Board of agriculture.** . . The apple sucker (*Psylla mali*, Förster). [London, 1893]  
[79]-82 p. illus. 24 $\frac{1}{2}$ <sup>cm</sup>. (*Its* [Leaflet] 1893 [no.] 16)  
— — — [London, 1897]  
4 p. illus. 21 $\frac{1}{2}$ <sup>cm</sup>. (*Its* Leaflet no. 16)
- Kessler, Hermann Friedrich.** Beobachtungen an dem blattfloh *Trioza alacris* Flor und den von demselben an den blättern des *Laurus nobilis* L. hervorgerufenen missbildungen (1892-1893) . . . [Cassel, 1894]  
7 p. 21<sup>cm</sup>.  
Sonderabdruck aus dem 39. bericht des Vereins für naturkunde zu Cassel.
- Löw, Franz.** Beiträge zur biologie und synonymie der psylloden [Wien, 1881]  
14 p. 22 $\frac{1}{2}$ <sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1881> besonders abgedruckt.
- Löw, Franz.** Beiträge zur kenntniss der jugendstadien der psylliden . . . [Wien, 1884]  
10 p. illus. 22<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1884> besonders abgedruckt.  
"Verzeichniss derjenigen psylliden-arten deren jugendstadien beschrieben sind: p. 4-10"
- Löw, Franz.** Beiträge zur kenntniss der psylloden . . . Wien, 1877.  
34 p. 1 pl. 22 $\frac{1}{2}$ <sup>cm</sup>.  
Aus den Abhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1877> besonders abgedruckt.
- Löw, Franz.** Beschreibung von zehn neuen psylloden-arten . . . Wien, 1881.  
16 p. 1 pl. 22 $\frac{1}{2}$ <sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1881> besonders abgedruckt.
- Löw, Franz.** Mittheilungen über psylloden . . . Wien, 1880.  
52 p. 1 pl. 22 $\frac{1}{2}$ <sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1879> besonders abgedruckt.
- Löw, Franz.** Revision der paläarktischen psylloden in hinsicht auf systematik und synonymie . . . [Wien, 1882]  
28 p. 22 $\frac{1}{2}$ <sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1882> besonders abgedruckt.

- Löw Franz.** Turkestanische psylloden . . . Wien, 1880.  
18 p. 1 pl. 22 $\frac{1}{2}$ cm.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1880>  
besonders abgedruckt.
- Löw, Franz.** Zur biologie und charakteristik der psylloden nebst beschreibung  
zweier neuer species der gattung Psylla . . . [Wien, 1876]  
30 p. II pl. 22 $\frac{1}{2}$ cm.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1876>  
besonders abgedruckt.
- Löw, Franz.** Zur charakteristik der psylloden-genera Aphalara und Rhinocola  
. . . Wien, 1882.  
8 p. 1 pl. 22 $\frac{1}{2}$ cm.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1882>  
besonders abgedruckt.
- Löw, Franz.** Zur systematik der psylloden . . . Wien, 1879.  
28 p. 1 pl. 22 $\frac{1}{2}$ cm.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1878>  
besonders abgedruckt.
- Macloskie, George.** Wiltlaczil on Psyllidæ. [Philadelphia, 1886]  
283-287 p. illus. 22cm.  
From the American naturalist extra, March, 1886. vol. xx.
- Mally, Charles W.** Hackberry Psyllidæ, found at Ames, Iowa . . . [Des  
Moines, 1894]  
131-138 p. 22 $\frac{1}{2}$ cm.  
From Proceedings Iowa academy of sciences for 1893, vol. i, pt. iv.
- Mally, Charles W.** . . . Psyllidæ found at Ames . . . Des Moines, 1895.  
[152]-171 p. xv-xvii pl. 22 $\frac{1}{2}$ cm.  
From Proc. Iowa acad. sci., 1894, vol. ii, p. 152-171.
- Marlatt, Charles Lester.** Pear-tree psylla (*Psylla pyricola* Foerst.) Wash-  
ington, 1895.  
8 p. illus. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 7)
- Rudow, Ferdinand.** Zur kenntniss der psylloden Norddeutschlands. Von Dr.  
F. Rudow. (In Zwölfter jahresbericht über die Höhere bürgerschule zu Neustadt-  
Eberswalde. Neustadt-Eberswalde, 1875. 25 $\frac{1}{2}$ cm. p. [3]-14)
- Schwarz, Eugene Amandus.** . . . Psyllidæ. [Washington] 1900.  
539-540 p. 25cm. (Papers from the Harriman Alaska expedition. XIX. Entomological results (13)  
Proceedings of the Washington academy of sciences, vol. II, pp. 539-540, December 20, 1900.
- Thomas, Friedrich August Wilhelm.** Die blattflohkrankheit der lorbeer-  
bäume . . . Berlin, 1891.  
6 p. 24cm.  
Sonderabdruck aus "Gartenflora," jahrgang 1891, heft 2 und 3.  
"Litteratur": p. 6.
- Thomas, Friedrich August Wilhelm.** Durch psylloden erzeugte cecidien an  
*Ægopodium* und andern pflanzen . . . [Berlin] 1875.  
[438]-446 p. 22cm.  
From Zeitschr. f. d. ges. naturw. Bd. XLVI, 1875.

## APHIDÆ.

**Alwood, William Bradford.** Circular in relation to some injurious insects.  
*See under* Coccidæ, p. 415.

**Alwood, William Bradford.** Report on experiments with remedies against the  
hop-louse. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . #  
1888. Washington, 1889. p. 102-111. pl.)

**Balbiani, Édouard Gérard.** . . . Mémoire sur la génération des aphides.  
[Paris, 1869-72]

4 nos. 3 pl. (1 fold, 2 double, 1 col.) 25<sup>em</sup>.

From Annales des sciences naturelles. 5. sér. Zoologie et paléontologie, tome XI, cahier n° 1-2; tome XIV, article n° 2, 9; tome XV, article n° 1.

**Blochmann, Friederich.** Ueber die regelmässigen wanderungen der blattläuse speziell über den generationszyklus von *Chermes abietis* L. Erlangen, 1889.

[271]-284 p. 22<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Sonderabdruck aus dem "Biologischen centralblatt." bd. IX, nr. 9.

**Boas, Johan Erik Vesti.** Om en rodlus, *Pemphigus poschingeri*, paa ædelgran. [Kjøbenhavn] 1890.

[107]-112 p. illus. 20<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Særtryk af Tidsskrift for skovvæsen, Bd. II, A., 1890.

**Bonnet, Charles.** Traité d'insectologie; ou Observations sur les pucerons. Par M. Charles Bonnet . . . Paris, Durand, 1745.

2 v. 8 pl., 2 fold. tab. 16<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Vol. 2 has title: Traité d'insectologie; ou Observations sur quelques espèces de vers d'eau douce qui coupés par morceaux, deviennent autant d'animaux complets . . .

**Brodie, William.** The spruce gall-louse. (*Chermes abietis*) . . . Toronto, 1898.

2 p. pl. 22<sup>em</sup>.

At head of title: Ontario department of agriculture.

**Buckton, George Bowdler.** Monograph of the British Aphides . . . By George Bowdler Buckton. . . London, Printed for the Ray society, 1876-83.

Agr 4-3499

4 v. cxxxiv (i. e. 150) pl. (141 col.) 22<sup>1</sup>/<sub>4</sub><sup>em</sup>. (Added t.-p.: The Ray society. . . . [Publication])

"Bibliography of authors who have treated of the life-history or of the anatomy of Aphides": v. 4, p. 203-210.

**Büsgen, Moritz.** Der honigtau. Biologische studien an pflanzen und pflanzenläusen. Von M. Büsgen . . . Jena, G. Fischer, 1891.

2 p. l., 87, [3] p. 2 fold. pl. 25<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Besonderer abdruck aus der Jen. zeitschrift für naturwissenschaft. bd. xxv (n. f. bd. xviii)

**Caen, Société royale d'agriculture et de commerce de.** . . . Programme d'un prix proposé au concours pour la destruction du puceron lanigère. Résumé des observations et des mémoires adressés à la société relativement à la destruction du puceron lanigère. Par M. Eudes-Deslongchamps. Mémoire sur le puceron lanigère et sur les moyens de le détruire. Par M. Frédéric Blot. Caen, F. Poisson, imprimeur de la société, 1830.

82, [2] p. 21<sup>1</sup>/<sub>4</sub><sup>em</sup>.

**Chittenden, Frank Hurlbut.** Destructive green pea louse (*Nectarophora destructor* Johns.) Washington, 1901.

8 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 43)

**Courchet, Lucien Désiré Joseph.** Étude sur les galles produites par les aphidiens, par Lucien Courchet . . . Montpellier, Typographie et lithographie Boehm et fils, 1879.

Agr 4—3520

106 p. vi pl. 28<sup>em</sup>.

From Mémoires de l'Académie des sciences et lettres de Montpellier. (Section des sciences)

**Derbès, Alphonse.** Note sur les aphidiens du pistachier térébinthe . . . [Paris, 1871]

5 p. pl. 25<sup>1</sup>/<sub>4</sub><sup>em</sup>.

From Annales des sciences naturelles. Zoologie. 5. sér., tome 15.

**Derbès, Alphonse.** Observations sur les aphidiens qui font les galles des pistachiens . . . [Paris, 1869]

[98]-107 p. 3-4 pl. 25<sup>em</sup>.

From Annales des sciences naturelles. Zoologie. 5. sér., tome XI.

- Derbès, Alphonse.** Troisième note sur les pucerons du térébinthe . . . [Paris, 1882]  
15 p. 13-14 pl. (1 double) 25<sup>cm</sup>.  
From *Annales des sciences naturelles. Zoologie.* 6. sér., tome 12.
- Dewar, W. R.** Some plant lice of the Orange River Colony. By W. R. Dewar . . . [Bloemfontein, 1905]  
15, 16 p. illus., pl. 24<sup>cm</sup>. (. . . Orange River Colony. Department of agriculture . . . Farmers' bulletin. no. VIII. March, 1905)  
Text in English and Dutch.
- Dreyfus, Ludwig Theodor.** Neue beobachtungen bei den gattungen Chermes L. und Phylloxera Boyer de Fonsc. [Leipzig] 1889.  
2 pts. 23<sup>cm</sup>.  
Separat-abdruck aus dem "Zoologischen anzeiger." No. 299, 300, 1889.
- Dreyfus, Ludwig Theodor.** Zu Prof. Blochmann's aufsatz "Ueber die regelmässigen wanderungen der blattläuse, speciell über den generationszyklus von Chermes abietis" . . . Erlangen, 1889.  
[368]-376 p. 22<sup>cm</sup>.  
Sonderabdruck aus dem "Biologischen centralblatt." Bd. IX, nr. 12.
- Fernald, Charles Henry.** The spruce gall-louse. (Chermes abietis Linn.) . . . [n. p., n. d.]  
12 p. II pl. 23<sup>cm</sup>.
- Froggatt, Walter Wilson.** . . . Woolly aphid, or American blight (*Schizoneura lanigera*, Hausman) . . . [Sydney] 1903.  
8 p. illus. 24<sup>cm</sup>. ([New South Wales. Dept. of agriculture] Miscellaneous publication, no. 622)  
From *Agricultural gazette of New South Wales*, January, 1903.  
Bibliography: p. 7-8.
- Gillanders, A. T.** . . . Arboreal Aphidae . . . [Manchester, 1899]  
1 p. l., 71-84 p. v-vi pl. 21<sup>cm</sup>.  
Reprinted from the *Transactions and annual report of the Manchester microscopical society*, 1899.
- Goeldi, Emil August.** Studien über die blutlaus (*Schizoneura lanigera* Hausm.) *Myzoxylus mali* <puceron lanigère> von Dr. phil. Emil A. Göldi . . . Subventionirt durch beschluss vom h. Regierungsrathe des Kantons Schaffhausen (31. juli 1884) Schaffhausen, F. Rothermel, 1885. Agr 4-3540  
28 p. III pl. (2 col.) 30<sup>cm</sup>.
- Goethe, Rudolph.** Die blutlaus *Schizoneura* (*Aphis*) *lanigera* Hausm. . . Berlin, 1883.  
11 p. fold. pl. 26<sup>cm</sup>.  
From *Landwirthschaftliche jahrbücher.* 12. bd., p. 563-571.
- Great Britain—Board of agriculture.** . . . Currant aphides (*Rhopalosiphum ribis*, Linn., and *Myzus ribis*, Linn., &c.) [London, 1901]  
5 p., 1 l. 21<sup>cm</sup>. (*Its* Leaflet no. 68)
- Great Britain—Board of agriculture.** . . . The woolly aphid, or American blight. *Schizoneura lanigera*. [London, 1896]  
4 p. illus. 22<sup>cm</sup>. (*Its* Leaflet no. 34)  
— — [London, 1898]  
4 p. illus. 21<sup>cm</sup>. (*Its* Leaflet no. 34)
- Jacobi, Arnold.** . . . Beobachtungen über die Chermes-art der nordmannstanne . . . [Frankfurt a. M., 1902]  
2 p. 28<sup>cm</sup>.  
Sonderabdruck aus der *Allgemeinen forst- und jagd-zeitung.* April-heft 1902.
- Karsch, Ferdinand Anton Franz.** Die erdlaus *Tychea phaseoli* eine neue gefahr für den kartoffelbau, nebst einer kurzen uebersicht der kartoffelfeinde aus der classe der insecten . . . Berlin, 1886.  
20 p. illus. 23<sup>cm</sup>.

**Kessler, Hermann Friedrich.** Die auf *Populus nigra* L. und *Populus dilatata* Ait. vorkommenden aphiden-arten und die von denselben bewirkten missbildungen . . . Cassel, 1882.

1 p. l., 41 p. iv double pl. 20 $\frac{1}{2}$ cm.

Reprinted from xxviii. bericht des Vereines für naturkunde zu Cassel, p. 36-76.

**Kessler, Hermann Friedrich.** . . . Beitrag zur entwickelungs- und lebensweise der aphiden von Dr. H. F. Kessler . . . Eingegangen bei der Akademie den 16. november 1883. Halle, 1884.

1 p. l., [107]-140 p. fold. pl. 31cm. (Nova acta der Ksl. Leop.-Carol. Deutschen akademie der naturforscher. Bd. XLVII, nr. 3)

**Kessler, Hermann Friedrich.** Die entwickelungs- und lebensgeschichte der blutlaus, *Schizoneura lanigera* Hausm. und deren vertilgung. Nebst einem kurzen anhang, aehnlichkeiten in der entwickelungs- und lebensweise der blutlaus und der reblaus betreffend . . . Cassel, 1885.

58 p. 1 fold. pl. 22 $\frac{1}{2}$ cm.

**Kessler, Hermann Friedrich.** . . . Die entwickelungs- und lebensgeschichte von *Chaitophorus aceris* Koch, *Chaitophorus testudinatus* Thornton und *Chaitophorus lyropictus* Kessler. Drei gesonderte arten. (Bisher nur als eine art, *Aphis aceris* Linné, bekannt) . . . Von Dr. H. F. Kessler . . . Eingegangen bei der Akademie den 10. august 1885. Halle, 1886.

31 p. fold. col. pl. 32 $\frac{1}{2}$ cm. (Nova acta der Ksl. Leop.-Carol. Deutschen akademie der naturforscher. Bd. 51. nr. 2)

**Kessler, Hermann Friedrich.** Die entwickelung- und lebensgeschichte von *Schizoneura corni* Fbr. (Beitrag zur bestätigung der Lichtenstein'schen aphidentheorie) . . . [Cassel, 1883]

11 p. 21cm.

Separatabdruck des xxix. und xxx. jahresberichts des Vereines für naturkunde zu Cassel, p. 90-100.

**Kessler, Hermann Friedrich.** Die lebensgeschichte der auf *Ulmus campestris* L. vorkommenden aphiden-arten und die entstehung der durch dieselben bewirkten missbildungen auf den blättern, von Dr. Hermann Friedrich Kessler. (In Programm der höheren bürgerschule zu Cassel für das schuljahr 1877/78. Cassel, 1878. 26cm. p. 1-18. 1 pl.)

**Kessler, Hermann Friedrich.** Die lebensgeschichte der auf *Ulmus campestris* L. vorkommenden aphiden-arten und die entstehung der durch dieselben bewirkten missbildungen auf den blättern, von Dr. Hermann Friedrich Kessler . . . Cassel, T. Kay, 1878.

25 p. fold. pl. 22 $\frac{1}{2}$ cm.

Separatabdruck aus dem Jahresbericht des Vereins für naturkunde zu Cassel.

**Kessler, Hermann Friedrich.** Neue beobachtungen und entdeckungen an den auf *Ulmus campestris* L. vorkommenden aphiden-arten . . . Cassel, 1880.

1 p. l., 34 p. ii fold. pl. 22 $\frac{1}{2}$ cm.

Separatabdruck aus dem 26. und 27. Jahresberichte des Vereines für naturkunde zu Cassel.

**Kessler, Hermann Friedrich.** Notizen zur lebensgeschichte der rosenblattlaus, *Aphis rosae* L. . . . Cassel, 1886.

11 p. 22 $\frac{1}{2}$ cm.

**Kessler, Hermann Friedrich.** Richtigstellungen . . . über . . . die reblaus . . . und die blutlaus. See under *Phylloxera*, p. 405.

**Kholodkovskiï, Nikolaus Alexandr.** Aphidologische mittheilungen. 1, 4. [Leipzig, 1896-97]

2 nos. 23cm.

Separatabdruck aus dem "Zoologischen anzeiger," no. 520, 1896; no. 530, 1897.

**Kholodkovskiï, Nikolaus Alexandr.** Beiträge zu einer monographie der coniferen-läuse. I. th. Kapitel v-vii. St. Petersburg, 1896.

61 p. vi pl. (4 col.) 25 $\frac{1}{2}$ cm.

Tiré des "Horæ Societatis entomologicæ rossicæ." tome xxxi, juillet 1896.

**Kholodkovskii, Nikolaus Alexandr.** Über die auf nadelhölzern vorkommenden pemphigiden . . . [Leipzig, 1896]

3 p. illus. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 505, 1896.

**Kholodkovskii, Nikolaus Alexandr.** Zur kenntniss der auf fichte (*Picea excelsa* Lk.) lebenden Lachnus-arten. [Leipzig, 1896]

6 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 499, 1896.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Considérations nouvelles sur la génération des pucerons (homoptères monoïques) par Jules Lichtenstein . . . Paris, J.-B. Baillière et fils, 1878.

15, [1] p. 11 pl. 24½<sup>cm</sup>.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** De l'évolution biologique des pucerons en général et du phylloxéra en particulier, par J. Lichtenstein . . . Paris-Bordeaux, La librairie vinicole et viticole, 1883.

vii, [9]-39 p. 18½<sup>cm</sup>. (On cover: Librairie vinicole & viticole. sér. E. no. 1)

"Bibliographie": p. [13]-23. Agr 4-3565

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** La flore des aphidiens, extrait de la Monographie des aphidiens de Jules Lichtenstein . . . Montpellier, 1884.

viii, [9]-55 p. 22½<sup>cm</sup>.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Lettre à M. le directeur du *Messenger agricole*. [Montpellier, 1883]

4 p. 24<sup>cm</sup>.

"Extrait du *Messenger agricole* du 10 août 1883."

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** . . . Monographie des pucerons du peuplier, par Jules Lichtenstein . . . Montpellier, Imprimerie centrale du midi (Hamelin frères) 1886.

vi, [7]-42 p. 22½<sup>cm</sup>.

Les planches explicatives du texte ont paru dans le premier volume (*Genera*) des pucerons, Monographie des aphidiens, du même auteur.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** . . . Nouvelle communication au sujet des homoptères anthogénésiques . . . (Renvoi à la Commission du phylloxera) [Paris, 1877]

1205-1206 p. 28 x 22½<sup>cm</sup>.

From *Comptes rendus de l'Académie des sciences*, tome 85, no. 20 (24 décembre 1877)

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Les pucerons du térébinthe (*Pistacia terebinthus* Lin.) [Paris, 1880].

7 p. 24<sup>cm</sup>.

Extrait de la Feuille des jeunes naturalistes.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Les pucerons; monographie des aphidiens (*Aphididæ passerini* phytophytes Burmeister) par Jules Lichtenstein . . . 1. partie—*Genera*. Montpellier, Chez l'auteur; [etc., etc.] 1885.

vi, [7]-188 p. iv col. pl. 23<sup>cm</sup>.

"Bibliographie": p. [7]-16.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Sobre las emigraciones de los pulgones y las metamorfosis del pulgon del lentisco (*Aploneura lentisci*) . . . [n. p.] 1878.

[471]-474 p. 24<sup>cm</sup>.

From *Anal. de la Soc. esp. de hist. nat.*, tom. vii, 1878.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** . . . Sur l'évolution biologique des pucerons en général et du genre phylloxéra en particulier . . . [Paris, 1882]

475-480 p. 29<sup>cm</sup>. (On cover: Association française pour l'avancement des sciences. Congrès de la Rochelle. 1882)

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** . . . Sur la génération des pucerons . . . [Paris, 1879]

772-774 p. 23<sup>em</sup>. (*On cover*: Association française pour l'avancement des sciences. Congrès de Montpellier. 1879)

**Löw, Franz.** Bemerkungen über die fichtengallenläuse . . . [Wien, 1884]

8 p. illus. 22 $\frac{1}{2}$ <sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1884> besonders abgedruckt.

**Löw, Franz.** . . . Ueber das vorkommen der blutlaus (*Schizoneura lanigera* Hausm.) in der umgebung von Wien. [Wien, 1885]

2 p. 22 $\frac{1}{2}$ <sup>em</sup>.

Separatabdruck aus den Sitzungsberichten der K. K. Zoologisch-botanischen gesellschaft in Wien. Bd. xxxv. 7. october 1885.

**Löw, Franz.** Ueber eine dem mais schädliche aphidenart. *Pemphigus zeae maidis* L. Duf. . . . [Wien, 1878]

[799]-806 p. 22 $\frac{1}{2}$ <sup>em</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft, bd. xxvii.

**Löw, Franz.** Zur näheren kenntniss der begattungsfähigen sexuirten individuen der pemphiginen . . . [Wien, 1880]

6 p. 22 $\frac{1}{2}$ <sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1880> besonders abgedruckt.

**Löw, Franz.** Zur näheren kenntniss zweier pemphiginen . . . [Wien, 1879]

6 p. illus. 22 $\frac{1}{2}$ <sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1879> besonders abgedruckt.

**Marlatt, Charles Lester.** Woolly aphid of the apple (*Schizoneura lanigera* Hausmann) Washington, 1897.

6 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 20)

**Mokrzhet'skiĭ, Sigismund A.** . . . Einige beobachtungen über den cyclus der geschlechts-entwicklung der *Schizoneura lanigera* Hausm . . . [Odessa, 1895]

6 p. col. pl. 22 $\frac{1}{2}$ <sup>em</sup>.

Added title and text in Russian.

From Зап. Нов. общ. естество. т. XXI вып. 1-б.

**Mühlberg, Fritz.** Die blutlaus. Ihr wesen, ihre erkennung und bekämpfung. Im auftrag des Eidgen. landwirthschafts-departements zum gebrauch der eidgenössischen, kantonalen und gemeinde-experten, hrsg. von F. Mühlberg . . . und A. Kraft . . . 2. theilweise umgearb. auf. . . . Aarau, J. J. Christen, 1885.

1 p. 1., 55, [1] p. col. front. 23<sup>em</sup>.

**Murtfeldt, Mary Esther.** Plant-lice and their enemies. [Jefferson City, Mo., 1898]

135-139 p. 23<sup>em</sup>.

From the Fortieth annual report of the State horticultural society of Missouri, 1897.

**Oestlund, Oscar W.** . . . List of the Aphididæ of Minnesota, with descriptions of some new species . . . St. Paul, 1886.

[17]-56 p. 23<sup>em</sup>.

Extracted from the Fourteenth annual report of the Geological and natural history survey of Minnesota.

**Oestlund, Oscar W.** . . . Synopsis of the Aphididæ of Minnesota. By O. W. Oestlund. St. Paul, The Pioneer press company, 1887.

Agr 4—3576

2 p. 1., 100 p. 24 $\frac{1}{2}$ <sup>em</sup>. (Geological and natural history survey of Minnesota. Bulletin no. 4)

"Bibliography of the Aphididæ as treated by American authors": p. 9-12.

**Osborn, Herbert.** Notes on Aphididæ [by] Herbert Osborn and F. A. Serrine. [Des Moines, 1893]

4 p. 23<sup>em</sup>.

From Proceedings Iowa academy of sciences for 1892, v. 1, pt. 3, p. 98-101.

**Osborn, Herbert.** Plant lice infesting grass roots [by] Herbert Osborn and F. A. Serrine. [Des Moines, 1895]

[78]-91 p. 1 pl. 22 $\frac{1}{2}$ cm.

From Proc. Iowa acad. sci., 1894, vol. II, p. 78-91.

**Packard, Alpheus Spring.** Entomological report on the army worm and grain aphid. See under Noctuidæ, p. 342.

**Passerini, Giovanni.** Aphididæ italicae hucusque observatae a J. Passerini .  
Genuæ, Ex thypographæo sordo-muti, 1863.

Agr 5-222

90 p. 22 $\frac{1}{2}$ cm.

**Pergande, Theodore.** Life history of two species of plant-lice, inhabiting both the witch-hazel and birch. Washington, 1901.

44 p. illus. 23cm. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 9)

**Planchon, Gustave.** Le kermès du chêne aux points de vue zoologique, commercial & pharmaceutique, par Gustave Planchon Paris, Savy; Montpellier, Typographie de Boehm & fils, 1864.

Agr 4-3585

47 p. 22 $\frac{1}{2}$ cm.

**Planchon, Jules Emile.** Notes entomologiques. See under Forest insects, p. 91.

**Riley, Charles Valentine.** . . . Notes on the Aphididæ of the United States, with descriptions of species occurring west of the Mississippi, by Chas. V. Riley and J. Monell . . . Washington, 1879.

32 p., 2 l. II pl. 23cm.

"Authors' edition."

At head of title: Department of the interior. United States geological and geographical survey . . .  
Extracted from the Bulletin of the survey, vol. v, no. 1.

CONTENTS.—Pt. I. Biological notes on the Pemphiginæ, with descriptions of new species.—C. V. Riley.—Pt. II. Notes on Aphidinae, with descriptions of new species.—J. Monell.

**Riley, Charles Valentine.** Problem of the hop-plant louse (*Phorodon humuli*, Schrank) in Europe and America . . . [London, 1887]

3 p. 21 $\frac{1}{2}$ cm.

Reprinted from the Report of the British association, 1887.

**Riley, Charles Valentine.** Some important discoveries in the life-history of the hop plant-louse (*Phorodon humuli*, Schrank) . . . [Geneva, N. Y., 1887]

205-207 p. 24 $\frac{1}{2}$ cm.

From Agricultural science, vol. 4, no. 9, September, 1887.

**Ritsema Cz., Coenraad.** . . . Sur l'origine et le développement du Periphylus testudo v. d. H . . . (Présenté à l'Académie des sciences d'Amsterdam, dans sa séance du 29 janv. 1870) [Amsterdam, 1870]

6 p. 23 $\frac{1}{2}$ cm.

Extrait: des "Archives néerlandaises," t. v, 1870.

**Sanderson, Ezra Dwight.** Aphides of the apple, pear, and quince. (U. S. Agriculture, Dept. of—Experiment stations, Office of. Bulletin 115. Washington, 1902. p. 123-126)

**Serrine, F. Atwood.** . . . A new species of Pemphigus occurring on thorn . . . [Des Moines] 1893.

129-131 p. 22 $\frac{1}{2}$ cm.

From Proceedings Iowa academy of sciences for 1893, vol. 1, pt. IV.

**Stebbing, E. P.** . . . A first note on the life-history of *Chermes abietes-picæ* Steb. MS. . . [Calcutta, 1903]

[229]-235 p. 23cm.

From the Journal, Asiatic society of Bengal, vol. LXXII, pt. II, no. 4, 1903.

**Stebbing, E. P.** . . . On the acquisition of alar appendages by the spruce form of *Chermes abietes-picæ* MS. in the n.-w. Himalayas . . . [Calcutta, 1903]

[57]-60 p. pl. 23cm.

From the Journal, Asiatic society of Bengal, vol. LXXII, pt. II, no. 2, 1903.



**Stedman, John Moore.** The woolly-aphis of the apple or the apple-root plant-louse. *Schizoneura lanigera* (Hausm.) [Jefferson City, 1898]

19-32 p. 23<sup>cm</sup>.

From the 40th Annual report of the State horticultural society of Missouri, 1897.

**Thomas, Cyrus.** Notes on the plant-lice found in the United States . . . [Chicago, 1877]

137-212 p. illus. 22½<sup>cm</sup>.

From Transactions of the Illinois state horticultural society for 1876, new ser., vol. x.

**United States—Agriculture, Dept. of—Entomology, Division of.** Hop plant-louse and the remedies to be used against it. Washington, 1891.

7 p. illus., pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 2)

**Vine, H. C. A.** Predacious & parasitic enemies of aphides (including a study of hyper-parasites) . . . [London, 1893]

254-288 p. 12-13 pl. 22½<sup>cm</sup>.

From the International journal of microscopy and natural science, 3d ser., vol. v, pt. 27.

**Weed, Clarence Moores.** . . . On the autumn life-history of certain little-known plant lice . . . [Columbus, O., 1890]

[155]-158 p. 11 pl. 24½<sup>cm</sup>.

From Agricultural science, vol. iv, no. 6, June, 1890.

At head of title: Contributions from the Division of entomology and botany of the Ohio agricultural experiment station.

**Weed, Clarence Moores.** . . . Sixth contribution to a knowledge of the life history of certain little-known Aphididæ . . . [Peoria, Ill., 1896]

[207]-214 p. 23½<sup>cm</sup>.

From Bulletin of the Illinois state laboratory of natural history, Urbana, Ill., vol. III, 1887-1895.

**Williams, Thomas Albert.** Host-plant list of North American Aphididæ . . . Lincoln, Neb., The Hunter printing house, 1891.

cover-title, 28 p. illus. 23<sup>cm</sup>. (Special bulletin no. 1, from the University of Nebraska, Department of entomology, July 8, 1891)

**Woods, Albert Fred.** . . . Stigmonose: a disease of carnations and other pinks. By Albert F. Woods . . . Washington, Gov't print. off., 1900.

30 p. illus., 111 pl. (1 col.) 23<sup>cm</sup>. (. . . U. S. Agriculture, Dept. of—Vegetable physiology and pathology, Division of. Bulletin no. 19)

#### PHYLLOXERA. BIBLIOGRAPHY.

**Planchon, Jules Émile.** . . . Le phylloxéra, faits acquis et revue bibliographique (1868-1871) par J.-É. Planchon et J. Lichtenstein . . . Montpellier, J. Martel aîné, 1872.

121 p. col. front. 23½<sup>cm</sup>.

At head of title: Congrès scientifique de France (xxxv. session—Montpellier)

"Extrait du Compte-rendu des travaux du Congrès scientifique de France, tenu à Montpellier, en décembre 1868."

#### PHYLLOXERA.

**Allard, Ma.** Étude pratique du phylloxéra & du mildiou de la vigne; principaux moyens employés pour combattre ces maladies, par Ma. Allard . . . Vesoul, Chez l'auteur, [etc., etc.] 1889.

cover-title, 48 p. illus. 21<sup>cm</sup>.

**Allies, F.** . . . Le phylloxéra; régénération des vignes phylloxérées. Marseille, Typographie M. Olive, 1876.

Agr 4—3469

45 p. pl. 25<sup>cm</sup>.

**Aloi, Alberto.** . . . Sulla necessità di ricorrere ancora a' metodi curativi e distruttivi nella lotta contro la fillossera; relazione al Congresso internaz. antifillosserico di Torino del 31 agosto 1898 . . . [n. p., 1898]

23 p. 16<sup>cm</sup>.

Estratto dall' "Agricoltore Calabro-Siculo" anno xxxiii, n. 19 e 20.

**Anez, Hippolyte.** Mortalité des vignes; leur traitement; faits acquis; inondation des vignes phylloxérées; à qui revient la priorité sur ce procédé? . . . Par H. Anez . . . Paris, Librairie agricole de la maison rustique, 1874. Agr 4—3470  
35, [1] p. 24<sup>cm</sup>.

**Aubergier, Hector.** Résultats obtenus, au moyen du sulfocarbonate de potassium, sur les vignes phylloxérées de Mézel . . . [Paris, 1876]  
[6]-10 p. 28 x 22<sup>4</sup><sup>cm</sup>.

"Observations sur la lettre de M. Aubergier; par M. Dumas": p. [9]-10.

"Extrait des Comptes rendus . . . de l'Académie des sciences . . . (Séances des 2 novembre 1875 et 3 juillet 1876)"

**Austria—K. K. Ackerbau-ministerium.** Die bekämpfung der reblaus (Phylloxera vastatrix) Nach den ergebnissen des Phylloxera-congresses zu Lausanne und dem stande der neuesten erfahrungen, veröffentlicht vom K. K. Ackerbau-ministerium. Wien, Verlag des K. K. Ackerbau-ministeriums, 1878.  
cover-title, 20 p. 28<sup>1</sup>/<sub>4</sub> x 22<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

**Austria—K. K. Ackerbau-ministerium.** Bericht über das auftreten der Phylloxera vastatrix in Oesterreich, erstattet im auftrage des Ackerbauministers. Wien, Verlag des K. K. Ackerbauministeriums, 1874. Agr 4—3474  
32 p. 22<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

**Austria—K. K. Ackerbau-ministerium.** Bericht über die verbreitung der reblaus (Phylloxera vastatrix) in Österreich im jahre 1882-1903 . . . Wien, 1883-1904.  
18 nos. maps, tables. 23-24<sup>cm</sup>.

**Balbiani, Édouard Gérard.** Mémoire sur la reproduction du phylloxéra du chêne, par M. Balbiani . . . Paris, Imprimerie nationale, 1874.  
cover-title, 21 p. 27<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

Extrait des Mémoires présentés par divers savants à l'Académie des sciences [de l'Institut national de France. Tome XXII. n° 14]

**Balbiani, Édouard Gérard.** . . . Mémoires sur le phylloxéra, présentés à l'Académie des sciences en 1876 . . . Paris, 1876.  
41 p. 28<sup>1</sup>/<sub>4</sub> x 21<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

Extraits des Comptes rendus . . . de l'Académie des sciences, t. LXXXII et LXXXIII, 1876.

**Balbiani, Édouard Gérard.** Les phylloxéras sexués et l'œuf d'hiver . . . [Paris, 1875]  
7 p. 28<sup>1</sup>/<sub>4</sub> x 22<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

From Comptes rendus de l'Académie des sciences.

**Balbiani, Édouard Gérard.** Recherches sur l'action du coaltar dans le traitement des vignes phylloxérées . . . [Paris, 1874]  
8-14 p. 28 x 22<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

"Extrait des Comptes rendus . . . de l'Académie des sciences . . . (Séance du 12 octobre 1874)"

**Balbiani, Édouard Gérard.** . . . Sur la parthénogénèse du phylloxéra comparée à celle des autres pucerons . . . [Paris, 1876]  
5 p. 28 x 22<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

Extrait des Comptes rendus . . . de l'Académie des sciences . . . (Séances des 2 novembre 1875 et 3 juillet 1876)

**Bargagli, Piero, marchese.** I rimedi contro la Phylloxera vastatrix all' Esposizione universale di Parigi nel 1878. [Firenze, 1879]  
6 p. 23<sup>1</sup>/<sub>4</sub><sup>cm</sup>.

Estratto dal giornale L'Agricoltura italiana, anno v, 1879—Fasc. LX.

**Bastian, Fr.** Destruction du phylloxéra. Par Fr. Bastian . . . [Wissembourg, Typ. C. Burckardt, 18—]  
8 p. 22<sup>cm</sup>.

**Baudrimont, Alexandre Édouard.** . . . Leçon sur le phylloxéra, faite, le 17 juillet 1874, par A. Baudrimont . . . Bordeaux, Impr. G. Gounouilhou, 1874.  
39 p. illus. 24<sup>cm</sup>.

Agr 4—3479

At head of title: Cours de chimie agricole institué près la Faculté des sciences de Bordeaux.

**Bazille, Gaston i. e., Jean François Gaston.** Études sur le phylloxéra, par M. Gaston Bazille . . . [Montpellier, Typogr. de P. Grollier] 1872.

7 p. 22<sup>cm</sup>.

Caption title.

**Beck, Otto.** Die wurzellaus des rebstocks (Phylloxera [1] vastatrix) Im auftrage der Königlichen regierung zu Trier nach den neuesten erfahrungen, bearb. von Otto Beck . . . Trier, In commission der F. Lintz'schen buchhandlung, 1873.

24 p. 21<sup>cm</sup>.

Agr 4—3481

**Belfort de la Roque, L. de.** La destruction du phylloxéra par le procédé Ronçin, par L. de Belfort de la Roque . . . Paris, 1884.

2 p. l., 84 p. illus. 22<sup>cm</sup>.

**Belgium—Ministère des affaires étrangères.** . . . Convention phylloxérique de Berne. Mesures d'exécution. Bruxelles, Impr. A. Mertens, 1882.

28 p. 22<sup>cm</sup>.

At head of title: . . . Ministères des affaires étrangères et de l'intérieur.

Extrait du Moniteur belge du 12 octobre 1882, no. 285.

**Blake, James.** On phylloxera. [San Francisco, 1876]

180-182 p. 24<sup>cm</sup>.

From the Proceedings of the California academy of sciences, vol. vi.

**Blankenhorn, Adolph.** A tutti coloro che fanno studii e ricerche sulla phylloxera. [Heidelberg, 1878]

6 p. 23<sup>cm</sup>.

"Separat-abdruck aus den Annalen der oenologie, vii., bd., 3. hft."

**Blankenhorn, Adolph.** An alle diejenigen, die sich mit dem studium der Phylloxera-frage befassen. [Heidelberg, 1878]

6 p. 22<sup>cm</sup>.

"Separat-abdruck aus den Annalen der oenologie, vii. bd., 1. hft."

**Blankenhorn, Adolph.** . . . Aufruf zur einwendung von objecten für die zu errichtende internationale ampelographische versuchsstation auf Blankenhornsberg. Heidelberg [1876]

8 p. 23<sup>cm</sup>.

Separat-abdruck aus den Annalen der oenologie, vi. bd., 2. hft."

**Blankenhorn, Adolph.** . . . Beiträge zur frage der natürlichen feinde der phylloxera . . . [Heidelberg, 1877]

8 p. 23<sup>cm</sup>.

Mittheilungen des Önologischen instituts Carlsruhe-Blankenhornsberg.

"Separat-abdruck aus den Annalen der oenologie, vii. bd., 2. hft."

**Blankenhorn, Adolph.** List of preparations of phylloxera, its natural enemies, and other insects living on the vine. By Dr. Adolph Blankenhorn. Karlsruhe, Printed by F. Gutsch, 1880.

8 p. 21<sup>cm</sup>.

**Blankenhorn, Adolph.** Über die Phylloxera vastatrix und die organisation ihrer bekämpfung. Vortrag, gehalten am 7. februar 1878 im Polytechnischen verein in Carlsruhe . . . Heidelberg, 1878.

23 p. pl. 23<sup>cm</sup>.

Aus den Annalen der oenologie, bd. vii, hft. 2, besonders abgedruckt.

**Blankenhorn, Adolph.** Ueber eine zu errichtende internationale Phylloxera-commission. [Genf, 1877]

[4] p. 29 x 22<sup>cm</sup>.

**Blankenhorn, Adolph.** . . . Verzeichniss der präparate der phylloxera, ihrer natürlichen feinde und anderer, an der rebe lebenden thiere, von Dr. Adolph Blankenhorn . . . Karlsruhe, F. Gutsch, 1880.

8 p. 21<sup>cm</sup>.

At head of title: Oenologisches institut Carlsruhe-Blankenhornsberg.

2. durchgesehener abdruck aus der Annalen der oenologie.

- Blankenhorn, Adolph.** Die wurzellaus des weinstockes, *Phylloxera vastatrix*. Zur orientirung der deutschen weinbergbesitzer und freunde des weinbaues. Bearb. von Dr. A. Blankenhorn . . . und Dr. J. Moritz . . . Heidelberg, 1875.  
viii, 16 p., 1 l. iv pl. (1 col. fold.) incl. 2 maps. 23 $\frac{1}{2}$ cm.  
"Aus den Annalen der oenologie besonders abgedruckt."
- Blunno, M.** *Phylloxera-resistant vine stocks* . . . [Sydney, 1902]  
765-771 p. pl. 25cm.  
From the Agricultural gazette of New South Wales, vol. XIII.
- Boiteau, P.** Le phylloxéra ailé et sa descendance; traitement, par M. P. Boiteau . . . Libourne, G. Maleville, 1876. Agr 4-3485  
x, 62 p. illus. 23cm.
- Bolle, Giovanni.** L'infezione fillosserica in Istria nel 1884 . . . [Gorizia, Tip. Paternolli, 1886]  
24 p. 24cm.  
Estratto dagli "Atti e memorie" [dell' I. R. Società agraria di Gorizia] anno 1886.
- Bolle, Giovanni.** I rimedi contro la fillossera . . . Gorizia, 1882.  
20 p. 25 $\frac{1}{2}$ cm.
- Bolle, Giovanni.** La sommersione delle vigne affette dalla *Phylloxera vastatrix*, di G. Bolle. [Gorizia, Tip. Paternolli, 188-?] 8 p. 23 $\frac{1}{2}$ cm.
- Borde de Tempest, Ernest.** . . . *Phylloxéra, sa destruction certaine*. Montpellier, 1873.  
14 p. 24cm.  
Extrait du Messenger agricole, janvier 1873.
- Bouley, Henri Marie.** . . . Rapport sur les réclamations dont a été l'objet le décret rendu sur la demande de M. le gouverneur de l'Algérie, relatif à l'importation en Algérie de plants d'arbres fruitiers ou forestiers venant de France . . . Paris, 1875.  
8 p. 28 $\frac{1}{2}$  × 23cm.  
Extrait des Comptes rendus . . . de l'Académie des sciences, t. LXXI.
- Bourbon, C.** Destruction du phylloxéra insectes & cryptogames par le pyrophore insecticide de C. Bourbon. Perpignan, Impr. de C. Latrobe, 1879.  
19 p. fold. pl. 23cm.
- Bouschet, H.** Moyens de transformer promptement par les vignes américaines les vignobles menacés par le phylloxéra, par M. H<sup>i</sup> Bouschet . . . Montpellier, C. Coulet; [etc., etc.] 1874.  
11 p. 22 $\frac{1}{2}$ cm.  
— — — Montpellier, Imprimerie centrale du midi, Ricateau, Hamelin et cie., 1874.  
8 p. 23 $\frac{1}{2}$ cm.  
Extrait du Messenger agricole du 10 fevrier 1874.
- Boutin, A.** Etudes d'analyses comparatives sur la vigne saine et sur la vigne phylloxérée, par M. Boutin aîné . . . Paris, Imprimerie nationale, 1877.  
cover-title, 20 p. 28x22cm.  
Extrait des Mémoires présentés par divers savants à l'Académie des sciences [de l'Institut national de France. Tome xxv.—no. 6]
- Boyer, Félix.** De la fumure chimique des vignes à propos du phylloxéra . . . Nîmes, 1871.  
10 p. 21 $\frac{1}{2}$ cm.  
Extrait du Bulletin de la Société d'agriculture du Gard. (Livraison de mai 1871)
- Brunfaut, Jules.** La vigne et le phylloxéra, par Jules Brunfaut . . . Paris, A. Lefèvre, 1875. Agr 4-3498  
2 p. l., 75 p. 18 $\frac{1}{2}$ cm.
- Cabello é Ibañez, Luis.** La vérité sur le *Phylloxera vastatrix*, par Luis Cabello é Ibañez . . . Barcelone, Typographie de "l'Académie" d'E. Ullastres, 1879.  
4 p. l., 49 p. 24 $\frac{1}{2}$ cm.  
"Travail présenté . . . au congrès tenu par l'Association française pour l'avancement des sciences à Montpellier, le mois de septembre MDCCCLXXIX."  
"Bibliographie": p. 47-48.

**Cantin, Gustave.** . . . Le phylloxéra; sa destruction par le lysol. Paris, Librairie agricole de la maison rustique [1900]

22 p., 1 l. 26½<sup>cm</sup>.

"Bibliographie": at end.

**Cape of Good Hope**—*Inspector of vineyards.* . . . Report of the Inspector of vineyards for 1886 . . . Cape Town, W. A. Richards & sons, government printers, 1887.

1 p. l., 32 p. fold. plan. 24½<sup>cm</sup>.

At head of title: Cape of Good Hope.

**Cape of Good Hope**—*Phylloxera commission.* . . . Final report of the Phylloxera commission, 1893. Cultivation of American vines. With minutes of proceedings and appendices . . . Cape Town, W. A. Richards & sons, government printers, 1893.

27 p. 33<sup>cm</sup>.

At head of title: Cape of Good Hope. Department of lands, mines, and agriculture..

**Cape of Good Hope**—*Phylloxera commission.* . . . Preliminary report of the Phylloxera commission, 1893. Quarantine and import regulations. With minutes of proceedings, minutes of evidence, and appendix . . . Cape Town, W. A. Richards & sons, government printers, 1893.

44 p. 33<sup>cm</sup>.

**Cape of Good Hope**—*Phylloxera commission.* . . . Report of the Phylloxera commission, 1886 . . . Cape Town, 1886.

1 no. illus. 33<sup>cm</sup>.

At head of title: Cape of Good Hope.

**Cauvy, B.** Note sur le phylloxéra, adressé . . . le 31 août dernier, à Messieurs les membres de la Société centrale d'agriculture de l'Hérault, et le 8 septembre, à M. Dumas, secrétaire perpétuel de l'Académie des sciences de Paris . . . Montpellier, 1874.

24, 5 p. 22½<sup>cm</sup>.

Extrait du Bulletin de la Société d'agriculture de l'Hérault.

**Cauvy, B.** Le salut des vignes, véritable point de vue sous lequel il convient de considérer la maladie actuelle de la vigne causée par le phylloxéra pour la combattre efficacement et instructions relatives, soit aux moyens propres à garantir les vignes saines des atteintes de cet insecte, soit à la marche à suivre pour le renouvellement des vignes déjà ravagées, par B. Cauvy . . . Montpellier, Imprimerie centrale du midi, 1874.

24 p. 24<sup>cm</sup>.

**Conférence phylloxérique internationale, Berne, 1878.** Actes de la Conférence phylloxérique internationale, réunie à Berne du 9 au 17 septembre 1878. Berne, Impr. Stämpfli, 1878.

68 p. 35½<sup>cm</sup>.

**Congrès interdépartemental, Bordeaux, 1875.** . . . Compte-rendu du Congrès interdépartemental tenu à Bordeaux les 1<sup>er</sup>, 2, 3, et 4 décembre 1875, sous les auspices du conseil général de la Gironde . . . Bordeaux, Féret et fils, 1876.

cover-title, 1 p. l., [27]—106 p. pl., fold. map. 25<sup>cm</sup>. (Association française pour l'avancement des sciences. Groupe régional girondin. Bulletin du phylloxéra dans la Gironde. no. 2.

**Congrès international phylloxérique, Bordeaux, 1881.** . . . Programme et règlement. Bordeaux, Impr. nouvelle A. Bellier & c<sup>ie</sup>, 1881.

cover-title, 1 p. l., 12 p. 27x21<sup>cm</sup>.

**Congrès phylloxérique international, Lausanne, 1877.** Actes du Congrès phylloxérique international, réuni à Lausanne du 6 au 18 août 1877. Lausanne, Impr. L. Vincent, 1877.

x p., 1 l., 122 p., 1 l. 33<sup>cm</sup>.

**Congresso fillosserico internazionale, Torino, 1884.** . . . Atti del Congresso fillosserico internazionale, Torino, ottobre 1884. Roma, Tipografia eredi Botta, 1885.

vii, 401 p. 23½<sup>cm</sup>.

Agr 3—150

At head of title: Ministero di agricoltura, industria e commercio. Direzione generale dell'agricoltura. Annali di agricoltura, 1885. [no. 95]

**Cook, Albert John.** Grape phylloxera. An address delivered . . . at the meeting of the society held at Monroe in June 1875. [Lansing, Mich., 1875]

[341]-350 p. illus. 24 $\frac{1}{2}$ cm.

From the Fourth annual report of the State pomological society of Michigan, 1874.

**Cook, Albert John.** The grape-vine phylloxera. [Columbus, 1878]

39-46 p. illus. 24cm.

From the Eleventh annual report of the Ohio state horticultural society . . . 1877-8.

Also in Thirty-second annual report of the Ohio state board of agriculture . . . 1877. Appendix, p. 155-162.

**Cornu, Maxime.** . . . Études sur la nouvelle maladie de la vigne, par M. Maxime Cornu . . . [Paris, Imprimerie nationale, 1876]

46 p. III col. pl. 28x22 $\frac{1}{2}$ cm.

Caption title.

Mémoires présentés par divers savants à l'Académie des sciences de l'Institut national de France. Tome xxii.—no. 6.

**Cornu, Maxime.** Expériences faites à la Station viticole de Cognac dans le but de trouver un procédé efficace pour combattre le phylloxéra, par MM. Max. Cornu et Mouillefert . . . Paris, Imprimerie nationale, 1876.

cover-title, 240 p. 28x22 $\frac{1}{2}$ cm.

Extrait des Mémoires présentés par divers savants à l'Académie des sciences de l'Institut national de France. [Tome xxv.—no. 3]

**Coste, L.** Le phylloxéra au congrès de Montpellier, par le Dr. L. Coste. Salins, Billet, 1875.

32 p. 21cm.

**Coste, L.** . . . Rapport sur l'état actuel de la maladie de la vigne, par le Dr. L. Coste . . . Poligny, Impr. de G. Mareschal, 1876.

31 p. 22 $\frac{1}{2}$ cm.

At head of title: Commission du phylloxéra de l'arrondissement de Poligny.

**Coste, U.** Phytotomie pathologique; étude anatomique de la lésion produite par le phylloxéra sur les racines de la vigne; détermination du degré de résistance au phylloxéra des divers cépages . . . par le Dr. U. Coste . . . Montpellier, Imprimerie centrale du midi, 1877.

48 p. illus. 22 $\frac{1}{2}$ cm.

**Covelle, Ernest.** Le phylloxéra dans le canton de Genève en 1880, 1883, 1886; rapport à la Commission cantonale, par Ernest Covelle . . . Genève, 1881-87.

3 nos. 22-23cm.

**Crolas.** . . . Manuel pratique des sulfurages. Guide du vigneron pour l'emploi du sulfure de carbone contre le phylloxera, par le Dr. Crolas . . . [et] V. Vermorel . . . 16. ed., rev. et augm. Villefranche (Rhône) Aux bureaux du Progrès agricole et viticole; Paris, Michelet; [etc., etc.] 1893.

Agr 4-3413

110 p. incl. illus., diagrs. 21cm. (Bibliothèque du Progrès agricole et viticole)

**Crolas.** Phylloxéra et sulfure de carbone; enquête sur les vignes sulfurées dès le commencement de l'invasion phylloxérique, par le docteur Crolas . . . Lyon, Georg; [etc., etc.] 1888.

2 p. 1., 92 p. 20 $\frac{1}{2}$ cm.

**Crozier, F. P.** Phylloxéra et sulfure du carbone; traité pratique et raisonné de la défense des vignes, par F.-P. Crozier . . . Paris, Librairie agricole de la maison rustique, 1884.

xi, 230 p. illus. 17cm.

**Cuboni, Giuseppe.** . . . Il problema fillosserico in Italia; prolusione al corso di patologia vegetale nella R. Università di Roma (xi gennaio mdcccxcix) Roma, Tipografia della Camera dei deputati, 1899.

14 p. 26cm.

At head of title: Società degli agricoltori italiani, Roma. Prof. G. Cuboni.

**Dahlen, H. W.** . . . Bericht über die gegen ende juli 1878 im auftrag des präsidiums des Deutschen weinbauvereins unternommene reise nach den phylloxerainfektionsheerden des cantons Neufchâtel . . . Heidelberg [1879]

4 p. 23<sup>cm</sup>.

Separat-abdruck aus den Annalen der oenologie. VIII. bd. 1/2 hft.

**Dahlen, H. W.** . . . Ueber das auftreten der Phylloxera vastatrix in Bollweiler (Oberelsass) und sich daran knüpfende mittheilungen bezüglich der behandlung inficirter stöcke zur erhaltung des sortimentes . . . Heidelberg [1877]

14 p. 22<sup>cm</sup>.

Separatabdruck aus den Annalen der oenologie. VI. bd. 2. hft.

**David, Georg.** Die wurzellaus des weinstockes (Phylloxera vastatrix) in allen ihren beziehungen gemeinverständlich dargestellt, von Dr. Georg David . . . Wiesbaden, Hof-buchhandlung von E. Rodrian, 1875.

Agr 4—3522

iv, 70 p. front. (fold. map) 4 pl. 18<sup>cm</sup>.

**Despeissis, A.** Phylloxera of the vine . . . [Sydney, 1895]

13-29 p. illus., col. pl. 24<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. VI, 1895.

**Dillmann, C.** Die reblaus. (Phylloxera vastatrix) Von C. Dillmann . . . Reutlingen, E. Fehleisen, 1875.

55 p. illus. 17<sup>cm</sup>.

**Donnadieu, A. L.** Sur la ponte du phylloxéra pendant la saison d'hiver . . . [Paris, 1887]

3 p. 27<sup>cm</sup>.

From Comptes rendus . . . de l'Académie des sciences, tome 104, p. 483-485.

**Donnadieu, A. L.** Sur quelques points controversés de l'histoire du phylloxéra . . . [Paris, 1887]

4 p. 26<sup>cm</sup>.

From Comptes rendus . . . de l'Académie des sciences, tome 104, p. 836-839.

**Donnadieu, A. L.** Les véritables origines de la question phylloxérique, par A. L. Donnadieu . . . Paris, J.-B. Baillièrre et fils, 1887.

16 p. 24<sup>cm</sup>.

**Dreyfus, Ludwig Theodor.** Ueber phylloxerinen. Von Dr. Ludwig Dreyfus . . . Wiesbaden, J. F. Bergmann, 1889.

3 p. l., 88 p. 24<sup>cm</sup>.

**Duclaux, Pierre Émile.** Études sur la nouvelle maladie de la vigne dans le sud-est de la France, par M. Duclaux . . . Paris, Imprimerie nationale, 1874.

cover-title, III, 54 p. 9 maps. 28 × 22<sup>cm</sup>.

"Annexe. Juillet 1874." p. [53]-54, map.

Extrait des Mémoires présentés par divers savants à l'Académie des sciences [de l'Institut national de France. Tome XXII.—No. 5]

——— Annexe. Juillet 1875. [Paris, Imprimerie nationale, 1875]

2 p. map. 28 × 23<sup>cm</sup>.

——— Annexe. Septembre 1876. [Paris, Imprimerie nationale, 1876]

3 p. 2 fold. maps. 28 × 22<sup>cm</sup>.

From Mémoires présentés par divers savants à l'Académie des sciences de l'Institut national de France. Tome XXV. No. 7.

**Duclaux, Pierre Émile.** Rapport sur les études relatives au phylloxéra, présentées à l'Académie, par MM. Duclaux, Max. Cornu et L. Faucon . . . Paris, 1873.

13 p. 28 × 23<sup>cm</sup>.

Extrait du tome LXXVI des Comptes rendus . . . de l'Académie des sciences.

**Dumas, Jean Baptiste André.** . . . Communication relative à la destructicn du phylloxéra . . . [Paris, 1874]

3 p. 28 × 22<sup>cm</sup>.

Extrait des Comptes rendus . . . de l'Académie des sciences . . . (Séance du 12 octobre, 1874)

**Dumas, Jean Baptiste André.** Études sur le phylloxéra et sur les sulfocarbonates . . . [Paris, 1876]

[5]-112 p. illus., fold. pl. 22 $\frac{1}{2}$ cm. ([Annales de chimie et de physique . . . 5. sér. tome VII. 1. ptie])

**Duponchel, Adolphe.** Le phylloxéra; guérison probable de la vigne par un traitement préventif physiologique et naturel, par A. Duponchel . . . Montpellier, C. Coulet, 1873.

30 p. 22cm.

**Espinouse, A.** Du phylloxéra; son traitement dans le midi, par le docteur A. Espinouse . . . Bordeaux, Féret et fils, 1874.

31 p. 21 $\frac{1}{2}$ cm.

Lu en séance à l'Association française pour l'avancement des sciences.

**Espitalier, Silvain.** Encore un moyen de salut pour les vignes phylloxérées; ensablement avec addition d'engrais; instructions pratiques pour l'emploi de ce procédé, par Silvain Espitalier . . . Montpellier, C. Coulet; [etc., etc.] 1874.

30 p. 22 $\frac{1}{2}$ cm.

**Fabre, A.** Comment on peut guérir les vignes malades et préserver celles qui ne sont pas encore attaquées, par M. A. Fabre . . . Montpellier, C. Coulet, 1876.

84 p. 22cm.

Agr 4—3531

**Fatio, Victor.** État de la question phylloxérique en Europe en 1877; rapport sur le Congrès phylloxérique international réuni à Lausanne du 6 au 18 août 1877, par le Dr. Victor Fatio : . . . Genève, Impr. Ramboz et Schuchardt, 1878.

123 p. VII maps (4 double) 25 cm.

**Fatio, Victor.** Rapports sur le traitement des vignes de Pregny (république et canton de Genève) en vue de la destruction du phylloxéra, adressés à Monsieur le conseiller d'état, chargé du Département de l'intérieur du canton de Genève, par MM. V. Fatio et Demole-Ador . . . Genève, Impr. Ramboz et Schuchardt, 1875.

47, [1] p. col. pl., fold. plan. 23cm.

cover-title; Le phylloxéra dans le canton de Genève de mai à août 1875; rapports au Département de l'intérieur; observations faites à Pregny durant l'été 1875; traitement des vignes de Pregny en vue de la destruction du phylloxéra . . .

**Faucon, Louis.** . . . Note sur la possibilité d'appliquer la submersion de la vigne sur une vaste échelle pour combattre le phylloxéra. [Avignon, 1873]

7 p. 22cm.

Extrait du Messenger du midi du 31 janvier 1873.

**Faucon, Louis.** Notes sur la maladie des vignes dite du phylloxéra dans le territoire de la commune de Gravéson . . . Montpellier, 1871.

19 p. 23 $\frac{1}{2}$ cm.

Extrait du Messenger agricole.

**Faucon, Louis.** Notes sur la maladie des vignes dite du phylloxéra . . . Avignon, A. Chaillot, 1872.

105-144 p. 25cm.

**Faucon, Louis.** Le phylloxéra; submersion des vignes. [Montpellier, 1873]

6 p. 24cm.

"Extrait du Messenger agricole du 10 décembre 1873."

**Faucon, Louis.** . . . Le Phylloxera vastatrix; ce qu'il devient pendant l'hiver . . . Montpellier, 1873.

13 p. 24cm.

Extrait du Messenger agricole du midi.

**Faucon, Louis.** . . . Renseignements sur le phylloxéra. [Avignon, 1873]

3 p. 22cm.

Extrait du Bulletin de la Société d'agriculture & d'horticulture de Vaucluse, n° de février 1873.

**Faucon, Louis.** Submersion des vignes . . . [Montpellier, 1873]

8 p. 23 $\frac{1}{2}$ cm.

Extrait du Messenger agricole.



[**Faucon, Louis**] Submersion des vignes atteintes du phylloxéra. [Avignon, Imp. Chaillot, 1873]

8 p. 21 $\frac{1}{4}$ cm.

Caption title.

**Faucon, Louis.** Suite des Notes sur la nouvelle maladie de la vigne dans le territoire de la commune de Gravésou (Bouches-du-Rhône) . . . Avignon, 1870.

[69]-104 p. 25cm.

Extrait des journaux: Courrier du Gard, Messenger du midi, Journal d'agriculture pratique, L'Indicateur de Carpentras.

**Fischer, Ernst.** Das Naphtalin in der Heilkunde und in der Landwirtschaft. Mit besonderer Rücksicht auf seine Verwendung zur Vertilgung der Reblaus, von Dr. med. Ernst Fischer . . . Strassburg, K. J. Trübner, 1883.

98 p. 24 $\frac{1}{2}$ cm.

**France—Département de l'Hérault—Commission départementale pour l'étude de la maladie de la vigne.** . . . Expériences faites dans la vigne sud du mas de Las Sorres, en 1873 et en 1874. Tableau se rapportant au traitement de 25 ceps par essai. Montpellier et Cette, Typographie et lithographie Boehm & fils [1874?]

cover-title, [4] p. plan. 26 $\frac{1}{2}$  × 36cm.

**France—Département de l'Hérault—Commission départementale pour l'étude de la maladie de la vigne.** Phylloxéra. Commission départementale de l'Hérault pour l'étude de la maladie de la vigne. Expériences faites à Las Sorres, près Montpellier; résultats pratiques de l'application des divers procédés présentés aux concours des prix de 20,000 et de 300,000 francs proposés par le gouvernement pour la conservation des vignes phylloxérées et leur reconstitution. Montpellier, Typographie de P. Grollier, 1877.

xxiv p., 1 l., 443 p. incl. tables. col. pl., vii fold. plans. 17 $\frac{1}{2}$ cm.

**France—Département de l'Hérault—Commission départementale pour l'étude de la maladie de la vigne.** . . . Le phylloxéra; submersion des vignes; visite de la Commission départementale de l'Hérault au domaine de M. Faucon, à Gravésou . . . Paris, G. Masson [1874?]

50 p., 1 l. 28cm.

**France—Département de l'Hérault—Commission départementale pour l'étude de la maladie de la vigne.** . . . Rapport de la Commission départementale de l'Hérault, instituée pour étudier la nouvelle maladie de la vigne connu sous le nom de pourri des racines, par Edmond Duffour . . . Montpellier, Typographie de P. Grollier, 1869.

24 p. 23cm.

**France—Département de l'Hérault—Commission départementale pour l'étude de la maladie de la vigne.** . . . Rapport sur les procédés de guérison appliqués au mas de Las Sorres, près Montpellier. Montpellier, Typographie de P. Grollier, 1874.

18 p. 22 $\frac{1}{4}$ cm.

At head of title: Commission départementale de l'Hérault, instituée pour l'étude de la maladie de la vigne caractérisée par le phylloxéra.

**France—Département de l'Hérault—Commission départementale pour l'étude de la maladie de la vigne.** . . . Résultats des divers procédés de guérison proposés à la commission pour combattre la nouvelle maladie de la vigne, qui ont été appliqués dans le domaine de Las-Sorres, près Montpellier, du 6 juillet 1872 au 29 août 1873. Montpellier, Typographie de P. Grollier, 1873.

69 p. 22 $\frac{1}{2}$ cm.

At head of title: Commission départementale de l'Hérault de la maladie de la vigne caractérisée par le phylloxéra.

**France—Département de la Dordogne—Commission centrale du phylloxéra.** . . . Rapport présenté au Conseil général de la Dordogne par M. le Dr H. Jaubert, président de la commission. (Août 1878.) Périgueux, Impr. J. Bounet, 1878.

1 p. l., 18 p. 27 x 21½<sup>cm</sup>.

At head of title: Département de la Dordogne. Commission centrale du phylloxéra.

"Index bibliographique": p. 16-18.

**France—Département de la Gironde—Commission départementale pour l'étude du phylloxéra.** Enquête publiée par la Commission départementale de la Gironde instituée par M. le préfet le 10 août 1872 pour l'étude du phylloxéra. Bordeaux, Typographie L. Coderc, 1874.

24 p. 27 x 21½<sup>cm</sup>.

**France—Ministère de l'agriculture et du commerce—Commission supérieure du phylloxéra.** Le phylloxéra. [Clichy, Impr. P. Dupont, 1877?]

90 p. 24½<sup>cm</sup>.

Caption title.

**Franceschini, Felice.** Alcune osservazioni intorno agli studi sulla fillossera della vite . . . Firenze, 1893.

10 p. 22½<sup>cm</sup>.

Estratto dagli Atti della R. Accademia dei georgofili, anno 1893, vol. XVI, dispensa 1.

— — Firenze, 1893.

10 p. 23<sup>cm</sup>.

Estratto dal *Bullettino della Società entomologica italiana*, anno XXV, trimestre I, 1893.

**Franceschini, Felice.** Influenza del terreno e del clima sull' azione e diffusione della fillossera . . . Roma, 1895.

23 p. 23<sup>cm</sup>.

Estratto dagli *Annali di agricoltura*, n. 205.

**Franceschini, Felice.** Notizie sulla fillossera della vite (*Phylloxera vastatrix*) . . . Milano, 1879.

28 p. II pl. 24<sup>cm</sup>.

From *Atti della Società italiana di scienze naturali*, vol. XXII, 1879, p. 95-118.

**Franceschini, Felice.** . . . Studii sulla fillossera della vite; relazione a S. E. il ministro di agricoltura, industria e commercio . . . Roma, 1892.

14 p. front. 23½<sup>cm</sup>.

— — terza relazione. Roma, 1893.

23 p. 23½<sup>cm</sup>.

Estratto dagli *Annali di agricoltura*, n. 201.

**Frauenfeld, Georg, ritter von.** *Phylloxera vastatrix* . . . [Wien] 1872.

[567]-572 p. 22½<sup>cm</sup>.

From *Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien*, bd. XXII.

**Gastine, G.** Traitement des vignes phylloxérées; emploi du sulfure de carbone contre le phylloxéra, par G. Gastine & Georges Couanon. . . publié avec la collaboration de L. Gastine . . . Paris, G. Masson; [etc., etc.] 1884. Agr 3-186

276 p. illus., fold. tab. 22½<sup>cm</sup>.

**Geneva, Switzerland (canton)—Commissaire cantonal.** Le phylloxéra dans le canton de Genève en 1888; rapport du Commissaire cantonal et rapport des experts pour les indemnités aux propriétaires. Genève, Imprimerie suisse, 1889.

48 p. 2 fold. tab. 22½<sup>cm</sup>.

**Gennadius, P. G.** . . . Περὶ τῆς ἐν Γαλλίᾳ πορείας τῆς φυλλοξήρας κατὰ τὸ ληξάκη ἔτος καὶ περὶ τῶν αἰτιῶν τῆς ὑποτιμῆσεως τῶν οἴνων καὶ τῶν σταφίδων, ὑπὸ Π. Γενναδίου . . . Ἐν Αθήναις, ἐκ τοῦ τυπογραφείου τοῦ Γουργγείου τῶν ἐσωτερικῶν, 1884.

22 p. 22½<sup>cm</sup>.

On the progress in France of the phylloxera in the last year and on the causes of the depreciation of the wines and raisins, by P. Gennadius . . .

At head of title: Πρὸς τὸ Υπουργεῖον τῶν ἐσωτερικῶν.

**Gennadius, P. G.** *Φυλλόξηρα ἢ φθοροποιός, ὑπὸ Π. Γενναδίου* [Phylloxera vastatrix] . . . *Ἀθήνησι, Τύποις ἐλληνικῆς ἀνεξαρτησίας*, 1879.

77, [1] p., 1 l. illus. 17½<sup>cm</sup>.

**Girard, Maurice.** *Indications générales sur les vignobles des Charentes*, par M. Maurice Girard . . . Paris, Imprimerie nationale, 1876.

cover-title, 88 p. 3 double maps. 28 x 22½<sup>cm</sup>.

Extrait des Mémoires présentés par divers savants à l'Académie des sciences [de l'Institut national de France. Tome xxv, no. 4]

Caption title: . . . Études sur la maladie de la vigne dans les Charentes . . .

**Graells y de la Agüera, Mariano de la Paz.** *Prontuario filoxérico, dedicado á los viticultores españoles y delegados oficiales . . . escrita conforme lo acordado y bajo los principios aceptados en los congresos internacional de Lausana y el español de Madrid, por el Ilmo. Sr. D. Mariano de la Paz Graells . . . Madrid, Establecimiento tipográfico de Segundo Martinez*, 1879.

Agr 4—3541

61, [2] p. ii col. pl. 22<sup>cm</sup>.

**Guercio, Giacomo del.** . . . *Osservazioni sulla infezione fillosserica dell' isola d' Elba nell' estate del 1891. Memoria letta alla R. Accademia del georgofili nell' adunanza del di 7 febbraio 1892 . . . Firenze*, 1892.

15 p. 23<sup>cm</sup>.

Estratto dagli Atti della R. Accademia dei georgofili, anno 1892, vol. xv, dispensa 2.

**Gueyraud, F.** . . . *Résultats obtenus dans le traitement des vignes phylloxérées par les sulfocarbonates alcalins, appliqués au moyen du pal distributeur . . . [Paris, 1877]*

697-700 p. illus. 18 x 23<sup>cm</sup>.

From Comptes rendus . . . de l'Académie des sciences . . . tome LXXXIV, no. 15.

**Haller G.** . . . *Bericht über die von Herrn Dr. Blankenhorn in Karlsruhe veranstaltete sammlung aller an der rebe lebenden mikroskopischen tiere. Von Dr. G. Haller . . . Heidelberg, C. Winters' universitätsbuchhandlung* [1880]

10 p. 23<sup>cm</sup>. (Mitteilungen des Önologischen instituts Karlsruhe—Blankenhornsberg, XLVII)

Separat-abdruck aus den Annalen der önologie, VIII. bd., 4. hft.

**Haller, Gottfried.** *Die kleinen feinde der Phylloxera. Studie zu ehren des Congresses deutscher oenologen in Freiburg i / Br. . . . Heidelberg*, 1878.

4 p. 1., 16, [1] p. fold. pl. 24<sup>cm</sup>.

"Aus den Annalen der oenologie, bd. VII, hft. 3, besonders abgedruckt."

**Hamm, Wilhelm, ritter von.** *Die wurzellaus der rebe, Phylloxera vastatrix, ihr auftreten in Frankreich und Oesterreich. Beschrieben von Dr. Wilhelm ritter von Hamm . . . Wien, Faesy & Frick*, 1875.

Agr 4—3548

32 p. 23½<sup>cm</sup>.

**Hilgard, Eugene Woldemar.** . . . *Lecture on the phylloxera or grape vine louse, delivered before the State vinicultural association, at San Francisco, November 23d, 1875. By Eugene W. Hilgard . . . [Sacramento, 1876]*

24 p. 22½<sup>cm</sup>. (Bulletin of the University of California, no. 23)

Caption title.

**Hilgard, Eugene Woldemar.** *The phylloxera in California. By E. W. Hilgard. (U. S. Agriculture, Dept. of. Report on the climatic and agricultural features . . . of the arid regions of the Pacific slope . . . made . . . by E. W. Hilgard, T. C. Jones, and R. W. Furnas. [Report no. 20] Washington, 1882. p. 155-171. 23<sup>cm</sup>.)*

**Hilgard, Eugene Woldemar.** *The phylloxera or grapevine louse, and the remedies for its ravages. By Eugene W. Hilgard . . . [Sacramento, 1880]*

25 p. illus. 22½<sup>cm</sup>. (*Half-title:* University of California, College of agriculture. Supplement, no. 1, to the Report of the Board of regents)

Caption title.

"Revision of 'A lecture on the phylloxera or grapevine louse, delivered before the State vinicultural association, at San Francisco, November twenty-third, eighteen hundred and seventy-five.'"

**Huit jours à Turin; de congressu phylloxerico et quibusdam aliis . . .** [Montpellier] 1884.

20 p. 19½<sup>cm</sup>.

"Extrait du Journal de la viticulture latine."

**Hungary**—*K. Ungarische ministerium für ackerbau, industrie und handel. . . .* Deutscher text des ungarischen gesetzartikels xv ex 1882, betreffend die inartikulierung der in betreff der gegen die phylloxera zu engreifenden massregeln in Bern am 3. november 1881. zu stande gekommenen internationalen phylloxera-convention; der betreffs der durchführung dieses gesetzes von dem K. Ung. Ministerium für ackerbau, industrie und handel, sowie vom K. Ung. Finanzministerium am 12. juli 1882 sub z. 8461 gemeinsam erlassenen verordnung; und des gesetzartikels xvii ex 1883, über die gegen die ausbreitung der Phylloxera vastatrix vorzunehmenden schutzmassregeln. (Hrsg. vom K. Ung. Ministerium für ackerbau, industrie und handel) Budapest, Pesti könyvnyomda-részvénytársaság, 1883.

24 p. 22½<sup>cm</sup>.

Added title in Hungarian; text in German.

**Hungary**—*Magyar kir. állami rovtartani állomás.* Utmutatás a filloxerás szőlőknek szénkénnel való gyéritő kezelésére . . . Budapest, 1890.

12 p. illus. 23<sup>cm</sup>. (A M. K. állami rovtartani állomás közleményei. I. kötet, 3. füzet)

**Hungary**—*Magyar kir. állami rovtartani állomás.* Vezérfonal a filloxerás szőlőknek szénkénnel való gyéritő kezelésére . . . Budapest, 1891.

31, [1] p., 1 l. illus. 23<sup>cm</sup>. (A M. K. állami rovtartani állomás közleményei. I. kötet, 6 füzet)

**Hungary**.—*Station phylloxérique hongroise.* Rapport annuel de la Station phylloxérique hongroise. Par le Dr. G. de Horváth . . . 1. année, 1881 . . . Budapest, Société d'imprimerie par actions de Pest, 1882.

27 p. 28½ x 22<sup>cm</sup>.

Extrait du Rapport hongrois adressé à M. le ministre de l'agriculture, de l'industrie et du commerce de Hongrie.

**Italy**—*Ministero di agricoltura, industria e commercio—Direzione generale dell' agricoltura. . . .* Relazione sui provvedimenti contro la fillossera adottati in Italia ed all' estero presentata alla Camera dei deputati dal ministro di agricoltura, industria e commercio (Berti) nella tornata del 29 febbraio 1884. Roma, Tipografia della Camera dei deputati, 1884.

1 p. l., 531 p. incl. tables (partly fold.) 29<sup>cm</sup>.

"Elenco delle pubblicazioni sulla fillossera fatte dal ministero di agricoltura (Direzione generale dell' agricoltura)," p. 529-530.

— — nella seduta del 30 maggio 1885. Roma, Tipografia della Camera dei deputati, 1885.

85 p. incl. tables (partly fold.) 29<sup>cm</sup>.

**Jaubert, J. B.** Sur le mode d'emploi des sulfocarbonates . . . [Paris, 1876]

[11]-13 p. 28 x 22½<sup>cm</sup>.

"Extrait des Comptes rendus . . . de l'Académie des sciences . . . (Séances des 2 novembre 1875 et 3 juillet 1876)"

**Jaussan, Louis.** De l'emploi rationnel du sulfure de carbone dans le traitement des vignes phylloxérées . . . Montpellier, 1879.

19 p. 23½<sup>cm</sup>.

"Extrait du Messager agricole du midi, 10 janvier 1879."

**Johnston, W. E.** The phylloxera and condition of the vineyards in France. Report of the proceedings of the International phylloxera congress, held at Bordeaux from October 10 to 15, 1881, by Dr. Johnston, Consul Roosevelt . . . and consular agent Smith . . . Washington, 1882.

628-640 p. 23<sup>cm</sup>,

From the U. S. consular reports, vol. iv, no. 14, December, 1881.

**Joly, Charles.** Congrès international phylloxérique de la Gironde. [Orléans, Imp. G. Jacob, 1881?]

[2] p. 27½<sup>cm</sup>.

Caption title.

**Juge, Charles.** Notice sur l'emploi des terres de la Solfatarre de Pozzuoli comme engrais & insecticide . . . Paris, Au siège de la Société des terres de la Solfatarre de Pozzuoli, 1874.

14 p. 21 $\frac{1}{2}$ cm.

**Karel, John.** American vines in Russia. [St. Petersburg, 1895]

21. 23cm.

**Kessler, Hermann Friedrich.** Die ausbreitung der reblauskrankheit in Deutschland und deren bekämpfung unter benutzung von amtlichen schriftstücken beleuchtet, von professor Dr. H. F. Kessler . . . Berlin, R. Friedländer & sohn, 1892.

Agr 4—3552

2 p. l., 50 p. 23 $\frac{1}{2}$ cm.

**Kessler, Hermann Friedrich.** Erörterungen über die reblaus, Phylloxera vastatrix Planchon, von professor Dr. H. F. Kessler . . . Cassel, F. Kessler, 1889.

Agr 4—3558

28 p. 22 $\frac{1}{2}$ cm.

**Kessler, Hermann Friedrich.** Richtigstellungen und entgegnungen, betreffend beobachtungen und untersuchungen über die reblaus, Phylloxera vastatrix Planchon und die blutlaus, Schizoneura lanigera Hausmann. Von professor Dr. H. F. Kessler. Cassel, F. Kessler, 1890.

Agr 4—3554

37 [1] p. 22cm.

**Kessler, Hermann Friedrich.** . . . Ueber die verwandlung der ungeflügelten rebläuse in geflügelte . . . Jena, 1889.

[301]—313 p. 24 $\frac{1}{2}$ cm.

From Centralblatt für bakteriologie und parasitenkunde. v. bd., no. 9.

**Kessler, Hermann Friedrich.** Weitere beobachtungen und untersuchungen über die reblaus, Phylloxera vastatrix Planchon von Dr. H. F. Kessler . . . Cassel, F. Kessler, 1888.

58 p. 22 $\frac{1}{2}$ cm.

**Korf, baron.** Отчетъ генераль-адютанта барона Корфа о дѣятельности по уничтоженію филоксеры въ Крыму со времени ея открытія въ октябрѣ 1880 года по 1 сентября 1881 года. Съ приложеніями и тремя картами филоксерныхъ зараженій во Франціи, Швейцаріи и въ Крыму. С.-Петербургъ, 1882.

2 p. l., 158 p., 1 l. 3 fold. maps. 26cm.

Report on the destruction of phylloxera in the Crimea.

**Lafitte, Prosper de.** Discours sur le phylloxéra, par M. Prosper de Lafitte. Agen, Impr. V. Lenthéric, 1878.

Agr 4—3561

119, [1] p. 22cm.

**Lafitte, Prosper de.** Essai sur la destruction de l'œuf d'hiver du phylloxéra de la vigne, par M. Prosper de Lafitte . . . Agen, Impr. V. Lenthéric, 1879. Agr 4—3562

68 p. 22cm.

**Lafitte, Prosper de.** Quatre ans de luttes pour nos vignes et nos vins de France; mémoires, opuscules et articles, par Prosper de Lafitte . . . Paris, G. Masson; [etc., etc.] 1883.

2 p. l., xiii p., 1 l., 596 p. front. (port.) 25 $\frac{1}{2}$ cm.

**Laliman, E.** À messieurs les viticulteurs, messieurs les membres de la classe 75 à l'Exposition universelle. [Bordeaux, V° Cadoret, impr., 1878]

8 p. 24cm.

**Laliman, Léopold.** Étude sur les divers phylloxéra et leurs médications; coup d'œil sur certaines vignes exotiques indemnes aux piqûres du phylloxéra. La coulure sur certains cépages. Situation économique de la viticulture . . . [Paris, 1871]

151—228 p. pl. 22cm.

From Annales de la Société d'agriculture du département de la Gironde. xxvi. année.

**Laliman, Léopold.** Études sur les divers travaux phylloxériques et les vignes américaines, notamment sur les études faites en Espagne par Don Miret y Tarral . . . par L. Laliman L. . . Paris, Librairie agricole; [etc., etc.] 1879-80.

197 p. 25<sup>cm</sup>.

**La Loyère, vicomte de.** Du phylloxéra en 1880; méthode rationnelle de préservation de la vigne par la culture intensive et l'insecticide persistant . . . [Paris] 1880.

24 p. 23<sup>cm</sup>.

Extrait du Journal d'agriculture pratique.

**La Vergne, Louis Gabriel Léonce Guilhaud, comte de.** Instruction pratique pour la préservation des vignes contre le phylloxéra . . . Bordeaux, 1874.

23 p. 21<sup>cm</sup>.

Extrait du Journal d'agriculture et d'horticulture de la Gironde des 10 décembre et 10 janvier derniers.

**La Vergne, Louis Gabriel Léonce Guilhaud, comte de.** Maladie nouvelle de la vigne; rapport fait à la Société d'agriculture de la Gironde au nom de la Commission permanente des vignes . . . Bordeaux, 1869.

16 p. 21<sup>cm</sup>.

"Extrait des Annales de la Société d'agriculture de la Gironde."

**Le Hardy de Beaulieu, Camille.** Le phylloxéra et les vignes américaines . . . Montpellier, 1874.

19 p. 22<sup>cm</sup>.

"Extrait du Bulletin de la Société centrale d'agriculture de l'Hérault."

**Lesparre, duc de.** Phylloxera et plants américains; conférence sur les plants américains et sur la création d'une pépinière faite à La Gidonnière, commune de L'Homme (déc. 1892) par le duc de Lesparre. Le Mans, Typographie E. Monnoyer, 1893.

Agr 4—1893

2 p. 1., 158 p., 1 l. illus. 18½<sup>cm</sup>.

Slip pasted over imprint reads: Paris, Librairie agricole de la maison rustique.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Les cépages américains classés et annotés d'après les auteurs des États-Unis, offert à ses collègues des diverses sociétés dont il fait partie . . . Montpellier, 1874.

7 p. 24<sup>cm</sup>.

"Extrait du Messenger agricole du 10 juillet 1874."

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Histoire du phylloxéra, précédée de considérations générales sur les pucerons et suivie de la liste des personnes qui se sont occupées de la question phylloxéra, par J. Lichtenstein . . . Montpellier, C. Coulet; [etc., etc.] 1878.

Agr 4—3566

x, [11]-39 p. v pl. (3 col.) 25<sup>cm</sup>.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** Notes pour servir à l'histoire des insectes du genre phylloxéra . . . Paris, 1876-77.

2 pts. 24<sup>cm</sup>.

Extrait des Annales agronomiques.—tome II, n° 1; tome III, n° 1.

**Lichtenstein, Jules i. e. Wilhelm Auguste Jules.** . . . Le phylloxéra. Comment un roman peut devenir de l'histoire . . . [Béziers, 1880]

5 p. 24½<sup>cm</sup>.

From Bulletin de la Société d'étude des sciences naturelles de Béziers. Année 1879.

**L'Isle, Thiollière de.** Traitement de vignes phylloxérées au Coteau de l'Ermitage, Drôme. Lyon, Impr. Pitrat aîné, 1879.

25 p. 25<sup>cm</sup>.

**Loubet, L.** . . . Lettre . . . à M. le marquis de l'Espine . . . sur la maladie de la vigne. [Avignon, Impr. d'A. Chaillot, 1815]

[81]-96 p. 22<sup>cm</sup>.

Extrait du Bulletin de la Société d'agriculture et d'horticulture de Vaucluse. (N° de mars 1872)

**Mandon, J. A.** Traitement anti-phylloxérique par l'absorption de l'eau phénolée, système déposé et breveté s. g. d. g. Mémoire présenté à l'Institut, par le Dr. J.-A. Mandon . . . Limoges, E. Charles, 1883.

15, [1] p. 26 x 21½<sup>cm</sup>.

**Marès, Henri Pierre Louis.** Phylloxéra. Des moyens pratiques de combattre la maladie de la vigne. Progrès de la maladie de la vigne pendant l'hiver; par M. Henri Marès . . . Montpellier, C. Coulet; [etc., etc.] 1874.  
11 p. 21 $\frac{1}{4}$ cm.

**Marion, Antoine Fortuné.** . . . Application du sulfure de carbone au traitement des vignes phylloxérées. [2.-]4. année. Rapport sur les travaux de l'année [1877-] 1879 et sur les résultats obtenus, par M. A.-F. Marion . . . Paris, Société d'imprimerie et librairie administratives et des chemins de fer, P. Dupont, 1878-80. 3 nos. illus., col. pl., plans, tables, 2 fold. diagr. 27cm.

At head of title: Compagnie des chemins de fer de Paris à Lyon et à la Méditerranée. 1877, title reads: . . . Traitement des vignes phylloxérées par le sulfure de carbone. Rapport sur les expériences et sur les applications en grande culture effectuées en 1877.

1878, title reads: . . . Application du sulfure de carbone au traitement des vignes phylloxérées, Campagne de 1878. Rapport sur les expériences et les applications réalisées et sur les résultats obtenus, par M. A.-F. Marion . . .

**Marion, Antoine Fortuné.** Expériences relatives à la destruction du phylloxéra . . . [Paris, 1876]

[25]-27 p. 28 x 22 $\frac{1}{4}$ cm.

"Extrait des Comptes rendus . . . de l'Académie des sciences . . . (Séances des 2 novembre 1875 et 3 juillet 1876)"

**Mazaroz, J. P.** Conclusion générale sur la destruction du phylloxéra de la vigne; procédé J.-P. Mazaroz . . . Nouvelles lettres. 2. éd. (rev. et cor.) Paris, Imprimerie centrale des chemins de fer, A. Chaix et c<sup>ie</sup>, 1879.  
cover-title, [101]-162 p. 20 $\frac{1}{4}$ cm.

**Mazaroz, J. P.** Destruction du phylloxéra de la vigne par l'hygiène naturelle ainsi que par la culture de la vigne basée sur les engrais insecticides et reconstitutifs; mémoire adressé conformément à la loi des 22-26 juillet 1874 à M. le ministre de l'agriculture et du commerce; à MM. les sénateurs et députés membres des commissions parlementaires du phylloxéra, ainsi qu'à MM. les membres des conseils municipaux des communes et cantons vignobles de France, des cercles d'agriculture et des chambres de commerce, par J.-P. Mazaroz. 2. éd. rev., cor. et augm. Paris, G. Baillière et c<sup>ie</sup>, 1879.  
104 p., 1 l. 21 $\frac{1}{4}$ cm.

**Mazaroz, J. P.** Mémoire sur la destruction du phylloxéra de la vigne par l'hygiène naturelle ainsi que par la culture de la vigne, basée sur les engrais insecticides et reconstitutifs, adressé conformément à la loi des 22-26 juillet 1874 à M. le ministre de l'agriculture et du commerce; à MM. les sénateurs et députés membres des commissions parlementaires du phylloxéra, ainsi qu'à MM. les membres des conseils municipaux des communes et cantons vignobles de France, des cercles d'agriculture et des chambres de commerce. Paris, G. Baillière et c<sup>ie</sup>, 1879.  
36 p. 31cm.

**Mazaroz, J. P.** Le plus grand péril public du moment est représenté par le phylloxéra et ses causes; danger du sulfure de carbone; efficacité des engrais minéraux mélangés; moyens précis de leur emploi, par J.-P. Mazaroz. Paris, Auteur, 1879.  
62 p., 1 l. 21 $\frac{1}{4}$ cm.

**Millardet, Alexis i. e., Pierre Marie Alexis.** Étude des altérations produites par le phylloxéra sur les racines de vigne, par A. Millardet . . . Bordeaux, Feret; [etc., etc.] 1898.  
29 p. v pl. 25cm.

Extrait des Actes de la Société linnéenne de Bordeaux (tome LIII, 1898)

**Millardet, Alexis i. e., Pierre Marie Alexis.** Études sur les vignes d'origine américaine qui résistent aux phylloxéra, par M. A. Millardet . . . Paris, Imprimerie nationale, 1876.  
cover-title, 48 p. illus. 27 $\frac{1}{2}$  x 22 $\frac{1}{4}$ cm.

Extrait des Mémoires présentés par divers savants à l'Académie des sciences [de l'Institut national de France. Tome XXII. N° 16]

**Monestier, Charles.** Procédé Ch. Monestier. Expériences faites par MM. Lautaud, d'Ortoman, Monestier. Destruction du phylloxéra par les gaz, par M. Ch. Monestier. Montpellier, C. Coulet, 1873.

45 p. 15<sup>cm</sup>.

**Monnier, Denis.** Le phylloxéra dans le canton de Genève d'août 1877 à février 1878; rapports au Département de l'intérieur, par MM. D. Monnier et E. Covelle. Genève [etc.] H. Georg, 1878.

36 p. front, (fold. plan) 21<sup>4</sup><sup>cm</sup>.

**Monnier, Denis.** . . . Rapport sur le traitement des vignes phylloxérées en Suisse par les procédés de M. Denis Monnier. [Paris, 1878]

8 p. 27<sup>cm</sup>.

Extrait du Journal d'agriculture pratique.

**Montpellier, École nationale d'agriculture de.** . . . Exposé sommaire des travaux sur la question du phylloxéra et des vignes américaines, exécutés à l'école en 1880. Montpellier, 1881.

20 p. 23<sup>4</sup><sup>cm</sup>.

"Extrait du Messenger agricole."

**Morgan, Albert Charles Frederick.** The winged-phylloxera in Portugal . . . [n. p., 1886]

83-86 p. 27 x 21<sup>4</sup><sup>cm</sup>.

From Ridley & co.'s monthly wine & spirit trade circular, Feb. 12, 1886.

**Mouillefert, Pierre.** État actuel des vignes soumises au traitement du sulfocarbonate de potassium depuis l'année dernière . . . [Paris, 1876]

[14]-18 p. 28 x 22<sup>4</sup><sup>cm</sup>.

"Extrait des Comptes rendus de l'Académie des sciences . . . (Séances des 2 novembre 1875 et 3 juillet 1876)"

**Mouillefert, Pierre.** Nouvelles expériences effectuées avec les sulfocarbonates alcalins pour la destruction du phylloxéra; manière de les employer . . . [Paris, 1874]

4-7 p. 28 x 22<sup>4</sup><sup>cm</sup>.

"Extrait des Comptes rendus de l'Académie des sciences . . . (Séance du 12 octobre)"

**Mouillefert, Pierre.** Le phylloxéra; moyens proposés pour le combattre; état actuel de la question, par P. Mouillefert . . . Paris, G. Masson, 1876. Agr 4-3574  
139 p., 1 l. illus., col. pl., fold. map. 22<sup>4</sup><sup>cm</sup>.

**Mouillefert, Pierre.** . . . Reconstitution du vignoble français par le sulfocarbonate de potassium . . . [Paris, 1877]

694-697 p. 28 x 23<sup>cm</sup>.

From Comptes rendus . . . de l'Académie des sciences . . . tome LXXXIV. No. 15.

**Mouillefert, Pierre.** Résultats obtenus à Cognac avec les sulfocarbonates de sodium et de baryum appliqués aux vignes phylloxérées . . . [Paris, 1876]

[19]-24 p. 28 x 22<sup>4</sup><sup>cm</sup>.

"Extrait des Comptes rendus . . . de l'Académie des sciences . . . (Séances des novembre 1875 et 3 juillet 1876)"

**Mouillefert, Pierre.** Traitement des vignes phylloxérées par le sulfocarbonate de potassium; rapport sur les applications en grande culture effectuées en 1878 avec les procédés mécaniques de MM. P. Mouillefert et Félix Hembert, par P. Mouillefert . . . Paris, Librairie agricole, 1878.

32 p. 21<sup>4</sup><sup>cm</sup>.

**Nessler, Julius.** Die rebwurzellaus, ihr vorkommen bei Genf und in Südfrankreich, ihr etwaiges auftreten auch in Deutschland und die mittel sie zu bekämpfen. Bericht an Grossherzogl. bad. handels-ministerium, erstattet von Prof. Dr. J. Nessler . . . Stuttgart, E. Ulmer, 1875.

28 p. 22<sup>cm</sup>.

**New South Wales—Legislative council—Select committee on the vine diseases bill.** . . . Report from the Select committee on the vine diseases bill; together with the



proceedings of the committee, minutes of evidence, and appendix . . . Sydney, T. Richards, government printer, 1886.

37 p. 32 $\frac{1}{2}$ cm.

**New Zealand**—*Dept. of agriculture*. Phylloxera and other diseases of the grapevine. Correspondence and extracts reprinted for public information. Comp. in the Department of agriculture. Wellington, G. Didsbury, government printer, 1891. 3 p. l., 130 p. 21cm.

**Nicoleano, G. N.** . . . La lutte contre le phylloxéra en Roumanie; compte rendu des travaux depuis le commencement jusqu' en 1898, par G. N. Nicoleano . . . Bucarest, Imprimerie "Dreptatea," 1900.

1 p. l., ii, 169, [2] p., 1 l. illus. (incl. diags.) fold. map. 25 $\frac{1}{2}$ cm.

At head of title: Royaume de Roumanie. Exposition universelle 1900. Paris. Ministère de l'agriculture, du commerce, de l'industrie et des domaines. Service viticole.

**Pagès, Basile.** La vigne française à racines volantes malgré le phylloxéra. Exposé fait à la séance de la Société centrale d'agriculture de l'Hérault le 5 janvier 1880, suivi d'autres considérations sur l'insecte dévastateur et de la culture du Jacques en provins circulaires à demeure autour de la souche mère, par Basile Pagès . . . 4. éd. Béziers, Imprimerie générale, Granié et Malinas, 1884. Agr 4—3580

44 p. 4 pl. 21cm.

**Paris, Académie des sciences.** . . . Observations sur le phylloxéra et sur les parasites de la vigne, etc. . . . Paris, 1881.

2 p. l., [183]—184, 100 p. 28 $\frac{1}{2}$  x 23cm.

Extraits des Comptes rendus . . . de l'Académie des sciences, t. xci et xciii, 1880 et 1881.

**Paris, Académie des sciences**—*Commission du phylloxéra.* . . . Avis sur les mesures à prendre pour s'opposer à l'extension des ravages du phylloxéra. Paris, Gauthier-Villars, 1877.

11 p. 28 $\frac{1}{2}$  x 23cm.

At head of title: Institut de France. Académie des sciences. Commission du phylloxéra.

**Paris, Académie des sciences**—*Commission du phylloxéra.* . . . Commission du phylloxéra, Séance du 3 décembre 1874 . . . Paris, Gauthier-Villars, 1875.

cover-title, 50 p., 1 l. 28 $\frac{1}{2}$  x 22 $\frac{1}{2}$ cm.

At head of title: Institut de France. Académie des sciences.

CONTENTS.—Exposé de la situation de la question à l'ordre du jour, par M. le président.—Observations sur la reproduction du phylloxéra de la vigne, par M. Balbiani.—Résumé des observations faites par M. M. Cornu.—Analyse chimique des diverses parties de la vigne saine et de la vigne phylloxérée, par M. Boutin aîné.—Note sur les vignes américaines qui résistent au phylloxéra, par M. Millardet.—Note sur les vins faits avec des cépages américains, par M. Pasteur.—Observations de M. Maurice Girard.—Note sur le traitement des vignes phylloxérées par le goudron de houille, par M. Alph. Rommier.—Résumé des expériences faites à la station viticole de Cognac dans le but de combattre le phylloxéra, par M. Mouillefert.—Application des sulfocarbonates alcalins à la guérison de la vigne; par M. Mouillefert.—Note sur les sulfocarbonates, par M. Dumas.

**Paris, Académie des sciences**—*Commission du phylloxéra.* . . . Instruction pratique sur les moyens à employer pour combattre le phylloxéra, et spécialement pendant l'hiver. Paris, Gauthier-Villars, 1876.

cover-title, 8 p. 28 x 22cm.

At head of title: Institut de France. Académie des sciences. Commission du phylloxéra. Séance du 17 janvier 1876 . . .

**Paris, Académie des sciences**—*Commission du phylloxéra.* Rapport adressé à M. le ministre de l'agriculture et du commerce, par la commission instituée pour l'étude de la nouvelle maladie de la vigne. [Paris, Imprimerie nationale, 1871]

10 p. illus. 26cm.

Caption title.

**Paris, Académie des sciences**—*Commission du phylloxéra.* Rapport sur les mesures administratives à prendre pour préserver les territoires menacés par le phylloxéra . . . Paris, 1874.

8 p. 27 $\frac{1}{2}$  x 22 $\frac{1}{2}$ cm.

Extrait du tome LXXVIII des Comptes rendus . . . de l'Académie des sciences.

**Paris, Académie des sciences.**—*Commission du phylloxéra—Comité de Cognac.*  
 . . . Commission du phylloxéra . . . Comité de Cognac. Station viticole. Paris,  
 Impr. de Gauthier-Villars, 1875.

1 p. l., 16 p. 28 x 23<sup>cm</sup>.

At head of title: Institut de France. Académie des sciences.

**Peixotto, Benjamin Franklin.** Ravages of the phylloxera in France. Report  
 by Consul Peixotto . . . on the ravages of the phylloxera in France, and on the  
 several methods for its destruction. [Washington, 1882]

11-16 p. 23<sup>cm</sup>.

From the U. S. consular reports, vol VIII, no. 25, November, 1882.

**Pérez, Jean . . .** Instruction élémentaire sur le phylloxéra, par. M. Pérez . . .  
 Bordeaux, Féret et fils, 1874.

20 p. 21½<sup>cm</sup>.

At head of title: Association française pour l'avancement des sciences. Groupe régional girondin.

**Perroncito, Edoardo.** Studi preliminari per combattere la fillossera ed altri  
 insetti nocivi; esperienze fatte coll' acido fenico, col timolo, colla creolina, col sol-  
 furo di carbonio, col solfo-carbonato e xantogenato di potassa. Nota 1. Torino, 1893.

27 p. 24<sup>cm</sup>.

"Estratto dagli Annali della R. Accademia d'agric. di Torino, vol. xxxvi. Adunanza del 28 maggio  
 1893."

**Petit, Louis.** Le phylloxéra; régénération de la vigne à l'aide d'un coaltar spécial,  
 par M. Louis Petit. . . . Nîmes, L. Bedot, 1874. Agr 4-3583

69 p. fold. pl. 18½<sup>cm</sup>.

Le **phylloxéra** dans le canton de Neuchâtel, de juillet 1877 à mai 1878. Rapports  
 et documents officiels divers. . . . Neuchâtel, 1878.

118 p. vi col. pl. (incl. v fold. plans) 24<sup>cm</sup>.

**Pierre, Édouard.** L'oxyde de fer et le phylloxéra. Paris, Société anonyme  
 d'imprimerie et librairie administratives et des chemins de fer, 1880.

10 p., 1 l. 27 x 21<sup>cm</sup>.

**Planchon, Jules Émile.** Conseils sur le traitement des vignes atteintes du phyl-  
 loxéra, par MM. J.-É. Planchon et J. Lichtenstein . . . [Montpellier, 1871]

15 p. 22½<sup>cm</sup>.

Article extrait du *Messenger du midi*, N° du 30 juillet 1871.

"Note additionnelle (écrite en décembre 1871)": p. 14-15.

**Planchon, Jules Émile.** La défense contre le phylloxéra. Origine de cet  
 insecte; son extension en Europe; moyens d'en prévenir, d'en combattre on d'en  
 atténuer les ravages . . . [Paris, 1875]

74-97 p. 24½<sup>cm</sup>.

From *Annales agronomiques*, v. 1.

**Planchon, Jules Émile.** Des modes d'invasion des vignobles par le phylloxéra,  
 par J.-É. Planchon et J. Lichtenstein . . . Montpellier, 1869.

8 p. 24½<sup>cm</sup>.

Extrait du *Messenger du midi* (25 août 1869) et du *Messenger agricole du midi* (5 septembre 1869)

**Planchon, Jules Émile.** Essais préliminaires sur la destruction du phyl-  
 loxéra . . . [Montpellier, 1870?]

16 p. 18<sup>cm</sup>.

Extrait du *Vigneron du midi*.

**Planchon, Jules Émile.** Maladie de la vigne; conseils pratiques contre le phyl-  
 loxéra, par MM. J.-É. Planchon et J. Lichtenstein . . . Montpellier, 1870.

12 p. 24½<sup>cm</sup>.

Extrait du *Messenger agricole* (5 juillet 1870)

**Planchon, Jules Émile.** Maladie de la vigne; le phylloxéra; instructions prati-  
 ques adressées aux viticulteurs sur la manière d'observer la maladie du phylloxéra  
 et le phylloxéra lui-même, par J.-É. Planchon et J. Lichtenstein . . . Montpellier,  
 Typographie de P. Grolier, 1870.

18 p. illus. 21<sup>cm</sup>.

Publié par la Commission des vignes de l'Hérault, sur les fonds de la souscription publique contre  
 le phylloxéra.

**Planchon, Jules Émile.** Les mœurs du phylloxéra de la vigne, résumé biologique . . . Montpellier, 1877.

8 p. col. pl. 25<sup>cm</sup>.

Extrait des Expériences faites à Las Sorres . . . —Résultats pratiques, etc. . . Ouvrage pub. par la Commission départementale de l'Hérault pour l'étude de la maladie de la vigne.

**Planchon, Jules Émile.** Nouvelles observations sur le puceron de la vigne (*Phylloxera vastatrix* <nuper *Rhizaphis*, Planch.) . . . Montpellier, 1868.

12 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

"Extrait des Comptes rendus de l'Acad. des scien., séance du 14 septembre 1868."

**Planchon, Jules Émile.** Le phylloxéra (de 1854 à 1873) résumé pratique et scientifique, par J.-É. Planchon et J. Lichtenstein . . . Montpellier, C. Coulet, 1873.

iv, [5]-40 p. col. pl. 24<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Planchon, Jules Émile.** Le phylloxéra de la vigne en Angleterre et en Irlande, par J.-É. Planchon et J. Lichtenstein . . . Montpellier, 1871.

7 p. 23<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

Extrait du *Messenger agricole du midi* (10 juillet 1871).

**Planchon, Jules Émile.** Le phylloxéra en Europe et en Amérique, par J.-É. Planchon . . . Paris, Impr. de J. Claye, 1874.

Agr 4—3586

56 p. 25<sup>cm</sup>.

Extrait de la *Revue des deux mondes*, livraisons des 1. et 15. février 1874.

**Planchon, Jules Émile.** Le phylloxéra et les vignes américaines . . . [Montpellier, Impr. de P. Grollier, 1874?]

24 p. 22<sup>cm</sup>.

Caption title.

CONTENTS.—I. Rapport à M. le ministre de l'agriculture sur une mission aux États-Unis.—II. Rapport lu le 25 novembre 1873 devant la Société centrale d'agriculture de l'Hérault, au nom d'une commission spéciale.

**Planchon, Jules Émile.** Le phylloxéra et son action sur les divers cépages d'après M. C.-V. Riley, par J.-É. Planchon et J. Lichtenstein. [Montpellier, 1871]

4 p. 23<sup>cm</sup>.

"Extrait du *Messenger agricole du midi*, n° du 10 décembre 1871."

**Planchon, Jules Émile.** Premières expériences sur la destruction du puceron de la vigne: note lue devant la Société d'agriculture de l'Hérault, au nom d'une commission spéciale, dans la séance du 24 août 1868, par MM. Planchon et Saintpierre. Montpellier, Typographie de P. Grollier, 1868.

31 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Planchon, Jules Émile.** La question phylloxérique en 1876 . . . Paris, 1877.

39 p. 24<sup>cm</sup>.

Extrait de la *Revue des deux mondes*, livraison du 15 janvier 1877.

**Planchon, Jules Émile.** Rapport adressé à M. le ministre de l'agriculture et du commerce, au sujet du Congrès phylloxérique international de Lausanne, par J.-E. Planchon . . . [Montpellier, Typ. Grollier, 1877]

7 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

**Planchon, Jules Émile.** Rapport sur la maladie du phylloxéra dans le département de Vaucluse; résumé des études faites sous les auspices du Conseil général de Vaucluse . . . Avignon, 1870.

40 p. 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.

Extrait du *Bulletin de la Société d'agriculture et d'horticulture de Vaucluse* (livraison d'août 1870)

**Portugal**—*Comissão central anti-phylloxerica do sul do reino.* . . . [Relatorio] n° [1], 3; anno de 1882, 1884. Lisboa, 1883-85.

2 nos. maps. 30<sup>cm</sup>.

At head of title; Ministerio das obras publicas, commercio e industria.

**Portugal**—*Comissão de estudo e tratamento das vinhas do Douro.* . . . Relatorio da comissão de estudo e tratamento das vinhas do Douro, por Manuel Paulino de Oliveira. Lisboa, Imprensa nacional, 1880.

88 p., 11. fold. map. 30<sup>cm</sup>. (Ministerio das obras publicas, commercio e industria. Collecção de documentos officiaes, memorias e noticias ácerca da agricultura. Publicação official. No. 1)

**Portugal**—*Ministerio das obras publicas, commercio e industria.*—*Direcção geral de agricultura.* . . . Relatorio dos serviços anti-phyloxericos em 1887 na circumscripção do norte apresentado á Direcção geral de agricultura por Manuel Rodrigues Gondim, inspector de agricultura. Lisboa, Imprensa nacional, 1889.  
cover-title, 83 p. fold. col. maps. 33<sup>cm</sup>.

. . . **Prime notizie intorno alla fillossera delle viti e alle viti americane ad uso degli agricoltori.** 2.-3. discorso . . . Firenze, Tipografia della Pia Casa di Patronato, 1888.

2 pts. illus. 20 $\frac{1}{2}$ cm. (2.-3. supplemento all' Agricoltura pratica, anno VII)  
"Sunto bibliografico": 3. discorso, p. 13.

**Raynal, A. L.** Du refolement progressif du phylloxéra en France jusqu'à son anéantissement et de la reconstitution de nos vignobles en cépages français, par A.-L. Raynal . . . Poitiers, Blanchier [etc.] 1879. Agr 4—3591

2 p. 1., 81 p., 1 l. 23<sup>cm</sup>.

**Reblaus-gesetze.** Sammlung der im Königreich Preussen geltenden reichs- und landesgesetzlichen vorschriften und sonstigen anordnungen zur verhütung der einschleppung und weiterverbreitung der reblaus, sowie zur bekämpfung derselben. Im amtlichen auftrage zusammengestellt. Abgeschlossen im Oktober, 1889. Berlin, P. Parey, 1890. Agr 4—223

1 p. 1., 117 p. 19<sup>cm</sup>.

**Rexès, F. G.** Le phylloxéra détruit et la vigne régénérée par l'emploi rationnel de la potasse, dont l'action, comme insecticide et comme engrais, est démontrée expérimentalement et par voie de déductions scientifiques d'à priori. Par F.-G. Rexès . . . Montdidier, Impr. administrative A. Radenez, 1876.

1 p. 1., 31 p. 21<sup>cm</sup>.

— Post-face de la brochure: Le phylloxéra détruit et la vigne régénérée de F.-G. Rexès . . . [Angoulême, Impr. F. Lugeol et cie., 1876]

4 p. 21<sup>cm</sup>.

**Riley, Charles Valentine.** . . . Insectes nuisibles à la vigne (le puceron de la vigne—Phylloxera vitifoliæ Fitch.) . . . (Traduction de M. J. Lichtenstein) [Montpellier, 1871]

341-351 p. 22 $\frac{1}{2}$ cm.

From Bulletin de la Société centrale d'agriculture et des comices agricoles du département de l'Hérault. 57. année. Octobre, novembre et décembre 1870.

**Riley, Charles Valentine.** Insects injurious to the grape-vine. The grape phylloxera—Phylloxera vastatrix Planchon. [Jefferson City, 1874]

30-87 p. illus. 23<sup>cm</sup>.

From the Sixth annual report on the noxious, beneficial and other insects of the state of Missouri.

**Riley, Charles Valentine.** Notes on the natural history of the grape phylloxera (Phylloxera vastatrix Planchon) . . . [St. Louis, 1878]

281-287 p. illus. 23<sup>cm</sup>.

From the Transactions of the Academy of science of St. Louis. vol. III., 1868-1877.

**Riley, Charles Valentine.** Ueber dem weinstock schädliche insekten. Die rebenphylloxera. Phylloxera vastatrix Planchon. (Unterordnung Homoptera, familie Aphididae) Von C. V. Riley. Vom verfasser autorisirte uebertragung . . . Heidelberg, C. Winter's universitätsbuchhandlung, 1878. Agr 4—3596

77 p. 2 fold. pl. 23 $\frac{1}{2}$ cm.

Im auftrage des Dr. Ad. Blankenhorn für die "Annalen der oenologie" übersetzt durch Herrn Dr. Fr. Röder . . .

**Ritter, Carl.** Die entwicklungsgeschichte der reblaus, deren verbreitung und bekämpfung, von C. Ritter . . . 2. verb. und erweiterte aufl. . . . Neuwied [etc.] Heusers verlag (L. Heuser) 1893. Agr 4—1772

85 p. fold. pl. 22 $\frac{1}{2}$ cm.

**Roesler, Leonhard.** Istruzione popolare sulla Phylloxera vastatrix del Prof. Dr. L. Roesler; traduzione libera dal tedesco, fatta col consenso dell' autore, dal Dott. Alberto Levi . . . Udine, Tipografia di G. Seitz, 1875.

30 p. illus. 25<sup>cm</sup>.

Publicatione per cura ed a spese dell' Associazione agraria friulana.

**Roesler, Leonhard.** Die Phylloxera vastatrix . . . [Wien, 1875]

pt. I-III. illus. 40<sup>cm</sup>.

From Oesterreichisches landwirthschaftliches wochenblatt, 1875, nr. 1-3.

**Rohart, François Ferdinand.** Destruction pratique du phylloxéra . . . par F. Rohart . . . Paris, Typographie et lithographie de A. Michels, 1875.

cover-title, 8, [1] p. illus. 21<sup>cm</sup>.

**Rohart, François Ferdinand.** État de la question phylloxéra, moyens de prolonger les vignes atteintes, la submersion, régénération par les semis, les cépages américains, l'asphyxie souterraine: applications pratiques, enfouissement des bois injectés au sulfure de carbone, conséquences agricoles et commerciales de la destruction du phylloxéra, par F. Rohart . . . Paris, Librairie agricole de la maison rustique, 1875.

160 p. illus. 18<sup>cm</sup>.

**Rommier, Alphonse.** Mémoires et notes divers sur le phylloxéra, par Alph. Rommier . . . Paris, Impr. de E. Donnaud, 1877.

cover-title, 1 p. l., [46] p. 22<sup>cm</sup>.

Various paging.

**Rommier, Alphonse.** Nouvelles notes sur le phylloxéra, 1877, par A. Rommier. Paris, Impr. de E. Donnaud [1879?]

1 p. l., 7, 6 p. 22<sup>cm</sup>.

At head of caption title: Société des agriculteurs de France.

CONTENTS:—Le phylloxéra dans le Maconnais pendant l'année 1877.—Sulfure de carbone et phylloxéra, travaux ordonnés par la Compagnie du chemin de fer de Paris-Lyon-Méditerranée; analyse du rapport de M. Catta communiqué au Congrès phylloxérique international de Lausanne.

**Sabaté, J.** Destruction du phylloxéra; les opérations nécessaires, par J. Sabaté . . . Paris, Impr. E. Donnaud, 1877.

30 p. illus. 19<sup>cm</sup>.

**Sabaté, J.** . . . Traitement des vignes phylloxérées. [Paris, 1882]

4 p. illus. 23<sup>cm</sup>.

Extrait du Journal de l'agriculture du 11 février 1882.

**Sahut, Félix.** La défense du vin et la découverte du phylloxéra; discours prononcé à la salle des concerts du Grand-théâtre de Montpellier le mercredi, 4 avril 1900, par Félix Sahut . . . [Montpellier, Chez l'auteur, etc.] 1900.

36 p. 24<sup>cm</sup>.

**Signoret, Victor.** Du phylloxéra et de son évolution . . . [Paris, 1873]

3 p. 28<sup>cm</sup> x 22<sup>cm</sup>.

From Comptes rendus de l'Académie des sciences.

**Signoret, Victor.** Phylloxera vastatrix; hémiptère-homoptère de la famille des aphidiens; cause prétendue de la maladie actuelle de la vigne . . . Paris, Typographie et lithographie F. Malteste et c<sup>ie</sup>, 1870.

2 p. l., [549]-596 p. pl. 22<sup>cm</sup>.

"Ouvrages à consulter pour les insectes nuisibles à la vigne": p. 589-596.

Extrait des Annales de la Société entomologique de France, 1869.

**Stoffel, Michel.** . . . Rapport sur la maladie de la vigne, par M. Michel Stoffel . . . Montpellier [Imp. Ricard frères] 1873.

13 p. 20<sup>cm</sup>.

**Switzerland**—*Département fédéral du commerce, de l'industrie et de l'agriculture.* Le phylloxéra en Suisse durant l'année 1880-1881. Rapport du Département fédéral du commerce et de l'agriculture. Berne et Neuchâtel, 1881-82.

2 nos. maps. 23-24<sup>cm</sup>.

**Targioni Tozzetti, Adolfo.** . . . Delle più recenti infezioni fillosseriche della Germania e dell' impiego dei metodi curativi e delle viti americane in alcune provincie francesi . . . Firenze [1886]

22 p. 23<sup>cm</sup>.

Supplemento al n. 4, del 27 febbraio 1886, anno v. *L'agricoltura pratica*.

— — [Firenze, 1886]

28 p. 23<sup>cm</sup>.

From *Atti della R. Accademia economico-agraria dei georgofili di Firenze*. 4. ser., v. IX, disp. 1, p. [40]-67.

**Targioni Tozzetti, Adolfo.** *La fillossera e le malattie delle viti in Italia dal 1873 al 1883; secondo la relazione della R. Stazione di entomologia agraria di Firenze per gli anni stessi, per Ad. Targioni Tozzetti.* Firenze-Roma, Tipografia dei Fratelli Bencini, 1883.

88 p. 2 diagr. 22<sup>cm</sup>.

**Targioni Tozzetti, Adolfo.** . . . Notizie e indicazioni sulla malattia del pidocchio della vite o della fillossera (*Phylloxera vastatrix*) da servire ad uso degli agricoltori, per il professore A. Targioni-Tozzetti . . . Roma, Tipografia Eredi Botta, 1879.

39 p. illus., col. pl. 22<sup>cm</sup>. (*Annali di agricoltura*, 1879. Num. 11)

**Taverner, J. W.** . . . Report on phylloxera by the Hon. J. W. Taverner . . . Presented to both Houses of Parliament by His Excellency's command . . . Melbourne, R. S. Brain, government printer, 1899.

Agr 3—1266

10 p. fold. map. 34<sup>cm</sup>.

At head of title: 1899. Victoria.

**Tisserand, Eugène.** *Rapport sur les travaux administratifs entrepris contre le phylloxéra et sur la situation du vignoble français pendant l'année 1885, par M. Tisserand.* . . . Paris, Imprimerie nationale, 1886.

14 p. 24<sup>cm</sup>.

Séance de la Commission supérieure du phylloxéra du 1<sup>er</sup> mars 1886.

**Trimoulet, A. Henri.** . . . *Mémoire sur la maladie de la vigne, le phylloxéra, cause ou effet.* . . . Bordeaux, 1873.

14 p. 24<sup>cm</sup>.

Extrait des Actes de la Société linnéenne de Bordeaux, t. xxviii, 5. et 6. liv., 1873.

**Ueber den jetzigen stand der phylloxerafrage.** [Karlsruhe, Druck von F. Gutsch, 1879?]

7 p. 22<sup>cm</sup>.

Caption title.

**Vaud, Switzerland (canton)—Département de l'agriculture et du commerce.** . . . *Phylloxéra; rapport du Département de l'agriculture et du commerce sur l'exercice de 1886.* Lausanne, Imprimerie Jaunin frères, 1887.

16 p. 20<sup>cm</sup>.

At head of title: Canton de Vaud.

**Vernière, P.** . . . *Le sulfure de calcium, remède curatif et préventif contre le phylloxéra; exposé théorique de la question et conseils pratiques aux agriculteurs.* . . . Montpellier, C. Coulet, 1874.

16 p. 21<sup>cm</sup>.

**Violla, Louis.** *Le phylloxéra et la nouvelle maladie de la vigne; étude comprenant: 1. Le rapport de la commission nommée par la Société des agriculteurs de France pour étudier la nouvelle maladie de la vigne, par M. L. Violla. 2. Des notes entomologiques sur le Phylloxera vastatrix, pour faire suite au Rapport de M. Violla, par MM. J.-É. Planchon et J. Lichtenstein . . . Montpellier, C. Coulet; [etc., etc.] 1869.*

2 p. l., 84 p. illus, 22<sup>cm</sup>,

**Victoria, Australia.**—*Dept. of agriculture.* . . . Papers respecting the Phylloxera vastatrix or new vine scourge. Published by the Department of agriculture for the information of the public generally. Melbourne, J. Ferres, government printer, 1873.

Agr 4—1876

cover-title, 21 p. plates. 21<sup>cm</sup>.

**Wasmann, Eric.** . . . Die reblaus. [n. p., 1895]

34 p. 22½<sup>cm</sup>.

Caption title.

Sonder-abdruck aus den "Stimmen aus Maria-Laach." Freiburg i. B., 1894 u. 1895.

**Wheeler, John H.** . . . Investigation du phylloxéra en Californie, par John H. Wheeler . . . Traduction de M. Morlot . . . [Paris, 1882]

4 p. 23½<sup>cm</sup>.

Extrait du Journal de l'agriculture (octobre 1882)

**Wittmack, Ludwig i. e. Max Carl Ludewig.** Die reblaus. (Phylloxera vastatrix.) Im auftrage des Königlich preussischen ministeriums für die landwirthschaftlichen angelegenheiten, bearb. von Dr. L. Wittmack . . . Berlin, E. Schotte & Voigt, 1875.

25 p. illus. 22½<sup>cm</sup>.

Agr 4—3629-30

— 2. verb. und verm. aufl . . . Berlin, E. Schotte & Voigt, 1875.

30 p. illus. 23½<sup>cm</sup>.

Agr 4—3629-30

**Wyneken, B.** Zwangs-versicherungs-genossenschaften der rebcultur-besitzer gegen den durch die reblaus (Phylloxera vastatrix) drohenden schaden. Vortrag gehalten zu Bonn in der section für weinbau der 46. generalversammlung des Landwirthschaftlichen centralvereins für die Rheinprovinz, von B. Wyneken . . . Bonn, E. Strauss, 1878.

40 p. 23<sup>cm</sup>.

Agr 4—3632

**Ziel, B.** Das aufhören der reblaus und der anderen krankheiten in den weinbergen durch ein einfaches, leicht anzuwendendes mittel. Von B. Ziel . . . Coblenz, Commissions-verlag von F. Hölscher, 1894.

cover-title, 18 p. 16<sup>cm</sup>.

## ALEURODIDÆ.

**Bemis, Mrs. Florence Eugenie.** . . . The aleyrodids, or mealy-winged flies, of California, with references to other American species. By Florence E. Bemis . . . Washington, Gov't print. off., 1904.

1 p. l., 471-537 p. xxvii-xxxvii pl. 25<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxvii.

**Quaintance, Altus Lacy.** Contributions toward a monograph of the American Aleurodidæ by A. L. Quaintance. The red spiders of the United States (Tetranychus and Stigmæus) by Nathan Banks. Washington, 1900.

79 p. illus., 8 pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 8)

## COCCIDÆ.

**Allen, W. J.** Red scale, and some remedies for the destruction of same . . . [Sydney, 1898]

618-620 p. pl. 24½<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. ix.

**Alwood, William Bradford.** . . . Circular in relation to some injurious insects and plant diseases . . . Lynchburg, Va., 1904.

25 p. illus. 23½<sup>cm</sup>.

At head of title: Virginia state crop pest commission. &lt;C. P. C. No. 45&gt;

**Alwood, William Bradford.** Inspection in relation to the suppression of the San Jose scale. [Rochester, 1897?]

25-33 p. 23<sup>cm</sup>.

From the Report of the 22d annual meeting of the American association of nurserymen, June 9-10, 1897.

**Atkinson, Edwin T.** On pests belonging to the homopterous family of Coccidæ, which attack tea, cinchona, and coffee trees . . . [Calcutta, 1886]

3 p. 23<sup>cm</sup>.

From Proceedings, Asiatic society of Bengal, for July, 1886.

**Berlese, Antonio.** . . . Le cocciniglie italiane viventi sugli agrumi . . . Avelino, Stab. tipog. E. Pergola, 1893-96.

3 pts. illus., 26 pl. (7 col., 2 fold.) 23<sup>cm</sup>.

Estratto dalla Rivista di patologia vegetale, anno II, n. 1-8; anno III, n. 1-8; anno IV, n. 1-12, anno V, n. 1-4.

Imprint of pte. III: Firenze, Tipografia C. A. Materassi, 1896.

CONTENTS.—Pte. I. I Dactylopius. 1893.—Pte. II. I Lecanium. 1894.—Pte. III. I diaspiti. 1896.

**Berlese, Antonio.** Nota di A. Berlese e G. Leonardi, diagnosi di cocciniglie nuove. [Padova & Avellino, 1896]

[345]-352 p. illus. 23<sup>4</sup>cm.

Estratto dalla Rivista di patologia vegetale. Anno IV, num. 7-12.

**Blanchard, Raphael.** Les coccidés utiles par le Dr. Raphaël Blanchard . . . Meulan, Imprimerie de la Société zoologique de France, 1883.

116 p., 1 l. illus. 25<sup>4</sup>cm.

"Extrait du Bulletin de la Société zoologique de France, t. VIII, 1883."

"Index bibliographique": p. 104-116.

**Bos, Jan Ritzema.** Bericht über die im auftrage des Königlich niederländischen ministeriums des innern wegen der San José-schildlaus angestellten nachforschungen. [Amsterdam, 1898]

63, [1] p. 23<sup>cm</sup>.

"Verzeichniss der wichtigsten litteratur über die San José-schildlaus chronologisch geordnet": p. 55-63.

**Bos, Jan Ritzema.** Verslag omtrent een onderzoek ingesteld naar de San José-schildluis. [Amsterdam, 1898]

45 p. 23<sup>4</sup>cm.

"Overzicht van de belangrijkste literatuur over de San José schildluis, chronologisch gerangschikt": p. 39-44.

**Cape of Good Hope—Department of agriculture—Government entomologist.** Gas treatment for scale insects . . . Report to the Horticultural board by the Government entomologist . . . Cape Town, 1897.

29 p. illus., 2 pl. 24<sup>3</sup>cm.

**Cockerell, Theodore Dru Alison.** . . . A check-list of the Coccidæ . . . [Springfield, Ill., 1896]

[318]-339 p. 23<sup>cm</sup>.

From Bulletin of the Illinois state laboratory of natural history. Vol. IV.

— First supplement. [Urbana, Illinois, 1899]

[389]-398 p. 22<sup>cm</sup>.

From Bulletin of the Illinois state laboratory of natural history. Vol. V.

**Cockerell, Theodore Dru Alison.** . . . A new scale-insect from Grenada . . . [Port-of-Spain] 1895.

1 p. 22<sup>cm</sup>.

Reprinted from the Journal of the Trinidad field naturalists' club, vol. II, no. 8, 1895.

**Cockerell, Theodore Dru Alison.** San José scale and its nearest allies; a brief consideration of the characters which distinguish these closely related injurious scale insects. Washington, 1897.

31 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, tech. ser., 6)

**Comstock, John Henry.** Report on scale insects. (U. S. Agriculture, Commissioner of. Annual report of the Commissioner . . . for the year 1880. Washington, 1881. p. 276-349)

**Cooke & son,** Natural history and habits of the codling moth. See under *Tortricidæ*.



**Coquillett, Daniel William.** New coccids from California, and one of their chalcid parasites. [Orcutt, Calif.] 1890.

[43]-45 p. 23<sup>cm</sup>.

From the West American scientist, vol. VII, no. 53, September, 1890.

**Coquillett, Daniel William.** Report on remedies for the cottony cushion-scale. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1886. Washington, 1887. p. 552-557)

**Coquillett, Daniel William.** Report on the gas treatment for scale-insects. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p. 123-142)

**Coquillett, Daniel William.** Report on various methods for destroying scale-insects. (U. S. Agriculture, Commissioner of. Report of the Commissioner, 1888. Washington, 1889. p. 123-133)

**Douglas, John William.** Mealy bug at Alexandria (*Crossotosoma ægyptiacum*, J. W. Douglas). [London, 1890]

94-97 p. illus. 24<sup>1/2</sup><sup>cm</sup>.

From the Royal gardens, Kew. Bulletin of miscellaneous information, no. 41.

**Fernald, Mrs. Maria Elizabeth (Smith)** . . . A catalogue of the Coccidæ of the world. [By] Mrs. Maria E. Fernald, A. M. Amherst, Mass., Carpenter & Morehouse, 1903.

360 p. 23<sup>cm</sup>. (Special bulletin. Hatch experiment station of the Massachusetts agricultural college. Bulletin no. 88)

The fluted scale-insect (*Icerya purchasi*, Maskell) . . . London, 1889.

[191]-216 p. col. pl. 24<sup>1/2</sup><sup>cm</sup>. (Royal gardens, Kew. Bulletin of miscellaneous information no. 32)

**Frank, Albert Bernhard.** Schildlausbuch. Beschreibung und bekämpfung der für den deutschen obst- und weinbau wichtigsten schildläuse. Bearb. für die praxis von professor Dr. A. B. Frank . . . und Dr. F. Krüger . . . Berlin, P. Parey, 1900. viii, 120 p. illus., II col. pl. 23<sup>cm</sup>.

**Froggatt, Walter Wilson.** . . . Coccids (scale insects) in Sydney gardens . . . Sydney, 1897.

7 p. 2 pl. 25<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 175)

From Agricultural gazette of N. S. Wales, vol. VIII, August 1897.

**Froggatt, Walter Wilson.** Further notes on San Jose scale (*Aspidiotus perniciosus*) . . . [Sydney, 1898]

1282-1285 p. map. 24<sup>1/2</sup><sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. IX, 1898.

**Froggatt, Walter Wilson.** . . . The Indian wax scale as an orchard pest, and its control (*Ceroplastes ceriferus*, Anderson) . . . [Sydney] 1902.

4 p. pl. 24<sup>1/2</sup><sup>cm</sup>. (New South Wales. Dept. of agriculture. Miscellaneous publication, no. 594)

From Agricultural gazette of New South Wales, September 1902.

Allen, W. J. Fumigation for destruction of Indian wax scale: p. 2-4.

**Froggatt, Walter Wilson.** . . . The limitations of parasites in the destruction of scale insects . . . [Sydney] 1902.

7 p. 24<sup>1/2</sup><sup>cm</sup>. ([New South Wales. Dept. of agriculture] Miscellaneous publication, no. 603)

From Agricultural gazette of New South Wales, November 1902.

**Froggatt, Walter Wilson.** . . . San Jose scale (*Aspidiotus perniciosus*, Comstock) . . . Sydney, 1898.

9 p. pl. 25<sup>cm</sup>. (Department of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 197)

From Agricultural gazette of N. S. Wales, vol. VIII, December 1897.

**Froggatt, Walter Wilson.** Scale insects that produce lac. With a description of a new Australian species . . . [Sydney, 1899]

[1159]-1163 p. pl. 24<sup>1/2</sup><sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. X, pt. 11, Nov. 1898.

**Fuller, Claude.** Entomological note. . . . The orange mussel scale (*Mytilaspis citricolor*, Pack.) [Sydney, 1896]

160-162 p. pl. 24½<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. vii.

**Fuller, Claude.** Forest insects. Some gall-making coccids . . . [Sydney, 1896]  
209-218 p. iv pl. 24½<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. vii.

**Fuller, Claude.** . . . A gall-making diaspid . . . [Sydney, 1897]

2 p. pl. 24½<sup>cm</sup>. ([New South Wales—Dept. of agriculture] Miscellaneous publication, no. 177)

From Agricultural gazette of N. S. Wales. August 1897.

**Gennadius, P. G.** . . . *Περὶ τῆς ἐν Ἀνδρῶν νόσου τῶν λεμονεῶν (βαμβασκιάσις—Dactylopius citri, Boid)* . . . *Ἐν Ἀθῆναις, ἐκ τοῦ ἐθνικοῦ τυπογραφείου*, 1884.

28 p. 21<sup>cm</sup>.

On the disease of the lemon in Andros.

At head of title: *Ὑπουργεῖον ἐσωτερικῶν*.

**Giard, Alfred.** . . . Quatrième note sur le genre *Margarodes*, par MM. A. Giard et A. Buisine . . . [Paris, 1895]

4 p. 24½<sup>cm</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (séance du 18 mai 1895)

**Giard, Alfred.** . . . Sur deux cochenilles nouvelles *Ortheziola fodiens* nov. spec. et *Rhizæcus Eloti* nov. spec., parasites des racines du caféier à la Guadeloupe . . . [Paris] 1897.

3 p. 24<sup>cm</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (séance du 19 juin 1897)

**Giard, Alfred.** . . . Sur la distribution géographique des cochenilles du genre *Margarodes* et sur deux espèces nouvelles de ce genre . . . [Paris, 1897]

3 p. 24<sup>cm</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (séance du 10 juillet 1897)

**Giard, Alfred.** . . . Sur les transformations de *Margarodes vitium* Gd. . . . [Paris, 1894]

4 p. 24<sup>cm</sup>.

Extrait des Comptes rendus des séances de la Société de biologie. Séance du 19 mai 1894.

**Giard, Alfred.** Sur une cochenille souterraine des vignes du Chili (*Margarodes vitium* nov. sp.) . . . [Paris, 1894]

3 p. 24½<sup>cm</sup>.

Extrait des Comptes rendus des séances de la Société de biologie sér. 10, t. 1, p. 126-128, séance du 10 février 1894.

**Giard, Alfred.** Troisième note sur le genre *Margarodes* . . . [Paris, 1894]

3 p. 24<sup>cm</sup>.

Extrait des Comptes rendus des séances de la Société de biologie (séance du 10 novembre 1894)

**Girard, Maurice.** Note sur des coccidiens qui attaquent les plantes de la famille des aurantiacées et sur la fumagine consécutive . . . [Paris, 1877]

15 p. 22<sup>cm</sup>.

Extrait du Journal de la Société centrale d'horticulture de France, 2<sup>e</sup> série, t. xi, 1877, p. 316-330.

**Glover, Townend.** Insects injurious and beneficial to the orange-tree. The orange scale. (U. S. Patent office. Report of the Commissioner of patents for the year 1855. Agriculture. Washington, 1856. p. 115-119)

**Green, Edward Ernest.** The Coccidæ of Ceylon. By E. Ernest Green . . . London, Dulau & co., 1896-1904.

pt. I-III. XCIII [i. e. 96] pl. (84 col.) 26½<sup>cm</sup>. (plates. 23½<sup>cm</sup>.)

**Green, Edward Ernest.** . . . The "lantana bug" (*Orthezia insignis*, Douglass). [Colombo] 1899.

[88]-94 p. 22<sup>cm</sup>. (Royal botanic gardens, Ceylon. Circular, ser. 1, no. 10. January 7, 1899)

"Bibliography": p. 93-94.

- Green, Edward Ernest.** Observations on the green scale-bug in connection with the cultivation of coffee . . . [Colombo, 1886]  
4 p. col. pl. 29<sup>cm</sup>.
- Harney, G. W.** . . . The yellow scale (*Aspidiotus citrinus*). Notes and recommendations . . . Marysville, 1891.  
[3] p. 16<sup>cm</sup>. (California, Yuba county horticultural commission. Bulletin no. 5)
- Howard, Leland Ossian.** An important enemy to fruit trees; the San Jose scale; its appearance in the eastern United States; measures to be taken to prevent its spread and to destroy it. Washington, 1893.  
10 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 3)  
Also published in *Insect life*, v. 6, pp. 360-369.
- Howard, Leland Ossian.** San Jose scale in 1896-1897. Washington, 1898.  
31 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 12)  
"Bibliography": pp. 27-31.
- Howard, Leland Ossian.** San Jose scale; its occurrences in the United States, with a full account of its life history and the remedies to be used against it; by L. O. Howard and C. L. Marlatt. Washington, 1896.  
80 p. illus., pl. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 3)  
"Bibliography": pp. 74-80.
- Howard, Leland Ossian.** Some scale insects of the orchard. (U. S. Agriculture, Dept. of. Yearbook, 1894. Washington, 1895. p. 249-276. illus.)
- Hubbard, Henry Guernsey.** Report of progress in experiments on scale insects, with other practical suggestions. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the year 1883. Washington, 1883. p. 152-170)
- Hubbard, Henry Guernsey.** Scale insects of the orange. Remedies and their application. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . for the years 1881 and 1882. Washington, 1882. p. 106-126)
- Huet, L.** Note sur le *Mytilaspis pomorum* (parasite du pommier), par M. L. Huet et M. E. Louise . . . Paris, 1892.  
4 p. 27<sup>cm</sup>.  
Extrait du Bulletin du Ministère de l'agriculture, vol. xi.
- Hunter, Samuel John.** The Coccidæ of Kansas. A series of articles dealing with Coccidæ found in Kansas, their host plants, and bibliography. By S. J. Hunter . . . [n. p., 1898]-1901.  
xi, 80 p., 19 l. xx pl. 23<sup>cm</sup>.  
"Bibliography": p. 50-75.  
Consists of four papers reprinted from the Kansas university quarterly, vol. VIII-X, ser. A. [I]-III appeared as Contributions from the Entomological laboratory, no. 64, 66, 72. "To facilitate their use, these papers are now brought together under one cover, and are preceded by a brief introduction. For reference and explanation of terms, an index and glossary are added."—Pref.
- Koebele, Albert.** Report of a trip to Australia to investigate the natural enemies of the fluted scale. Washington, 1890.  
32 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 21)
- Koebele, Albert.** Report on experiments against scale-insects. (U. S. Agriculture, Commissioner of. Report of the Commissioner . . . 1887. Washington, 1888. p. 143-147)
- Koebele, Albert.** Report upon supplementary experiments on the cottony cushion-scale; followed by a report on experiments on the red scale. (U. S. Agriculture, Commissioner of. Report of the Commissioner. 1886. Washington, 1887. p. 558-572)
- [**Kuwana, Shinkai Inokichi**] . . . The San Jose scale in Japan. Nishigahara, Tokyo, 1904.  
3 p. l., 33 p., 3 l. VIII pl. (2 col.) incl. 2 fold. maps. 25<sup>cm</sup>.  
At head of title: Imperial agricultural experiment station in Japan.

"This paper was prepared by S. I. Kuwana, A. M., with the assistance of Messrs. S. Onuki and S. Hori, entomologists of our station, at the request of the Bureau of agriculture, Department of agriculture and commerce."—Introductory note.

**Lindemann, Karl Eduardovich.** Ячменная тля (*Westwoodia hordei* Lindm.) Новое вредное насекомое южной России . . . [Barley plant-louse (*Westwoodia hordei* Lindm.) New injurious insect of southern Russia . . .] [Одесса, Типографія Бессарабскаго губернскаго правления, 1886]

6 p. pl. 22<sup>cm</sup>.

Изъ по. 8 "Записокъ" Имп. общ. сел. хоз. ю. Р. за 1886 г.

**Lintner, Joseph Albert.** The San Jose scale, *Aspidiotus perniciosus*, and some other destructive scale-insects of the state of New York . . . Albany, 1895.

2 p. 1., [267]—305 p. VII pl. 25<sup>cm</sup>. (Bulletin of the New York state museum, vol 3, no. 13)

"Bibliography": p. 303—305.

**Lochhead, William.** . . . The San José and other scale insects, prepared for the use of fruit growers and scale inspectors, by Wm. Lochhead . . . Toronto, Warwick bro's & Rutter, 1900.

48 p. illus. 22<sup>cm</sup>. (Ontario department of agriculture, Toronto, March, 1900)

**Marlatt, Charles Lester.** How to control the San Jose scale. Washington, 1900.

6 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 42)

— — — Rev. ed. Washington, 1902.

6 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 42)

— — — 3d ed. Washington, 1903.

7 p. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 42)

**Marlatt, Charles Lester.** San Jose scale; its native home and natural enemy. (U. S. Agriculture, Dept. of. Yearbook, 1902. Washington, 1903. p. 155—174. illus., 5 pl., map)

**Marlatt, Charles Lester.** Scale insect and mite enemies of citrus trees. (U. S. Agriculture, Dept. of. Yearbook, 1900. Washington, 1901. p. 247—290. illus., 6 pl.)

**Marlatt, Charles Lester.** Scale insects and mites on citrus trees. Washington, 1903.

43 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of. Farmers' bulletin 172)

"Somewhat condensed revision of the article under the same title published in the Yearbook . . . for 1900."

**Maskell, William Miles.** An account of the insects noxious to agriculture and plants in New Zealand. The scale-insects (*Coccididæ*). By W. M. Maskell . . . Wellington, G. Didsbury, government printer, 1887.

3 p. 1., 116, [2] p., 23 l. XXIII pl. (20 col.) 24<sup>1/2</sup><sup>cm</sup>.

". . . Published by the State forests and agricultural department . . ."

**Mexico—Secretaría de fomento, colonización é industria.** La fumagina y el pulgón de los cafetos en la República mexicana. Documentos relativos. México, Oficina tip. de la Secretaría de fomento, 1897.

115 p., 1 l. illus., pl. 22<sup>1/2</sup><sup>cm</sup>.

**Mexico—Secretaría de fomento, colonización, é industria.** Trabajos de la Secretaría de fomento de la República mexicana sobre el axe. México, Imp. de la Secretaría de fomento, 1884.

96 p. II pl. 21<sup>cm</sup>.

**New Zealand—General crown lands dept.** The *Icerya purchasi* and its cure (*Verdalis cardinalis*). Reprinted for general information from the Annual report of the State (California) board of horticulture for 1889. Compiled in the General crown lands department. Wellington, G. Didsbury, government printer, 1891. Agr 3—197

16 p. 1 col. pl. 24<sup>1/2</sup><sup>cm</sup>.

**Newell, Wilmon.** . . . On the North American species of the subgenera *Diaspidiotus* and *Hemiberlesia*, of the genus *Aspidiotus* . . . Ames, Iowa, 1899.

31, [1] p. 1 pl. 22<sup>cm</sup>. (Contributions from the Department of zoology and entomology, Iowa State college of agriculture and mechanic arts, no. 3)

**Newstead, Robert.** Monograph of the Coccidæ of the British isles. By Robert Newstead . . . London, Printed for the Ray society, 1901-03.

2 v. LXXV (i. e. 81) pl. (partly col.) 22½<sup>em</sup>. (*Added t. p.*: The Ray society . . . [Publication])

**O'Connor, J. E.** Note on lac. [n. p., 187-]

12 p. 29<sup>em</sup>.

**Ontario**—*Commission of enquiry concerning the operation of the San Jose scale act.* Report . . . Toronto, 1899.

8 p. 25<sup>em</sup>.

**Ontario**—*Dept. of agriculture . . . Winter treatment and summer treatment of San Jose scale.* Special report of the commissioners to the minister of agriculture. Toronto, Printed by L. K. Cameron, printer to the king's most excellent Majesty, 1902.

4 p. 22½<sup>em</sup>.

**Ormerod, Eleanor Anne, comp.** Notes on the Australian bug (*Icerya purchasi*) in South Africa. With additional illustrations from S. Australia, and notes of history and treatment from government reports of the United States of America. Comp. by Eleanor A. Ormerod . . . London, Simpkin, Marshall & co., 1887. Agr 4—220

vii, 36 p. illus. 19<sup>em</sup>.

**Osborn, Herbert.** Notes on Coccidæ occurring in Iowa. . . [Des Moines, 1898]

18 p. 23<sup>em</sup>.

From Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts, no. 3.

Reprinted from Proceedings Iowa academy of sciences, vol. v.

**Planchon, Jules Émile.** . . . La phthiriose ou pédiculaire de la vigne chez les anciens et les cochenilles de la vigne chez les modernes . . . [Paris, 1870]

8 p. 22½<sup>em</sup>.

Extrait du Bulletin de la Société des agriculteurs de France, n° du 15 juillet 1870.

**Putnam, J. Duncan.** Biological and other notes on Coccidæ. [Davenport, Iowa, 1879]

1 p. l., 293-347 p. XII-XIII pl. 24<sup>em</sup>.

From Proceedings of the Davenport academy of natural sciences, vol. II, 1876-1878, p. 293-348.

CONTENTS.—I. *Pulvinaria innumerabilis*.—II. *Aspidiotus ancyclus*.

**Riley, Charles Valentine.** *Icerya* or fluted scale, otherwise known as the cotton cushion-scale. Washington, 1887.

40 p. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 15)

"Reprint of some recent articles by the entomologist and of a report from the Agricultural experiment station, University of California."

**Riley, Charles Valentine.** . . . On the original habitat of *Icerya purchasi*. [San Francisco] 1888.

1 p. 40½<sup>em</sup>.

From the Pacific rural press, May 12, 1888.

**Sanders, James G.** . . . The Coccidæ of Ohio, by James G. Sanders . . . Columbus, Hann & Adair, printers, 1904.

pt. I. 9 pl. 23<sup>em</sup>. (*On cover*: Ohio state university. Contributions from the Department of zoology and entomology. no. 18)

University bulletin. ser. 8, no. 17.

Reprinted from Ohio state academy of science, Special papers, no. 8, pp. 25-92, 1904.

**Scott, W. M.** . . . Spring treatment of orchards infested with the San Jose scale. Atlanta, Ga., 1901. Agr 3—209

[4] p. illus. 24<sup>em</sup>. (Bulletin no. 2. Jan. 15, 1901. Georgia state board of entomology. Atlanta, Ga.)

**Sequeira, Eduardo.** A *Icerya purchasi*. [n. p., 1897]

190-191 p. 28½<sup>em</sup>.

From *Jornal horticolo-agricola*, vol. v, no. 12, December, 1897.

**Shelton, Edward Mason.** Treatment of scale insects. Brisbane, 1892.

15-17 p. 22<sup>em</sup>.

From the Queensland department of agriculture, Bulletin no. 16, January, 1892.

**Shingley, Arthur Everett.** . . Orange scale in Cyprus. (*Aspidiotus aurantii*) London, 1891.

[221]-230 p. pl. 24 $\frac{1}{2}$ cm.

From Bulletin of miscellaneous information, Royal gardens, Kew. no. 57, September, 1891.

**Stedman, John Moore.** The San Jose scale in Missouri. (*Aspidiotus perniciosus*, Comst.) [Jefferson City, 1898]

312-317 p. 23cm.

From the 40th Annual report of the State horticultural society of Missouri, 1897.

**Targioni Tozzetti, Adolfo.** Sopra alcune specie di cocciniglie, sulla loro vita e sui momenti e gli espedienti per combatterle . . . [Firenze, 1888]

14 p. pl. 24 $\frac{1}{2}$ cm.

"Estratto dal Bulletino della R. Società toscana di orticoltura, anno XIII-1888.

**Targioni Tozzetti, Adolfo.** Studii sulle cocciniglie, memoria di Adolfo Targioni Tozzetti . . . Milano, Coi tipi di G. Bernardoni, 1867.

87 p. 7 pl. 30cm. (Memorie della Società italiana di scienze naturali. Tomo III, n. 3.)

**Theobald, Frederick Vincent.** The San Jose scale, *Aspidiotus perniciosus*, Comstock, and its probable introduction into England . . . Ashford, Kent, and London, 1898.

12 p. illus. 21 $\frac{1}{2}$ cm.

**Tryon, Henry.** Pernicious or San José scale (*Aspidiotus perniciosus*, Comstock) . . . [Brisbane] 1898.

494-510 p. XL-XLI pl. 24 $\frac{1}{2}$ cm.

From the Queensland agricultural journal, vol. II, pt. VI, June, 1898.

"References:" p. 509-510.

**Tryon, Henry.** . . . Scale insects—Coccidæ . . . [Brisbane, 1897]

118-129 p. II pl. 25cm.

From the Queensland agricultural journal, vol. I, 1897.

**Virginia—Entomologist and pathologist.** Report on the inspection of Roanoke county for the San José scale, by Wm. B. Alwood, state entomologist and pathologist. Blacksburg, 1901.

35, [1] p. incl. tables. fold. map. 25 $\frac{1}{2}$ cm.

**Webster, Francis Marion.** The brown or soft orange scale (*Lecanium hesperidum*, Linn.) on roses . . . [Chicago, 1893]

[1] p. illus. 30cm.

Reprinted from the American florist, p. 674, vol. VIII.

**Webster, Francis Marion.** . . . The result of applying crude petroleum to peach trees in Ohio to suppress the San José scale . . . Urbana, 1902.

[119]-140 p. II-V pl. 23 $\frac{1}{2}$ cm.

From Proceedings 23d Annual meeting of Society for promotion agricultural science.

**Webster, Francis Marion.** Scale insects, their habits and distribution, with means of holding them in check . . . [n. p.] 1896.

17 p. illus. 23cm.

<Extracted from Indiana horticultural report for 1896>

**Webster, Francis Marion.** Some recent developments in the San Jose scale problem in Ohio . . . [Syracuse, 1898]

8 p. 22 $\frac{1}{2}$ cm.

From the Proceedings of the nineteenth annual meeting of the Society for the promotion of agricultural science, for 1898, p. 112-119.

## THYSANOPTERA.

**Beach, Alice M.** Contributions to a knowledge of the Thripidæ of Iowa . . . [Des Moines, 1896]

214-227 p. 23cm.

Contributions from the Department of zoology and entomology, Iowa state college of agriculture and mechanic arts [no. I]

Reprinted from the Proceedings of the Iowa academy of sciences 1895, vol. III (1896)

**Buffa, Pietro.** . . . Contributo allo studio anatomico della *Hèliothrips hæmorrhoidal* Fabr. Firenze, 1898.

30 p. v-ix pl. 24<sup>cm</sup>.

Estratto dalla Rivista di patologia vegetale. anno VII, fasc. I e II.

**Garman, Harrison.** . . . The asymetry of the mouth-parts of *Thysanoptera*. [Philadelphia, 1896]

591-593 p. illus. 25<sup>cm</sup>.

"Reprinted from the American naturalist, July 1st, 1896."

**Garman, Harrison.** The mouth-parts of the *Thysanoptera*. [Salem, 1890]

4 p. illus. 23<sup>cm</sup>.

From the Bulletin of the Essex institute, vol XXII, nos. 1-3, 1890.

**Great Britain—Board of agriculture** . . . The pea thrips (*Thrips pisivora*) [London, 1898]

3, [1] p. illus. 21½<sup>cm</sup>. (*Its* Leaflet no. 48)

**Hinds, Warren Elmer.** . . . Contribution to a monograph of the insects of the order *Thysanoptera*, inhabiting North America. By Warren Elmer Hinds . . . Washington, Govt. print. off., 1902. Agr 5-73

1 p. l., 79-242 p. xi pl. 25<sup>cm</sup>.

Bibliography: p. 221-231.

From the Proceedings of the United States national museum, vol. xxvii, p. 79-242 <No. 1310>

**Lindemann, Karl Eduardovich.** Die am getreide lebenden *Thrips*-arten Mittelrusslands . . . [Москва, 1886]

42 p. illus. 22½<sup>cm</sup>.

"Издание Императорскаго московскаго общества испытателей природы."

**Reuter, Enzo.** . . . *Ælothrips fasciata* (L.) Eine carnivore thysanoptere . . . (Vorgetragen am 7. dezember 1901) Helsingfors, 1902.

[75]-83 p. 22½<sup>cm</sup>.

Särtryck ur "Meddelanden af Societas pro fauna et flora fennica." h. 28 (1902)

**Reuter, Enzo.** *Physopus tenuicornis* Uzel als erzeuger totaler weissähricheit bei hafer . . . Helsingfors, 1901.

[115]-120 p. 22<sup>cm</sup>.

Särtryck ur "Meddelanden af Societas pro fauna et flora fennica." h. 27 (1901)

**Uzel, Heinrich.** Monographie der ordnung *Thysanoptera*. Von Heinrich Uzel . . . Gekrönt mit dem jubiläumspreise der Böhmischen akademie der wissenschaften, etc., in Prag. Königgrätz, Selbstverlag des verfassers, 1895.

472, [9] p., 1 l., [20] p. x pl. 33½<sup>cm</sup>.

Added t.-p. in Bohemian. Text in German and Bohemian.

**Webster, Francis Marion.** The onion thrips, *Thrips tabaci* Lindem. . . Columbus, [1901]

7 p. pl. 22<sup>cm</sup>.

Reprinted from the Journal of the Columbus horticultural society, vol. xvi, no. 3.

## ANOPLURA.

[**Denny, Henry**] List of the specimens of British animals in the collection of the British museum. Pt. xi. Anoplura, or parasitic insects. London, Printed by order of the trustees, 1852. Agr 3-777

2 p. l., 51 p. 18<sup>cm</sup>.

**Denny, Henry.** Monographia anoplurorum Britanniae; or, An essay on the British species of parasitic insects belonging to the order Anoplura of Leach, with the modern divisions of the genera according to the views of Leach, Nitzsch, and Burmeister, with highly magnified figures of each species. By Henry Denny . . . London, H. G. Bohn, 1842.

1 p. l., xxiv, [2], 262 p., 1 l. xxvii col. pl. 22½<sup>cm</sup>.

**Harker, Allen.** The ecto-parasites of the ox . . . [Cirencester, 1884]

4 p. col. pl. 22<sup>cm</sup>.

"From the Agricultural students' gazette, April, 1884."

- Moniez, Romain Louis.** . . . Le Phthirius inguinalis dans les cheveux :  
Lille, Typ. & lith. Le Bigot frères [1892?]  
[1] p. 25<sup>em</sup>.  
Extrait de la Revue biologique du nord de la France, 4<sup>e</sup> année, n<sup>o</sup> 6, mars 1892.
- Murray, Andrew.** On the pediculi infesting the different races of man. By  
Andrew Murray . . . Edinburgh, Printed for the Society by Neill and company,  
1861.  
1 p. l., 567-578 p. 2 pl. 28 $\frac{1}{2}$ <sup>em</sup>.  
From the Transactions of the Royal society of Edinburgh, vol. xxii, pt. iii.
- Osborn, Herbert.** Pediculi and Mallophaga affecting man and the lower  
animals. Washington, 1891.  
56 p. illus. 23<sup>em</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin 7)
- Piaget, Édouard.** Les pédiculines. Essai monographique, par E. Piaget . . .  
Leide, E. J. Brill, 1880. Agr 4—3367-8  
xxxix, 714 p. and atlas of 58 l., lvi pl. 32 $\frac{1}{2}$ <sup>em</sup>.  
"Ouvrages à consulter": p. [xxx]-xxxix.
- Supplément. Leide, E. J. Brill, 1885. Agr 4—3367-8  
xii, 200 p. xvii pl. 32 $\frac{1}{2}$ <sup>em</sup>.  
p. [163]-[196] printed on one side of leaf only.  
"Supplément à la liste des ouvrages à consulter": p. [xi]-xii.
- Stroebelt, Oscar.** Anatomie und physiologie von Haematopinus tenuirostris  
Burm. . . . Düsseldorf, Jockwer'sche buchdruckerei, 1882.  
52 p., 1 l. ii pl. 23 $\frac{1}{2}$ <sup>em</sup>.  
Inaug.-dis.—Münster.  
"Litteraturverzeichniss": p. 50-51.
- Trouessart, Édouard Louis.** Le pou de l'otarie (Echinophthirius microchir,  
n. sp.) [by Dr. Trouessart et G. Neumann] Paris, 1888.  
80-81 p. illus. 31 x 23<sup>em</sup>.  
From Le Naturaliste, 10<sup>e</sup> année. 2<sup>e</sup> sér., no. 26, 1<sup>er</sup> avril 1888.
- Trouessart, Édouard Louis.** Sur une phthiriose du cuir chevelu, causée, chez  
un enfant de cinq mois, par le Phthirius inguinalis . [Paris, 1891]  
2 p. 27 $\frac{1}{4}$  x 22<sup>em</sup>.  
From Comptes rendus . . . de l'Académie des sciences, t. 113, p. 1067-1069.

## NEUROPTERA.

### GENERAL.

- Brauer, Friedrich.** Beiträge zur kenntniss der lebensweise und verwandlung  
der neuropteren (Micromus variegatus Fabr., Panorpa communis L., Bittacus itali-  
cus Klg. und Bittacus Hagenii Brau . . [Wien, 1871]  
10 p. ii-iii pl. 22 $\frac{1}{2}$ <sup>em</sup>.  
Aus den Verhandlungen d. K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1871> beson-  
ders abgedruckt.
- Brauer, Friedrich.** Ueber zwei neue von Prof. D. Bilimek in Mexico entdeckte  
insekten . . . [Wien, 1871]  
4 p. pl. 22 $\frac{1}{2}$ <sup>em</sup>.  
Aus den Verhandlungen der K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1871> beson-  
ders abgedruckt.
- Dufour, Léon.** Recherches anatomiques. See under Orthoptera, p. 276.
- Hagen, Hermann August.** . . . On the larvæ of the Hemerobina . . [Bos-  
ton, 1872]  
[243]-248 p. 22<sup>em</sup>.  
From the Proceedings of the Boston society of natural history, vol. xv, Oct. 23, 1872.
- Hagen, Hermann August.** Ueber die neuropteren der Bernsteinfauna . . .  
[Wien, 1854]  
12 p. 23<sup>em</sup>.  
Aus den Schriften des Zoologisch-botanischen vereins 1854.



**Needham, James George.** . . . Directions for collecting and rearing dragon flies, stone flies, and may flies. By James G. Needham . . . Washington, Gov't print. off., 1899.

9 p. illus. 24 $\frac{1}{2}$ cm.

Pt. O of Bulletin of the United States national museum, no. 39.

**Rambur, J. Pierre.** Histoire naturelle des insectes. Névroptères. Par M. P. Rambur . . . Ouvrage accompagné de planches. Paris, Librairie encyclopédique de Roret, 1842.

2 p. l., xvi, 534 p. 12 pl. (11 col.) 22cm.

"Table alphabétique des auteurs cités dans cet ouvrage": p. [517]-518.

[**Walker, Francis**] Catalogue of the specimens of neuropterous insects in the collection of the British museum . . . London, Printed by order of the trustees, 1852-53. 4 pts. 18cm.

Pt. II-IV have title: List of the specimens of neuropterous insects in the collection of the British museum.

CONTENTS.—pt. I. Phryganides-Perlides.—pt. II. Sialidæ-Nemopterides.—pt. III. Termitidæ-Ephemeridæ.—pt. IV. Odonata.

## FAUNA.

### UNITED STATES.

**Banks, Nathan.** Neuropteroid insects of the expedition . . . [Washington, 1900]

155-168 p. XI-XII pl. 26 $\frac{1}{2}$ cm. [Papers from the Harriman Alaska expedition. x. Entomological results (4)]

"Originally published in the Proceedings of the Washington academy of sciences, vol. II, p. 465-476, Dec. 20, 1900."

**Hagen, Hermann August.** . . . Report on the Pseudoneuroptera and Neuroptera of North America in the collection of the late Th. W. Harris . . . [Boston, 1873]

[263]-301 p. 23cm.

From the Proceedings of the Boston society of natural history, vol. xv, Jan. 22, 1873.

**Hagen, Hermann August.** . . . Synopsis of the Neuroptera of North America. With a list of the South American species. Prepared for the Smithsonian institution by Hermann Hagen. Washington, Smithsonian institution, 1861.

xx, 347 p. 24cm. (Smithsonian miscellaneous collections. [vol. iv])

"Authorities": p. [xi]-xvii.

**Packard, Alpheus Spring.** New or rare American Neuroptera, Thysanura and Myriapoda . . . [Boston, 1870]

405-411 p. illus. 23 $\frac{1}{2}$ cm.

From the Proceedings of the Boston society of natural history, vol. XIII, 1871.

**Uhler, Philip Reese.** . . . Contributions to the neuropterology of the United States . . . [Philadelphia, 1857]

no. 1. 22 $\frac{1}{2}$ cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, March, 1857, p. 87-88.

**Walsh, Benjamin Dann.** . . . List of the Pseudoneuroptera of Illinois contained in the cabinet of the writer, with descriptions of over forty new species, and notes on their structural affinities . . . [Philadelphia, 1862]

361-402 p. 24 $\frac{1}{2}$ cm.

From the Proceedings of the Academy of natural sciences of Philadelphia, Sept. 1862.

### FOREIGN.

**Banks, Nathan.** Some Mexican Neuroptera . . . [San Francisco, 1895]

[615]-522 p. 26 $\frac{1}{2}$ cm.

Extract from Proc. Cal. acad. sci., ser. 2, vol. v.

**Biologia centrali-americana.** Insecta. Neuroptera . . . [London, Pub. for the editors by R. H. Porter, 1892-1905]

1-196 p. 8 pl. (3 col.) 32cm.

By A. E. Eaton and P. P. Calvert.

Issued in parts.

Cover-titles: *Biologia centrali-americana*; or, Contributions to the knowledge of the flora and fauna of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1903, ed. by F. Ducane Godman.

**Froggatt, Walter Wilson.** . . . Notes on Australian Neuroptera and their life-histories . . . [Sydney, 1902]

[1], 358-369 p. 22<sup>cm</sup>.

From the Proceedings of the Linnean society of New South Wales, 1902, pt. 3, August 27th.

**Hudson, George Vernon.** New Zealand Neuroptera. A popular introduction to the life-histories and habits of may-flies, dragon-flies, caddis-flies, and allied insects inhabiting New Zealand, including notes on their relation to angling . . . By G. V. Hudson . . . London, West, Newman & co., 1904. Agr 5-158

viii p., 1 l., 102 p., 12 l. xi col. pl. 22½cm.

**Jakobson, Georg Georg.** Прямокрылья и ложнощитчатокрылья. *See under* Orthoptera, p. 281.

**Kirby, William Forsell.** . . . List of the Neuroptera collected by Mr. E. E. Austen on the Amazons, etc., during the recent expeditions of Messrs. Siemens bros. cable S. S. "Faraday," with descriptions of several new species of Odonata (dragon-flies) . . . [London, 1897]

598-617 p. xii-xiii pl. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 6, vol. xix, June, 1897.

**Mabille, Jules.** Névroptères, par M. Jules Mabille. [Paris, 1888] Agr 3-1256  
9 p. col. pl. 28<sup>cm</sup>. (Ministères de la marine et de l'instruction publique. Mission scientifique du Cap Horn. 1882-1883. Tome vi. Zoologie. Insectes)

Caption title.

**McLachlan, Robert.** A catalogue of British Neuroptera. Comp. by Robert McLachlan . . . The Ephemerae by the Rev. A. E. Eaton, v. a. Pub. by the Entomological society of London. (Being part of a proposed general catalogue of the insects of the British Isles) London, Printed for the society, 1870. Agr 5-171

viii, 42 p. 22<sup>cm</sup>.

**McLachlan, Robert.** . . . The Neuroptera of Madeira and the Canary Islands . . . [London, 1882]

[149]-183 p. 22½<sup>cm</sup>.

Literature: p. 150-154.

Extracted from the Linnean society's Journal—zoology, vol. xvi.

**Pictet, A. Édouard.** Synopsis des névroptères d'Espagne, par A. -Édouard Pictet. Genève, H. Georg; [etc., etc.] 1865. Agr 5-226

2 p. l., 123 p. 14 col. pl. 27½<sup>cm</sup>.

"Auteurs cités dans cet ouvrage": p. 7-8.

**Rostock, M.** Neuroptera germanica. Die netzflügler Deutschlands mit berücksichtigung auch einiger ausserdeutschen arten nach der analytischen methode unter mitwirkung von H. Kolbe bearb. von M. Rostock. Zwickau, Druck von R. Zückler, 1888. Agr 5-235

198, [2] p. 10 pl. 22<sup>cm</sup>.

**Schøyen, Wilhelm Maribo.** Fortegnelse over de i Norge hidtil observerede Neuroptera Planipennia og Pseudo-neuroptera . . . Christiania, 1887.

30 p. 28½<sup>cm</sup>. (Christiania videnskabselskabs Forhandling, 1887, no. 13)

**Tümpel, R.** Die geradflügler Mitteleuropas. *See under* Orthoptera, p. 283.

[White, Adam] List of the specimens of British animals in the collection of the British museum. Pt. xiv. Nomenclature of Neuroptera. London, Printed by order of the trustees, 1853. Agr 3-833

2 p. l., 16 p. 18½<sup>cm</sup>.

## FAMILIES.

## TERMITIDÆ.

- Banks, Nathan.** . . . *Thysanura* and *Termitidæ* . . . Washington, 1901.  
541-546 p. illus. 25<sup>em</sup>. (. . . Papers from the Hopkins Stanford Galapagos expedition, 1898-1899. v. Entomological results (5)  
From *Proceedings of the Washington academy of sciences*, vol. III, p. 541-546.
- Baumann, Eugen.** *Chemische untersuchung von bruchstücken eines von Hrn. Reuleaux aus Australien mitgebrachten ameisen- oder termitennestes* . . . [Berlin, 1882]  
419-424 p. 26 $\frac{1}{2}$ <sup>em</sup>.  
"Sitzungsberichte der Königlich preussischen akademie der wissenschaften zu Berlin. xx. 20. april 1882."
- Dudley, Plimmon Henry.** *Note on Calotermes marginipennis, Latr.* . . . [New York, 1889]  
111-113 p. 23 $\frac{1}{2}$ <sup>em</sup>.  
From *Journal of the New York microscopical society*, v. 5, p. 111-113.
- Dudley, Plimmon Henry.** *The termites of the isthmus of Panama* . . . [New York, 1890]  
102-110 p. 23 $\frac{1}{2}$ <sup>em</sup>.  
From the *Journal of the New York microscopical society*, vol. VI, no. 4.
- Dudley, Plimmon Henry.** *The termites, or so-called "white ants" of the isthmus of Panama* . . . [New York, 1889]  
56-70 p. illus., pl. 23 $\frac{1}{2}$ <sup>em</sup>.  
From *Journal of the New York microscopical society*, vol. v, no. 2.
- Froggatt, Walter Wilson.** . . . *Australian Termitidæ* . . . [Sydney, 1895-97]  
3 pts. 4 pl. 22-22 $\frac{1}{2}$ <sup>em</sup>.  
From the *Proceedings of the Linnean society of New South Wales*, July 31st, 1895; 1896, pt. 4, Oct. 28th; 1897, pt. 4, Nov. 24th.
- Froggatt, Walter Wilson.** . . . *White ants, with some account of their habits and depredations* . . . Sydney, 1897.  
8 p. pl. 24 $\frac{1}{2}$ <sup>em</sup>. (Dept. of agriculture, Sydney, New South Wales. Miscellaneous publication, no. 155)  
"From *Agricultural gazette of N. S. Wales*. May, 1897."
- Hagen, Hermann August.** *Catalogue of the specimens of neuropterous insects in the collection of the British museum. By Dr. H. Hagen. Part I. Termitina.* London, Printed by order of the trustees, 1858. Agr 5-56  
34 p. 18<sup>em</sup>.
- Hagen, Hermann August.** . . . *On a wingless white ant from Japan* . . . [Boston, 1868]  
399-400 p. illus. 24 $\frac{1}{2}$ <sup>em</sup>.  
From the *Proceedings of the Boston society of natural history*, vol. XI, Feb. 26, 1868.
- Hagen, Hermann August.** . . . *Some remarks upon white ants* . . . [Boston, 1878]  
[121]-124 p. 24<sup>em</sup>.  
From the *Proceedings of the Boston society of natural history*, vol. XX, Dec. 27, 1878.
- Hubbard, Henry Guernsey.** . . . *Notes on the tree nests of termites in Jamaica* . . . [Boston, 1877]  
[267]-274 p. 23 $\frac{1}{2}$ <sup>em</sup>.  
From the *Proceedings of the Boston society of natural history*, vol. XIX, Dec. 26, 1877.
- Loir, Adrien.** . . . *Les termites dans les pays tropicaux, leur destruction; par le Dr Adrien Loir* . . . Paris, A. Challamel, 1903. Agr 3-1236  
15 p. illus. 25<sup>em</sup>.  
At head of title: *Ministère des colonies. Ecole nationale supérieure d'agriculture coloniale. Cours d'hygiène coloniale.*  
Extrait de: *L'agriculture pratique des pays chauds.*

- Marlatt, Charles Lester.** White ant. Washington, 1902.  
8 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 50)
- Porter, James Foster.** . . . Trichonympha, and other parasites of *Termes flavipes*. By James F. Porter . . . Cambridge, Mass., The museum, 1897. Agr 5—70  
1 p. l., [47]—68 p., 6 l. 6 pl. (1 fold.) 24<sup>cm</sup>. (Bulletin of the Museum of comparative zoology at Harvard college. vol. xxxi, no. 3)  
“Papers cited”: p. 67.
- Silvestri, Filippo.** . . . Contribuzione alla conoscenza dei termitidi e termitofili dell' America meridionale. Portici, Premiato stab. tip. Vesuviano, 1903.  
234 p. illus., 6 fold. pl. 25<sup>cm</sup>. (“Redia” giornale di entomologia, v. 1, 1903) Agr 4—342
- Stokes, Alfred C.** The sense-organs on the legs of our white ants, *Termes flavipes*, Koll. . . . [New York, 1893]  
273—276 p. 27<sup>1</sup>/<sub>2</sub> x 22<sup>1</sup>/<sub>2</sub><sup>cm</sup>.  
From Science, v. 22.
- . . . **Termes taprobanes.** (White-ants.) <Dictionary of economic products, vol. vi., pt. 1, p. 434> White-ants as a pest of agriculture. A note by the settlement officer of Balaghat, Central Provinces, prefixed by certain passages, reprinted from the Indian museum notes, on termites in relation to crops, etc. . . . Calcutta, 1898.  
5 p. 25<sup>cm</sup>. (The agricultural ledger, 1897—no. 18)
- Townsend, Charles Henry Tyler.** . . . Note on *Termopsis angusticollis* Hagen . . . [San Francisco, 1893]  
139—141 p. 22<sup>cm</sup>.  
Extract from Zoe, vol. iv, no. 2.

## TERMITOPHILOUS INSECTS.

- Berg, Carlos.** . . . Termitariophilie . . . [Buenos Aires, 1900]  
[212]—215 p. 24<sup>cm</sup>.  
Comunicaciones del Museo nacional de Buenos Aires. T. I. n.º 6. Ps. 212 & 215. 23 de mayo de 1900.
- Wasmann, Eric.** Die ameisen- und termitengäste von Brasilien. *See under* Myrmecophilous insects, p. 172.
- Wasmann, Eric.** Os hospedes das formigas e dos termites. *See under* Myrmecophilous insects, p. 173.
- Wasmann, Eric.** Neue termitophilen, mit einer uebersicht über die termitengäste . . . [Wien, 1891]  
13 p. pl. 22<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1891> besonders abgedruckt.
- Wasmann, Eric.** Zur kenntniss der myrmekophilen arthropoden. *See under* Myrmecophilous insects, p. 173.

## EMBIIDÆ.

- Hagen, Hermann August.** Psocinorum et embidinorum synopsis synonymica . . . [Wien, 1866]  
22 p. 22<sup>cm</sup>.  
Aus den Verhandlungen d. K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1866> besonders abgedruckt.
- McLachlan, Robert.** . . . On the nymph-stage of the Embidæ, with notes on the habits of the family, etc. . . . [London, 1877]  
[373]—384 p. pl. 21<sup>cm</sup>.  
Extracted from the Linnean society's journal—Zoology, vol. XIII.
- Mason, James Wood.** A contribution to our knowledge of the Embidæ, a family of orthopterous insects . . . [London] 1883.  
8 p. pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, December 1, 1883, p. 628—634.

**Westwood, John Obadiah.** . . . Characters of Embia, a genus of insects allied to the white ants (Termites); with descriptions of the species of which it is composed . . . [London, 1837]  
369-374 p. pl. 27½<sup>cm</sup>.  
From the Transactions of the Linnean society, vol. xvii.

## PSOCIDÆ.

**Burgess, Edward.** The anatomy of the head, and the structure of the maxilla in the Psocidæ . . . [Boston, 1878]  
291-296 p. pl. 23<sup>cm</sup>.  
From the Proceedings of the Boston society of natural history, vol. xix, Jan. 23, 1878.

**Giard, Alfred.** . . . Sur un exemplaire chilien de Pterodela pedicularia L. à nervation doublement anormale . . . [Santiago, 1895]  
[19]-21 p. illus. 27½<sup>cm</sup>.  
Extrait des Actes de la Société scientifique du Chili, t. v (1895), 1. livraison.

**Hagen, Hermann August.** Psocinorum et embidinorum synopsis synonymica. See under Embiidæ, p. 428.

## PERLIDÆ.

**Pictet, François Jules.** Histoire naturelle générale et particulière des insectes névroptères, par F.-J. Pictet . . . Famille des perlides. Genève, J. Kessmann; [etc., etc.] 1841.  
2 p. l., xiii p., 1 l., 32 p. 25<sup>cm</sup>.  
Cover title reads: Histoire naturelle générale et particulière des insectes névroptères, par F.-J. Pictet . . . 1<sup>re</sup> monographie: famille des perlides. 1<sup>er</sup> livraison.

## EPHEMERIDÆ.

**Eaton, Alfred Edwin.** La famille des éphémérides par le Rév. A. E. Eaton. Tr. de l'anglais par le docteur Émile Joly . . . Nîmes, Impr. Clavel-Ballivet, 1886.  
15 p. 30<sup>cm</sup>.  
"Extrait du Bulletin de la Société d'étude des sciences naturelles de Nîmes. 4<sup>e</sup> année. juillet-septembre 1876. N<sup>o</sup>. 3.

**Eaton, Alfred Edwin.** . . . A revisional monograph of recent Ephemeridæ or mayflies . . . By the Rev. A. E. Eaton . . . [London, Printed for the Linnean society by Taylor and Francis, 1883-85]  
281 p. 63 pl. 30½<sup>cm</sup>. (Transactions of the Linnean society of London, 2nd ser. Zoology, vol. lxx)  
Caption title.

**Hagen, Hermann August.** On Lachlania abnormis, a new genus and species from Cuba belonging to the Ephemerina . . . [Boston, 1868]  
372-374 p. illus. 24<sup>cm</sup>.  
From the Proceedings of the Boston society of natural history, vol. xi, January 22, 1868.

**Imhoff, Ludwig.** Sur une nouvelle espèce du genre d'éphémérides. Oligoneuria (O. rhenana) par feu le docteur L. Imhoff; tr. de l'allemand et annoté par le docteur Émile Joly . . . Angers, 1876.  
1 p. l., 10 p. front. 21½<sup>cm</sup>.  
"Extrait du Bulletin de la Société d'études scientifiques d'Angers (4. et 5. années, 1874-1875, p. 37-46 . . . 1876)"  
Original in Bericht ueber die verhandlungen der Naturforschenden gesellschaft in Basel, t. x, 1852.

**Joly, Émile, i. e. Marie Auguste Émile.** Contributions pour servir à l'histoire naturelle des éphémérides . . . Toulouse, 1871-[72]  
no. 1-3. 2 pl., fold. tab. 22-23<sup>cm</sup>.  
No. 1, "Extrait du Bulletin de la Société d'histoire naturelle de Toulouse, t. iv, p. 142."  
No. 2-3, "Extrait des Mémoires de la Société nationale des sciences naturelles de Cherbourg [t. xvi]"

**Joly, Émile, i. e. Marie Auguste Émile.** . . . Les premiers états du genre *Oligoneuria* sont connus. Note lue à la Société d'étude des sciences naturelles de Nîmes, dans sa séance du vendredi 19 octobre 1877 . . . Nîmes, 1878.

8 p. pl. 21<sup>cm</sup>.

Extrait du Bulletin de la Société d'étude des sciences naturelles de Nîmes (6. année. avril 1878. n° 4)

**Joly, Émile, i. e. Marie Auguste Émile.** Sur le *Prosopistoma*. [Paris, 1876]

[3] p. pl. 23<sup>cm</sup>.

"Extrait de la Feuille des jeunes naturalistes [6. année]"

**Joly, Émile, i. e. Marie Auguste Émile.** Sur le *Prosopistoma punctifrons*, Latr.; par MM. É. Joly et A. Vayssière. [Paris, 1878]

3 p. 28 x 22½<sup>cm</sup>.

From Comptes rendus de l'Académie des sciences, t. 87, p. 263-265.

**Joly, Nicolas.** Contributions à l'histoire naturelle et à l'anatomie des éphémères; par le D<sup>r</sup> N. Joly . . . et É. Joly . . . [Montpellier, 1876]

26 p. 2 double pl. 23<sup>cm</sup>.

"Extrait de la Revue des sciences naturelles. (T. v, décembre 1876)"

**Joly, Nicolas.** Les éphémères . . . [Paris, 1876]

10-15, 43-47 p. illus. 30<sup>cm</sup>.

From *La nature*, 4. année, 1876, 2. semestre.

**Joly, Nicolas.** . . . Études sur l'embryogénie des éphémères, notamment chez la *Palingenia virgo* . . . [Toulouse, 1876?]

12 p. II pl. 23<sup>cm</sup>.

Extrait des Mémoires de l'Académie des sciences, inscriptions & belles-lettres de Toulouse.

**Joly, Nicolas.** Note sur un nouveau cas d'hypermétamorphose constaté chez le *Palingenia virgo* à l'état de larve . . . [Paris, 1871]

5 p. 25<sup>cm</sup>.

From *Annales des sciences naturelles, zoologie*, v. 15, octobre 1871.

**Joly, Nicolas.** Nouvelles recherches tendant à établir que le prétendu crustacé décrit par Latreille sous le nom de *Prosopistoma* est un véritable insecte de la tribu des éphémères, par le professeur N. Joly . . . [et] le docteur É. Joly . . . Montpellier, 1875.

15, [1] p. pl. 23<sup>cm</sup>.

Extrait de la Revue des sciences naturelles, t. iv., juin 1875.

**Joly, Nicolas.** . . . Sur l'hypermétamorphose de la *Palingenia virgo* à l'état de larve; analogies de cette larve avec les crustacés . . . [Toulouse, 187-]

8 p. pl. 23<sup>cm</sup>.

Extrait des Mémoires de l'Académie des sciences de Toulouse, 7. sér., t. III, p. 379-386.

**Williamson, Hugh.** . . . On the *Ephoron leukon*, usually called the white flag of Passaick river . . . [Philadelphia, 1802]

71-73 p. 24<sup>cm</sup>.

From *Transactions of the American philosophical society*, v. 5.

#### ODONATA.

**Cabot, Louis.** . . . The immature state of the Odonata . . . By Louis Cabot. Cambridge, Printed for the Museum of comparative zoölogy, 1872-90.

3 pts. 14 pl. 29½<sup>cm</sup>.

Pt. I is Illustrated catalogue of the Museum of comparative zoölogy, at Harvard college. No. v.

Pt. II-III are Memoirs of the Museum of comparative zoölogy at Harvard college. Vol. VIII. No. 1; vol. XVII. no. 1.

CONTENTS.—pt. I. Subfamily Gomphina. 1872.—pt. II. Subfamily Aeschnina. 1881.—pt. III. Subfamily Cordulina. 1890.

**Calvert, Philip Powell.** . . . A contribution to knowledge of the Odonata of Paraguay . . . Buenos Aires, 1899.

[25]-35 p. illus. 26½<sup>cm</sup>.

From *Anales del Museo nacional de Buenos Aires*. tomo VII, p. 25 & 35.

- Calvert, Philip Powell.** . . . East African Odonata, collected by Doctor W. L. Abbott. By Philip Powell Calvert . . . Washington, Govt. print. off., 1895.  
cover-title, 121-142 p. illus. 24 $\frac{1}{2}$ cm.  
From the Proceedings of the United States national museum, vol. xviii, p. 121-142 <no. 1046>
- Calvert, Philip Powell.** Neuropterous insects collected by Dr. A. Donaldson Smith in northeastern Africa . . . [Philadelphia, 1899]  
228-244 p. pl. 24 $\frac{1}{2}$ cm.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1899.
- Calvert, Philip Powell.** Notes on the Odonata from East Africa, collected by the Chanler expedition . . . [Washington, 1895]  
143-145 p. 24cm.  
From the Proceedings of the United States national museum, vol. xviii—no. 1647.
- Calvert, Philip Powell.** Odonata (dragonflies) from the Indian Ocean, and from Kashmir, collected by Dr. W. L. Abbott . . . [Philadelphia, 1898]  
141-154 p. illus. 24cm.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1898.
- Calvert, Philip Powell.** . . . Odonata from Tepic, Mexico, with supplementary notes on those of Baja California. By Philip P. Calvert . . . San Francisco, The Academy, 1899. Agr 5—140  
1 p. l., 371-418 p. pl. 25 $\frac{1}{2}$ cm. (Proceedings of the California academy of sciences. 3d. ser.—Zoölogy. vol. I, no. 12)
- Calvert, Philip Powell.** The Odonata of Baja California, Mexico . . . [San Francisco, 1895]  
[463]-558 p. xv-xvii pl. 24 $\frac{1}{2}$ cm.  
Extract from Proc. Cal. acad. sci., ser. 2, vol. iv.
- Calvert, Philip Powell.** . . . The odonate genus *Macrothemis* and its allies . . . Boston, 1898.  
[301]-332 p., 2 l. 2 pl. 24 $\frac{1}{2}$ cm.  
From Proceedings of the Boston society of natural history. vol. 28, no. 12, p. 301-332.
- Calvert, Philip Powell.** The odonate genus *Ortholestes* . . . [Philadelphia, 1893]  
377-382 p. illus. 24 $\frac{1}{2}$ cm.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1893.
- Calvert, Philip Powell.** On the odonate *Aeschna rileyi* . . . [Genova, 1896]  
2 p. 25cm.  
"Estratto dagli Annali del Museo civico di storia naturale di Genova, ser. 2, vol. xvi (xxxvi) 27 giugno 1896.
- Calvert, Philip Powell.** Order Odonata . . . [Trenton, N. J., 1900]  
10 p. 23cm.  
"Extract from a list of the 'Insects of New Jersey,' printed as a supplement to the 27th Annual report of the New Jersey state board of agriculture, pp. 66 to 75, inclusive. January, 1900."
- Calvert, Philip Powell.** Parallelisms in structure between certain genera of Odonata from the old and the new worlds . . . [Philadelphia, 1899]  
245-253 p. 24 $\frac{1}{2}$ cm.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1899.
- Carpenter, George Herbert.** A contribution toward a list of the dragonflies of Jamaica . . . Kingston, 1896.  
1 p. l., [259]-263 p. 25 $\frac{1}{2}$ cm.  
"References": p. 263.  
From the Journal of the Institute of Jamaica, vol. II, pt. 3, July 1896.
- Carpenter, George Herbert.** . . . The geographical distribution of dragonflies . . . [Dublin] 1897.  
439-468 p. fold map. 21cm.  
"From Scientific proceedings of the Royal Dublin society, vol. viii (n. s.), pt. v, no. 55."
- Carpenter, George Herbert.** . . . On some dragonflies in the Dublin museum of science and art . . . [Dublin] 1897.  
434-438 p. pl. 22cm.  
"From Scientific proceedings of the Royal Dublin society, vol. viii (n. s.)/ pt. v, no. 54."

**Currie, Rolla Patteson.** Odonata of the expedition . . . [Washington, 1901] 145-153 p. 26 $\frac{1}{2}$ cm. [Papers from the Harriman Alaska expedition. xxii. Entomological results (14) "Originally published in the Proceedings of the Washington academy of sciences, vol. iii, p. 217-223, July 13, 1901."]

**Dragon flies vs. mosquitoes.** See under Culicidae, p. 255.

[**Giard, Alfred**] La ponte des libellules du genre Lestes. [Paris, 1903] . 3 p. 26 $\frac{1}{2}$ cm.

"Extrait de la Feuille des jeunes naturalistes (pp. 189-192) [iv. sér., 33. année, n<sup>o</sup> 394 et 395]

**Hagen, Hermann August.** . . . Illustrations of Odonata: -Argia. By Hermann A. Hagen. With a list and bibliography of the species by Philip P. Calvert . . . Cambridge, Mass., The museum, 1902.

1 p. l., [103]-120 p. 2 pl. 24 $\frac{1}{4}$ cm. (Bulletin of the Museum of comparative zoology at Harvard college. vol. xxxix. no. 4)

**Hagen, Hermann August** . . . Notes on Mr. S. H. Scudder's "Odonata of the Isle of Pines" . . . [Boston, 1873]

4 p. 22 $\frac{1}{2}$ cm.

From the Proceedings of the Boston society of natural history, vol. xv, pp. 373-377, March 26, 1873.

**Hagen, Hermann August.** Notizen beim studium von Brauer's Novara-neurop-teren . . . [Wien, 1867]

32 p. 22 $\frac{1}{4}$ cm.

Aus den Verhandlungen d. K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1867> beson- ders abgedruckt.

**Hagen, Hermann August** . . . The odonat-fauna of the island of Cuba . . . [Boston, 1867]

[289]-294 p. 24 $\frac{1}{2}$ cm.

From the Proceedings of the Boston society of natural history, vol. xi, Sept. 25, 1867.

**Ingenitskii, Ivan Vladimirovich.** . . . Къ фаунѣ и организации стрекозъ (Odonata) Привислянскаго края. И. Ингеницкаго. Варшава, Типографія Варшавскаго учебнаго округа, 1893. Agr 5-159

1 p. l., 37, 1 p. pl. 23 $\frac{1}{2}$ cm.

At head of title: Изъ Зоологической лабораторіи Варшавскаго университета.

On the fauna and organization of the dragon flies of the basin of the Vistula.

**Kellicott, David Simons** Catalogue of the Odonata of Ohio . . . [Cincinnati, 1895-97]

pt. 1, 3. 23 $\frac{1}{4}$ -24 $\frac{1}{2}$ cm.

Reprint from Journal of the Cincinnati society of natural history, Jan., 1895, vol. xvii, p. 195-216; March, 1897, vol. xix, p. 66-71.

**Kellicott, David Simons** . . . The Odonata of Ohio. A descriptive catalogue of the dragonflies known in Ohio, with keys for their determination. A posthumous paper by David S. Kellicott . . . Wooster, O., Academy of science, 1899.

Agr 5-40

vii, [1] p., 1 l., 114, [2] p. 3 pl., port. 23 $\frac{1}{4}$ cm. (Ohio state academy of science. Special papers no. 2)

Bibliography of author: p. v-vii, [1]

**Kellicott, David Simons.** . . . An odonate nymph from a thermal spring . . . [Cincinnati, 1897]

63-65 p. illus. 24 $\frac{1}{2}$ cm.

From Journal of the Cincinnati society of natural history, March, 1897, vol. xix.

**Kennedy, Clarence Hamilton.** A list of the dragonflies of Winona Lake . . . [Bloomington, Ind., 1903]

67-72 p. 18 $\frac{1}{4}$ cm.

From Indiana university bulletin, vol. i, no. 4.

**Kennedy, Clarence Hamilton.** A new diagnostic character for the species of the genus Argia . . . [Bloomington, Ind., 1903]

72-78 p. illus. 18 $\frac{1}{4}$ cm.

From Indiana university bulletin, vol. i, no. 4.



- Kirby, William Forsell.** . . . Catalogue of the described Neuroptera Odonata (dragonflies) of Ceylon, with descriptions of new species . . . [London] 1894.  
[545]-566 p. 41-42 pl. 22<sup>cm</sup>.  
Extracted from the Linnean society's journal—Zoology, vol. xxiv.
- Kirby, William Forsell.** . . . Description of a new genus of Odonata . . . London, 1898.  
[346]-348 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. II, October, 1898.
- Kirby, William Forsell.** . . . On a collection of Odonata (dragonflies) from Panama . . . [London] 1899.  
[362]-371 p. pl. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. III, May, 1899.
- Kirby, William Forsell.** On a small collection of Odonata (dragonflies) from Hainan, collected by the late John Whitehead . . . London, 1900.  
[530]-539 p. pl. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. v, June, 1900.
- Kirby, William Forsell.** . . . On some Neuroptera Odonata (dragonflies) collected by Mr. E. E. Green in Ceylon . . . [London] 1891.  
203-206 p. pl. 22½<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, March 17, 1891.
- Kirby, William Forsell.** . . . On the species which have been included in *Zygonyx*, Hagen and De Selys . . . [London] 1900.  
[539]-542 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. v, June, 1900.
- Kirby, William Forsell.** . . . Report on the Neuroptera Odonata collected by Mr. E. E. Austen at Sierra Leone during August and September, 1899 . . . [London] 1900.  
[67]-79 p. illus., pl. 22½<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. vi, July, 1900.
- Kirby, William Forsell.** A synonymic catalogue of Neuroptera Odonata, or dragonflies. With an appendix of fossil species. By W. F. Kirby . . . London, Gurney & Jackson; [etc., etc.] 1890.  
ix, 202 p. 24<sup>cm</sup>.
- Kohaut, Rezső.** A magyarországi szitakötő-félék természetrajza. (Libellulidæ auct., Odonata Fabr.) A Kir. magyar természettudományi társulat megbízásából, írta Kohaut Rezső . . . Három tábla rajzzal. Budapest, Kiadja a K. M. Természettudományi társulat, 1896.  
78, [6] p. III pl. (2 col.) 31¼<sup>cm</sup>.  
"Bevezetés és irodalom": p. [7]-8.
- Lucas, W. J.** British dragonflies (Odonata). By W. J. Lucas . . . London, L. U. Gill, 1900.  
xiv, 356 p. illus., xxvii col. pl. 23<sup>cm</sup>.  
"Works referred to under contracted titles": p. [334]-336.
- Martin, René.** Odonates indo-océaniens des collections du Muséum . . . [Paris, 1902]  
7 p. 23<sup>cm</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle.—1902, n° 7, p. 506.
- Needham, James George.** The digestive epithelium of dragonfly nymphs . . . [Boston, 1897]  
[103]-113 p. illus. 24<sup>cm</sup>.  
"Reprint from Zoological bulletin, vol. I, no. 2."
- Needham, James George.** . . . The dragon-flies (Odonata) of Illinois . . . by James G. Needham and Charles A. Hart. Champaign and Urbana, 1901.  
pt. I. pl. 25<sup>cm</sup>.  
"Literature": pt. I, p. 90-94.  
CONTENTS.—pt. I. Petaluridæ, *Æschnidæ*, and Gomphidæ.

- Needham, James George.** . . . A genealogic study of dragon-fly wing venation. By James G. Needham . . . Washington, Gov't print. off., 1903. Agr 5-68  
1 p. l., 703-764 p. illus., XXXI-LIV pl. 24<sup>cm</sup>.  
From the Proceedings of the United States national museum, vol. xxvi, p. 703-764 . . . <no. 1331>
- Needham, James George.** . . . New dragon-fly nymphs in the United States national museum. By James G. Needham . . . Washington, Gov't print. off., 1904. Agr 5-69  
1 p. l., 685-720 p. illus., XXXVIII-XLIV pl. 25<sup>cm</sup>.  
From the Proceedings of the United States national museum, vol. xxvii, p. 685-720 . . . <no. 1371>
- Oustalet, Émile.** Note sur la respiration chez les nymphes des libellules . . . [Paris, 1869]  
[370]-386 p. 10-12 pl. 25½<sup>cm</sup>.  
From Annales des sciences naturelles, zoologie, 5. sér., t. xi.
- Packard, Alpheus Spring.** . . . On the développement of a dragon-fly (*Diplax*) . . . [Boston, 1868]  
[365]-372 p. illus. 24<sup>cm</sup>.  
From the Proceedings of the Boston society of natural history, vol. xi, January 22, 1868.
- Preudhomme de Borre, Alfred, i. e. Carl Franz Paul Alfred.** Répertoire alphabétique des noms spécifiques admis ou proposés dans la sous-famille des libellulines, avec indications bibliographiques, iconographiques et géographiques, par Alfred Preudhomme de Borre . . . [Bruxelles, F. Hayez, 1889] Agr 5-66  
38 p. 24<sup>cm</sup>.
- Scudder, Samuel Hubbard.** Notes on some Odonata from the White Mountains of New Hampshire . . . [Boston, 1866]  
211-222 p. 24<sup>cm</sup>.  
From Proceedings of the Boston society of natural history, vol. x.
- Scudder, Samuel Hubbard.** Notes upon some Odonata from the Isle of Pines . . . [Boston, 1866]  
187-198 p. 24<sup>cm</sup>.  
From Proceedings of the Boston society of natural history, vol. x.
- [Selys-Longchamps, Michel Edmond, baron de]** . . . Additions à deux notices sur les libellulidées, insérées précédemment dans les Bulletins de l'Académie. [Bruxelles, 1840]  
12 p. pl. 21½<sup>cm</sup>.  
Académie royale de Bruxelles. (Extrait du t. vii, n° 8, des Bulletins)
- Selys-Longchamps, Michel Edmond, baron de.** . . . Description de deux nouvelles espèces d'*Æshna* du sous-genre *Anax* (Leach.) . . . [Bruxelles, 1839]  
8 p. pl. 20½<sup>cm</sup>.  
Académie royale de Bruxelles. (Extrait du t. vi, n° 10, des Bulletins)
- Selys-Longchamps, Michel Edmond, baron de.** . . . Énumération des libellulidées de la Belgique . . . [Bruxelles, 1840]  
12 p. 20½<sup>cm</sup>.  
Académie royale de Bruxelles. (Extrait du t. vii, n° 1, des Bulletins)
- Selys-Longchamps, Michel Edmond, baron de.** . . . Liste des libellules d'Europe et diagnose de quatre espèces nouvelles . . . [Paris, 1848]  
4 p. 22<sup>cm</sup>.  
Extrait de la Revue zoologique, par la Société cuvierienne. 11. année.—Janvier 1848.
- Selys-Longchamps, Michel Edmond, baron de.** Monographie des caloptérygines, par Edm. de Selys Longchamps . . . avec la collaboration de M. le docteur H. A. Hagen . . . Bruxelles et Leipzig, C. Muquardt; [etc., etc.] 1854.  
xi, 291 p. 14 pl. 23<sup>cm</sup>.
- Selys-Longchamps, Michel Edmond, baron de.** Monographie des gomphines par Edm. de Selys Longchamps . . . avec la collaboration de M. le docteur H. A. Hagen . . . Bruxelles, C. Muquardt; [etc., etc.] 1857.  
viii, 460 p. 23 pl., 5 fold. tab. 23<sup>cm</sup>.  
"Auteurs cités": p. [434]-436.

**Selys-Longchamps, Michel Edmond, baron de.** . . . Nouvelles additions aux libellulidées de la Belgique, de 1840 à 1843 . . . [Bruxelles, 1843]

14 p. pl. 21<sup>cm</sup>.

Académie royale de Bruxelles. (Extrait du t. x, n° 8, des Bulletins)

Suite aux notices pub. dans les Bulletins, t. vi, n° 10; t. vii, n° 1 et n° 8.

**Selys-Longchamps, Michel Edmond, baron de.** . . . Nouvelles libellulidées d'Europe . . . [Paris, 1841]

4 p. 23<sup>cm</sup>.

Extrait de la Revue zoologique, par la Société cuvierienne. 4. année.—Août, 1841.

**Selys-Longchamps, Michel Edmond, baron de.** Odonates recueillis à Madagascar, aux îles Mascareignes et Comores déterminés et décrits, M. le b<sup>on</sup>. de Sélus Longchamps . . . [Leyde, 1869]

11 p. pl. 29½<sup>cm</sup>.

From Recherches sur la faune de Madagascar et de ses dépendances, d'après les découvertes de F. P. L. Pollen et D. C. van Dam. Pt. v, livr. 1. Insectes.

**Selys-Longchamps, Michel Edmond, baron de.** Synopsis des agrionines . . . [Bruxelles, 1860-65]

6 pts. 21<sup>cm</sup>.

"Extrait des Bulletins de l'Académie royale de Belgique, 2. sér., t. x, n° 6, 9 et 10; t. xiii, n° 4; t. xiv, n° 6; t. xvi, n° 8; t. xx, n° 8."

CONTENTS.—1. légion. Pseudostigmata. 1860.—Dernière [!] légion. Protonevra. 1860.—2. légion. Lestès. 1862.—3. légion. Podagrion. 1862.—4. légion. Platycnemis. 1863.—5. légion. Agrion. 1865.

**Selys-Longchamps, Michel Edmond, baron de.** Synopsis des caloptérygines . . . [Bruxelles, 1853]

73 p. 21¼<sup>cm</sup>.

From Bulletins de l'Académie royale de Belgique, Annexe, 1853.

— — — Additions . . . [Bruxelles, 1859]

16 p. 20½<sup>cm</sup>.

"Extrait des Bulletins de l'Académie royale de Belgique, 2. sér., t. vii, n° 7.

**Selys-Longchamps, Michel Edmond, baron de.** Synopsis des gomphines . . . [Bruxelles, 1854]

93 p. 21¼<sup>cm</sup>.

From Bulletins de l'Académie royale de Belgique, 1854.

— — — Additions. [Bruxelles, 1859]

26 p. 21<sup>cm</sup>.

"Extrait des Bulletins de l'Académie royale de Belgique, 2. sér., t. vii, n° 8."

**Trybom, Filip.** . . . Trollsländor (odonater), insamlade under svenska expeditionen till Jenisei 1876 . . . Stockholm, 1889.

21 p. pl. 21¼<sup>cm</sup>. (Bihang till K. Svenska vet.-akad. Handlingar. bd. 15. afd. iv. n:o 4)

**Uhler, Philip Reese.** Some remarks upon the Odonata of Hayti . . . [Boston, 1867]

295-298 p. 24½<sup>cm</sup>.

"From the Proceedings of the Boston society of natural history, vol. xi., September 25, 1867."

**Williamson, Edward Bruce.** The dragonflies (Odonata) of Burma and lower Siam.—i. Subfamily Calopteryginæ . . . Washington, 1904.

165-187 p. illus. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxviii, p. 165-187 <no. 1389>

#### SIALIDÆ.

**Dugès, Alfred.** . . . Métamorphoses d'une Corydalis . . . [Paris, 1885]

3 p. illus. 23¼<sup>cm</sup>.

Extrait du Bulletin de la Société zoologique de France, t. x, 1885.

**Haldeman, Samuel Stehman.** . . . History and transformations of *Corydalis cornutus* . . . (Communicated to the Academy, November 8th, 1848) [Boston and Cambridge, 1848]

[157]-161 p. pl. 30<sup>cm</sup>.

From the Memoirs of the American academy of arts and sciences. new ser. vol. iv. 1849.

**Leidy, Joseph.** . . . Internal anatomy of *Corydalus cornutus* in its three stages of existence. By Joseph Leidy . . . (Communicated to the Academy, November 8th, 1848) [Boston and Cambridge, 1848]

[162]-168 p. 2-3 pl. 30<sup>em</sup>.

From the Memoirs of the American academy of arts and sciences. new ser. vol. iv. 1849.

**McLachlan, Robert.** . . . Considerations on the neuropterous genus *Chauliodes* and its allies; with notes and descriptions . . . [London, 1869]

[35]-46 p. 22<sup>em</sup>.

From the Annals and mag. of nat. hist. for July 1869.

**Mason, James Wood.** Description of an Asiatic species of the neuropterous genus *Corydalis* . . . [London, 1884]

[1] p. pl. 22<sup>em</sup>.

From the Proceedings of the Zoological society of London, February 19, 1884.

**Riley, Charles Valentine.** On the curious egg mass of *Corydalus cornutus* (Linn.) and on the eggs that have hitherto been referred to that species . . . [Salem, 1877]

275-279 p. illus. 24<sup>em</sup>.

From Proceedings of the American association for the advancement of science, 25th meeting, 1876.

#### MANTISPIDÆ.

**Berg, Carlos.** Los mantispidos de la República Argentina . . . Buenos Aires, 1899.

[139]-145 p. 24<sup>em</sup>.

From Comunicaciones del Museo nacional de Buenos Aires, tomo I, n<sup>o</sup>. 5.

**Brauer, Friedrich.** Beschreibung der verwandlungsgeschichte der *Mantispia styriaca* Poda und betrachtungen über die sogenannte hypermetamorphose Fabre's . . . [Wien, 1869]

10 p. pl. 22<sup>em</sup>.

Aus den Verhandlungen d. K. K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1869> besonders abgedruckt.

#### CHRYSOPIDÆ.

**Dewitz, Hermann.** . . . Die angelhaare der chrysopenlarven . . . [Erlangen? 1884?]

[722]-723 p. 22<sup>em</sup>.

Separatabdruck aus dem "Biologischen centralblatt." iv. bd. nr. 23.

**Weed, Clarence Moores.** The golden-eye or lace-wing fly. [Philadelphia, 1897]

500-502 p. illus. 25<sup>em</sup>.

"Reprinted from the American naturalist, June 1st, 1897."

"From Stories of insect life, Ginn & co., 1897."

#### HEMEROBIDÆ.

**Hagen, Hermann August.** . . . Monograph of the Hemerobidæ . . . [Boston, 1886]

2 pts. 24<sup>em</sup>.

From the Proceedings of the Boston society of natural history, vol. xxiii, Feb. 3, 1886, p. 250-269; March 17, 1886, p. 276-292.

#### CONIOPTERYGIDÆ.

**Löw, Franz.** . . . Beitrag zur kenntniss der coniopterygiden . . . [Wien, 1885]

17 p. pl. 24<sup>em</sup>.

Aus dem xci. bd. der Sitzb. der Kais. akad. der wissensch. i. abth. märz-hft. jahrg. 1885.

- Schlechtendal, Diederich Hermann Reinhart von.** Coniopteryx psociformis Curtis, als schmarotzer in spinneneiern . . . [Zwickau, 1881]  
6 p. pl. 21 $\frac{1}{2}$ cm.  
From Jahresbericht des Vereins für naturkunde zu Zwickau, 1881, p. 26-31.  
— — — Nachträgliche berichtigung. [Zwickau, 1882]  
[45]-47 p. 21 $\frac{1}{2}$ cm.  
From Jahresbericht des Vereins für naturkunde zu Zwickau, 1882.

## NEMOPTERIDÆ.

- Kirby, William Forsell.** . . Notes on the neuropterous family Nemopteridæ . . . London, 1900.  
[456]-464 p. 22cm.  
From the Annals and magazine of natural history, ser. 7, vol. VI., November, 1900.

## PANORPIDÆ.

- Hine, James Stewart.** The North American species of the genus Bittacus . . . [Columbus, 1898]  
12 p. II pl. 22 $\frac{1}{2}$ cm.  
From the Journal of the Columbus horticultural society, vol. XIII, no. 3.  
**Hine, James Stewart.** . . . A review of the Panorpidæ of America north of Mexico . . . Columbus, 1901.  
[241]-264 p. LIX-LXI pl. 23cm. ( . . . Ohio state university. Contributions from the Dept. of zoology and entomology. no. 4)  
Reprinted from Bul. sci. lab. Denison university, vol XI, art. x, February, 1901.

## TRICHOPTERA.

- Brauer, Friedrich.** Neue von Herrn Dr. G. Semper gesammelte neuropteren . . . [Wien, 1868]  
6 p. pl. 22cm.  
Aus den Verhandlungen d. K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1868> besonders abgedruckt.  
**Clarke, Cora H.** . . . Description of two interesting houses made by native caddis-fly larvæ . . . [Boston, 1882]  
1 p, l., [67]-71 p. illus. 23 $\frac{1}{2}$ cm.  
From the Proceedings of the Boston society of natural history, vol. XXII, May 24, 1882.  
**Hagen, Hermann August.** Phryganidarum synopsis synonymica. Von H. Hagen . . . [Wien, 1864]  
92 p. 22 $\frac{1}{2}$ cm.  
Aus dem Verhandlungen d. K.- K. Zoologisch-botanischen gesellschaft in Wien <jahrg. 1864> besonders abgedruckt.  
**Hagen, Hermann, August.** Révision critique des phryganides décrites par M. Rambur d'après l'examen des individus types, par le docteur Herm. A. Hagen . . . Bruxelles, A. Schnée, 1860. Agr 5—520  
2 p. l., 19 p. 25cm.  
**Klapálek, Franz.** Untersuchungen über die fauna der gewässer Böhmens. I. Metamorphose der trichopteren . . . Von Prof. Fr. Klapálek . . . Prag, F. Řivnáč, 1893.  
pt. 2. illus. 29cm. (Archiv der Naturwissenschaftl. landesdurchforschung von Böhmen. VIII. bd., no. 6)  
**Kolenati, Friedrich August.** Genera et species trichopterorum, auctore Friderico A. Kolenati . . . Pars prior. Heteropalpoidea . . . Prague, Typis Caes. Reg. Aulicæ typographiæ filiorum A. Haase, 1848.  
VIII, [5]-108 p. III pl. 29cm.  
From Abhandl. d. K. Böhm. gesellschaft. 1851. 5. folge. t. 6.

**Kolenati, Friedrich August.** Genera et species trichopterorum, auctore Frid-  
erico Antonio Kolenati. Pars altera. Aequipalpidæ cum dispositione systematica  
omnium phryganidum . . . [Moscow, 1859]

1 p. l., [148]-296 p. v col. pl. 31<sup>cm</sup>.

From the Nouveaux mémoires de la Société impériale des naturalistes de Moscou. Tome 17.

**McLachlan, Robert.** . . . Finska Trichoptera . . . [Helsingfors, 1881]

1 p. l., [159]-191 p. 21<sup>cm</sup>.

Meddel. af Societas pro fauna et flora fennica, 7: 1881.

**McLachlan, Robert.** A monographic revision and synopsis of the Trichoptera  
of the European fauna. By Robert McLachlan . . . London, J. Van Voorst; [etc.,  
etc.] 1874-80.

1 p. l., iv, 523, ciii, [1] p. LIX pl. 25<sup>cm</sup>.

"Supplement:" ciii p.

— First additional supplement . . . London, J. Van Voorst; [etc., etc.]  
1884.

iv, 76 p. VII pl. 25<sup>cm</sup>.

**McLachlan, Robert.** . . . On a marine caddis-fly (Philanusis, Walker, = An-  
malostoma, Brauer from New Zealand . . . [London, 1882]

[417]-422 p. illus. 22<sup>cm</sup>.

Extracted from the Linnean society's Journal-Zoology, vol. XVI.

**Müller, Fritz, i. e. Johann Friedrich Theodor.** Über die von den trichopte-  
renlarven der provinz Santa Catharina verfertigten gehäuse . . . [Leipzig, 1881?]

[47]-87 p. iv-v fold. pl. 23<sup>cm</sup>.

From Zeitschrift f. wissensch. zoologie. xxxv. bd.

Original in Archivos do Museu nacional. vol. III. p. 99-134, p. 209-214. Rio de Janeiro. 1880.  
Aus dem portugiesischen übersetzt von . . . Dr. Hermann Müller . . .

**Pictet, François Jules.** Recherches pour servir à l'histoire et à l'anatomie des  
phryganides . . . Par François-Jules Pictet . . . Genève, A. Cherbuliez; [etc.,  
etc.] 1834. Agr 3-353

1 p. l., iii, 285, [4] p. xx pl. (partly col.) 26<sup>cm</sup>.

## MALLOPHAGA.

**Kellogg, Vernon Lyman.** . . . A list of the biting lice (Mallophaga) taken  
from birds and mammals of North America. By Vernon L. Kellogg . . . Wash-  
ington, Gov't print. off., 1899. Agr 5-39

1 p. l., 89-100 p. 24<sup>cm</sup>.

"Bibliography:" p. 40.

From the Proceedings of the United States national museum, vol. xxii, p. 39-100. <no. 1183>

**Kellogg, Vernon Lyman.** . . . New Mallophaga . . . Palo Alto, 1896-99.  
pt. 1-3. illus., 45 pl. (7 fold.) 24<sup>cm</sup>. (Contributions to biology from the Hopkins seaside labora-  
tory of the Leland Stanford jr. university. IV, VII, XIX)

"Bibliography": pt. 1, p. 35-37, 89-40; pt. 3, p. 221.

Pt. 1-2, reprint from the Proceedings of the California academy of sciences, ser. 2, vol. VI.

Pt. 3, reprinted from the Occasional papers of the California academy of sciences, vol. VI.

CONTENTS.—I. With special reference to a collection made from maritime birds of the bay of Mon-  
terey, California . . . —II. From land birds, together with an account of the mallophagous mouth-  
parts . . . —III. Comprising Mallophaga from birds of Panama, Baja California and Alaska, by  
Vernon L. Kellogg . . . Mallophaga from birds of California, by Vernon L. Kellogg and Bertha L.  
Chapman. The anatomy of the Mallophaga, by Robert E. Snodgrass . . .

**Kellogg, Vernon Lyman.** Some notes on the Mallophaga . . . [Topeka,  
Kan., 1890]

46-48 p. illus. 23<sup>cm</sup>.

From Transactions of the Twenty-second meeting of the Kansas academy of science, 1889, vol. XII,  
p. 46-48.

**Morse, Max.** Synopses of North American invertebrates. XIX. The Trichodec-  
tidæ. Boston, Ginn & co., 1903.

1 p. l., 609-624 p. illus. 24<sup>cm</sup>. (Contributions from the Department of zoölogy and entomology of  
the Ohio state university, number 12)

Reprint from the American naturalist, vol. xxxvii, no. 441, September, 1903.

Bibliography, p. 611.

- Neumann, Louis Georges.** Contribution à l'étude des Ricinidæ parasites des oiseaux de la famille des Psittacidæ . . . [Toulouse, 1890]  
55-69 p. 22½<sup>cm</sup>.  
"Extrait du Bulletin de la Société d'histoire naturelle de Toulouse, 1890."
- Neumann, Louis Georges.** Notes sur quelques Ricinidæ d'origine exotique . . .  
[Toulouse, 1891]  
83-93 p. 1 pl. 22<sup>cm</sup>.  
From Bulletin de la Société d'histoire naturelle de Toulouse, 25<sup>e</sup> année, 1891.
- Osborn, Herbert.** Pediculi and Mallophaga. *See under* Anoplura, p. 424.
- Packard, Alpheus Spring.** On the systematic position of the Mallophaga . . .  
[Philadelphia, 1887]  
264-272 p. illus. 23<sup>cm</sup>.  
From Proceedings of the American philosophical society . . . vol. xxiv, 1887.

## THYSANURA.

- Avebury, John Lubbock, 1st baron.** Monograph of the Collembola and Thysanura. By Sir John Lubbock . . . London, Printed for the Ray society, 1873.  
Agr 4-3475  
x, 276 p. 78 pl. (partly col.) 23<sup>cm</sup>. (*Added t. p.*: The Ray society . . . [Publication])
- Avebury, John Lubbock, 1st baron.** . . . Notes on the Thysanura. Part iv . . .  
[London, 1870].  
[277]-297 p. XLV-XLVI pl. 29<sup>cm</sup>.  
Extracted from the Transactions of the Linnean society of London, vol. xxvii.  
Earlier parts contained in Transactions of the Linnean society of London, vol. xxiii, p. 429-448, 589-601; vol. xxvi, p. 295-304.
- Banks, Nathan.** Thysanura and Termitidæ. *See under* Termitidæ, p. 427.
- Brauer, Friedrich.** Eine neue art der merkwürdigen gattung Japyx Haliday . . . [Wien, 1869]  
2 p. 22½<sup>cm</sup>.  
Aus den Verhandlungen der K. K. Zoolog.-botanischen gesellschaft in Wien <jahrg. 1869> besonders abgedruckt.
- Finot, Adrien, i. e. P. Adrien Prosper.** Faune de la France. Insectes orthoptères. *See under* Orthoptera, p. 281.
- Grassi, Battista, i. e. Giovanni Battista.** . . . Breve nota intorno allo sviluppo degli Yapyx. [Catania? Tip. di F. Martinez, 1884]  
8-10 p. 20½<sup>cm</sup>.
- Grassi, Battista, i. e. Giovanni Battista.** . . . Intorno all' anatomia della Scolopendrella. [Catania? Tip. di F. Martinez, 1884]  
8 p. 20½<sup>cm</sup>.  
At head of title: Prof. B. Grassi.
- Hansen, Hans Jacob.** Catalogue des myriapodes de l'ordre des symphyles qui appartiennent au Muséum d'histoire naturelle de Paris . . . [Paris, 1904]  
2 p. 23<sup>cm</sup>.  
Extrait du Bulletin du Muséum d'histoire naturelle, 1903, n° 7, p. 340.
- Moniez, Romain Louis.** . . . Notes sur les thysanoures . . . [Lille, 1889]  
23 p. illus. 25½<sup>cm</sup>.  
Extrait de la Revue biologique du nord de la France, 2. année, n° 1, octobre 1889.
- Packard, Alpheus Spring.** New or rare American Neuroptera, Thysanura and Myriapoda. *See under* Neuroptera, p. 425.
- Packard, Alpheus Spring.** . . . Scolopendrella and its position in nature . . .  
[Philadelphia, 1881]  
698-704 p. 23<sup>cm</sup>.  
From the American naturalist, September, 1881.
- Packard, Alpheus Spring.** . . . Synopsis of the Thysanura of Essex county, Mass., with descriptions of a few extralimital forms . . . [Salem, 1873]  
23-51 p. 22½<sup>cm</sup>.  
From the Fifth annual report of the Peabody academy of science.

**Scherbakow, A.** . . . Einige bemerkungen über apterygogenea, die bei Kiew 1896-1897 gefunden wurden . . . [Leipzig, 1898]

[57]-65 p. illus. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 550, 1898.

**Uzel, Heinrich.** . . . Beiträge zur entwicklungsgeschichte von Campodea staphylinus Westw. . . . [Leipzig, 1897]

[232]-237 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," no. 535, 1897.

**Willem, Victor.** Recherches sur les collemboles et les thysanoures, par Victor Willem . . . [Bruxelles, 1900] Agr 5-247

144 p. illus., xvii pl. 29<sup>cm</sup>.

From Mémoires couronnés et mémoires des savants étrangers de l'Académie royale des sciences, des lettres et des beaux arts de Belgique, vol. 58, 1899.

### COLLEMBOLA.

**Carpenter, George Herbert.** . . . Collembola . . . [London, 1904]

[299]-303 p., 1 l. pl. 31<sup>1/2</sup><sup>cm</sup>.

Extracted from Fauna hawaiiensis, vol. III, p. 299-303, London, 1904.

**Carpenter, George Herbert.** The Collembola of Mitchelstown cave . . . Dublin, 1897.

225-233 p. pl. 21<sup>1/2</sup><sup>cm</sup>.

"References": p. 232-233.

Reprinted from the Irish naturalist, September, 1897.

— — — Supplementary note. Dublin, 1897.

1 p. l., [257]-258 p. 22<sup>cm</sup>.

Reprinted from the Irish naturalist, October, 1897.

**Carpenter, George Herbert.** . . . Some spring-tails new to the British fauna with description of a new species. By George H. Carpenter . . . and William Evans . . . Edinburgh, 1904.

[215]-220 p. pl. 22<sup>cm</sup>.

Report from the Proceedings of the Royal physical society of Edinburgh, session 1903-1904, vol. xv, pt. II.

References: p. 219.

**Davenport, Charles Benedict.** . . . The Collembola of Cold Spring beach, with special reference to the movements of the Poduridæ. By C. B. Davenport . . . Brooklyn, Brooklyn institute of arts and sciences, 1903. Agr 3-1179

32 p. 1 pl., tab. 25<sup>cm</sup>. (Cold Spring Harbor monographs. II)

"Bibliography": p. 29-30.

**Guthrie, Joseph E.** . . . The Collembola of Minnesota, by Joseph E. Guthrie . . . Minneapolis, Minnesota, 1903. 3-30800

vi, 110 p., 16 l. xvi pl. (3 col.) 24<sup>cm</sup>. (Geological and natural history survey of Minnesota . . . Zoological series iv. Ed. by Henry F. Nachtrieb)

"List of publications consulted": p. 16-20.

**Krausbauer, Theodor.** . . . Neue Collembola aus der umgebung von Weilburg a./Lahn . . . [Leipzig, 1898]

[495]-499, [501]-504 p. 23<sup>cm</sup>.

Separat-abdruck aus dem "Zoologischen anzeiger," bd. XXI, no. 567 u. 568. vom 5. u. 19 sept. 1898.

**Marlatt, Charles Lester.** Silver fish (*Lepisma saccharina* Linn.) Washington, 1902.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 49)

**Meinert, Frederik Vilhelm August.** Om kjønsorganerne og kjønnsstoffernes udvikling hos *Machilis polypoda* . . . Kjøbenhavn, 1871.

1 p. l., [175]-186 p. pl. 23<sup>1/2</sup><sup>cm</sup>.

Af "Naturhistorisk tidsskrift," 3. r. 7. b.

**Molineux, A.** Lucerne pest . . . [Sydney, 1896]

807-809 p. 25<sup>cm</sup>.

From the Agricultural gazette of New South Wales, vol. VII.



PODURIDÆ.

**Folsom, Justus Watson.** . . . The anatomy and physiology of the mouth-parts of the collembolan, *Orchesella cincta* L. By Justus Watson Folsom . . . Cambridge, Mass., 1899. Agr 5—71

1 p. l., [7]—39, [1] p., 3 l. 4 pl. 24 $\frac{1}{2}$ cm. (. . . Contributions from the Zoölogical laboratory of the Museum of comparative zoölogy at Harvard college . . . no. xcvi)

"Bibliography of thysanuran mouth-parts": p. 36-38.

Reprinted from the Bulletin of the Museum of comparative zoölogy, vol. xxxv, no. 2.

**Folsom, Justus Watson.** . . . The development of the mouth-parts of *Anurida Guér.* By Justus W. Folsom . . . Cambridge, Mass., 1900. Agr 5—72

1 p. l., [87]—157, [1] p., 7 l. 8 pl. (1 fold.) 24 $\frac{1}{2}$ cm. (Contributions from the Zoölogical laboratory of the Museum of comparative zoölogy at Harvard college . . . no. 114)

"Bibliography": p. 151-156.

Caption title reads: The development . . . of *Anurida maritima* Guér.

Reprinted from the Bulletin of the Museum of comparative zoology at Harvard college, vol. xxxvi, no. 5.

**Nicolet, Hercule.** Recherches pour servir à l'histoire des podurelles. Par H. Nicolet. [Neuchâtel, 1842?]

88 p. 8 pl. (partly col.) 27cm.

From Schweizer. gesellschaft für die gesammten naturwissenschaften. Neue denkschriften. v. 6

**Tullberg, Tycho.** . . . Sveriges podurider, beskrifna af Tycho Tullberg . . . Stockholm, P. A. Norstedt & söner, 1872.

70 p. xii pl. 31 $\frac{1}{2}$ cm. (Kong. svenska vetenskaps-akademiens Handlingar. bd. 10, no 10)

"Litteratur och historik": p. 4-8.

**Vogler, Carl Heinrich.** Les podurelles de la neige rouge . . . Notice tr. de l'allemand et présentée à la société dans la séance du 23 janvier 1895 par le Prof. E. Bugnion. [Lausanne, 1895]

30-34 p. 21cm.

"From Bull. Soc. Vaud. sc. nat., xxxi, 117.

MYRIAPODA.

GENERAL.

**Blanchard, Raphaël.** . . . Sur le pseudo-parasitisme des myriapodes chez l'homme . . . Paris, 1898.

[452]—492 p. illus. 25 $\frac{1}{2}$ cm.

"Nota acerca de un caso de parasitismo accidental de un myriápoda en la especie humana, por el Dr. Eugenio Muñoz Ramos": p. [491]—492.

"Extrait des Archives de parasitologie, I, no. 3, p. 452, année 1898."

——— Nouvelles observations. Paris, 1902.

[245]—256 p. illus. 25 $\frac{1}{2}$ cm.

"Extrait des Archives de parasitologie, vi . . . année 1902."

**Bollman, Charles Harvey.** Notes upon some myriapods belonging to the U. S. National museum . . . [Washington, 1889]

343-350 p. 24 $\frac{1}{2}$ cm.

From Proceedings of United States national museum, 1888.

**Gazagnaire, Joseph.** . . . La phosphorescence chez les myriopodes . . . [Paris, 1888]

6 p. 23cm.

Extrait du Bulletin de la Société zoologique de France, t. XIII; p. 182, séance du 24 juillet 1888.

**Great Britain—Board of agriculture and fisheries.** . . . Millipedes and centipedes. [London, 1903]

4 p. illus. 21cm. (Its Leaflet no. 54)

**Meinert, Frederik Vilhelm August.** Myriapoda Musæi hauniensis, bidrag til myriapodernes morfologi og systematik . . . Kjøbenhavn, 1872-86.

pt. 2-3. 23 $\frac{1}{2}$ cm.

Pt. 2, af "Naturhistorisk tidsskrift," 3. r., 8. b.

Pt. 3, særtryk af Vid. medd. f. d. Naturh. foren. i Kjøbenhavn.

Pt. 1 in "Naturhistorisk tidsskrift," 3. r., 7. b.

CONTENTS.—pt. 2. Lithobiini.—pt. 3. Chilopoda.

**Packard, Alpheus Spring.** On the morphology of the Myriopoda  
[Philadelphia, 1883]  
197-209 p. illus. 23<sup>cm</sup>.  
From Proc. Amer. philos. soc., xxi.

**Sinclair, Frederick Granville.** Myriapoda, by F. G. Sinclair, M. A. (formerly  
F. G. Heathcote) (In The Cambridge natural history, ed. by S. F. Harmer  
and A. E. Shipley. London and New York, 1895. 23<sup>cm</sup>. v. 5, p. [27]-80. illus.)  
Half-title. 5-12143  
References: p. 80.  
— — — Reprint. 1901.

## FAUNA.

### UNITED STATES.

**Bollman, Charles Harvey.** Catalogue of the myriapods of Indiana . . . [Wash-  
ington, 1889]  
403-410 p. 24<sup>cm</sup>.  
From Proceedings of United States national museum, 1888.

**Bollman, Charles Harvey.** Descriptions of fourteen new species of North  
American myriapods . . . [Washington, 1888]  
617-627 p. 24<sup>cm</sup>.  
From Proceedings of United States national museum, 1887.

**Bollman, Charles Harvey.** . . . The Myriapoda of North America. By  
Charles Harvey Bollman. Ed. by L. M. Underwood. <Containing the collected  
writings on North American Myriapoda, both published and unpublished, of the  
late C. H. Bollman.> Washington, 1893.

210 p. 25<sup>cm</sup>. (Bulletin of the United States national museum, no. 46)

"A review of the literature of the North American Myriapoda. By Dr. L. M. Underwood": p. 9-17.

**Bollman, Charles Harvey.** Notes on a collection of Myriapoda from Mossy  
Creek, Tenn., with a description of a new species . . . [Washington, 1889]  
339-342 p. 24<sup>cm</sup>.  
From Proceedings of United States national museum, 1888.

**Bollman, Charles Harvey.** . . . Preliminary descriptions of ten new North  
American myriapods . . . [Philadelphia, 1887]  
2 p. 23<sup>cm</sup>.  
Reprinted from the American naturalist, January, 1887.

**Bollman, Charles Harvey.** A preliminary list of the Myriapoda of Arkansas  
. . . [n. p.] 1888.  
1 p. l., 8 p. 23<sup>cm</sup>.  
"Published by permission of John C. Brown, state geologist of Arkansas."

**Cragin, Francis Whittemore.** First contribution to a knowledge of the Myri-  
opoda of Kansas . . . [Topeka, Kan., 1885]  
143-145 p. 23<sup>cm</sup>.  
From Bulletin of the Washburn laboratory of natural history, v. 1, no. 4.

**McNeill, Jerome.** Descriptions of twelve new species of Myriapoda, chiefly  
from Indiana. [Washington] 1887.  
328-334 p. pl. 24<sup>cm</sup>.  
From Proceedings of the United States national museum, vol. x, 1887.

**McNeill, Jerome.** List of the myriapods found in Escambia county, Florida,  
with descriptions of six new species . . . [Washington] 1887.  
328-327 p. pl. 24<sup>cm</sup>.  
From Proceedings of the United States national museum, vol. x, 1887.

**McNeill, Jerome.** A list, with brief descriptions of all the species, including one  
new to science, of Myriapoda of Franklin Co., Ind. . . . [College Corner, Ohio,  
1888]  
20 p. 24<sup>cm</sup>.  
From the Bulletin of the Brookville society of natural history, no. 3, p. 1-20.

**Packard, Alpheus Spring.** New or rare American Neuroptera, Thysanura and Myriapoda. *See under* Neuroptera, p. 425.

**Wood, Horatio Curtis.** The Myriapoda of North America. By Horatio C. Wood, jr. . . . Philadelphia, 1865.

1 p. l., 137-248 p., 3 l. III pl. (2 col.) 30<sup>em</sup>.

Extracted for the author from the Transactions of the American philosophical society, vol. XIII.

## FOREIGN.

**Biologia centrali-americana.** Chilopoda and Diplopoda. By R. I. Pocock. [London, Pub. for the editors by R. H. Porter, 1895-1903]

p. 1-56. pl. 1-6 (3 col.) 32<sup>em</sup>.

Issued in parts.

Cover-titles: *Biologia centrali-americana*; or, Contributions to the knowledge of the flora and fauna of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1903, ed. by F. Ducane Godman.

**Bollman, Charles Harvey.** Notes on a collection of Myriapoda from Cuba [Washington, 1889]

335-338 p. 25<sup>em</sup>.

From Proceedings of United States national museum, 1888.

**Bröleman, Henry W.** Myriapodes du Musée de São Paulo . . . [São Paulo, 1901]

[35]-237 p. x pl. 24<sup>em</sup>.

"Index bibliographique": p. 213-217.

From Revista do Museu paulista, v, 1901.

**Cook, Orator Fuller.** The Myriapoda collected by the United States eclipse expedition to West Africa, 1889 and 1890. By O. F. Cook and G. N. Collins . . . [New York, 1893]

[24]-40 p. III pl. 24<sup>1/2</sup><sup>em</sup>.

Extract from the Annals of the New York academy of sciences, vol. VIII.

**Cook, Orator Fuller.** . . . Notes on Myriapoda from Loanda, Africa, collected by Mr. Heli Chatelaine, including a description of a new genus and species. By O. F. Cook . . . Washington, Gov't print. off., 1893.

cover-title, 703-708 p. 24<sup>1/2</sup><sup>em</sup>.

From the Proceedings of the United States national museum, vol. XVI, p. 703-708. <no. 968>

**Daday, Jenő.** A magyarországi myriopodákak magánrajza. A Kir magyar természettudományi társulat megbizásából, írta D<sup>r</sup>. Daday Jenő . . . Három tábla rajzzal. Myriopoda regni Hungariæ. E commissione Regiæ societatis hungariæ scientiarum naturalium elaboravit D<sup>r</sup>. Eugenius Daday de Deés . . . Cum tribus tabulis. Budapest, Kiadja a Kir. magyar természettudományi társulat, 1889.

iv, 126, [6] p. 3 pl. 31<sup>em</sup>.

**Latzel, Robert.** Die myriopoden der österreichisch-ungarischen monarchie. Mit bestimmungs-tabellen aller bisher aufgestellten myriopoden-gattungen und zahlreichen, die morphologischen verhältnisse dieser thiere illustrierenden abbildungen. Hrg. mit unterstützung der hohen Kais. Akademie der wissenschaften in Wien, von D<sup>r</sup> Robert Latzel . . . Wien, A. Hölder, 1880-84.

2 v. in 1. 26 pl. 23<sup>em</sup>.

"Literatur für die gesammte myriopoden-kunde": 2. hälfte, p. [374]-399.

CONTENTS.—1. hälfte. Die chilopoden.—2. hälfte. Die symphylen, pauropoden und diplopoden, nebst bemerkungen über exotische und fossile myriopoden-genera und einem verzeichniss der gesammten myriopoden-literatur.

**Leonardi, Gustavo.** . . . Alcuni miriapodi del Portogallo. Padova, 1898.

11 p. 23<sup>1/2</sup><sup>em</sup>.

"Estratto dagli Atti della Società veneto-trentina di scienze naturali, ser. II.—vol. III, fasc. II."

**Saussure, Henri de.** Études sur les myriapodes. *See under* Orthoptera, p. 283.

**Saussure, Henri de.** Myriopoden aus Madagaskar und Zanzibar, gesammelt von Dr. A. Voeltzkow, bearbeitet von Henri de Saussure und Leo Zehntner . . . Frankfurt a. M., 1901.

cover-title, 2 p. l., [429]-460, [4] p. xxxix-xl pl. 30<sup>cm</sup>.

Sonderabdruck aus den Abhandlungen der Senckenbergischen naturforschenden gesellschaft, bd. xxvi, hft. iv. (Voeltzkow, Wissenschaftliche ergebnisse der reisen in Madagaskar und Ost-Afrika i. d. jahren 1889-1895, bd. ii)

### SEPARATE FAMILIES.

#### CHILOPODA.

**Meinert, Frederik Vilhelm August.** Myriapoda Musei cantabrigensis, Mass. Part I. Chilopoda . . . Philadelphia, 1885.

161-233 p. 23<sup>cm</sup>.

From the Proceedings of the American philosophical society, vol. xxi, 1885.

#### SCUTIGERIDÆ.

**Bollman, Charles Harvey.** Notes on the North American Lithobiidæ and Scutigera. *See under* Lithobiidæ.

**Marlatt, Charles Lester.** House centipede (*Scutigera forceps* Raf.) . . . Washington, 1902.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 48)

"Reprint from Bulletin no. 4, new series, Division of entomology, U. S. department of agriculture, pp. 47-50."

**Meinert, Frederik Vilhelm August.** De formeentlige aandedrætsredskaber og deres mundinger (stomata) hos slægten *Scutigera* . . . Kjøbenhavn, 1882.

20 p. illus. 23<sup>cm</sup>.

Aftryk af Vidensk. meddel. fra den Naturh. foren. i Kjøbenhavn, 1882.

#### SCOLOPENDRIDÆ.

**Meinert, Frederik Vilhelm August.** Bemærkninger ved fremlæggelsen i selskabet af det nys udkomne arbejde "*Caput scolopendræ*" Kjøbenhavn, 1883.

8, 5 p. illus. 23<sup>cm</sup>.

Text in Danish and French.

Aftryk af Oversigt over d. K. D. Vidensk. selsk. Forh. nr. 3, 1883.

**Meinert, Frederik Vilhelm August.** *Caput scolopendræ*, the head of the scolopendra and its muscular system . . . by Fr. Meinert . . . Copenhagen, H. Hagerup; New York, B. Westermann & comp. [etc., etc.] 1883. Agr 4—3372

1 p. l., 77 p. III pl. 26<sup>cm</sup>.

**Meinert, Frederik Vilhelm August.** Danmarks scolopendræ og lithobier. *See under* Lithobiidæ, p. 445.

#### LITHOBIIDÆ.

**Bollman, Charles Harvey.** Notes on the North American Lithobiidæ and Scutigera . . . [Washington, 1888]

264-266 p. 24<sup>cm</sup>.

From Proceedings of United States national museum, 1887.

**Chamberlin, Ralph V.** *Henicops dolichopus*, a new chilopod from Utah . . . [Washington, 1902]

797-800 p. 24<sup>cm</sup>.

From Proceedings U. S. National museum, vol. xxiv—no. 1270.

**Chamberlin, Ralph V.** . . . List of the myriapod family Lithobiidæ of Salt Lake county, Utah, with descriptions of five new species . . . Washington, 1901.

21-25 p. 25<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxiv, p. 21-25 <no. 1242>

- Meinert, Frederik Vilhelm August.** . . . Danmarks scolopendrør og lithobier  
 . . . [Kjøbenhavn, 1868]  
 [241]-268 p. 23 $\frac{1}{2}$ <sup>cm</sup>.  
 Særskilt aftryk af "Naturhistorisk tidsskrift." 3 r. 5 b.

## GEOPHILIDÆ.

- Cook, Orator Fuller.** An arrangement of the Geophilidæ, a family of Chilopoda  
 . . . Washington, 1895.  
 63-75 p. 24<sup>cm</sup>.  
 From the Proceedings of the United States national museum, vol. XVIII, p. 63-75 <No. 1039>
- Cook, Orator Fuller.** . . . Notes on North American Myriapoda of the family  
 Geophilidæ, with descriptions of three genera. By O. F. Cook and G. N. Collins  
 . . . Washington, Gov't print. off., 1891.  
 cover-title, 383-396 p. XXXIII-XXXV pl. 24 $\frac{1}{2}$ <sup>cm</sup>.  
 From the Proceedings of the United States national museum, vol. XIII, p. 383-396 . . . <no. 837>
- Cook, Orator Fuller.** . . . On certain Geophilidæ described by Meinert . . .  
 [Boston, 1896]  
 239-242 p. 25<sup>cm</sup>.  
 Reprinted from the American naturalist, March 1st, 1896. v. 30.
- Cook, Orator Fuller.** On *Geophilus attenuatus* (Say), of the class Chilopoda.  
 Washington, 1895.  
 59-62 p. 24 $\frac{1}{2}$ <sup>cm</sup>.  
 From the Proceedings of the United States national museum, vol. XVIII, p. 59-62 <No. 1038>
- Cook, Orator Fuller.** On the generic names *Strigamia*, *Linotænia* and *Scolio-*  
*planes*. [Philadelphia, 1895]  
 864-866 p. 25<sup>cm</sup>.  
 "Reprinted from the American naturalist, September 1st, 1895."
- Gazagnaire, Joseph.** . . . La phosphorescence chez les myriopodes de la  
 famille des Geophilidæ, époque et conditions physiologiques de l'apparition de la  
 phosphorescence . . . Paris, 1890.  
 11 p. 23 $\frac{1}{2}$ <sup>cm</sup>.  
 Extrait des Mémoires de la Société zoologique de France. [t. III, p. 136, année 1890]

## DIPLOPODA.

- Cook, Orator Fuller.** . . . A new character in the Colobognatha, with draw-  
 ings of *Siphonotus*. [Philadelphia, 1896]  
 839-844 p. pl. 25 $\frac{1}{2}$ <sup>cm</sup>.  
 "Reprinted from the American naturalist, October 1st, 1896."
- Kenyon, Frederick Courtland.** The morphology and classification of the Pau-  
 ropoda. See under Pauropoda, p. 447.

## GLOMERIDÆ.

- Butler, Arthur Gardiner.** . . . Descriptions of four new species of Glomeridæ  
 from Sikkim . . . [London, 1874]  
 3 p. pl. 21 $\frac{1}{2}$ <sup>cm</sup>.  
 From the Annals and magazine of natural history for September 1874.
- Butler, Arthur Gardiner.** A monographic revision of the genera *Zephronia* and  
*Sphærotherium*, with descriptions of new species . . . [London, 1873]  
 12 p. pl. 22<sup>cm</sup>.  
 From the Proceedings of the Zoological society of London, February 4, 1873, p. 172-182.

## POLYDESMIDÆ.

- Bröleman, Henry W.** . . . Dous myriapodos notaveis do Brazil, notas myria-  
 podologicas . . . [Pará, 1900]  
 65-71 p. illus. 25<sup>cm</sup>.  
 From Boletim do Museu paraense de historia natural e ethnographia, vol. III, n° 1.

**Cook, Orator Fuller.** . . . African Diplopoda of the family Gomphodesmidæ.  
By O. F. Cook . . . Washington, Gov't print. off., 1899. Agr 5—50

1 p. l., 677-739 p. LV-LXI pl. 24½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XXI, p. 677-739 . . . <no. 1170>

**Cook, Orator Fuller.** American oniscoid Diplopoda of the order Merocheta . . .  
Washington, 1898.

451-468 p. XXIX-XXXII pl. 25<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XXI, p. 451-468 <No. 1154>

**Cook, Orator Fuller.** . . . East African Diplopoda of the suborder Polydesmoidea,  
collected by Mr. William Astor Chanler. By O. F. Cook . . . Washington, Gov't  
print. off., 1895.

cover-title, 81-111 p. II-VI pl. 24½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XVIII, p. 81-111 . . . <no. 1042>

**Cook, Orator Fuller.** A monograph of Scytonotus. By O. F. Cook and A. C.  
Cook . . . [New York] 1894.

[233]-248 p. VI-IX pl. 23½<sup>em</sup>.

From the Annals of the New York academy of sciences, vol. VIII, Nov. 1894.

**Cook, Orator Fuller.** . . . Priodesmus, a new genus of Diplopoda from Surinam.  
By O. F. Cook . . . Washington, Gov't print. off., 1895.

cover-title, 53-57 p. pl. 24½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XVIII, p. 53-57 . . . <no. 1037>

**Cook, Orator Fuller.** . . . A revision of tropical African Diplopoda of the family  
Strongylosomatidæ. By O. F. Cook . . . Washington, Gov't print. off., 1898.

cover-title, 695-708 p. 24½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XX, p. 695-708 <no. 1137>

**Cook, Orator Fuller.** Summary of new Liberian Polydesmoidea . . . [Phila-  
delphia, 1897]

257-267 p. 24½<sup>em</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1896.

**Cook, Orator Fuller.** Two new diplopod Myriapoda of the genus Oxydesmus  
from the Congo . . . Washington, 1895.

47-52 p. 23½<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XVIII, p. 47-52 <no. 1036>

**Schlechtendal, Diederich Hermann Reinhart von.** Ueber das nestbauen von  
Polydesmus complanatus-DG. . . . [Leipzig, 1833]

223-225 p. 22<sup>em</sup>.

From Zeitschrift f. naturwiss. bd. LVI. 1833.

#### CRASPEDOSOMATIDÆ.

**Cook, Orator Fuller.** . . . Chordeumidæ or Craspedosomatidæ? [Philadelphia,  
1895]

862-864 p. 25<sup>em</sup>.

"Reprinted from the American naturalist, September 1st, 1895."

**Cook, Orator Fuller.** 1. The Craspedosomatidæ of North America. By O. F.  
Cook and G. N. Collins . . . [New York, 1895]

100 p. XII pl. 24½<sup>em</sup>.

From the Annals of the New York academy of sciences, vol. IX, 1895.

**Cook, Orator Fuller.** The diplopod family Striariidæ . . . Washington, 1899.  
667-676 p. LIII-LIV pl. 25<sup>em</sup>.

From the Proceedings of the United States national museum, vol. XXI, p. 667-676 <No. 1169>

#### LYSIOPETALIDÆ.

**Cook, Orator Fuller.** . . . The genera of Lysiopetalidæ. [Philadelphia, 1895]

1017-1019 p. 25<sup>em</sup>.

Reprinted from the American naturalist, November 1st, 1895."

## JULIDÆ.

**Bollman, Charles Harvey.** Notes on North American Julidæ, with descriptions of new species . . . [New York? 1887]

25-44 p. 23½<sup>cm</sup>.

From the Annals of the N. Y. Academy of sciences, vol. iv, nos. 1 and 2.

**Bröleman, Henry W.** Dous myriapodos notaveis do Brazil. *See under Polydesmida*, p. 445.

**Cook, Orator Fuller.** . . . African Diplopoda of the genus *Pachybolus*. By O. F. Cook . . . Washington, Gov't print. off., 1899.

1 p. l., 657-666 p. L-LII pl. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. xxi, p. 657-666 . . . <no. 1168>

**Cook, Orator Fuller.** . . . The segmental sclerites of *Spirobolus*. [Philadelphia, 1896]

333-336 p. 25<sup>cm</sup>.

"Reprinted from the American naturalist, April 1st, 1896."

**Cook, Orator Fuller.** . . . *Stemmatoiulus* as an ordinal type. [Philadelphia, 1895]

1111-1121 p. xli-xliv pl. 25½<sup>cm</sup>.

"Reprinted from the American naturalist, December 1st, 1895."

**Packard, Alpheus Spring.** A revision of the Lysiopetalidæ, a family of chilognath Myriopoda, with a notice of the genus *Cambala* . . . [Philadelphia, 1883]

177-197 p. 23<sup>cm</sup>.

From Proc. Amer. philos. soc. xxi.

**Pocock, Reginald Innes.** . . . On two English millipedes (*Iulus londinensis*, Leach, and *Iulus teutonicus*, sp. n.) . . . [London, 1900]

[206]-207 p. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. vi., August 1900.

## POLYXENIDÆ.

**Cook, Orator Fuller.** A new African diplopod related to *Polyxenus*. [Philadelphia, 1896]

593-595 p. 24½<sup>cm</sup>.

"Reprinted from the American naturalist, July 1st, 1896."

## PAUROPODA.

**Avebury, John Lubbock, 1st baron.** . . . On *Pauropus*, a new type of centipede . . . [London, 1870]

181-190 p. pl. 29½<sup>cm</sup>.

From the Transactions of the Linnean society of London, vol. xxxvi.

**Kenyon, Frederick Courtland.** . . . The morphology and classification of the Pauropoda, with notes on the morphology of the Diplopoda. [By] Frederick C. Kenyon . . . Tufts College, Mass., 1895.

Agr 5-164

cover-title, [77]-146 p. illus., iv fold. pl. 24½<sup>cm</sup>. (Tufts college studies, no. iv)

"Literature": p. 139-142.

**Ryder, John Adams.** . . . An account of a new genus of minute pauropod myriapods . . . [Philadelphia, 1879]

[603]-612 p. illus. 24½<sup>cm</sup>.

From the American naturalist, vol. xiii, October, 1879, no. 10.

## ONYCHOPHORA.

**Bouvier, Eugène Louis.** Nouvelles observations sur les *Peripatus* de la collection du Musée britannique . . . [London, 1900]

749-757 p. 24½<sup>cm</sup>.

"Reprinted from the Quarterly journal of microscopical science [v. 43]"

**Bouvier, Eugène Louis.** . . . *Le Peripatus ecuadorensis* . . . Paris, 1902.

10 p., 1 l. illus. 25½<sup>cm</sup>.

Extrait du Bulletin de la Société philomathique de Paris [9. sér., t. iv, no. 1, p. 53, années 1901-1902]

**Bouvier, Eugène Louis.** Quelques observations sur les onychophores (*Peripatus*) de la collection du Musée britannique . . . [London, 1900]

367-373 p. 24 $\frac{1}{2}$ cm.

"Reprinted from the Quarterly journal of microscopical science [v. 43]"

**Bouvier, Eugène Louis.** Sur l'organisation, le développement et les affinités du *Peripatopsis blainvillei* Gay-Gervais . . . Jena, 1902.

[675]-730 p. 20-22 pl. (2 double) 23cm.

"Index bibliographique": p. 725-726.

Abdruck aus den Zoologischen Jahrbüchern . . . suppl. v: Dr. L. Plate, Fauna chilensis. 2. bd. hft. 3.

**Bouvier, Eugène Louis.** . . . Sur les caractères externes des péripates . . . [London, 1899]

[269]-271 p. 25cm.

Extracted from the Proceedings of the International congress of zoology, Cambridge, 1898.

**Gaffron, Eduard.** Beiträge zur anatomie und histologie von *Peripatus* . . . Breslau, R. Nischkowsky, 1883. Agr 3-185

32, [2] p. VII-XII pl. 24cm.

Inaug.-dis.—Breslau.

"Literaturverzeichnis": p. 29.

Lebenslauf.

Plates wanting.

**Sänger, H.** . . . *Peripatus capensis* Sr. et *Peripatus leuckartii* n. sp. . . . Paris, 1901.

28 p. XII-XIII pl. 25cm.

Plates wanting.

Extrait du Bulletin de la Société philomathique de Paris. [9. sér., t. III, n<sup>o</sup>. 1, p. 9, années 1900-1901]

"Extrait des travaux du Deuxième congrès des naturalistes russes . . . Moscou . . . 1869."

**Sedgwick, Adam.** *Peripatus*, by Adam Sedgwick . . . (*In* The Cambridge natural history, ed. by S. F. Harmer and A. E. Shipley. London and New York, 1895. 23cm. v. 5, p. 1-26. illus., fold. map) 5-12146

Half-title.

"Synopsis of the species of *Peripatus*": p. 23-26.

— — — Reprint. 1901.

## ARACHNIDA.

### GENERAL.

**Herbst, Johann Friedrich Wilhelm.** Natursystem der ungeflügelten insekten. Von Joh. Friedr. Wilh. Herbst. Berlin, Bei G. A. Lange, 1797-1800. Agr 3-189

4 pts. in 1 v. 23 col. pl. 30 $\frac{1}{2}$ cm.

Each part has two title pages, one for the whole work, and one for the special part.

CONTENTS.—1. heft. Naturgeschichte der insekten-gattungen *Solpuga* und *Phalangium*. Von Lichtenstein und Herbst. 1797.—2. heft. Naturgeschichte der insectengattung *Opilio*. 1798.—3. heft. Fortsetzung der naturgeschichte der insectengattung *Opilio*. 1799.—4. heft. Naturgeschichte der skorpionen. 1800.

**Hermann, Johann Friedrich.** Mémoire aptérologique, par Jean-Frédéric Hermann . . . publié par Frédéric-Louis Hammer . . . Strasbourg, De l'imprimerie de F. G. Levrault, An XII (1804)

4 p. l., 144 p. IX col. pl. 43cm.

**Koch, Carl Ludwig.** Die arachniden. Getreu nach der natur abgebildet und beschrieben. Von C. L. Koch . . . Nürnberg, In der C. H. Zeh'schen buchhandlung, 1831-48. Agr 4-8557-8

16 v. DLXIII col. pl. 22cm.

1.-2. bd. have title: Die arachniden. Getreu nach der natur abgebildet und beschrieben von Dr. Carl Wilhelm Hahn . . .

3.-7. bd. have title: Die arachniden. Getreu nach der natur abgebildet und beschrieben. (Fortsetzung des Hahn'schen werkes.) Von C. L. Koch . . .

Publisher of 13.-16. bd.: J. L. Lotzbeck.



**Koch, Carl Ludwig.** Verzeichniss der in den 16 bänden des werkes: Die arachniden von C. W. Hahn und C. L. Koch vorkommenden arten und synonyme. Nürnberg, J. L. Lotzbeck, 1849. Agr 4-3557-8  
cover-title, 64 p. 22<sup>cm</sup>.

**Koch, Carl Ludwig.** Übersicht des arachnidensystems, von C. L. Koch . . . Nürnberg, In der C. H. Zeh'schen buchhandlung, 1837-50.  
5 pts. in 7. 49 pl. (partly col.) 22<sup>cm</sup>.  
4.-5. hft. published by J. L. Lotzbeck.

**MacLeod, Julius.** . . . Recherches sur la structure et la signification de l'appareil respiratoire des arachnides . . . [Gand? 1884]  
34 p. illus., 11 pl. (1 double) 24<sup>1/2</sup><sup>cm</sup>.  
Extrait des Archives de biologie . . . t. v. 1884.

## FAUNA.

## UNITED STATES.

**Banks, Nathan.** . . . The Arachnida of Colorado . . . [New York, 1895]  
[417]-434 p. 24<sup>cm</sup>.  
From the Annals of the New York academy of sciences, vol. VIII.

**Banks, Nathan.** The Arachnida of Florida. Philadelphia, 1904.  
120-147 p. VII-VIII pl. 25<sup>1/2</sup><sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, January, 1904.

**Banks, Nathan.** Arachnida of the [Harriman] expedition. [N. Y., 1904]  
35-46 p. pl. 26<sup>1/2</sup><sup>cm</sup>.  
From Harriman Alaska expedition. vol. VIII, Insects. Pt. I.  
Originally published in the Proceedings of the Washington academy of sciences, vol. II, p. 477-486.

**Banks, Nathan.** Some Arachnida from Alabama . . . Philadelphia, 1900.  
529-543 p. 25<sup>1/2</sup><sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, September, 1900.

**Banks, Nathan.** . . . Some Arachnida from California. By Nathan Banks. With four plates . . . San Francisco, The Academy, 1904. 5-1828  
1 p. l., 331-376 p. pl. XXXVIII-XLI. 25<sup>cm</sup>. (Proceedings of the California academy of sciences. Third series. Zoology. vol. III, no. 13)  
"Issued December 1, 1904."

**Banks, Nathan.** . . . Some Arachnida from New Mexico . . . [Philadelphia, 1901]  
568-597 p. pl. 24<sup>1/2</sup><sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, November, 1901.

**Banks, Nathan.** . . . Some spiders and mites from the Bermuda Islands . . . [New Haven, 1902]  
[267]-275 p. 24<sup>cm</sup>.  
From the Transactions of the Connecticut academy of arts and sciences, vol. XI.

**Banks, Nathan.** . . . Some spiders and other Arachnida from southern Arizona . . . Washington, 1901.  
1 p. l., [581]-590 p. pl. 24<sup>1/2</sup><sup>cm</sup>.  
From the Proceedings of the United States national museum, vol. XXIII.

**Banks, Nathan.** The spider fauna of the upper Cayuga Lake basin. Philadelphia, 1892.  
11-81 p. v pl. 24<sup>1/2</sup><sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, January 26th, 1892.

**Cragin, Francis Whittemore.** First contribution to a knowledge of the Arachnida of Kansas . . . [Topeka, Kan., 1885]  
145-146 p. 23<sup>cm</sup>.  
From Bulletin of the Washburn laboratory of natural history, vol. 1, no. 4.

## FOREIGN.

- Banks, Nathan.** . . . Arachnida. By Nathan Banks. With field notes by Robert E. Snodgrass. Washington, 1902.  
49-86 p. III pl. 26<sup>cm</sup>. (Papers from the Hopkins Stanford Galapagos expedition, 1898-1899. VII. Entomological results (6)  
From the Proceedings of the Washington academy of sciences. Vol. IV.
- Banks, Nathan.** . . . Arachnida from Baja California and other parts of Mexico. By Nathan Banks . . . Issued May 28, 1898. San Francisco, Published by the Academy, 1898.  
1 p. l., [205]-308 p. XIII-XVII pl. 25<sup>cm</sup>. (Proceedings of the California academy of sciences. 3d ser.. Zoology. Vol. I, no. 7)
- Banks, Nathan.** A list of Arachnida from Hayti, with descriptions of new species . . . [Philadelphia, 1903]  
340-345 p. pl. 26<sup>cm</sup>.  
From the Proceedings of the Academy of natural sciences of Philadelphia, May, 1903.
- Banks, Nathan.** . . . Some spiders and other Arachnida from Porto Rico . . . Washington, 1901.  
1 p. l., 217-227 p. pl. 24<sup>cm</sup>.  
From the Proceedings of the United States national museum, vol. xxiv.
- Cambridge, Octavius Pickard.** . . . On a new order and some new genera of Arachnida from Kerguelen's Land . . . [London, 1876]  
258-266 p. pl. 22<sup>cm</sup>.  
From Zoological society of London, Proceedings, 1876.
- Goeldi, Emil August.** . . . Estudos arachnologicos relativos ao Brasil . . . [Pará, 1898]  
413-429 p. 23<sup>cm</sup>.  
From Boletim do Museu paraense de historia natural e ethnographia. Vol. II, no. 4, dezembro 1898.
- Koch, Ludwig.** . . . Arachniden aus Sibirien und Novaja Semlja, eingesammelt von der schwedischen expedition im jahre 1875 beschrieben von Doctor L. Koch . . . An die Königl. Schwed. Akademie d. wissensch. eingereicht d. 30. april 1878. Stockholm, Kongl. boktryckeriet, P. A. Norstedt & söner, 1879.  
136 p. VII pl. 30<sup>cm</sup>. (Kongl. Svenska vetenskaps-akademiens Handlingar. Bandet 16, no 5).
- Koch, Ludwig.** Die arachniden Australiens nach der natur beschrieben und abgebildet von Dr. L. Koch. Nürnberg, Verlag von Bauer & Raspe, L. Korn, 1871-89.  
2 v. in 3 and atlas of cxxiii pl. 28<sup>cm</sup>. Agr 4-3559  
[1 th.] 2. hälfte & 2. th. have title: Die arachniden Australiens nach der natur beschrieben und abgebildet. Begonnen von Dr. L. Koch. Fortgesetzt und beendet von Graf E. Keyserling.  
Atlas has no separate t.-p.  
Publisher of [1. th.] 2. hälfte & 2. th.: Verlag von Bauer & Raspe, E. Küster.
- Simon, Eugène.** Les arachnides de France, par Eugène Simon . . . Paris Librairie encyclopédique de Roret, 1874-[84]  
v. 1-5, 7. illus., xxvii pl. 22<sup>cm</sup>.  
Wanting pl. xv-xvi.  
Vol. 6 not yet published.  
CONTENTS.—Tome 1. Contenant les familles des Epeiridæ, Uloboridæ, Dictynidæ, Enoyidæ et Pholcidæ. 1874.—tome 2. Contenant les familles des Urocteidæ, Agelenidæ, Thomisidæ et Sparasidæ. 1875.—tome 3. Contenant les familles des Attidæ, Oxyopidæ et Lycosidæ. 1876.—tome 4. Contenant la famille des Drassidæ. 1878.—tome 5. Contenant les familles des Epeiridæ (supplément) et des Theridionidæ . . . 1881-[84]—tome 7. Contenant les ordres des Chernetes, Scorpiones et Opiliones. 1879.
- Thorell, Tord Tamerlan Theod.** . . . Aracnidi artrogastri Birmani raccolti da L. Fea nel 1885-1887 . . . Genova, 1889.  
[8]-213 p. pl. 24<sup>cm</sup>. (Viaggio di Leonardo Fea in Birmania e regioni vicine. XXI)  
Estratto dagli Annali del Museo civico di storia naturale di Genova. Ser. 2, vol. VII (xxvii), 9 settembre al 10 ottobre 1889.

**Thorell, Tord Tamerlan Theod.** . . . Aracnidi di Nias e di Sumatra raccolti; nel 1886 dal Sig. E. Modigliani . . . Genova, 1890.

[3]-106 p. 24 $\frac{1}{2}$ cm.

Estratto dagli Annali del Museo civico di storia naturale di Genova. Ser. 2, vol. x (xxx), 4 settembre 1890.

**Thorell, Tord Tamerlan Theod.** . . . Aracnidi di Pinang raccolti nel 1889 dai Signori L. Loria e L. Fea . . . Genova, 1890.

[3]-119 p. 24 $\frac{1}{2}$ cm.

Estratto dagli Annali del Museo civico di storia naturale di Genova. Ser. 2, vol. x (xxx), 17 novembre a 27 dicembre 1890.

**Thorell, Tord Tamerlan Theod.** Om arachnider från Spetsbergen och Beeren-Eiland . . . [Stockholm, 1871]

683-702 p. 22 $\frac{1}{2}$ cm.

From Öfversigt af Kongliga svenska vetenskaps-akademiens förhandlingar, 1871, n:o 6.

**Thorell, Tord Tamerlan Theod.** . . . Om några arachnider från Grönland . . . [Stockholm, 1872]

147-166 p. 22 $\frac{1}{2}$ cm.

From Öfversigt af Kongliga svenska vetenskaps-akademiens förhandlingar, 1872, n:o 2.

**Thorell, Tord Tamerlan Theod.** Sobre algunos aracnidos de la República Argentina por el Dr. D. T. Thorell . . . [Cordoba, 1875]

18 p., 1 l. 22 $\frac{1}{2}$ cm.

From Periodico zoologico. Tomo II, p. 201-218.

**Thorell, Tord Tamerlan Theod.** Studi sui ragni malesi e papuani per T. Thorell . . . Genova, Tipografia del R. Istituto sordo-muti, 1877-92.

4 v. in 5. 25 $\frac{1}{2}$ cm.

Wanting pt. 4, vol. 1.

Estratto dagli Annali del Mus. civ. di st. nat. di Genova. Vol. x, 1877, 1 ottobre-29 dicembre; vol. XIII, 19 giugno-7 ottobre 1878; vol. XVII, dal 21 marzo al 9 luglio 1881; serie 2<sup>a</sup>, vol. VIII (xxviii) 1889-90; serie 2<sup>a</sup>, vol. XI (xxxI) 1891-92.

## FAMILIES.

## ARANEIDA.

**Atkinson, George Francis.** A new trap-door spider . . . [Chapel Hill, N. C., 1887]

16-26 p. xxiii-xxiv pl. 21cm.

From Journal of the Elisha Mitchell scientific society, vol. iv, pt. 1.

**Balbani, Édouard Gérard.** Mémoire sur le développement des aranéides . . . [Paris, 1873]

91 p. 15 col. pl. 25cm.

From Annales des sciences naturelles, 5. sér., zoologie et paléontologie, t. xviii.

**Banks, Nathan.** . . . A list of spiders collected in Arizona by Messrs. Schwarz and Barber during the summer of 1901 . . . Washington, 1902.

1 p.l., 211-221 p. pl. 24 $\frac{1}{2}$ cm.

From the Proceedings of the United States national museum, vol. xxv.

**Biologia centrali-americana.** Arachnida-Araneidea . . . [London, Pub. for the editors by R. H. Porter] 1889-1905.

Agr 5-504

2 v. plates (partly col.) 32cm.

Issued in parts.

Cover-titles: Biologia centrali-americana; or, Contributions to the knowledge of the fauna and flora of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

Aug. 1898-1905, ed. by F. Ducane Godman.

CONTENTS.—I. Araneidea, by the Rev. O. Pickard-Cambridge. 1889-1902.—II. Araneidea and Opiliones, by F. O. Pickard-Cambridge. 1897-1905.

**Blackwall, John.** A history of the spiders of Great Britain and Ireland. By John Blackwall . . . London, Published for the Ray society by R. Hardwicke, 1861-64.

2 v. in 1. xxix col. pl. 37cm. (Added t.p.: The Ray society . . . London, 1859-64)

Paged continuously; pt. 1: vi, 173 p., 12 l.; pt. 2: 2 p. 1., 175-384 p., 17 l.

- Camboué, Paul.** Aranéides utiles et nuisibles de Madagascar . . . [Paris, 1887]  
10 p. 24<sup>cm</sup>.  
"Extrait du Bulletin de la Société nationale d'acclimatation, mai 1887."
- Camboué, Paul.** Psychique de la bête; l'araignée . . . Bruxelles [1894]  
27, [1] p. 25<sup>cm</sup>.  
Extrait de la Revue des questions scientifiques, octobre 1894.
- Cambridge, Frederick Octavius Pickard-** Handbook to the study of British spiders. By Frederick O. Pickard-Cambridge, B. A. [n. p., 189-] Agr 4-3502  
100 p., 1 l., 4 p. ill., vi pl. 21<sup>4</sup><sup>cm</sup>.  
Caption title.
- Cambridge, Octavius Pickard-** . . . Catalogue of a collection of Ceylon Araneida lately received from Mr. J. Nietner, with descriptions of new species and characters of a new genus . . . [London, 1870]  
pt. 1. XI-XIII pl. 23<sup>cm</sup>.  
From Linnean society of London. Zoology. vol. x, p. 373-397.
- Cambridge, Octavius Pickard-** Descriptions and sketches of two new species of Araneidea, with characters of a new genus . . . [London, 1870]  
398-405 p. pl. 23<sup>cm</sup>.  
Plate wanting.  
From Linnean society of London, Journal. Zoology. vol. x.
- Cambridge, Octavius Pickard-** On new and rare British spiders found in 1893; with rectification of synonyms . . . Dorchester, 1894.  
1 p. l., [103]-116 p. pl. 21<sup>cm</sup>.  
From "Proceedings" Dorset natural history and antiquarian field club, vol. xv, p. 103, 1894.
- Cambridge, Octavius Pickard-** . . . On new genera and species of Araneidea . . . [London, 1882]  
423-442 p. XXIX-XXXI pl. 22<sup>cm</sup>.  
From Zoological society of London, Proceedings, 1882.
- Cambridge, Octavius Pickard-** . . . On some new and little known species of Araneidea, with remarks on the genus Gasteracantha . . . [London, 1879]  
279-293 p. XXVI-XXVII pl. 22<sup>cm</sup>.  
From Zoological society of London, Proceedings, 1879.
- Cambridge, Octavius Pickard-** . . . On some new genera and species of Araneidea . . . [London, 1881]  
765-775 p. pl. 22<sup>cm</sup>.  
From Zoological society of London, Proceedings, 1881.
- Cambridge, Octavius Pickard-** . . . On some new genera and species of spiders . . . [London, 1883]  
352-364 p. XXXVI-XXXVII pl. 22<sup>cm</sup>.  
From Zoological society of London, Proceedings, 1883.
- Cambridge, Octavius Pickard-** . . . On some new species and a genus of Araneidea . . . [London, 1889]  
34-46 p. pl. 22<sup>cm</sup>.  
From Zoological society of London, Proceedings, 1889.
- Cambridge, Octavius Pickard-** . . . On some new species of Araneidea, chiefly from oriental Siberia . . . [London, 1873]  
435-452 p. XL-XLI pl. 23<sup>cm</sup>.  
From Zoological society of London, Proceedings, 1873.
- Cambridge, Octavius Pickard-** . . . On some new species of Araneidea, with characters of two new genera, and some remarks on the families Podopthalmides and Dinopides . . . [London, 1877]  
[567]-578 p. LVI-LVII pl. 22<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, June 19, 1877.

**Cambridge, Octavius Pickard.** The spiders of Dorset, with an appendix containing short descriptions of those British species not yet found in Dorsetshire. By the Rev. Octavius Pickard-Cambridge . . . From the "Proceedings of the Dorset natural history and antiquarian field club," ed. by Professor James Buckman . . . Sherborne, L. H. Ruegg, 1879-81. Agr 4-3508

5 p. l., iv, xliii, 625, xi, [4] p., 8 l., [3] p. vi pl. 20 $\frac{1}{2}$ cm.

**Carpenter, George Herbert.** . . . Two spiders new to the British fauna . . . [London, 1900]

[199]-204 p. illus. 21 $\frac{1}{2}$ cm.

From the Annals and magazine of natural history, ser. 7, vol. vi, August, 1900.

**Clerck, Carl Alexander.** Svenska spindlar uti sina hufvud-slågter indelte samt under några och sextio särskildte arter beskrefne och med illuminerade figurer uplyste, på Kongl. Vetensk. Societ. i Upsala befallning utgifne af dess ledamot Carl Clerck, Caroli Clerck . . . Aranei svecici, descriptionibus et figuris æneis illustrati, ad genera subalterna redacti, speciebus ultra LX determinati, auspiciis Rēgiæ societatis scientiarum upsaliensis. Stockholmæ, Literis L. Salvii, 1757.

8 p. l., 154 p. 6 col. pl. 25cm.

**Davidson, Anstruther.** So-called spider-bites and their treatment. A paper read before the Southern California medical society, Dec. 18, 1896 . . . Detroit, Mich., 1897.

8 p. 20cm.

Reprinted from the Therapeutic gazette, Feb. 15, 1897.

**Emerton, James Henry.** The common spiders of the United States, by James H. Emerton. Boston and London, Ginn & company, 1902. 2-17851

xviii, 225 p. illus. 20 $\frac{1}{2}$ cm.

**Emerton, James Henry.** . . . Notes on spiders from caves in Kentucky, Virginia and Indiana . . . [Boston] 1875.

4 p. 24 $\frac{1}{2}$ cm.

From the American naturalist, vol. ix, May, 1875.

**Emerton, James Henry.** The structure and habits of spiders. By J. H. Emerton . . . Salem, S. E. Cassino, 1878. Agr 5-147

1 p. l., ix, [11]-118 p. illus. 18 $\frac{1}{2}$ cm. (*Half-title:* American natural history series. Vol. II)

**Hentz, Nicholas Marcellus.** The spiders of the United States. A collection of the arachnological writings of Nicholas Marcellus Hentz, m. d. Ed. by Edward Burgess, with notes and descriptions by James H. Emerton. Boston, Boston society of natural history, 1875.

xiii, 171 p., 21 l. 21 pl. 24cm. (*Added t.p.:* Occasional papers of the Boston society of natural history. II)

Wanting plate 7.

"List of the writings of Prof. Hentz": p. XII-XIII.

**Herman, Otto.** Magyarország pok-faunája. A Királyi magyar természettudományi társulat megbízásából, írta Herman Ottó . . . Ungarns spinnen-fauna. Im auftrage der Kön. ungar. naturwissenschaftlichen gesellschaft, verfasst von Otto Herman . . . Budapest, Verlag der K. U. naturwissenschaftlichen gesellschaft, 1876-79.

3 v. x pl. 31cm.

"Verzeichniss der literatur": I. bd., p. 21-36.

CONTENTS.—I. bd. Allgemeines theil. 1876.—II. bd. Das system. 1878.—III. bd. Beschreibender theil. 1879.

**Keyserling, Eugen, graf von.** Neue spinnen aus Amerika. Beschrieben von Eugen graf Keyserling . . . [Wien, 1879-87] Agr 4-3556

7 pts. 7 pl. 23cm.

Caption title.

From the Verhandl. d. K. K. Zool. bot. ges. bd. xxix, p. 293-350, bd. xxx, p. 647-582, bd. xxxi, p. 269-314, bd. xxxii, p. 195-226, bd. xxxiii, p. 649-684, bd. xxxiv, p. 489-534, bd. xxxvii, p. 421-490.

**Keyserling, Eugen graf von.** Die spinnen Amerikas . . . von graf E. Keyserling. Nürnberg, Verlag von Bauer & Raspe (E. Küster) 1880-[93] Agr 5-165

4 v. in 6 pts. 58 pl. (partly col.) 28½<sup>cm</sup>.

Bd. 3-4 have title: Die spinnen Amerikas . . . von graf E. Keyserling, nach dessen tode hrsg. von Dr. George Marx.

CONTENTS.—[1. bd.] Laterigradæ. 1880.—2. bd. Theridiidæ. 1884-[86].—3. bd. Brasilianische spinnen. 1891.—4. bd. Epeiridæ. 1892-[93]

**Kobert, Rudolf i. e. Eduard Rudolf.** Beiträge zur kenntnis der giftspinnen, von staatsrat professor Dr. R. Kobert . . . Stuttgart, F. Enke, 1901.

viii, 191 p. illus. 26½<sup>cm</sup>.

**Kulczyński, Władysław.** Araneæ in Camtschadalia a Dre B. Dybowski collectæ. Pająki zebrane na Kamczatce przez Dra B. Dybowskiego, podał Władysław Kulczyński. W Krakowie, W drukarni uniwersytetu Jagiellonskiego, 1885.

1 p. 1., 60 p. ix-xi pl. 30<sup>cm</sup>. ([Pamiętnik Wydz. III. Akad. Umiej. w Krakowie. Tom. XI])

**Latreille, Pierre André.** Des habitudes de l'araignée aviculaire de Linnæus . . . [Paris, 1822]

456-460 p. 27<sup>cm</sup>.

From Mémoires du Muséum d'histoire naturelle de Paris. vol. VIII.

**Latreille, Pierre André.** Histoire naturelle des fourmis. See under Hymenoptera, p. 152.

**McCook, Henry Christopher.** American spiders and their spinningwork. A natural history of the orbweaving spiders of the United States with special regard to their industry and habits. By Henry C. McCook . . . Philadelphia, Published by the author, 1889-93.

3 v. front. (port., v. 3) illus., xxx col. pl. 28<sup>cm</sup>.

Author's edition. This edition is limited to 250 copies of which this set is no. 35."

**McCook, Henry Christopher.** Necessity for revising the nomenclature of American spiders. [Philadelphia, 1888]

6 p. 24½<sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1888.

**McCook, Henry Christopher.** Snares of orb-weaving spiders . . . [Philadelphia, 1882]

254-257 p. illus. 24<sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1882.

**MacLeod, Julius.** . . . Notice sur l'appareil venimeux des aranéides . [Gand? 1880]

10 p. illus., pl. 24<sup>cm</sup>.

Extrait des Archives de biologie . . . v. I, 1880.

**Marx, George.** Arachnida . . . [Washington, 1889]

207-211 p. 24½<sup>cm</sup>.

Running title: Albatross explorations, insects . . .

From Proceedings of the National museum, vol. XII, 1889.

**Marx, George.** . . . Catalogue of the described Araneæ of temperate North America . . . Washington, 1890.

497-594 p. 24½<sup>cm</sup>.

From the Proceedings of the United States national museum, vol. XII.

"Bibliography: p. 587-591.

**Marx, George.** A contribution to the knowledge of the spider fauna of the Bermuda Islands . . . [Philadelphia, 1889]

98-101 p. pl. 24<sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1889.

**Marx, George.** A list of the Araneæ of the District of Columbia . . . Washington, 1892.

cover-title [148]-161 p. 23½<sup>cm</sup>.

"Reprinted from Proceedings of Entomological society [of Washington] vol. II, no. 2."

**Menge, Anton.** Preussische spinnen, von A. Menge. Danzig, Druck von A. W. Kafemann, 1866.

iv [5]-560, 11 p., and atlas of 91 pl. 23½<sup>cm</sup>.

Each plate accompanied by leaf of descriptive text.

**Moggridge, J. Traherne.** Harvesting ants and trap-door spiders. *See* Formicidæ, p. 171.

**Peckham, Mrs. Elizabeth (Gifford).** Protective resemblances in spiders. [Milwaukee, 1889]

Agr 3—1261

[61]-113 p., 1 l. illus. pl. 27<sup>cm</sup>. ([Occasional papers of the Natural history society of Wisconsin. Vol. 1, no. 2])

Caption title.

**Peckham, George Williams.** The sense of sight in spiders with some observations on the color sense. [By] George W. and Elizabeth G. Peckham . . . [Madison, 1894]

cover-title [231]-261 p. 25<sup>cm</sup>.

From the Transactions of the Wisconsin academy of sciences, arts, and letters, vol. x.

**Peckham, George Williams.** Some observations on the mental powers of spiders. By George W. and Elizabeth G. Peckham . . . Boston, Ginn and company [1887]

1 p. l., [383]-419 p. 22<sup>cm</sup>.

Reprinted from the Journal of morphology, vol. i., no. 2, December, 1877.

**Rainbow, William Joseph.** . . . Contribution to a knowledge of the arachnidan fauna of British New Guinea . . . [Sydney, 1898]

[1], 328-356 p. pl. 22<sup>cm</sup>.

From the Proceedings of the Linnean society of New South Wales, pt. 3, August 31st.

Contribution from the Australian museum.

**Rainbow, William Joseph.** . . . Descriptions of some new Araneidæ of New South Wales . . . [Sydney, 1893-96]

no. 3, 7. 2 pl. 22-22½<sup>cm</sup>.

From the "Proceedings of the Linnean society of New South Wales" 1893, p. 287-294; 1896, p. 628-633.

**Simon, Eugène.** Histoire naturelle des araignées (aranéides) par Eugène Simon . . . Paris, Librairie encyclopédique de Roret, 1864.

Agr 4—1781

2 p. l., 540 p. illus. 23<sup>cm</sup>.

**Thorell, Tord Tamerlan Theod.** . . . Araneæ nonnullæ Novæ Hollandiæ . . . [Stockholm, 1870]

367-390 p. 22½<sup>cm</sup>.

From Öfversigt af Kongliga svenska vetenskaps-akademiens förhandlingar, 1870. no. 4.

**Thorell, Tord Tamerlan Theod.** . . . Descriptions of the Araneæ collected in Colorado in 1875 by A. S. Packard, jr., M. D. [Washington, 1877]

477-529 p. illus. 23<sup>cm</sup>.

From the Bulletin of the United States geological and geographical survey of the Territories. vol. III, no. 2.

**Thorell, Tord Tamerlan Theod.** Descriptive catalogue of the spiders of Burma, based upon the collection made by Eugene W. Oates and preserved in the British museum. By T. Thorell. London, Printed by order of the trustees, 1895.

xxxvi, 406 p. 23<sup>cm</sup>.

**Thorell, Tord Tamerlan Theod.** Descrizione di alcuni aracnidi inferiori dell' Arcipelago Malese . . . Genova, 1882:

[3]-53, [1] p. iv-vi pl. 24½<sup>cm</sup>.

Estratto dagli Annali del Museo civico di storia naturale di Genova. vol. xviii, 4-23 febbraio 1882.

**Thorell, Tord Tamerlan Theod.** Diagnoses araneorum aliquot novarum in Indo-Malesia inventarum . . . [Genova, 1890]

41, [1] p. 24½<sup>cm</sup>.

Estratto dagli Annali del Museo civico di storia naturale di Genova. ser. 2, vol. x (xxx) 8 ottobre 1890.

- Thorell, Tord Tamerlan Theod.** Due ragni esotici descritti dal Dott. T. Thorell . . . [Genova, 1877]  
10 p., 1 l. illus. 22½<sup>cm</sup>.  
Estratto dagli Annali del Museo civico di storia naturale di Genova, vol. ix, 1876-77.
- Thorell, Tord Tamerlan Theod.** . . . Notice of some spiders from Labrador . . . Boston, 1875.  
[1], [490]-504 p. 22½<sup>cm</sup>.  
From the Proceedings of the Boston society of natural history, vol. xvii, April 21, 1875.
- Thorell, Tord Tamerlan Theod.** Notice of the spiders of the "Polaris" expedition. [Philadelphia, 1878]  
393-396 p. 22½<sup>cm</sup>.  
From American naturalist, vol. xii, June, 1878.
- Thorell, Tord Tamerlan Theod.** Om Clercks original-spindelsamling . . . [Stockholm, 1858]  
143-153 p. 22½<sup>cm</sup>.  
From Öfersigt af Kongliga svenska vetenskaps-akademien Förhandlingar, v. 15, 17 mars, 1858.
- Thorell, Tord Tamerlan Theod.** On some spiders from New Caledonia, Madagascar, and Réunion . . . [London, 1875]  
[1], 130-149 p. col. pl. 22½<sup>cm</sup>.  
From the Proceedings of the Zoological society of London, March 2, 1875.
- Thorell, Tord Tamerlan Theod.** . . . On some spiders from the Andaman Islands collected by E. W. Oates . . . [London, 1892]  
[226]-237 p. 22½<sup>cm</sup>.  
From the Annals and magazine of natural history for March, 1892.
- Thorell, Tord Tamerlan Theod.** . . . Primo saggio sui ragni Birmani . . . Genova, 1887.  
1 p. l., 417 p., 1 l. 25<sup>cm</sup>. (Viaggio di L. Fea in Birmania e regioni vicine, II)  
Estratto dagli Annali del Museo civico di storia naturale di Genova. ser. 2, vol. v, dal 31 maggio al 7 ottobre 1887.
- Thorell, Tord Tamerlan Theod.** Recensio critica Araneorum suecicarum quas descripserunt Clerckius, Linnaeus, De Geerus. Cujus partem primam venia amplius. facult. phil. Ups. pro gradu philosophico p. p. Tamerlan Thorell . . . Upsaliae, C. A. Leffler, 1855.  
1 p. l., 16 p. 22½<sup>cm</sup>.
- [**Treat, Mrs. Mary (Davis)**] Home studies in nature. [New York, 1880]  
2 pts. illus. 24½<sup>cm</sup>.  
From Harper's magazine, v. 60, p. [710]-718, [857]-862.
- Turner, C. H.** Psychological notes upon the gallery spider—Illustrations of intelligent variations in the construction of the web . . . [Granville, O., 1892]  
[95]-110 p. 23½<sup>cm</sup>.  
From Journal of comparative neurology, v. 2, September, 1892.
- Vinson, Auguste.** Aranéides des Iles de la Réunion, Maurice et Madagascar . . . par Auguste Vinson . . . Paris, Roret [etc.] 1863. Agr 4-349  
4 p. l., cxx, 337 p. xiv col. pl. 27<sup>cm</sup>.
- Walckenaer, Charles Athanase, baron.** Histoire naturelle des aranéides, par C. A. Walckenaer. Paris et Strasbourg, A. Koenig, 1806[-08] Agr 4-299  
unp. 60 col. pl. 10 x 15½<sup>cm</sup>.  
Pub. in 5 livraisons.

## THERAPHOSIDÆ.

- McCook, Henry Christopher.** Nesting habits of the American purseweb spider . . . [Philadelphia, 1888]  
203-220 p. illus. 24½<sup>cm</sup>.  
From Proceedings of the Academy of natural sciences of Philadelphia, 1888.
- Pocock, Reginald Innes.** . . . A new stridulating theraphosid spider from South America . . . [London, 1899]  
[347]-349 p. 22<sup>cm</sup>.  
From the Annals and magazine of natural history, ser. 7, vol. III, April, 1899.



**Pocock, Reginald Innes.** . . . Some new African theraphosoid spiders in the British museum . . . [London, 1900]

[489]-494 p. illus. 22<sup>cm</sup>.

From the Annals and magazine of natural history, ser. 7, vol. VI, November, 1900.

**Poteat, William Louis.** . . . A tube-building spider. Notes on the architectural and feeding habits of *Atypus niger* Hentz (?) . . . [Raleigh, N. C., 1890]

cover-title, 17 p. incl. illus., pl. 22<sup>cm</sup>.

Reprinted from the Journal of the Elisha Mitchell scientific society [vol. VI, pt. 2, p. 134-147]

#### DRASSIDÆ.

**Cambridge, Octavius Pickard-**. . . On some new species of Drassides . . . [London, 1874]

370-419 p. LI-LII pl. 22<sup>cm</sup>.

From Zoological society of London, Proceedings, 1874.

[**Koch, Ludwig**] [Die arachniden-familie der drassiden] [Nürnberg, 1866-67]

352 p. XIV pl. 23½<sup>cm</sup>.

Title-page wanting.

#### AGALENIDÆ.

**Locy, William Albert.** Observations of the development of *Agelena naevia* . . . Cambridge, 1886.

[63]-103 p. XII pl. (7 col.) 24½<sup>cm</sup>. (Bulletin of the Museum of comparative zoology at Harvard college, vol. XII, no. 3)

#### DINOPIDÆ.

**Marx, George.** On a new species of spider of the genus *Dinopis* from the southern United States . . . [Philadelphia, 1889]

341-343 p. pl. 24<sup>cm</sup>.

From Proceedings of the Academy of natural sciences of Philadelphia, 1889.

#### THERIDIIDÆ.

**Camboué, Paul.** Araignées et leur venin . . . Bruxelles [1894]

31, [1] p. 24<sup>cm</sup>.

Extrait de la Revue des questions scientifiques, janvier 1894.

**Cambridge, Octavius Pickard-**. . . On some new species of *Erigone* from North America . . . [London, 1874]

428-442 p. pl. 22<sup>cm</sup>.

From Zoological society of London, Proceedings, 1874.

**Rivera, Manuel J.** Apareamiento del *Latrodectus formidabilis* . . . Santiago de Chile, 1904.

19 p. 25<sup>cm</sup>.

Trabajo publicado en el VI Congreso científico jeneral chileno i en las Actas de la Sociedad científica de Chile [tomo XI, (1901) 1. entrega]

#### EPEIRIDÆ.

**Camboué, Paul.** La soie d'araignée . . . Paris, 1892.

8 p. illus. 24<sup>cm</sup>.

"Extrait de la Revue des sciences naturelles appliquées, n° 6, 20 mars 1892."

**Camboué, Paul.** . . . Sur l'utilisation de deux aranéides séricigènes de Madagascar . . . Paris, 1889.

3 p. 23½<sup>cm</sup>.

"Extrait de la Revue des sciences naturelles appliquées, n° 3, 5 février 1889."

**Dusuzeau, Jules.** L'araignée fileuse de Madagascar; intérêt de ses soies, conditions d'éducation expérimentale et pratique . . . [Lyon, 1895]

9 p. II pl. 26<sup>cm</sup>.

From Laboratoire d'études de la soie. Rapport présenté à la Chambre de commerce de Lyon, 1893-94, vol. 7, p. 168-171.

**Emerton, James Henry.** . . . New England spiders of the family Epeiridæ . . . [New Haven, 1884]

[295]-341, [1] p. XXXIII-XL pl. 23 $\frac{1}{2}$ cm.

From the Transactions of the Connecticut academy of arts and sciences. Vol. VI, 1884.

**Goeldi, Emil August.** Epeiroides bahiensis Keyserling, eine dämmerungskreuzspinne Brasiliens . . . [Leipzig, 1899]

[161]-169 p. illus., double col. pl. 24cm.

Abdruck aus den Zoologischen Jahrbüchern, Abtheilung für systematik, geographie und biologie der thiere . . . bd., XII, 1899.

**Rainbow, William Joseph.** Description of the larva of Pseudoterpna percompertaria, Gn. . . . Description of a new araneiad. See under Geometridæ, p. 350.

**Thorell, Tord Tamerlan Theod.** Nya exotiska epeirider . . . [Stockholm, 1859]

299-304 p. 22 $\frac{1}{2}$ cm.

From Öfversigt af Kongliga svenska vetenskaps-akademiens förhandlingar. Vol. 16, 14 september, 1859.

**Thorell, Tord Tamerlan Theod.** . . . Om Aranea lobata Pallas (A. sericea Oliv.) . . . [Stockholm, 1867]

591-596 p. 22 $\frac{1}{2}$ cm.

From Öfversigt af Kongliga svenska vetenskaps-akademiens förhandlingar, 1867, n:o 9.

**Thorell, Tord Tamerlan Theod.** Om Epeira marmorea och pyramidata . [Stockholm, 1858]

237-246 p. 22 $\frac{1}{2}$ cm.

From Öfversigt af Kongliga svenska vetenskaps-akademiens förhandlingar. Vol. 15, 12 mai, 1858.

**Treat, Mrs. Mary (Davis)** . . . Argiope riparia var. multiconcha. [Philadelphia, 1887]

[1] p. 23cm.

Extracted from the American naturalist, December, 1887.

**Wilder, Burt Green.** [On the habits of Nephila plumipes] [Boston, 1866]

200-210 p. illus. 24 $\frac{1}{2}$ cm.

From Proceedings of the Boston society of natural history, vol. x.

#### LYCOSIDÆ.

**Cid, Francisco Xavier.** Tarantismo observado en España, con que se prueba el de la Pulla, dudado de algunos, y tratado de otros de fabuloso: y memorias para escribir la historia del insecto llamado tarántula, efectos de su veneno en el cuerpo humano, y curacion por la música con el modo de obrar de ésta, y su aplicacion como remedio á varias enfermedades. Su autor Don Francisco Xavier Cid . . . Madrid, En la imprenta de Gonzalez, 1787.

Agr 4-3394

2 p. l., 324 p. pl. 21cm.

Wanting 2 l. of music at end.

**Emerton, James Henry.** . . . New England spiders of the family Lycosidæ . . . [New Haven, 1885]

[481]-505 p. XLVI-XXIX pl. 23cm.

Bibliography: p. 482.

From the Transactions of the Connecticut academy, vol. VI, 1885.

**Marx, George.** On some new tube-constructing spiders. [Philadelphia, 1881]

396-400 p. illus. 23cm.

From the American naturalist, May, 1881.

#### ERESIDÆ.

**Jambunathan, N. S.** The habits and life history of a social spider (Stegodyphus sarsinatorum Karsch) by N. S. Jambunathan . . . Washington, Smithsonian institution, 1905.

cover-title, 365-372 p. pl. 24 $\frac{1}{2}$ cm.

"References to the social spiders": p. 372.

Reprinted from Smithsonian miscellaneous collections (quarterly issue), vol. 47, pt. 3. No. 1554.

## ATTIDÆ.

**Peckham, George Williams.** Additional observations on sexual selection in spiders of the family Attidæ, with some remarks on Mr. Wallace's theory of sexual ornamentation, by George W. and Elizabeth G. Peckham. Milwaukee, Natural history society of Wisconsin, 1890.

1 p. l., [117]-151 p. illus. 25<sup>cm</sup>. (*Cover-title:* Occasional papers of the Natural history society of Wisconsin. Vol. 1, no. 3)

**Peckham, George Williams.** Ant-like spiders of the family Attidæ. By George W. and Elizabeth G. Peckham. Milwaukee, Natural history society of Wisconsin, 1892.

83, [1] p., 6 l. illus. vii pl. 27<sup>cm</sup>. (*On cover:* Occasional papers of the Natural history society of Wisconsin. Vol. II [no. 1])

**Peckham, George Williams.** North American spiders of the family Attidæ. By George W. and Elizabeth G. Peckham . . . [Madison] 1888.

104 p., 1 l. vi pl. 24<sup>cm</sup>.  
Reprinted from the Transactions of the Wisconsin academy of sciences, arts and letters. Vol. vii, September, 1888.

**Peckham, George Williams.** Observations on sexual selection in spiders of the family Attidæ. By George W. and Elizabeth G. Peckham. Milwaukee, Natural history society of Wisconsin, 1889.

60 p., 3 l. illus., iii pl. (2 col.) 27<sup>cm</sup>. (*On cover:* Occasional papers of the Natural history society of Wisconsin. Vol. I [no. 1])

**Peckham, George Williams.** Spiders of the family Attidæ from Central America and Mexico. By George W. and Elizabeth G. Peckham. Milwaukee, Natural history society of Wisconsin, 1896.

101, [1] p., 6 l., [2] p. vii pl. 27<sup>cm</sup>. (*On cover:* Occasional papers of the Natural history society of Wisconsin. Vol. III [no. 1] . . .)

**Peckham, George Williams.** Spiders of the Homalattus group of the family Attidæ, by George W. and Elizabeth G. Peckham. Milwaukee, Natural history society of Wisconsin, 1895.

1 p. l., [159]-178 p., 3 l. xv-xvi pl. 27<sup>cm</sup>. (*On cover:* Occasional papers of the Natural history society of Wisconsin. Vol. II, no. 3, 1895)

**Peckham, George Williams.** Spiders of the Marptusa group of the family Attidæ. By George W. and Elizabeth G. Peckham. Milwaukee, Natural history society of Wisconsin, 1894.

1 p. l., [85]-156 p. viii-xiv pl. 27<sup>cm</sup>. (*On cover:* Occasional papers of the Natural history society of Wisconsin. Vol. II, no. 2, 1894)

**Peckham, George Williams.** Spiders of the sub-family Lyssomanæ, by G. W. and E. G. Peckham and W. M. Wheeler . . . [Madison] 1888.

[221]-256 p. xi-xii pl. 25<sup>cm</sup>.  
Reprinted from the Transactions of the Wisconsin academy of sciences, arts and letters. Vol. vii, November, 1888.

## SOLPUGIDA.

**Banks, Nathan.** Synopses of North American invertebrates. *See under* Scorpionida, p. 460.

**Biologia centrali-americana** . . . Scorpiones, Pedipalpi, and Solifugæ. *See under* Scorpionida, p. 460.

**Hancock, Joseph Lane.** Description of a new species of Datames, with plate drawn from nature . . . [Philadelphia] 1887.

107-110 p. pl. 23<sup>cm</sup>.  
From the Proceedings of the American philosophical society, vol. xxv.

**Kraepelin, Karl.** Palpigradi und Solifugæ. *See under* Scorpionida, p. 460.

**Putnam, J. Duncan.** . . . Galeodes pallipes, Say. [Davenport, Ia., 1876]

[36]-36 p. illus. 24<sup>cm</sup>.  
From Proceedings of Davenport academy of natural sciences. vol. II.—December 2d, 1876.

## SCORPIONIDA.

**Banks, Nathan.** Synopses of North-American invertebrates. ix. The scorpions, solpugids, and Pedipalpi . . . Boston, 1900.

421-427 p. illus. 24<sup>cm</sup>.

From American naturalist, vol. xxxiv, no. 401.

**Berg, Carlos.** . . . Sobre el Thelyphonus maximus Tarnani . . . [Buenos Aires, 1898]

[55]-56 p. 24<sup>cm</sup>.

Comunicaciones del Museo nacional de Buenos Aires, t. 1. no. 2. ps. 55 y 56. 17 de diciembre de 1898.

**Biologia centrali-americana.** Arachnida. Scorpiones, Pedipalpi, and Solifugæ. By Reginald Innes Pocock, F. Z. S. [London, Pub. for the editor by R. H. Porter] 1902.

1 p. l., 71, [1] p., 12 l. 12 pl. 32<sup>cm</sup>.

Issued in parts.

Cover-titles: Biologia centrali-americana; or, Contributions to the flora and fauna of Mexico and Central America. Ed. by F. Ducane Godman.

Agr 5-499

**Brongniart, Charles J. E.** Fonctions de l'organe pectiniforme des scorpions; par M.M. Charles Brongniart et Gaubert. [Paris, 1891]

3 p. 27<sup>4</sup><sup>cm</sup>.

From Comptes rendus hebdomadaires des séances de l'Académie des sciences de Paris, tome 113.

**Kraepelin, Karl Mathias Friedrich.** . . . Palpigradi und Solifugæ bearb. von Prof. Dr. Karl Kraepelin . . . Berlin, R. Friedländer und sohn, 1901.

xi, 159 p. illus. 26<sup>cm</sup>. (Added t.-p.: Das tierreich. Eine zusammenstellung und kennzeichnung der rezenten tierformen. In verbindung mit der Deutschen zoologischen gesellschaft hrsg. von der Königlich preussischen akademie der wissenschaften zu Berlin . . . 12. lfg.)

Series note also at head of t.-p.

"Litteratur-kürzungen": p. [vi]-viii.

**Kraepelin, Karl Mathias Friedrich.** . . . Scorpiones und Pedipalpi bearb. von Prof. Karl Kraepelin . . . Ausgegeben in märz 1899. Berlin, R. Friedländer und sohn, 1899.

xviii, 265 p. illus. 26<sup>cm</sup>. (Added t.-p.: Das tierreich. Eine zusammenstellung und kennzeichnung der rezenten tierformen. Hrsg. von der Deutschen zoologischen gesellschaft . . . 8. lfg.)

Series note also at head of t.-p.

"Litteratur-kürzungen": p. [viii]-xi.

**Marchal, Paul.** La glande coxale du scorpion et ses rapports morphologiques avec les organes excréteurs des crustacés . . . [Paris, 1892]

3 p. 27 x 22<sup>cm</sup>.

From Comptes rendus . . . de l'Académie des sciences, t. 115, p. 191-193.

"Bibliography": p. 205.

"Contributions from the Embryological laboratory of the Museum of comparative zoology at Harvard college . . . no. xii.

**Parker, George Howard.** . . . The eyes in scorpions. By G. H. Parker . . . Cambridge [Mass.] Printed for the Museum, 1887.

cover-title, [173]-208 p. iv col. pl. 24<sup>4</sup><sup>cm</sup>. (Bulletin of the Museum of comparative zoology, at Harvard college. vol. xiii, no. 6)

**Tarnani, Ivan Konstantinovich.** . . . Anatomie de Thelyphonus caudatus (L.) . . . Варшава, Типографія Варшавскаго округа, 1904.

Agr 4-1879

2 p. l., iii, 288 p. illus., vi (i. e. x) pl. (2 fold.) 25<sup>4</sup><sup>cm</sup>. (Supplément du xvi. vol. des Mémoires [!] de l'Institut agronomique et forestier à Novo-Alexandria)

Added title and text in Russian.

Bibliography: p. [273]-279.

**Thorell, Tord Tamerlan Theod.** On Proscorpius Osbornei Whitfield . . . [Philadelphia, 1886]

269-274 p. 22<sup>4</sup><sup>cm</sup>.

From American naturalist. March, 1886

**Thorell, Tord Tamerlan Theod.** Pedipalpi e scorpioni dell'Arcipelago Malese conservati nel Museo civico di storia naturale di Genova . . . Genova, 1888.

104 p. 24<sup>4</sup>cm.

Estratto dagli Annali del Museo civico di storia naturale di Genova. ser. 2, vol. vi, 28 maggio-5 giugno 1888.

**Vilaró y Diaz, Juan.** Are scorpions matricides and suicides? [New York, 1897] 398-400 p. illus. 24<sup>cm</sup>.

From Appleton's popular science monthly, v. 51.

### PSEUDOSCORPIONIDA.

**Canestrini, Giovanni.** Chernetides italici auctore Joh. Canestrini . . . Padova, 1885.

pt. i. 20 pl. (partly col.)

Incomplete.

**Hagen, Herrmann August.** [Mode of locomotion in Chelifer and other pseudoscorpions] . . . [Boston, 1868]

323-325 p. 24<sup>cm</sup>.

From Proceedings of the Boston society of natural history, vol. xi, 1866-68.

**Moniez, Romain Louis.** . . . A propos des publications récentes sur le faux parasitisme des chernétides sur différents arthropodes . . . [Lille, 1893]

8 p. 25<sup>4</sup>cm.

Extrait de la Revue biologique du nord de la France. vi, n<sup>o</sup> 2, p. 47, novembre 1893.

**Moniez, Romain Louis.** . . . I.—Sur un pseudo-scorpion marin (Obisium littorale nov. sp.) II.—Sur la métamorphose et la migration d'un nématode libre (Rhabditis oxyuris Cls.) III.—Sur les constructions d'un ver de terre (Enterium rubellum Hoffm.) IV.—Sur la larve du Tænia grimaldii nov. sp. (Parasite du dauphin) Lille, 1889.

cover-title, 15 p. illus. 25<sup>4</sup>cm.

Extrait de la Revue biologique du nord de la France. tome II [année 1889]

### PHALANGIDA.

**Balbiani, Édouard Gérard.** Mémoire sur le développement des phalangides . . . [Paris, 1872]

28 p. 2 pl. 25<sup>cm</sup>.

From Annales des sciences naturelles, 5. sér., zoologie et paléontologie, t. xvi.

**Banks, Nathan.** . . . The Nemastomatidæ and Troglulidæ of the United States . . . [Cambridge, Mass., 1894]

2 nos. 24<sup>cm</sup>.

From Psyche. vol. 7, p. 11-12, 51-52.

**Banks, Nathan.** Synopses of North-American invertebrates. xvi. The Phalangida . . . Boston, 1901.

669-679 p. illus. 24<sup>cm</sup>.

From American naturalist. vol. xxxv, no. 416.

**Faussek, Victor Andr.** Zur anatomie and embryologie der phalangiden . . . Leipzig, 1892.

8 p. 23<sup>4</sup>cm.

Sonderabdruck aus dem "Biologischen centralblatt," bd. xii, nr. 1, 15. januar 1892.

**Hope, Frederick William.** On a new arachnide uniting the genera Gonyleptes and Phalangium . . . [London, 1834]

397-399 p. pl. 30<sup>cm</sup>.

From Transactions of the Linnean society of London, vol xvii.

**Thorell, Tord Tamerlan Theod.** Descrizione di alcune specie di opilioni dell'Arcipelago Malese appartenenti al Museo civico di Genova . . . [Genova, 1876]

28 p. 24<sup>4</sup>cm

Estratto dagli Annali del Museo civico di storia naturale di Genova, vol. ix, 1876-77.

**Thorell, Tord Tamerlan Theod.** Opilioni nuovi o poco conosciuti dell' Arcipelago Malese . . . Genova, 1891.

[3]-106 p. VIII-IX pl. 24 $\frac{1}{2}$ cm.

Estratto dagli Annali del Museo civico di storia naturale di Genova, ser. 2, vol. x (XXX) 11-28 aprile 1891.

**Weed, Clarence Moores.** . . . Descriptions of new, or little-known North American harvest-spiders (Phalangiidae) . . . [Philadelphia, 1892]

187-194 p. IV-X pl. 24 $\frac{1}{2}$ cm. (Contributions from the Zoological laboratory of the New Hampshire college. I)

Cover-title reads: New or little known North American harvest-spiders . . .

From the Transactions of the American entomological society, July, 1892.

**Weed, Clarence Moores.** . . . A descriptive catalogue of the harvest spiders (Phalangiidae) of Ohio. By Clarence M. Weed . . . Washington, Gov't print. off., 1893.

cover-title, 543-563 p. LVII-LXIX pl. 24 $\frac{1}{2}$ cm.

From the Proceedings of the United States national museum, vol. xvi, p. 543-563 . . . <no. 950>

**Weed, Clarence Moores.** . . . The harvest spiders of North America . . . [Philadelphia, 1890]

[914]-918 p. XXX-XXXI pl. 24 $\frac{1}{2}$ cm.

From the American naturalist, 1890.

**Weed, Clarence Moores.** A new phalangium. [Philadelphia, 1890]

783-785 p. pl. 24 $\frac{1}{2}$ cm.

From the American naturalist, August, 1890.

**Weed, Clarence Moores.** . . . A preliminary synopsis of the harvest-spiders (Phalangiidae) of New Hampshire . . . [Philadelphia, 1892]

261-272 p. illus., 6 pl. 24 $\frac{1}{2}$ cm. (Contributions from the Zoological laboratory of the New Hampshire college. III)

Cover-title reads: The harvest-spiders of New Hampshire . . .

From Transactions American entomological society, November, 1892.

**Weed, Clarence Moores.** . . . The striped harvest-spider: a study in variation . . . [Philadelphia, 1892]

cover-title, 999-1008 p. XXVII-XXIX pl. 24 $\frac{1}{2}$ cm. (Contributions from the Zoological laboratory of the New Hampshire college. II)

From the American naturalist, December, 1892.

**Wood, Horatio Curtis.** . . . On the Phalangeæ of the United States of America . . . [Salem, Mass., 1868]

31 p. illus. 23 $\frac{1}{2}$ cm.

From Communications of the Essex institute, vol. vi, 1868.

## ACARINA.

**Banks, Nathan.** . . . A treatise on the Acarina or mites. By Nathan Banks . . . Washington, Gov't print. off., 1904.

1 p. l., 114 p. illus. 24 $\frac{1}{2}$ cm.

"List of works useful in the study of American Acarina": p. 107-109.

From the Proceedings of the United States national museum, vol. xxviii, p. 1-114. <no. 1382>

**Berlese, Antonio.** . . . Ricerche sugli organi e sulla funzione della digestione negli acari. Portici, Premiato stab. tip. vesuviano, 1896.

cover-title, 42 p. illus., col. pl. 26 $\frac{1}{2}$ cm.

— Firenze, 1896.

[129]-195 p. illus., VIII-IX pl.

Estratto dalla Rivista di patologia vegetale, anno v. num. 5-8. 1896.

**Biologia centrali-americana.** Arachnida Acaridea. By Prof. Otto Stoll, M. D. [London, Pub. for the editors by R. H. Porter] 1886-93.

xvi, 55, [xvii]-xxi p. 21 pl. (partly col.) 82 $\frac{1}{2}$ cm.

Issued in parts.

Cover-titles: Biologia centrali-americana; or, Contributions to the knowledge of the flora and fauna of Mexico and Central America. Ed. by F. Ducane Godman and Osbert Salvin.

**Brucker, E. A.** . . . Monographie de *Pediculoides ventricosus* Newport; et, Théorie des pièces buccales des acariens . . . Paris, 1900. Agr 3—325

cover-title, [355]—442, [8] p. xviii—xxi pl. 25<sup>1/2</sup>cm.

At head of title: Bulletin scientifique de la France et de la Belgique . . . (Extrait du tome xxxv) "Index bibliographique": p. 437—441.

**Canestrini, Giovanni.** Prospetto dell acarofauna italiana, per Giovanni Canestrini . . . Padova, 1885—97.

pt. 1-7. front (port., v. 6) 93 (i. e. 98) pl. (1 col., 4 fold.) 22<sup>1/2</sup>cm. (v. v—vii: 23<sup>1/2</sup>cm)

Paged continuously, [pte. I]; 1 p. l. 158, [5] p.; [pte. II]; 1 p. l., 159—311 p.; [pte.] III; 1 p. l., 309—425 p., 1 l.; [pte.] IV; 2 p. l., [427]—540 p.; pte. v; 2 p. l., [543]—722 p.; pte. vi; 1 p. l., [723]—833 p.; pte. vii; 1 p. l., [835]—915 p., 2 l.

Parte v—vii have imprint: Padova, Stabilimento Prosperini, 1892—97.

Each part contains lists of works consulted.

CONTENTS.—[I.] Oribatini, gamasini, hoplopi, trombidini, rhyncholophini. 1885.—[II.] Erythræini, cheyletini, bdellini, eupodini e analgesini. 1886.—[III.] Tarsonemini e tirogliifini e appendice agli analgesini. 1888.—[IV.] Tetranychini, ixodini, argasini. 1890.—[V.] Intorno alla metamorfosi degli ixodini (nota). Abbozzo del sistema acarologico. Famiglia dei phytoptini (Phytoptidæ). 1892.—[VI.] Famiglia dei psoroptidi (Psoroptidæ). Appendice ai fitoptidi italiani. Varia: Psorergates, Hemisarcoptes, Histigogaster, Psoroptes ovis, Otodectes furonis. Gli epidermoptini. 1894.—[VII.] Famiglia dei listroforidi (Listrophoridæ), acaroidi dei formicai (dott. G. Leonardi), famiglia Canestrinidæ. Appendice alla fam. Psoroptidæ. 1897.

**Claparède, Édouard i. e. Jean Louis René Antoine Édouard.** Studien an acariden . . . Leipzig, 1868.

1 p. l., [445]—546 p. xxx—xl fold. col. pl. 23<sup>1/2</sup>cm.

Separat-abdruck aus der Zeitschr. für wiss. zoologie, xviii. bd.

**Dugès, Alfred.** Sur les acariens . . . [Paris] 1834.

2 p. illus. 27<sup>cm</sup>.

From Annales des sciences naturelles—Zoologie. ser. 2, v. 1, p. 15.

ms. copy.

**Froggatt, Walter Wilson.** . . . Description of a new mite belonging to the genus *Heteropus*, found in wasps' nests . . . [Sydney, 1894]

259—260 p. 23<sup>cm</sup>.

From vol. ix. (series 2nd) of the "Proceedings of the Linnæan society of New South Wales" (May 30th, 1894)

**Fürstenberg, Moritz Heinrich F.** Die krätzmilben der menschen und thiere, von M. H. F. Fürstenberg . . . Leipzig, W. Engelmann, 1861.

iv p., 1 l., 240 p. xv pl. 37<sup>cm</sup>.

**Great Britain—Board of agriculture.** . . . Mites on currant and nut trees. I. The black currant mite (*Phytoptus ribis*) II. The nut tree mite (*Phytoptus avellanæ*) [London, 1894]

4 p. illus. 22<sup>1/2</sup>cm. (*Its* [Leaflet] 1894 [no.] 1)

— [London, 1898]

4 p. illus. 22<sup>cm</sup>. (*Its* Leaflet, no. 1)

**Haller, Gottfried.** . . . Acarinologisches . . . [Berlin, 1881]

[182]—193 p. pl. 21<sup>cm</sup>.

From Archiv für naturgeschichte, vol. 47, 1881.

**Haller, Gottfried.** Beiträge zur kenntniss der schweizerischen milbenfauna. Von Dr. G. Haller . . . [n. p., 18—]

16 p. fold. pl. 20<sup>cm</sup>.

**Haller, Gottfried.** Beschreibung einiger neuen milben . . . [Berlin, 1884]

[217]—236 p. xv—xvi pl. 22<sup>cm</sup>.

From Arch. f. naturgesch., l. jahrg., 1. bd.

**Haller, Gottfried.** Die milben als parasiten der wirbellosen, in's besondere der arthropoden. Von G. Haller . . . Halle a. S., G. Schwetschke, 1880. Agr 4—3547

1 p. l., 89, [1] p. illus. 23<sup>1/2</sup>cm.

Chronologisch geordnete angabe der vorzüglichsten quellen über systematik, entwickelungsgeschichte, etc.: p. 3—4.

**Hubbard, Henry Guernsey.** Rust of the orange. (U. S. Agriculture, Commissioner of. Report of the Commissioner for the year 1884. Washington, 1884. p. 361—373. 2 pl.)

**Leland, E. R.** Mites, ticks and other Acari . . . [New York, 1879]

502-513 p. illus. 23½cm.

From Popular science monthly, vol. xiv.

**Leonardi, Gustavo.** Lettera al chiarissimo Prof. Giovanni Canestrini intorno ad alcune nuove specie di Acari italiani raccolte e descritte dal Dott. Gustavo Leonardi con la diagnosi di due specie nuove raccolte dal Dott. Antonio Berlese. Padova, 1895.

[5]-11 p. illus. 23cm.

"Estratto dagli Atti della Società veneto-trentina di scienze naturali, ser. II, vol. II, fasc. II."

**Leonardi, Gustavo.** Notizie intorno agli acaroidi viventi nei formicai; memoria del Dott. Gustavo Leonardi. Padova, R. stab. Proserpini, 1896. Agr 5-170

cover-title, 38 p. 23¼cm.

**MacLeod, Julius.** . . . Communication préliminaire relative à l'anatomie des acariens . . . [Bruxelles, 1884]

8 p. 22cm.

Extrait des Bulletins, Académie royale de Belgique, 3. sér., t. VII, no. 3, mars 1884.

**Marlatt, Charles Lester.** Scale insect and mite enemies of citrus trees. *See under Coccidæ*, p. 420.

**Michael, Albert Davidson.** . . . On some unrecorded parasitic Acari found in Great Britain . . . [London, 1889]

[400]-406 p. pl. 22cm.

Extracted from the Linnean society's Journal—Zoology, vol. xx.

**Packard, Alpheus Spring.** A chapter on mites . . . [Salem, Mass., 1870]

364-373 p. illus., pl. 23¼cm.

From the American naturalist, vol. III.

• **Ribaga, Constantino.** Diagnosi di alcune specie nuove di Hydrachnidæ e di un Ixodidæ del Sud America. Portici, 1903.

28 p. 2 fold. pl. 26cm.

Reprinted from Ann. d. R. Scuola sup. di agricoltura di Portici, vol. 5, 1903.

**Trouessart, Édouard Louis.** . . . Considérations générales sur la classification des acariens suivies d'un essai de classification nouvelle . . . Paris, 1892.

cover-title, 56 p. 25cm.

From Revue des sciences naturelles de l'ouest, oct. 1891, p. [289]-308; jan. 1892, p. 20-55.

#### EUPODIDÆ.

**Moniez, Romain Louis.** Histoire naturelle du Tydeus molestus acarien qui s'attaque à l'homme . . . Lille, 1894.

cover-title, 16 p. illus. 25cm.

Extrait de la Revue biologique du nord de la France [vi, n° 11, p. 419, août 1894]

**Topsent, Émile.** Sur un nouveau genre d'acarien sauteur (*Nanorchestes amphibius*) des côtes de la Manche; par MM. Topsent et Trouessart. [Paris, 1890]

3 p. 26½ x 21¼cm.

From Comptes rendus . . . de l'Académie des sciences, vol. 111, p. 891-892.

#### BDELLIDÆ.

**Karell, Lajos.** Zur anatomie von *Bdella arenaria* (Kramer) . . . [Wien, 1893]

421-430 p. iv-vi pl. 22¼cm.

From Verhandl. d. K. K. Zool. bot. ges. bd. XLIII, 1893.

#### CHEYLETIDÆ.

**Neumann, Louis Georges.** . . . Sur un acarien ("*Psorergates simplex*" Tyrrell) de la souris . . . [Toulouse] 1893.

cover-title, 8 p. fold. pl. 22¼cm.

Extrait de la Revue vétérinaire, avril 1893.



## TETRANYCHIDÆ.

**Great Britain**—*Board of agriculture*. . . . The red spider, or spinning mite (*Tetranychus telarius*, var. *humuli*?) [London, 1898]

4 p. illus. 2½<sup>cm</sup>. (*Its Leaflet* no. 41)

**Harker, Allen**. On a remarkable occurrence at Sharpness of the eggs of *Tetranychus lapidus*, observed by W. B. Clegram . . . [Gloucester] 1889

[396]—399 p. col. pl. 24<sup>cm</sup>.

Extracted from *Proceedings of the Cotteswold naturalists' field club*, vol. ix, pt. iv, 1889.

**Marlatt, Charles Lester**. Clover mite (*Bryobia pratensis* Garman) Washington, 1897.

4 p. illus. 23<sup>cm</sup>. (U. S. Agriculture, Dept. of—Entomology, Division of. Circular, ser. 2, no. 19)

**Mason, James Wood**-. Report on the tea-mite and the tea-bug of Assam. By J. Wood-Mason . . . London, Printed by Taylor and Francis, 1884.

20 p., 3 l. III col. pl. 25<sup>cm</sup>.

**Mayet, Valéry**. La maladie rouge de la vigne, par MM. V. Mayet et P. Viala. Montpellier, 1893.

18 p. col. pl. 25<sup>cm</sup>.

“Extrait des Annales de l'École nationale d'agriculture de Montpellier.”

**Thomas, Friedrich August Wilhelm**. . . . Über die lebensweise der stachelbeermilbe, *Bryobia ribis*, und deren verbreitung in Deutschland . . . Stuttgart [1896]

[80]—83 p. 24<sup>cm</sup>.

Sonderabdruck aus der “Zeitschrift für pflanzenkrankheiten.” VI. bd., 2. hft.

## TROMBIDIIDÆ.

**Altamirano, Fernando**. El tlalzahuate. Un caso de picadura.—Observación clínica.—Consideraciones acerca del proceso.—Descripción zoológica del tlalzahuate. [México, 1892]

196—199 p. pl. 27½<sup>cm</sup>.

From *El estudio*, órgano del Instituto médico nacional de México, t. iv, núm. 6.

**Berlese, Antonio**. Acari, Myriopoda et Scorpiones hucusque in Italia reperta. Ordo Prostigmata (*Trombidiidæ*) auctore Antonio Berlese . . . Patavii, sumptibus auctoris, 1882—93.

155 p. 170 pl. (partly col.) 24<sup>cm</sup>.

Plates 18—170 accompanied by one or more pages of descriptive text.

**Dugès, Alfred**. Description d'un nouvel acarien (*Alophus antonii*) . . . [Paris, 1885]

[4]—7 p. illus. 23½<sup>cm</sup>.

Extrait du Bulletin de la Société zoologique de France, t. x, 1885.

**Moniez, Romain Louis**. . . Sur la présence en France du *Cæculus echinipes* Dufour . . . [Lille, 1893]

[1] p. 25<sup>cm</sup>.

Extrait de la Revue biologique du nord de la France, 5. année, n° 12, septembre 1893.

## HYDRACHNIDÆ.

**Haller, Gottfried**. Die hydrachniden der Schweiz . . . Von Dr. G. Haller . . . Bern, Huber & comp. (H. Körber) 1882.

Agr 5—521

· 1 p. l., [18]—83 p. iv fold. pl. 21<sup>cm</sup>.

“Separat-abzug aus den Mittheilungen der Bern. naturf. gesellschaft, jahrg. 1881, 2. hft.”

**Haller, Gottfried**. Zur kenntniss der sinnesborsten der hydrachniden . . . [Berlin, 1882]

[32]—46 p. pl. 21<sup>cm</sup>.

From *Arch. f. naturgesch.*, xxxviii. jahrg., 1. bd.

**Moniez, Romain Louis.** Note sur l'Eylais erythrina. *See his* Sur un strongyle under Tyroglyphidæ, p. 469.

**Moniez, Romain Louis.** . . . Note sur une hydrachnide marine, Nautarachna asperimum, nov. gen., nov. sp. . . . Lille, 1888.

7 p. illus. 25<sup>cm</sup>.

Extrait de la Revue biologique du nord de la France [1. année, n° 2, novembre 1888]

**Moniez, Romain Louis.** . . . Note sur une pontarachne de Banyuls-sur-Mer, Pontarachna lacazei Moniez . . . Lille, 1890.

cover-title, 4 p. illus. 25<sup>cm</sup>.

"Bibliographie des hydrachnides marines": p. 4.

Extrait de la Revue biologique du nord de la France [2. année, n° 9, juin 1890]

**Piersig, Gustav Richard.** . . . Hydrachnidæ und Halacaridæ, bearb. von Dr. R. Piersig . . . und Dr. H. Lohmann . . . Berlin, R. Friedländer und sohn, 1901.

Agr 4—331

xviii, 336 p. illus. 26<sup>cm</sup>. (*Added t.p.*: Das tierreich. Eine zusammenstellung und kennzeichnung der rezenten tierformen. In verbindung mit der Deutschen zoologischen gesellschaft hrsg. von der Königlich preussischen akademie der wissenschaften zu Berlin . . . 13. lfg. . . .)

**Wolcott, Robert Henry.** . . . Description of a new genus of North American water mites, with observations on the classification of the group. Lincoln, Neb., 1901.

cover-title, [105]—117 p. pl. 23½<sup>cm</sup>. (Studies from the Zoological laboratory. The University of Nebraska. no. 41)

"Literature": p. 116.

Reprint from Transactions American microscopical society.

#### HALACARIDÆ.

**Piersig, Gustav Richard.** Hydrachnidæ und Halacaridæ. *See above under* Hydrachnidæ.

**Trouessart, Édouard Louis.** Note sur les acariens marins (Halacaridæ) récoltés par M. Henri Gadeau de Kerville sur le littoral du Département de la Manche (juillet-août 1893) . . . Paris, 1894.

cover-title, 1 l., [139]—175 p. illus., vii—xi pl. 25½<sup>cm</sup>.

Extrait des Recherches sur les faunes marine et maritime de la Normandie (1. voyage), par Henri Gadeau de Kerville. (Bulletin de la Société des amis des sciences naturelles de Rouen, 1. semestre 1894 . . .)

**Trouessart, Édouard Louis.** . . . Revue synoptique de la famille des Halacaridæ . . . Paris, 1889.

cover-title, [225]—251 p. 23½<sup>cm</sup>.

"Bibliographie": p. [225]—226.

Extrait du Bulletin scientifique de la France et de la Belgique [1889, t. xx]

**Trouessart, Édouard Louis.** Sur les acariens marins des côtes de France . . . [Paris, 1889]

3 p. 27 x 21½<sup>cm</sup>.

From Comptes rendus . . . de l'Académie des sciences . . . t. 108, janvier-juin 1889. p. 1178—1181.

#### IXODIDÆ.

**Banks, Charles S.** . . . The Australian tick (*Boophilus australis* Fuller) in the Philippine Islands. By Charles S. Banks. (*In* Philippine Islands. Bureau of government laboratories. [Publication] no. 14. Manila, 1904. 23<sup>cm</sup>. p. 13—21, illus., 9 pl.)

"Bibliography": p. 21.

**Barber, Charles Alfred.** Notes on ticks. St. John's, Antigua, W. I., 1894—95. pt. 1—3. 25<sup>cm</sup>.

From the Agricultural journal of the Leeward islands, no. 1, July, 1894, p. 4—9; no. 2, October, 1894, p. 36—44; no. 3, January, 1895, p. 57—66.

- Curtice, Cooper.** The cattle tick . . . [n. p., 1892]  
14 p. 23 $\frac{1}{2}$ cm.  
Reprints from the Journal of comparative medicine and veterinary archives, July, 1891, January, 1892.  
CONTENTS.—The biology of the cattle tick.—About cattle ticks.
- Dugès, Alfred.** Un nuevo ixodídeo . . . [México, 1892]  
4 p. pl. 31 $\frac{1}{2}$ cm.  
From *La naturaleza*, ser. 2, v. 2, 1892.
- Froggatt, Walter Wilson.** The fowl tick (*Argas americanus*, Packard).  
[Sydney, 1901]  
1349-1352 p. pl. 25cm.  
From the *Agricultural gazette of N. S. Wales*, vol. XII.
- Fuller, Claude.** The bovine tick fever. [Sydney, 1896]  
760-787 p. illus., 5 pl. 24 $\frac{1}{2}$ cm.  
From the *Agricultural gazette of New South Wales*, vol. VII, 1896.
- Fuller, Claude.** Notes on the Queensland cattle tick and its relationship to the Texas fever tick and the blue tick of Cape Colony (South Africa) . . . Brisbane, 1899.  
389-394 p. illus. 25cm.  
From the *Queensland agricultural journal*, vol. v.
- Fuller, Claude.** Ticks. A fowl-infesting tick (*Argas*, sp.) . . . [Sydney, 1896]  
590-597 p. illus. 25cm.  
From the *Agricultural gazette of New South Wales*, vol. VII.
- Haller, Gottfried.** . . . Vorläufige bemerkungen über das gehörorgan der ixodiden . . . [Leipzig, 1881]  
[2] p. illus. 21cm.  
Separat-abdruck aus dem "Zoologischen anzeiger," 1881, no. 79.
- Hunt, J. Sidney.** . . . Notes on the natural history and prevention of Texas fever . . . [Brisbane] 1898.  
446-456 p. 24 $\frac{1}{2}$ cm.  
From the *Queensland agricultural journal*, vol. III.
- Hunt, J. Sidney.** Tick fever . . . [Brisbane] 1898.  
235-238 p. 25cm.  
From the *Queensland agricultural journal*, vol. III.
- Jablonowski, József.** . . . Az óvantagról, mint a baromfi egyik élősdijéről és az ellene való védekezéséről . . . [Budapest, 1898?]  
8 p. illus. 26cm.  
At head of title M. Kir. rovtartani állomás, Budapest.
- Lahille, Fernando.** . . . Contribution à l'étude des ixodidés de la République Argentine par le Dr. F. Lahille . . . Buenos Aires, Imprimerie du Bureau météorologique, 1905.  
166 p. illus. (incl. diags.) XIII pl. (12 col.) 26 $\frac{1}{2}$ cm. (República Argentina. Anales del Ministerio de agricultura. Sección de zootecnia, bacteriología, veterinaria y zoología. tomo II. núm. 2)
- New South Wales—Dept. of agriculture.** . . . Cattle tick. The cattle tick (*Boophilus bovis*, Riley, sp.) Biology by Cooper Curtice . . . Preventive measures by Dr. M. Francis . . . Notes on the Queensland tick, by Claude Fuller . . . Sydney, 1896.  
1 p. l., 18 p. illus., III pl. 25cm.  
From *Agricultural gazette of N. S. Wales*, vol. VII, July, 1896.  
First two parts reprinted from Bulletin no. 24 of the Texas agricultural experiment station, December, 1892.
- Pound, Charles Joseph.** Tick fever. Observations on ticks and tick fever at the Indoooropilly experiment station and at St. Helena . . . [Brisbane, 1899]  
81-89 p. CXX-CXXI pl. 25cm.  
From the *Queensland agricultural journal*, vol. V, 1899.

**Salmon, Daniel Elmer.** The cattle ticks (Ixoidea) of the United States. By D. E. Salmon . . . and Ch. Wardell Stiles. (U. S. Agriculture, Dept. of—Animal industry, Bureau of. 17th annual report, 1900. Washington, 1901. 23<sup>cm</sup>. pp. 380–491. illus., 24 pl)  
 "Bibliography": p. 478–488.

## GAMASIDÆ.

- Banks, Nathan.** A new genus of endoparasitic acarians . . . Batavia, 1901.  
 3 p. 22 $\frac{1}{2}$ <sup>cm</sup>.  
 Overgedrukt uit het Geneeskundig tijdschrift voor Ned.-Indië, deel xli, afl. 2.
- Berlese, Antonio.** Acari, Myriopoda et Scorpiones hucusque in Italia reperta. Ordo Mesostigmata (Gamasidæ) auctore Antonio Berlese . . . Patavii, Sumptibus auctoris, 1882–92.  
 2 p. l., 143 p. 169 pl. (partly col.) 2 fold. tab. 24<sup>cm</sup>.  
 Plates 12–169 accompanied by one or more pages of descriptive text.
- Michael, Albert Davidson.** Observations on the special internal anatomy of Uropoda krameri . . . [London, 1889]  
 15 p. pl. 24 $\frac{1}{2}$ <sup>cm</sup>.  
 Reprinted from the Journal of the Royal microscopical society [v. 9, 1889]
- Riley, Charles Valentine.** On an extensile penetrating organ in a gamasid mite . . . [Salem, 1877]  
 273–275 p. illus. 24<sup>cm</sup>.  
 From Proceedings of the American association for the advancement of science, 25th meeting, 1876.

## ORIBATIDÆ.

- Berlese, Antonio.** Acari, Myriopoda et Scorpiones hucusque in Italia reperta. Ordo Cryptostigmata (Oribatidæ) auctore Antonio Berlese. Portici, Sumptibus auctoris, 1882–96.  
 96, [2] p. front (port.) 123 pl. (partly col.) 23<sup>cm</sup>.  
 Plates 12–114 accompanied by one or more pages of descriptive text.
- Michael, Albert Davidson.** British Oribatidæ. By Albert D. Michael . . . London, Printed for the Ray society, 1884–88.  
 2 v. LIV (i. e. 62) pl. (partly col.) 22 $\frac{1}{2}$ <sup>cm</sup>. (*Added t.-p.*: The Ray society . . . [Publication])  
 Paged continuously: [vol I] 2 p. l., xi, 336 p., 31 l.; vol. II.: xi, 337–657 p., 31 l.  
 "Bibliography. Books and papers giving information relative to the Oribatidæ": v. 2, p. 619–627.
- Michael, Albert Davidson.** . . . Oribatidæ by A. D. Michael . . . Ausgegeben im juli 1898. Berlin, R. Friedländer und sohn, 1898.  
 xii, 93 p. illus. 26<sup>cm</sup>. (*Added t.-p.*: Das tierreich. Eine zusammenstellung und kennzeichnung der rezenten tierformen. Hrsg. von der Deutschen zoologischen gesellschaft . . . 3. lfg.)  
 Series note also at head of t.-p.  
 "Abbreviations of the titles of literature": p. [vi]–viii.
- Moniez, Romain Louis.** . . . Eremæus Fockeui, oribatide nouveau . . . Lille, 1891.  
 cover-title, 3 p. illus. 25<sup>cm</sup>.  
 Extrait de la Revue biologique du nord de la France [3. année, n<sup>o</sup> 6, mars 1891]
- Moniez, Romain Louis.** . . . Sur une question de priorité à propos de l'Eremæus Fockeui Mz (E. minimus Berl.) . . . [Lille, 1891]  
 2 p. 25<sup>cm</sup>.  
 Extrait de la Revue biologique du nord de la France, 3. année, n<sup>o</sup> 11, août 1891.

## TARSONEMIDÆ.

- Moniez, Romain Louis.** . . . Notes faunistiques; Disparipes bombi Michaël [Lille, 1890]  
 [1] p. 25<sup>cm</sup>.  
 Extrait de la Revue biologique du nord de la France, 3. année, n<sup>o</sup> 3, décembre 1890.

## TYROGLYPHIDÆ.

**Haller, Gottfried.** Zur kenntnis der tyroglyphen und verwandten. . . . [Leipzig, 1879?]

[255]-295 p. ix-xi col. pl. (2 fold.) 23 $\frac{1}{2}$ cm.

From Zeitschrift f. wissensch. zoologie. xxxiv. bd.

**Lignières, Joseph.** . . . Étude zoologique et anatomique du Tyroglyphus malus et sa nymphe hypopiale . . . Paris, 1893.

11 p. illus. 25<sup>em</sup>.

Extrait des Mémoires de la Société zoologique de France, tome vi, p. 5-15.

**Michael, Albert Davidson.** British Tyroglyphidæ. By Albert D. Michael . . . London, Printed for the Ray society, 1901-03. 4-5004

2 v. xxxix pl. (partly col.) 22 $\frac{1}{2}$ cm. (Added t.-p.: The Ray society . . . [Publications] 1901,1903)

"Bibliography": v. 2, p. 152-162.

**Michael, Albert Davidson.** The Hypopus question or the life-history of certain Acarina . . . [London, 1884]

371-394 p. pl. 22<sup>em</sup>.

From Journal of the Linnean society. Zoology. v. 17.

**Michael, Albert Davidson.** Notes on the life-histories of some of the little-known Tyroglyphidæ . . . [London, 1885]

14 p. pl. 23 $\frac{1}{2}$ cm.

Reprinted from the Journal of the Royal microscopical society [ser. II, vol. v, 1885]

**Michael, Albert Davidson.** Researches into the life-histories of Glyciphagus domesticus and G. spinipes . . . [London, 1888]

[285]-298 p. pl. 22<sup>em</sup>.

Extracted from the Linnean society's Journal—Zoology, vol. xx.

**Moniez, Romain Louis.** . . . Contribution à l'histoire naturelle du Tyroglyphus mycophagus Mégnin . . . Paris, 1892.

cover-title, 18 p. illus. 25<sup>em</sup>.

Extrait des Mémoires de la Société zoologique de France [t. v, p. 584, année 1892]

**Moniez, Romain Louis.** . . . Notes sur quelques espèces de tyroglyphides qui vivent aux dépens des matières alimentaires et des produits pharmaceutiques . . . Lille, 1894.

cover-title, 18 p. 25<sup>em</sup>.

Extrait de la Revue biologique du nord de la France [vi, n° 12, p. 442, septembre 1894]

**Moniez, Romain Louis.** . . . I.—Sur un strongle de la paroi stomacale des lièvres et des lapins de garenne. II.—Parasitisme accidentel sur l'homme du Tyroglyphus farinæ. III.—Note sur l'Eylais erythrina Lucas . . . Lille, 1889.

cover-title, 8 p. 25 $\frac{1}{2}$ cm.

Extrait de la Revue biologique du nord de la France. [1. année, 1889]

**Nalepa, Alfred.** Die anatomie der tyroglyphen . . . [Wien] 1884-85.

2 pts. 5 pl. 25<sup>em</sup>.

Abth. I aus dem xc. bande der Sitzb. der K. Akad. der wissensch. I. abth. juli-heft, jahrgang 1884, s. 197-228; abth. II aus dem xcii. bande. I abth. juli-heft, 1885, s. 116-167.

**Osborn, Herbert.** A new mite infesting mushrooms . . . [New York, 1893]

[1] p. illus. 29<sup>em</sup>.

From Science. vol. xxii, no. 569, p. 360.

**Tryon, Henry.** . . . Cheese mites . . . [Brisbane] 1903.

56-58 p. illus. 25<sup>em</sup>.

From the Queensland agricultural journal, vol. xiii, July 1, 1903.

## ANALGESIDÆ.

**Haller, Gottfried.** Revision der gattung Analges Nitzsch sive Dermaleichus Koch . . . Leipzig, W. Engelmann, 1877.

1 p. l., 31, [1] p. fold. pl. 23 $\frac{1}{2}$ cm.

Inaug.-dis.—Zurich.

"Abdruck aus der Zeitschrift für wiss. zoologie. xxx. bd. 1. hft."

**Haller, Gottfried.** Über den bau der vögelbewohnenden sarcoptiden (Derma-leichidæ) . . . [Leipzig, 1881]

[365]-388 p. illus., xxiv-xxv pl. (1 fold.) 23½cm.

From Zeitschrift f. wissenschaft. zoologie. xxxvi. bd.

**Tyrrell, Joseph Burr.** On some Canadian ectoparasitic Sarcoptidæ . . . [Ot-tawa, 1882]

38-48 p. 21cm.

From Ottawa field-naturalists' club. Transactions no. 3.

#### SARCOPTIDÆ.

**Berlese, Antonio.** Acari, Myriopoda et Scorpiones hucusque in Italia reperta. Ordo Cryptostigmata (Sarcoptidæ) auctore Antonio Berlese . . . Portici, Sumptibus auctoris, 1882-1897.

190 p. 241 pl. (partly col.) 3 tab. 23½cm.

Bound in 3 v.

Plates 16-241 accompanied by one or more pages of descriptive text.

**Canestrini, Giovanni.** Demodicidæ und Sarcoptidæ. *See under* Demodicidæ, p. 473.

**Gerlach, A. C.** Krätze und räude. Entomologisch und klinisch bearb. von A. C. Gerlach . . . Berlin, A. Hirschwald, 1857.

2 p. l., 178 p. viii pl. 22½cm.

**Lignières, Joseph.** Étude zoologique et anatomique de l'Hemisarcoptes cocci-sugus . . . [Paris, 1893]

12-21 p. illus. 25cm.

Extrait des Mémoires de la Société zoologique de France, tome vi, p. 16-25.

**Mégnin, Pierre, i. e. Jean Pierre.** Monographie de la tribu des sarcoptides psoriques (subdivision de la famille des sarcoptides, ordre des acariens) tribu qui comprend tous les acariens de la gale de l'homme et des animaux (moins le Demodex folliculorum, qui appartient à une autre famille) par J.-P. Mégnin . . . Paris, E. Deyrolle fils [1877]

Agr 5-292

189 p. 13 pl. 25cm.

"Index bibliographique": p. [171]-175.

Extrait de la Revue et magasin de zoologie, v. 5, 1877.

**Neumann, Louis Georges.** . . Sur une nouvelle forme de gale sarcoptique (Sarcoptes scabiei) chez le lapin domestique . . . [Toulouse, 1892]

7 p. 24½cm.

Extrait de la Revue vétérinaire, mars 1892.

**Raspail, François Vincent.** Naturgeschichte des insekts der krätze. Ver-gleichende untersuchungen von F. V. Raspail. Aus dem französischen, mit anmer-kungen von G. K. Leipzig, L. Voss, 1835.

viii, 81 p. ii pl. 22cm.

**Trouessart, Édouard Louis.** . . . Un type nouveau de sarcoptides plumicoles, le Chirodiscus amplexans, g. n., sp. n., par E. Trouessart et G. Neumann. Paris, 1890.

cover-title, [392]-398 p. illus., pl. 25cm.

From Bulletin scientifique de la France et de la Belgique [1890, t. xxii]

#### CYTOLEICHIDÆ.

**Taylor, Thomas.** Internal parasites in the common fowl . . . [Buffalo, 1883]

cover-title, 131-133 p. illus. 33½cm.

Reprinted from the Proceedings of the American society of microscopists. Chicago meeting, 1883.

#### ERIOPHYIDÆ.

**Collinge, Walter Edward.** . . . Some recent investigations on the black-currant gall-mite, Eriophyes ribis (Nalepa) By Walter E. Collinge . . . Birming-ham [Eng.] J. G. Hammond & co., limited, 1904.

Agr 4-892

3 p. l., 12 p. illus., fold. pl. 23cm. (Reports on economic zoology, no. 1.)

**Great Britain**—*Board of agriculture*. . . . The black currant mite (*Phytoptus ribis*) [London, 1893]

3 p. illus. 24<sup>cm</sup>. (*Its* [Leaflet] 1893 [no.] 1)

**Kieffer, Jean Jacques**. Dritter beitrug zur kenntniss der in Lothringen vorkommenden phytoptoecidien . . . [Leipzig] 1886.

[409]-420 p. 21<sup>4</sup><sup>cm</sup>.

From *Zeitschrift für naturwissenschaften*, bd. LIX. 1886.

**Kieffer, Jean Jacques**. . . . Neue mittheilungen über lothringische milbengallen . . . [Cassel] 1889.

6 p. 23<sup>cm</sup>.

From *Botanisches centralblatt*, vol. xxxvii, 1889.

**Lagerheim, Gustav de**. . . . Einige neue acarocidien und acarodomatien . . . [Berlin, 1892]

611-619 p. illus. 24<sup>cm</sup>.

Sonderabdruck aus den Berichten der Deutschen botanischen gesellschaft, jahrgang 1892, bd. x, hft. 10.

**Leonardi, Gustavo**. . . . Elenco dei fitoptidi europei . . . Avellino, 1895.

37 p. 23<sup>4</sup><sup>cm</sup>.

Estratto dalla *Rivista di patologia vegetale*, anno III.—N. 5-12.

**Löw, Franz**. Beiträge zur kenntniss der milbengallen (*phytoptoecidien*) . . . Wien, 1878.

1 p. l., 24 p. pl. 23<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1878> besonders abgedruckt.

**Löw, Franz**. Beiträge zur naturgeschichte der gallmilben (*Phytoptus Duj.*) . . . Wien, 1874.

14 p. pl. 22<sup>4</sup><sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1874> besonders abgedruckt.

**Löw, Franz**. Beschreibung von neuen milbengallen nebst mittheilungen über einige schon bekannte . . . Wien, 1879.

13 p. 23<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1879> besonders abgedruckt.

**Löw, Franz**. Mittheilungen über phytoptoecidien . . . Wien, 1881.

10 p. pl. 23<sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1881> besonders abgedruckt.

**Löw, Franz**. Nachträge zu meinen arbeiten über milbengallen . . . [Wien, 1875]

12 p. 22<sup>4</sup><sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1875> besonders abgedruckt.

**Löw, Franz**. Ueber milbengallen (*acarocidien*) der Wiener-egend . . . [Wien, 1874]

[495]-508] 22<sup>4</sup><sup>cm</sup>.

From Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien, v. 24, pt. 3-4, 1874.

**Löw, Franz**. Ueber neue und schon bekannte phytoptoecidien . . . Wien, 1885.

20 p. 22<sup>4</sup><sup>cm</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in Wien <jahrgang 1885> besonders abgedruckt.

**Nalepa, Alfred**. Beiträge zur systematik der phytopten . . . Wien, 1889.

45 p. IX pl. 25<sup>cm</sup>.

Aus den Sitzungsberichten d. Kais. akademie d. wissenschaften in Wien. Mathem.-naturw. classe; bd. xcviij. abth. 1. Jänner 1889.

- Nalepa, Alfred.** . . . Eriophyidae (Phytopidae), bearb. von Prof. Dr. Alfred Nalepa . . . Ausgegeben in august 1898. Berlin, R. Friedländer und sohn, 1898.  
ix, 74 p. illus. 26<sup>cm</sup>. (*Added t.-p.*: Das tierreich. Eine zusammenstellung und kennzeichnung der rezenten tierformen. Hrsg. von der Deutschen zoologischen gesellschaft . . . 4. lfg.)  
Series note also at head of t.-p.  
"Litteratur-kürzungen": p. [vi]
- Nalepa, Alfred.** Genera und species der familie Phytoptida, von Dr. Alfred Nalepa . . . Wien, Aus der Kaiserlich-königlichen hof- und staats-druckerei, in commission bei F. Tempsky, 1891. Agr 3—1259  
20 p. iv pl. 30<sup>cm</sup>.  
Besonders abgedruckt aus dem LVIII. bande der Denkschriften der mathematisch-naturwissenschaftlichen classe der Kaiserlichen akademie der wissenschaften.
- Nalepa, Alfred.** Die naturgeschichte der gallmilben. [Wien, Im selbstverlage der anstalt, 1894] Agr 3—300  
[3]-30 p. 24<sup>cm</sup>.  
"Litteratur": p. 4.  
From IX. jahresbericht über das K. K. Staatsgymnasium in Wien; IV. gemeindebezirk, für das schuljahr, 1893-94.
- Nalepa, Alfred.** . . . Neue gallmilben. Von. Prof. Dr. Alfred Nalepa . . . Halle, 1891. Agr 3—1260  
35 p. 4-pl. 30<sup>cm</sup>. (Nova acta der Ksl. Leop.-Carol. Deutschen akademie der naturforscher. bd. LV. nr. 6)
- Nalepa, Alfred.** Zur systematik der gallmilben . . . Wien, 1890.  
30 p. VII pl. 25<sup>cm</sup>.  
Aus den Sitzungsberichten d. Kais. akademie d. wissenschaften in Wien. Mathem.-naturw. classe; bd. xcix. abth I. Februar 1890.
- Newstead, Robert.** The currant bud-mite or currant gall-mite (Phytoptus ribis, Westwood) . . . London, 1901.  
cover-title, 15, [1] p. illus. 24<sup>1/2</sup>cm.  
Reprinted from the Journal of the Royal horticultural society [vol. xxv, pt. 3]
- Newstead, Robert.** Recent investigations on the currant-bud mite (Phytoptus ribis) . . . Warrington [1894]  
8 p. pl. 22<sup>1/2</sup>cm.  
Reprinted from "The British naturalist" for June, 1894.
- Schlechtendal, Diederich Hermann Reinhart von.** . . . Ueber einige zum theil neue phytoptoecidien . . . [Zwickau, 1882]  
44 p. III pl. 21<sup>1/2</sup>cm.  
Separatabdruck des Jahresberichts des Vereins für naturkunde zu Zwickau 1882.
- Schlechtendal, Diederich Hermann Reinhart von.** Uebersicht der bis zur zeit bekannten mitteleuropäischen phytoptoecidien und ihrer litteratur . . . [Leipzig, 1882]  
[1], [480]-561 p. 21<sup>1/2</sup>cm.  
Separatabdruck aus "Zeitschrift f. naturw." bd. LV. 1882, hft. 5.  
"Uebersicht der litteratur über Phytoptus und phytoptoecidien bis zum jahre 1872": p. 483-508.  
— — — Nachträge und berichtigungen. [Leipzig, 1883]  
[219]-222 p. 22<sup>cm</sup>.  
From Zeitschr. f. naturwiss. bd. LVI, 1883.
- Thomas, Friedrich August Wilhelm.** Aeltere und neue beobachtungen ueber phytoptoecidien . . . Halle a. S., 1877.  
1 p. l., 59 p. pl. 21<sup>cm</sup>.  
Separatabdruck aus der Zeitschrift für die gesammten naturwissenschaften. bd. 19, 1877 (mai-juni-hft.)
- Thomas, Friedrich August Wilhelm.** Beitrag zur kenntnis Alpiner phytoptoecidien, von Dr. Fr. A. W. Thomas . . . Gotha, Druck der Engelhard-Reyherschen hofbuchdruckerei, 1885. Agr 3—1268  
18 p. 25<sup>cm</sup>.  
Separatabdruck der wissenschaftlichen beilage zum Programm der Herzogl. Realschule und des Progymnasiums zu Ohrdruf.



**Thomas, Friedrich August Wilhelm.** Beiträge zur kenntniss der milbengallen und der gallmilben: die stellung der blattgallen an der holzgewächsen und die lebensweise von Phytoptus . . . Halle, 1874.

27 p. 21<sup>em</sup>.

Separat-abdruck aus Giebel's "Zeitschrift für die gesammten naturwissenschaften." bd. 42.

**Thomas, Friedrich August Wilhelm.** . . . Beschreibung neuer oder minder gekannter acarocedien (Phytoptus-gallen) von Dr. Friedrich A. W. Thomas . . . Eingegangen bei der Akademie den 22. nov. 1875. Dresden, 1876. Agr 3—1267

36 p. 3 pl. 27<sup>em</sup>. (Nova acta der Ksl. Leop.-Carol. Deutschen akademie der naturforscher. Bd. xxxiii. Nr. 2)

**Thomas, Friedrich August Wilhelm.** Entwicklungsgeschichte zweier Phytoptus-gallen an Prunus . . . [Halle, 1872]

10 p. 20<sup>1</sup>/<sub>4</sub><sup>em</sup>.

From Zeitschrift für die gesammten naturwissenschaften. bd. xxxix. p. 193-202.

**Thomas, Friedrich August Wilhelm.** Die rote stachelbeer-milbe, *Bryobia nobilis* C. L. Koch (?), ein in Deutschland bisher nicht beachteter schädiger des stachelbeerstrauches . . . [Berlin, 1894]

488-496 p. illus. 24<sup>1</sup>/<sub>4</sub><sup>em</sup>.

"Litteratur": p. 493-495.

"Aus Wittmack's, Gartenflora", 43. jahrg., 1894."

**Thomas, Friedrich August Wilhelm.** . . . Schädigung der stachelbeersträucher durch *Bryobia ribis* n. sp. . . . [n. p. 1894]

2 p. 23<sup>em</sup>.

Sonder-abdruck aus "Mittheilungen des Thür. bot. vereins," n. f., hft. vi, 1894, s. 10 u. 11.

**Thomas, Friedrich August Wilhelm.** Schweizerische milbengallen . . . [Halle, 1872]

459-475 p. 21<sup>em</sup>.

"Nachträgliche notiz zu dem aufsatze über schweizerische milbengallen . . .": p. 472-475.

From Zeitschr. f. d. ges. naturwiss. bd. xxxix, 1872.

**Thomas, Friedrich August Wilhelm.** . . . Ein sechstes phytoptoecidium von *Acer campestre* . . . [Halle, 1879]

[740]-745 p. 21<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Abdruck aus der Zeitschrift für die gesammten naturwissenschaften. bd. lii. 1879. september-october-hft.

**Thomas, Friedrich August Wilhelm.** Suldener phytoptoecidien . . . Wien, 1886.

14 p. 22<sup>1</sup>/<sub>4</sub><sup>em</sup>.

Aus den Verhandlungen der K. K. Zoologisch-botanischen gesellschaft in <jahrg. 1886> besonders abgedruckt.

**Thomas, Friedrich August Wilhelm.** . . . Ueber einige neue deutsche cecidien . . . [Berlin, 1882]

[50]-53 p. 24<sup>em</sup>.

Separatabzug aus den Sitzungsberichten des Botanischen vereins der provinz Brandenburg, xxiii [1881]

**Thomas, Friedrich August Wilhelm.** Ueber *Phytoptus* Duj. und eine grössere anzahl neuer oder wenig gekannter missbildungen, welche diese milben an pflanzen hervorbringen . . . Halle a/S., 1869.

1 p. l., [313]-366 p. pl. 21<sup>em</sup>.

Separatabdruck a. d. Zeitschrift für die gesammte. naturwissenschaften. bd. 33.

#### DEMODICIDÆ.

**Canestrini, Giovanni.** . . . Demodicidæ und Sarcoptidæ bearb. von Prof. G. Canestrini . . . und Prof. P. Kramer . . . Ausgegeben im april 1899. Berlin, R. Friedländer und sohn, 1899.

xvi, 193 p. illus. 26<sup>em</sup>. (*Added t.-p.*: Das tierreich. Eine zusammenstellung und kennzeichnung der rezenten tierformen. Hrsg. von der Deutschen zoologischen gesellschaft . . . 7. lfg.)

Series note also at head of t.-p.

"Litteratur-kürzungen": p. [vi]-viii.

## TARDIGRADA.

**Schultze, Karl August Sigismund.** Echiniscus Creplini, animalculum e familia Arctiscoidum, quod Friderico Christiano Henrico Creplino . . . sacra semi-sæcularia summorum artis honorum vigesimo septimo mensis Iulii die anni MDCCCXI ab ordine medicorum gryphico acceptorum ex ipsius ordinis mandato gratulabundus, dedicavit et descripsit Dr. Car. Aug. Sigism. Schultze . . . Gryphiæ, Typis F. G. Kunike Reg. Univers. typogr. [1861]

12 p. pl. 26 x 21<sup>cm</sup>.

**Shipley, Arthur Everett.** . . . An attempt to revise the family "Linguatulidæ" . . . Paris, 1898.

cover-title, [52]-80 p., 11. illus. 25<sup>cm</sup>.

"Literature:" p. 80.

"Extrait des Archives de parasitologie, I, n° 1, p. 52, année 1898."

**Stiles, Charles Wardell.** Bau- u. entwicklungsgeschichte v. Pentastomum proboscideum Rud. und Pentastomum subcylindricum Dies. . . Leipzig, 1891.

cover-title, [85]-167 p. VII-VIII fold pl. 23½<sup>cm</sup>.

"Litteraturverzeichnis": p. 150-155.

Separat-abdruck aus: Zeitschrift für wissenschaftliche zoologie. LII. 1.

## SERIALS.

**L'Abeille**; journal d'entomologie fondé par S. de Marseul, 1864-1904. v. 1-30, no. 10. plates. 8° (v. 1-27, 12°) Paris [1864]-1904.

Vol. 1-26 ed. by S. A. de Marseul; v. 27-30 by Société entomologique de France.

Vol. 1-10, title reads: *L'Abeille; mémoires d'entomologie par M. S.-A. de Marseul . . . avec la collaboration de plusieurs membres de la Société entomologique de France et autres entomologistes distingués.*

**Algiers (Département)**—*Syndicat de défense contre le phylloxéra.* . . . Bulletin officiel du Syndicat de défense contre le phylloxéra (loi du 28 juillet 1886) et revue de viticulture algérienne . . . [1.]-12. année. no. 1-56, 1887-1898. illus., plates. 8°. Alger, 1888-[98]

Wanting 9. année, no. 50-51.

At head of title: Département d'Alger.

1. année, title reads: . . . Bulletin officiel du Syndicat de défense contre le phylloxéra (loi du 28 juillet 1886)

**Allgemeine entomologische gesellschaft.** See *Allgemeine zeitschrift für entomologie.*

*Allgemeine zeitschrift für entomologie*; organ der "Allgemeinen entomologischen gesellschaft"; internationales organ für die interessen der allgemeinen und angewandten entomologie wie der insekten-biologie, April, 1896—Dec. 15, 1904. v. 1-9. illus. 4°. Neudamm [1896-1904]

Vol. 1-2, title reads: *Illustrierte wochenschrift für entomologie; internationales organ für alle interessen der insektenkunde; offizielles organ der Berliner entomologischen gesellschaft.*

Vol. 3-5, title reads: *Illustrierte zeitschrift für entomologie; internationales organ für die interessen der allgemeinen [etc.]*

Vol. 1-2 pub. weekly; v. 3-9 pub. semi-monthly.

Beginning with v. 10 (n. s. v. 1.) title reads: *Zeitschrift für wissenschaftliche insektenbiologie.*

**American entomological society, Philadelphia.** Proceedings of the Entomological society of Philadelphia. v. 1-6, 1861/3-66/7. illus., pl. (partly col.) 8°. Philadelphia, Printed by the Society, 1863-67. 3-1167

No more published. cf. v. 7, 1878/9 (app. p. 1) of the Society's Transactions.

For later series, see American entomological society, Philadelphia. Transactions.

**American entomological society, Philadelphia.** Transactions, June 1867-Aug. 1904. v. 1-30. illus. 8°. Philadelphia, 1867-1904.

For earlier series, see: American entomological society, Philadelphia. Proceedings.

Vol. 7-16, 1878-89, title reads: *Transactions of the American entomological society and Proceedings of the entomological section of the Academy of natural sciences.*

**American entomological society, Philadelphia.** See also **Practical entomologist.**

The **American entomologist**: an illustrated magazine of popular and practical entomology [monthly] . . . v. 1-2, Sept. 1868-Dec. 1870; v. 3 (2d ser. v. 1) Jan.-Dec. 1880. illus., col. pl. 4°. St. Louis, Mo., R. P. Studley & co., 1868-70; New-York, Hub pub. co., 1880. 3-26802

Title varies: 1868-Mar. 1870, The American entomologist . . . Apr.-Dec. 1870, The American entomologist and botanist . . . 1880, The American entomologist.

Editors: 1868-69, B. D. Walsh, C. V. Riley.—Jan.-Mar. 1870, C. V. Riley.—Apr.-Dec. 1870, C. V. Riley, George Vasey.—1880, C. V. Riley.

Publication suspended from 1871-79 inclusive.

Ceased publication with Dec. 1880.

**Archiv der insectengeschichte.** 8 hfte. 50 pl. 8°. Zürich [1781-86]

No more published. Ed. by J. C. Füessly.

**Association of economic entomologists.** Proceedings of 1st-16th annual meeting, 1889-1904. illus., plates. 8°. Washington, 1889-1904.

(U. S. Agriculture, Dept. of—Entomology, Division of. Insect life. v. 2, pp. 177-184; v. 3, pp. 180-250; v. 4, pp. 4-73; v. 5, pp. 67-130; v. 6, pp. 61-201; v. 7, pp. 55-215; Bulletin, new ser., 2, 6, 9, 17, 29, 26, 31, 37, 40, 46.)

**Assurance mutuelle contre le phylloxéra—Commission administrative.** . . . Rapport de la Commission administrative sur l'exercice 1883, 1888. 12°. Neuchâtel, 1884-89.

**Beiträge zu der insekten-geschichte**, hrsg. von Ludwig Gottlieb Scriba . . . 1.-[3.] hft. 4 p. l., 68, [2], [69]-194, [2], 195-280 p. xviii col. pl. 8°. Frankfurt, Varrentrapp und Wenner, 1790-93.

No more published.

**Beiträge zur entomologie**, besonders in bezug auf die schlesische fauna verfasst und hrsg. von den mitgliedern der Entomologischen section der Schlesischen gesellschaft für vaterländische kultur. 1. hft. vi p., 1 l., [5], 226 p. 17 pl. (2 col.) 8°. Breslau, In commission bei L. Voss in Leipzig, 1829. Agr 4-199

Ed. by J. L. C. Gravenhorst.

No more published.

**Belgium. Société entomologique de Belgique.** See **Société entomologique de Belgique.**

**Bericht über die wissenschaftlichen leistungen im gebiete der entomologie während des jahres 1838-95, 1897-1901**, 1. hälfte, 1902. 8°. Berlin, 1840-1903.

Generally published as part of *Archiv für naturgeschichte* and also of *Deutsche entomologische zeitschrift*.

**Berlin, Entomologischer verein in.** See **Berliner entomologische zeitschrift**; also **Deutsche entomologische zeitschrift**.

**Berliner entomologische zeitschrift** (1875-80, *Deutsche entomologische zeitschrift*); hrsg. von dem Entomologischen verein in Berlin, 1857-Aug. 1902. v. 1-47, hft. 2. illus. 8°. Berlin, 1857-1902.

Vol. 19-24, 1875-80, published under the title: *Deutsche entomologische zeitschrift*.

Since 1881 there have been two periodicals, the *Deutsche entomologische zeitschrift*, and the *Berliner entomologische zeitschrift*, each claiming to be the continuation of the original one.

Vol. 7 contains index v. 1-6, 1857-62; v. 12 contains index v. 7-12, 1863-68; v. 24 contains index v. 19-24, 1875-80.

**Bohemia. České společnosti entomologické.** See **Česke společnosti entomologické.**

**Bohemia. Societas entomologica Bohemiæ.** See **České společnosti entomologické.**

**Breslau, Verein für schlesische insectenkunde in.** Fest-schrift zur feier des fünfzigjährigen bestehens des Vereins . . . 1847-97. 141 p. 4° Breslau, 1897.

**Breslau, Verein für schlesische insectenkunde in.** See also **Zeitschrift für entomologie.**

**Brooklyn entomological society.** See *Entomologica americana*.

**Brussels. Société entomologique de Belgique.** See *Société entomologique de Belgique*.

**Bulletin d'insectologie agricole, journal mensuel de la Société centrale d'apiculture et d'insectologie; entomologie appliquée, 1875-Jan. 1890.** v. 1-15, no. 1. illus. 8°. Paris, 1876-[90]

**Calcutta. Indian museum.** See *Indian museum, Calcutta*.

**Cambridge entomological club.** Annual reports for 1882. 32°. Cambridge, Mass., 1883.

**Cambridge entomological club.** See also *Psyche*.

**Canada—Central experimental farm—Entomologist and botanist.** Report, 1887-1903. illus. 8°. Ottawa, 1888-1904.

From the Annual report on the Experimental farms, 1887-1903.

For earlier reports see *Canada—Agriculture, Dept. of—Entomologist*. Report.

**Canada—Dept. of agriculture—Entomologist.** Report, [1st-2d] 1884-85. 4°. [Ottawa, 1884-85]

For later reports see *Canada—Central experimental farm—Entomologist and botanist*.

**Canada, Entomological society of.** See *Entomological society of Canada*.

**Canadian entomologist, Aug. 1, 1868-Dec. 1904.** v. 1-36. illus. 8°. Toronto and London, Ont., 1869-1904.

Vol. 1-5, v. 18, no. 10-v. 36, ed. by C. J. S. Bethune; v. 6-18, no. 9, ed. by William Saunders.

**Cape of Good Hope—Dept. of agriculture—Government entomologist.** Report . . . for . . . 1895-June, 1904. plates. 8°. Cape Town, 1896-1905.

1896 in Dutch.

For earlier report, see *Cape of Good Hope—Dept. of lands, mines and agriculture—Entomological adviser*.

**Cape of Good Hope—Dept. of lands, mines and agriculture—Entomological adviser.** Report, 1892. f°. [n. p., 1893?]

For later reports, see *Cape of Good Hope—Dept. of agriculture—Government entomologist*.

**Carpenter, George Herbert.** Injurious insects and other animals observed in Ireland during . . . 1891-1903. 8°. [Dublin, 1892]-1904.

1891-1900, title reads: *Report on economic entomology for . . . 1891-1900*.

1901, title reads: *Injurious insects observed in Ireland*.

1891-1900 reprinted from the *Report of the Council of the Royal Dublin society*.

1901-03 are v. 1, pt. 3, no. 5; v. 1, pt. 4, no. 9; v. 1, pt. 5, no. 12 of the *Economic proceedings of the Royal Dublin society*.

**České společnosti entomologické.** Časopis, 1904. v. 1. illus. 8°. Praze [1904]

Has also Latin title: *Acta Societatis entomologicae Bohemicae*.

**Cistula entomologica, Oct. 15, 1869-Nov. 30, 1885.** v. 1-3, no. 29 (no. 1-29) pl. 8°. London, 1869-[85]

**City of London entomological and natural history society.** See *London. City of London entomological and natural history society*.

**Coleopterologische hefte.** Hrsg. unter mitwirkung mehrerer fachgenossen von E. von Harold. 16 nos. in 3 v. 2 col. pl. 8°. München, C. Merhoff's verlag, 1867-79.

— Inhalts-verzeichniss zu den Coleopterologischen heften I-XIV, zusammengestellt von B. Wagener. lxix, [1] p. 8° [n. p., 1876] [*Wüh Coleopterologische hefte*. no. XIV-XVI. München, 1875-79]

**Coleopterorum** novitates, recueil spécialement consacré à l'étude des coléoptères. Tome 1, 1. livr. 48 p. 11 col. pl. 8°. Rennes, R. Oberthür [1883]

No more published.

**Colorado biological association.** Bulletin. no. 1. 8°. Washington, D. C., 1890.

**Connecticut—Entomologist.** Report, 1st-3d, 1901-03. pl. 8°. New Haven, 1902-03. (Connecticut—Agricultural experiment station. Report for the year 1901. pt. 3; 1902, pt. 2; 1903, pt. 3)

**Copenhagen. Entomologisk forening.** See **Entomologiske meddelelser.**

**Correspondenz-blatt** des Entomologischen vereins "Iris" zu Dresden. See **Deutsche entomologische zeitschrift** hrsg. von der Gesellschaft Iris zu Dresden.

**Cyprus—Government.** . . . Report on the locust campaign of 1884, 1891-92, 1897. f°. London, 1884-97.

**Deutsche entomologische zeitschrift**; hrsg. von der Deutschen entomologischen gesellschaft, 1857-99, no. 3, 1st half; 1900, no. 1-2; 1901, no. 1-2; 1902, no. 1-2; 1903, no. 1-2; 1904, no. 1-2. 8°. pl. Berlin, 1857-1904.

1857-87 are numbered v. 1-31.

Vol. 1-19, 1857-75, published under the title: **Berliner entomologische zeitschrift.**

Since 1881 there have been two periodicals, the **Deutsche entomologische zeitschrift**, and the **Berliner entomologische zeitschrift**, each claiming to be the continuation of the original periodical.

Vol. 24, 1880, contains index v. 19-24, 1857-80; 1892 contains index 1887-92.

Hft. 3 of each jahrg. is **Bericht über die wissenschaftliche leistung im gebiete der entomologie.**

**Deutsche entomologische zeitschrift** hrsg. von der gesellschaft Iris zu Dresden in verbindung mit der Deutschen entomologischen gesellschaft zu Berlin; lepidoptero-logische hefte, 1884-1900. v. 1-13. plates. 8°. Berlin, 1884-99.

Vol. 1, 1884-88, title reads: **Correspondenz-blatt des Entomologischen vereins "Iris" zu Dresden.**

**Dresden, Gesellschaft Iris zu.** See **Deutsche entomologische zeitschrift** hrsg. von der Gesellschaft Iris zu Dresden.

**Entomologica americana**; a monthly journal of entomology. Pub. by the Brooklyn entomological society, Apr. 1885-Dec. 1890. v. 1-6. illus., plates. 8°. [Brooklyn, N. Y., 1885-90] 3-26805

Formed by the union of the Bulletin of the Brooklyn entomological society, and *Papilio*.

Editors: 1885-Mar. 1886, J. B. Smith.—Apr. 1886-Mar. 1887, J. B. Smith, G. D. Hulst.—Apr. 1887-Apr. 1889, G. D. Hulst, C. H. Roberts.—May 1889-Dec. 1890, J. B. Smith, F. H. Chittenden.

No more published.

**Entomological magazine** [quarterly] Sept. 1832-Oct. 1838. v. 1-5. illus., plates. 8°. London, 1833-38.

For later series, see **Entomologist.**

**Entomological news** [monthly] Jan. 1890-Dec. 1904. v. 1-15. 8°. Philadelphia, 1890-1904.

Vol. 1-5, 10-15, title reads: Entomological news and proceedings of the Entomological section of the Academy of natural sciences of Philadelphia.

**Entomological society of Canada.** Constitution & bye-laws of the Entomological society of Canada. cover-title, [4] p. 8°. [n. p., n. d.]

**Entomological society of London.** See **London, Entomological society of.**

**Entomological society of New South Wales, Sydney.** The transactions of the Entomological society of New South Wales [1863-73] v. 1-2. plates. 8°. Sydney, 1866-73. 2-24548

Each volume is in 5 pts.: v. 1, 1863-66; v. 2, 1867-73.

No more published.

**Entomological society of Ontario.** See **Ontario, Entomological society of.**

**Entomological society of Philadelphia.** See **American entomological society, Philadelphia.**

**Entomological society of Washington.** See **Washington [D. C.] Entomological society.**

**Entomologische blätter** aus der Schweiz, Apr. 1871-Apr. 1872. hft. 1-2. 24, 36 p. 8°. Zürich, Selbstverlag des verfassers [1871-72] 4-10097

K. Dietrich, editor.  
No more published.

**Entomologische litteraturblätter.** Repertorium der neuesten arbeiten auf dem gesamtgebiet der entomologie [monthly] . . . 1901-04. v. 1, no. 1-7, 9-12; v. 2, no. 2, 4-12; v. 3, no. 1-4, 6-12; v. 4, no. 1-4, 6-12. 8°. Berlin [1901-04]

Hrsg. von R. Friedländer & sohn.

**Entomologische monatsblätter**, Jan. 1876-Dec. 1880. v. 1-2. 8°. Berlin, 1876-80. Vol. 1 published as *Deutsche entomologische zeitschrift*, v. 20, no. 3; v. 2 published with v. 24, 1880, of same periodical, and bound with that volume.

**Entomologische nachrichten**, Jan. 1, 1879-Dec. 15, 1882, Jan. 1884-Dec. 1900. v. 5-8, 10-26. illus., plates. 8°. Berlin, etc., 1879-1900.

Vol. 5-8 ed. by F. Katter; v. 10-26 ed. by F. Karsch.

**Entomologische zeitung**, hrsg. von dem Entomologischen vereine zu Stettin, Jan. 1840-Oct. 1904. v. 1-65. illus. 8° (v. 1-14, 12°) Stettin, 1840-1904.

For earlier series, see *Stettin, Entomologischer verein zu. Jahresbericht*.

1876-1904, cover-title reads: *Stettiner entomologische zeitung*.

— *Repertorium der 23 ersten jahrgänge*, von 1840-1862. 172 p. 8° Stettin, 1862.

— — 1863-70. 74 p. 8°. Stettin [187-]

— — 1871-78. 120 p. 8°. Stettin, 1878.

— — 1879-86. 91 p. 8° Stettin, 1886.

**Entomologischer verein in Berlin.** See *Berliner entomologische zeitschrift*; also *Deutsche entomologische zeitschrift*.

**Entomologischer verein "Iris" zu Dresden.** See *Deutsche entomologische zeitschrift* hrsg. von der Gesellschaft Iris zu Dresden.

**Entomologischer verein zu Stettin.** See *Stettin, Entomologischer verein zu*.

**Entomologisk forening, Copenhagen.** See *Entomologiske meddelelser*.

**Entomologisk tidskrift** utgifven af Entomologiska föreningen i Stockholm, 1880-1904. v. 1-25. illus. 8°. Stockholm, 1880-1904.

Vol. 1-10 title reads: *Entomologisk tidskrift på föranstaltande af Entomologiska föreningen i Stockholm utgifven af Jacob Spångberg*.

— *Alfabetisk register* årg. 1-10, 1880-89. 66 p. 8°. Stockholm, 1890.

**Entomologiska föreningen i Stockholm.** See *Entomologisk tidskrift*.

**Entomologiske meddelelser**, udgivne af Entomologisk forening, 1895-May 1903. v. 5; ser. 2, v. 1-2, no. 2. 8°. Kjøbenhavn, 1895-1904.

**The Entomologist**, an illustrated journal of general entomology [monthly] May 1864-Dec. 1904. v. 2-37. illus., plates. 8°. London, 1865-1904.

Vol. 5-7, incomplete.

For earlier series see *Entomological magazine*.

Vol. 2-9, title reads: *Entomologist*; v. 10-13, title reads: *Entomologist, an illustrated journal of British entomology*.

Vol. 2-8 ed. by Edward Newman; v. 10-22 ed. by John Carrington; v. 23-37 ed. by Richard South.

**L'entomologiste genevois**; journal mensuel d'entomologie pure et appliquée, Jan.-Dec. 1889. v. 1. 8°. [Peney-Genève, 1889]

**Entomologist's annual** for 1855-71. plates. 16°. London, 1855-71.  
1855 is Ed. 2.

**Entomologist's monthly magazine**, June 1864-Dec. 1904. v. 1-40 (ser. 2, v. 15) illus., plates. 8°. London, 1864-1904. 6-2228

**Entomologist's record and journal of variation** [monthly] April 15, 1890-Dec. 15, 1904. v. 1-16. plates. 8°. [London, 1890-1904]

Wanting v. 14, no. 9; complete special index, v. 1, 6, 8-12.

Ed. by J. W. Tutt.

**Entomologist's** weekly intelligencer, Apr. 1856–Sept. 21, 1861. v. 1–10. illus. 8°. London [1856]–61.

Publication suspended Oct. 1856–Mar. 1857, and in its place was issued the *Substitute*, q. v.

**Finland**—*Landbrukstyrelse* See **Reuter, Enzo**. Berättelse öfver skadeinsekters uppträdande i Finland.

**Fitch, Asa**. First [–fourteenth] report on the noxious, beneficial and other insects, of the State of New York. Made to the State agricultural society, pursuant to an appropriation for this purpose from the Legislature of the state. By Asa Fitch . . . illus., plates. 8°. Albany, 1856–[70]

Originally published in "Transactions of the New York state agricultural society;" vol. xiv, p. 705–880; vol. xv, p. 409–559; vol. xvi, p. 315–490; vol. xvii, p. 637–753, vol. xviii, p. 781–854; vol. xx, p. 745–868; vol. xxi, p. 813–859; vol. xxii, p. 657–691; vol. xxiii, p. 778–823; vol. xxiv, p. 433–461; vol. xxvi, p. 487–543; vol. xxvii, p. 889–932; vol. xxix, p. 495–566; vol. xxx, p. 355–381.

1st–11th reports reprinted in 4 volumes, grouped as follows: 1st and 2d; 3d, 4th and 5th; 6th, 7th, 8th and 9th; 10th and 11th. Each volume has separate title page and index and consecutive paging.

**Florence. Reale stazione di entomologia agraria**. . . . Relazione intorno ai lavori della R. Stazione di entomologia agraria di Firenze per gli anni 1876–85. illus. 8°. Roma [etc.] 1878–88. (Ministero di agricoltura, industria e commercio. Direzione generale dell' agricoltura. Annali di agricoltura. 1878, vol. 1: 1879, num. 9; 1884, num. 89; 1888, num. 146)

By Ad. Targioni Tozzetti.

**Florence. Reale stazione di entomologia agraria**. Nuove relazioni intorno ai lavori. ser. 1, no. 1–6. illus. 8°. Firenze, 1899–1903.

**Florence. Reale stazione di entomologia agraria di Firenze**. See also "Redia."

**France**—*Ministère de l'agriculture*—*Direction de l'agriculture*. . . . Compte rendu des travaux du service du phylloxéra . . . Rapports et pièces annexes, lois, décrets, arrêtés et circulaires ministérielles relatifs au phylloxéra. Années 1878–1809. maps. 4°. Paris [1879]–1900.

Wanting Années 1884, 1886, 1888–89.

At head of title: *Ministère de l'agriculture. Direction de l'agriculture.*

1878–81, title reads: . . . *Commission supérieure du phylloxéra. Compte rendu et pièces annexes. Lois, décrets et arrêtés relatifs au phylloxéra.*

**France, Société entomologique de**. See *Société entomologique de France*.

**Le Frelon**; journal d'entomologie descriptive exclusivement consacré à l'étude des coléoptères d'Europe et des pays voisins, Apr. 1891–Sept. 3, 1904. année 1–12. 8°. Chateauroux [1891–1904]

Vol. 5 contains index v. 1–5.

**Friedländer, R., & sohn, pub.** See *Entomologische literaturblätter*.

**Georgia**—*State board of entomology*. Bulletin, Apr. 1899–Nov. 1904. no. 1–14. illus. 8°. Atlanta, 1899–1904.

**Gesellschaft Iris zu Dresden**. See *Deutsche entomologische zeitschrift* hrsg. von der Gesellschaft Iris zu Dresden.

**Harrisburg. Pennsylvania silk convention, 1839**. See *Pennsylvania silk convention, Harrisburg, 1839*.

**Hawaii**—*Entomologist*. Report of entomologist [Albert Koebele] 1894, 1896–97. 8°. Honolulu, 1894–97.

From the Biennial report of the Minister of the interior.

**Hungary**—*Königl. Ungar. Ackerbaumminister*. . . . Jelentés a Filloxeraügy állásáról Magyarországon az 1872–1893–ik években . . . illus., maps, tables. 8°–f°. Budapest [1881]–95.

Added title in French: *Rapport sur le phylloxéra en Hongrie pendant les années 1872–1893*.

1872–82, text and title in French only. 1883–93, main text in Hungarian with added summary in French.

**Hungary**—*Königl. Ungar. Ackerbauminister*. Jelentés az országos phylloxera-kisérleti állomás 1884-ik évi működéséről. Gróf Széchényi Pál, földmivelés-, ipar- és kereskedelemügyi m. kir. miniszter úr ö nagyméltóságának; benyújtotta Dr. Horváth Géza . . . IV. évfolyam. 1884 . . . pl. 8°-4°. Budapest, 1885.

**Illinois**—*State entomologist*. Bulletin. no. 1-4. 8°. Springfield & Champaign, 1887-[91?]

— no. 1. 2d ed. 8°. Springfield, Ill., 1887.

**Illinois**—*State entomologist*. Report of the Illinois state entomologist concerning operations under the horticultural inspection act. October 31, 1900. 30 p. 8°. Springfield, Ill., Phillips bros., state printers, 1900.

**Illinois**—*State entomologist*. First[-twenty-second] report of the State entomologist on the noxious and beneficial insects of the state of Illinois . . . illus., plates. 8°. Chicago [etc.] 1868-1903.

12th-14th wanting in separate form.

A 2d ed. of 1st report pub. in Bloomington in 1903. 1st report has title: *First annual report on the noxious insects of the state of Illinois*. By Benj. D. Walsh . . . From the appendix to the Transactions of the Illinois state horticultural society. Chicago, 1868. [2d]-[4th] reports have title: *First [-third] annual report of the noxious insects of the state of Illinois*. By William Le Baron . . . 1871-73. [5th] report has title: *Fourth annual report on the noxious and beneficial insects of the state of Illinois*. By William Le Baron . . . 1874. 6th report has title: *Sixth report of the State entomologist (Walsh, 1, Le Baron, 4, Thomas, 1) on the noxious and beneficial insects of the state of Illinois*. The first biennial report by Cyrus Thomas . . . 7th-11th reports have titles: *Seventh [-eleventh] report of the State entomologist . . . on the noxious and beneficial insects of the state of Illinois*. Second[-sixth] annual report by Cyrus Thomas. 1878-82. 12th-14th have title: *Twelfth [-fourteenth] report of the State entomologist on the noxious and beneficial insects of the state of Illinois*. First[-third] annual report of S. A. Forbes for the year 1882-[84]

In place of an annual report for 1885, a collection of essays entitled: "*Miscellaneous essays on economic entomology by the State entomologist and his entomological assistants*" was published as an appendix to the Transactions of the Department of agriculture . . . of Illinois for . . . 1885. After 1884 reports were not published annually.

15th-22d reports have titles: *Fifteenth [-twenty-second] report of the State entomologist on the noxious and beneficial insects of the state of Illinois*. Fourth[-eleventh] report of S. A. Forbes. 1889-1903.

6th-20th published as appendices to the Transactions of the Department of agriculture of Illinois.

"Outlines of entomology, published in connection with the author's annual reports upon injurious insects. Pt. first, including the order of Coleoptera. By William L. Baron . . ." In the [Fifth] report . . .

"Manual of economic entomology . . . [by Cyrus Thomas. Pt. I-III]" In the Sixth, Seventh and Ninth reports . . .

"Contribution to an economic bibliography of the chinch bug, 1785-1888": Appendix to the Sixteenth report . . .

"An analytical list of the entomological writings of Wm. Le Baron": Appendix to the Seventeenth report . . .

"On the Mediterranean flour moth (*Ephestia kuehniella* Zell.)" By W. G. Johnson . . . Appendix to the Nineteenth report . . .

**Illustrierte wochenschrift für entomologie**. See **Allgemeine zeitschrift für entomologie**.

**Illustrierte zeitschrift für entomologie**. See **Allgemeine zeitschrift für entomologie**.

**Indian museum, Calcutta**. Circulars on agricultural economic entomology. no. 1-6. illus. 8°. [Calcutta? 1903?]

By E. P. Stebbing.

CONTENTS.—no. 1. The rice sapper (*Leptocoris acuta*)—no. 2. The Bengal rice Hispa (*Hispa aenescens*)—no. 3. The sugar-cane borer (*Chilo simplex*)—no. 4. The rhinoceros or date-palm beetle (*Oryctes rhinoceros*)—no. 5. The north-west or migratory locust (*Acridium peregrinum*)—no. 6. The cut-worm (*Agrotis ypsilon*)

**Insect world**, a monthly magazine, Jan. 15, 1898-Dec. 15, 1904. v. 2-8. plates. 8°. Gifu, Japan [1898-1904]

Wanting v. 2, no. 2-4.

In Japanese.

Vol. 4-8 published by the Nawa entomological laboratory, Gifu, Japan.



**Insekten-börse**; internationales wochenblatt der entomologie, Jan. 1-Sept. 15, 1885; 1889; 1891; Aug. 1, 1893-Dec. 15, 1894; Dec. 29, 1898; Jan. 26, 1899; Jan. 30, 1902-Dec. 22, 1904. v. 2, no. 1-18; v. 6; v. 8; v. 10, no. 15-v. 11; v. 15, no. 52; v. 16, no. 4; v. 19, no. 5-v. 21. f°. Leipzig [1885-1904]

Incomplete,

Vol. 2-11 published semi-monthly.

Vol. 2-11, title reads; *Insekten-börse, internationales organ der entomologie.*

**L'intermédiaire des bombyculteurs & entomologistes** [monthly] Dec. 1901; Jan.-May, Dec. 1902; Feb.-Mar., May 1903; Jan., May, Dec. 1904. v. 1, no. 12; v. 2, no. 13-17, 24; v. 3, no. 26-27, 29; v. 4, no. 37, 41, 48. 8°. Chomérac [1901-04]

**Internationaler entomologenverein.** See *Societas entomologica.*

**Iris.** See *Deutsche entomologische zeitschrift* hrsg. von der Gesellschaft Iris zu Dresden.

**Italy. Società entomologica italiana.** See *Società entomologica italiana.*

**Jahrbücher der insectenkunde**, mit besonderer rücksicht auf die sammlung im Königl. Museum zu Berlin, hrsg. von Dr. Fr. Klug . . . 1. bd. viii, 296 p. 11 col. pl. 12°. Berlin, T. C. F. Enslin, 1834.

No more published.

**Journal of entomology**, descriptive and geographical, Apr. 1860-June 1866. 2 v. plates. 8°. London, 1862-65.

**Lausanne, Station viticole de.** . . . Phylloxera; rapport de la Station viticole du Champ-de-l'Air, à Lausanne pour l'exercice de 1888. 4°. Lausanne, Imprimerie F. Regamey, 1889.

At head of title: Canton de Vaud.

**Linnaea entomologica.** Zeitschrift hrsg. von dem Entomologischen vereine in Stettin. 1.-16. bd. plates. 8°. Berlin, Posen [etc.] E. S. Mittler, 1846-58; Leipzig, F. Fleischer, 1859-66. 3-24172

"Alphabetisches register zu den vier ersten bänden": v. 4, p. 428-441.

"Bibliographia librorum entomologicorum in America-Boreali editorum. Auctore Guil. Sharswood": v. 13, p. 333-353; v. 14, p. 256-264.

Preceded by *Zeitschrift für die entomologie.*

No more published.

**London. City of London entomological and natural history society.** Transactions . . . 1890/91-97/98, 1899/1900. illus. 8°. London [1892]-1901.

Vol. 8, 1898, contains index, v. 1-8.

**London, Entomological society of.** Transactions . . . 1834-1904. plates. 8°. London, 1834-1905.

Vol. 5, 1847-49, contains index v. 1-5, 1834-49; n. s. v. 5, 1858-61, contains index n. s. v. 1-5, 1860-61.

**Magazin der entomologie.** v. 1-4. plates. 8°. Halle, 1813-21.

Vol. 1, ed. by E. F. Germar; v. 2-4, ed. by E. F. Germar and J. L. T. F. Zincken, genannt Sommer. No more published.

**Magazin für die liebhaber der entomologie.** 2 v. illus. 8°. Zürich, 1778-79. Ed. by J. C. Füessly.

Continued under the title: *Neues magazin für die liebhaber der entomologie.*

**Magazin für insectenkunde**, 1801-07. v. 1-6. 8°. Braunschweig, 1802-07.

Ed. by Karl Illiger.

Vol. 5 contains index v. 1-5.

No more published.

**Marcellia.** Rivista internazionale di cecidologia [bi-monthly] Apr. 28, 1902-Nov. 25, 1904. v. 1-3, no. 4. 8°. Padova, 1902-04.

Ed. by A. Trotter.

**Marseille. Université—Faculté des sciences—Section de zoologie agricole.** Annales de la Faculté des sciences de Marseille, publiées sous les auspices de la municipalité et avec le concours du Conseil général des Bouches-du-Rhône. Section de zoologie agricole. Année 1898-1900, 1902. plates. 4°. Paris, 1898-1902.

**Massachusetts**—*Board of agriculture—Entomologist.* See **Packard, A. S.**

**Minnesota**—*Entomologist.* Annual report, 2d-9th, 1896-1904. illus. 8°. St. Paul, 1896-1904.

No report published for 1901.

7th published as Bulletin 77 of the Agricultural experiment station, under the title: *Insects notably injurious in 1902.*

**Miscellanea entomologica; revue entomologique internationale.** Éd. française [monthly] Jan. 1892-Dec. 1904. v. 1-12. illus., plates. 4° [Narbonne, 1892-1904]

**Mississippi silk company.** Circular no. 2 . . . 8°. Aberdeen, Miss., Examiner job office print, 1882.

**Missouri**—*Entomologist.* See **Riley, C. V.** Annual report.

**Moscow.** *Société impériale de naturalistes de Moscou.* Bulletin; partie entomologique. 1829-33. v. 1-6. plates. 8° Paris, 1836.

Half-title: *Bibliothèque entomologique.*

In 1 v., paged continuously: 2 p. l., xxviii, 386 p.

**Münchener koleopterologische zeitschrift.** Organ für allgemeine systematik der koleopteren und für die koleopteren-fauna der paläarktischen region, June 10, 1902-Dec. 29, 1904. v. 1-2, no. 2. 8° München [1903-04]

Ed. by Karl Daniel and Josef Daniel.

**Munich.** *Münchener entomologischer verein.* Mittheilungen, 1877-81. v. 1-5. pl. 8°. München, 1877-81.

**National convention of farmers, gardeners, and silk culturists.** Proceedings of the National convention of farmers, gardeners, and silk culturists, held at the Lyceum of natural history in the city of New York, on the 9th, 10th, and 11th days of October, 1845, in connection with the 18th annual fair of the American institute. 37 p., 1 l. 8° New York, A. Hanford, 1846.

— Proceedings of the National convention of farmers, gardeners and silk culturists, held at Mechanics' Hall, in the city of New York, on the 12th, 13th, and 16th days of October, 1846, in connection with the 19th annual fair of the American institute. 50 p. 8° New York, J. H. Jennings, 1846.

**National mosquito extermination society.** Bulletin no. 1. Nov. 1904. illus. 8°. [n. p., 1904]

**Nawa entomological laboratory, Gifu, Japan.** See *Insect world.*

**Nederlandsche entomologische vereeniging.** *Handelingen der Nederlandsche vereeniging.* 1. deel, 1. [-4.] stuk . . . 4°. Leiden, P. W. M. Trap, 1854-[57]

3-16134

Wanting 3. stuk.

Paged continuously: 2 p. l., 109 p., 1 l.

Contains "Verslag der [2.-12.] algemeene vergaderingen van de Nederlandsche entomologische vereeniging," 1846-56, under which title the reports are continued.

No more published.

**Nederlandsche entomologische vereeniging.** See also *Tijdschrift voor entomologie.*

**Neues magazin für die liebhaber der entomologie.** 3 v. in 1. 12°. Zürich, 1782-[86]

Wanting t. p. of v. 3.

Ed. by J. C. Füessly.

For earlier series, see *Magazin für die liebhaber der entomologie.*

**New Jersey**—*State board of agriculture.* Entomological circular. no. 1-20. 8° [n. p., 1898]

**New South Wales**—*Dept. of agriculture.* Entomological bulletin. no. 1. 8°. Sydney, 1891.

**New South Wales, Entomological society of.** See *Entomological society of New South Wales.*

**New York entomological club.** See *Papilio.*

**New York entomological society.** Journal [quarterly] Mar. 1893–Sept. 1897; Mar. 1898–Dec. 1904. v. 1–12. illus. 8°. New York, 1893–1904.

**New York (state)—Entomologist.** Report of the State entomologist to the regents of the University of the state of New York. For the year 1883. illus. 8°. [Albany, 1884]

By J. A. Lintner.

From the Thirty-seventh annual Report of the State museum of natural history.

**New York (state)—Entomologist.** First[–19th] report on the injurious and other insects of the state of New York, for . . . 1881–1903. illus., plates. 8°. Albany, 1882–1904.

1st–13th, by J. A. Lintner; 14th–19th, by E. P. Felt.

3d–13th, from the Report on the New York state museum; 14th–19th are Bulletin no. 24, 31, 36, 53, 64, 76 of the New York state museum.

**New York (state)—Entomologist.** See also **Fitch, Asa.**

**Nickerl, Ottokar.** Bericht über die im jahre 1879[–80, 1885, 1890] der landwirthschaft Böhmens schädlichen insecten, von Dr. O. Nickerl. 8°. Prag, 1880–91.

**Niederlausitz. Verein zur beförderung des seidenbaues.** See **Verein zur beförderung des seidenbaues in der mark Brandenburg und Niederlausitz.**

**North American entomologist;** ed. by A. R. Grote, July 1879–June 1880. v. 1. illus., plates. 8°. Buffalo [1880]

No more published.

**North Carolina—Department of agriculture—Division of entomology.** Entomological circular, Sept. 30, 1903–Oct. 20, 1904. no. 1–12. illus. 8°. Raleigh, [1903–04] Franklin Sherman, entomologist.

CONTENTS.—no. 1. Fly in wheat—how to control it.—no. 2. The cotton boll-worm (*Heliothis armigera*, Hubn.)—no. 3. The round-headed apple-tree borer (*Saperda candida*, Fabr.)—no. 4. Spraying apparatus.—no. 5. Lime, sulphur and salt wash for San Jose scale.—no. 6. Spraying apples and pears.—no. 7. The peach-tree borer, *Sannina exitiosa*, Say.—no. 8. The harlequin cabbage bug, *Murgantia histrionica*, Hahn.—no. 9. The potato-beetle, *Doryphora 10-lineata*, Say.—no. 10. Preparation and use of kerosene emulsion.—no. 11. The San Jose scale (*Aspidiotus perniciosus*, Comstock)—no. 12. The strawberry weevil, *Anthonomus signatus*, Say.

**Norway—Statsentomolog.** See **Schøyen, W. M.** Beretning om skadein-sekter.

**Ontario, Entomological society of.** Annual report, 1st–34th 1870–1903. illus., plates. 8°. Toronto, 1871–1904.

1st, title reads: 1st annual report of the noxious insects of the province of Ontario.

1st, published with Annual report of the Fruit growers' association of Ontario for 1870; never published separately.

— General index to the 13 annual reports, 1870–82. 35 p. 8°. Toronto, 1883.

**Ontario—Inspector of fumigation appliances.** Report, 1899–1903. illus. 8°. Toronto, 1900–04.

**Ontario—Inspector of San José scale.** Report, 1900, 1902. plates. 8°. Toronto 1901–03.

**Ormerod, Eleanor Anne.** Observations of injurious insects and common farm pests during the year [1877]–1900, with methods of prevention and remedy. By Eleanor A. Ormerod . . . fronts. (incl. 2 port.) illus., plates. 8°. London, Simpkin, Marshall, Hamilton, Kent & co., ltd., 1878–1901.

Reports for 1877, 1879–80 have title: **Notes of observations of injurious insects;** report for 1882 has title: **Report of observations of injurious insects during the year 1882, with methods of prevention and remedy, and special report on wireworm;** reports for 1883–97 have title: **Report of observations of injurious insects and common farm pests during the year 1883–97, with methods of prevention and remedy . . .**

Imprint of Report, 1877: London, T. P. Newman; imprint of Reports, 1879 & 1880: London, W. S. Sonnenschein & Allen.

— — — General index by Robert Newstead . . . to Annual reports of observations of injurious insects 1877–1898. By Eleanor A. Ormerod . . . with preface by the author. x, [2], 58 p. 8°. London, Simpkin, Marshall, Hamilton, Kent & co., limited, 1899.

**Packard, Alpheus Spring.** First [-third] annual report on the injurious and beneficial insects of Massachusetts. By A. S. Packard, jr., M. D., entomologist to the State board of agriculture. illus. 8°. Boston, Wright & Potter, printers, 1871-73.

Title of 2d and 3d reports reads: *Second [-third] annual report on the injurious and beneficial insects of Massachusetts. Made to the State board of agriculture.*

Imprint of 3d report: Salem, Naturalists' agency, 1873.

**Papilio**, devoted exclusively to Lepidoptera, Jan. 15, 1881-Nov. 1884. v. 1-4. illus. 8°. New York and Philadelphia, 1881-84.

No more published.

Vol. 1-2, title reads: *Papilio, the organ of the New York entomological club, devoted exclusively to Lepidoptera.*

Vol. 1-3 ed. by Henry Edwards; v. 4 ed. by Eugene M. Aaron.

**Pennsylvania silk convention, Harrisburg.** Proceedings of the Pennsylvania silk convention held at Harrisburg on the 22d and 23d days of February 1839. Printed by order of the Senate, March 26, 1839. 36 p. 21<sup>cm</sup>. Harrisburg, Printed by E. Guyer, 1839.

**Petites nouvelles entomologiques** [semi-monthly] July 1, 1869-Mar. 15, 1879. v. 1-2 (années 1-11) f°. Paris, 1869-79.

United in 1881 with *Le naturaliste*.

**Philadelphia, Entomological society of.** See **American entomological society, Philadelphia.**

Le **Phylloxéra**; comités d'étude et de vigilance; rapports et documents, 1877-1879. vol. I-III. 11 fasc. maps. 8°. Paris, 1877-79.

**Portugal.**—*Comissão central anti-phyloxerica do norte.* Relatorio annual da comissão central anti-phyloxerica do norte. 1882-1883. 4°. Porto, 1883. (*On cover:* Ministerio das obras publicas, commercio e industria. Collecção de documentos officiaes, memorias e noticias ácerca da agricultura. Publicação official. No. 4)

**Portugal.**—*Comissão central anti-phyloxerica do norte.* . Relatorio dos serviços technicos em 1883-1884. maps. f°. Lisboa, 1884-85. (Ministerio das obras publicas, commercio e industria . . . Publicação official. No. 5-6)

**Portugal.**—*Comissão central da phylloxera.* . . . Relatorio dos trabalhos da comissão central da phylloxera em 1880-1881, por M. C. Rodrigues de Moraes. maps. f°. Lisboa, 1881-82. (Ministerio das obras publicas, commercio e industria; collecção de documentos officiaes, memorias e noticias ácerca da agricultura. Publicação official. No. 2-3)

**Portugal**—*Comissão central dos serviços phylloxericos* . . . Administração. 1880-1881. Relatorio annual, pelo visconde de Villar d'Allen. plates, plan. 4°. Porto, 1881.

At head of title: *Comissão central dos serviços phylloxericos.*

The **Practical entomologist**, Oct. 1865-Sept. 1867. v. 1-2. illus. 4°. [Philadelphia] Entomological society of Philadelphia [1865-67] 3-26801

Caption title: *The Practical entomologist. A monthly bulletin, pub. by the Entomological society of Philadelphia . . . [later "American entomological society"]*

Vol. 1, E. T. Cresson A. R. Grote, J. W. McAllister, publication committee and editors, R. D. Walsh, associate editor. v. 2, B. D. Walsh, editor.

No more published.

**Prague. České společnosti entomologické.** See **České společnosti entomologické.**

**Prague. Societas entomologica Bohemiae.** See **České společnosti entomologické.**

**Psyche**, a journal of entomology [monthly] May 1874-Dec. 1904. v. 1-11. illus., plates. 8°. Cambridge, Mass., 1877-1904.

Vol. 1-3, title reads: *Psyche, organ of the Cambridge entomological club.*

**Reale stazione di entomologia agraria di Firenze.** See **Florence. Reale stazione di entomologia agraria di Firenze.**

- Record of American entomology for . . . 1868-73.** 8° Salem, 1869-[74]  
Wanting 1869, p. 30-32.  
Ed. by A. S. Packard.
- "Redia", giornale di entomologia, pubblicato dalla R. Stazione di entomologia agraria in Firenze.** 1903-04. v. 1. illus. 4° Portici, 1903-04.  
Ed. by Antonio Berlese.
- Reuter, Enzio.** Berättelse öfver skadeinsekters uppträdande i Finland under åren 1894-1903. no. [1]-9. 8°. Helsingfors, 1895-1904. (Finland—Landbruksstyrelse. Landbruksstyrelsens meddelanden. no. 7, 21, 23, 26, 32, 35, 39, 45, 47)  
no. [1] report for 1894, title reads: Berättelse öfver med understöd af landbruksstyrelsen sommaren 1894 värkställda undersökningar beträffande ängsmasken och andra skadeinsekter.
- Revue coléoptérologique publiée par Constant van den Branden** [monthly] Feb.-May, 1882. année 1, no. 1-4. 4°. Bruxelles, Berlin, 1882.
- Revue d'entomologie; publiée par la Société française d'entomologie** [monthly] Jan. 1882-Dec. 1904. v. 1-22. plates. 8°. Caen, 1882-1904.  
Vol. 10 contains index v. 1-10.
- Revue entomologique, publiée par Gustave Silbermann.** 5 v. plates. 8°. Strasbourg, 1833-37.
- Revue russe d'entomologie.** 1901-04, no. 5. v. 1-4, no. 5. illus. 8°. Jaroslavl, 1901-04.  
Title-page in Russian and French.
- Riley, Charles Valentine.** First [-ninth] annual report on the noxious, beneficial and other insects, of the state of Missouri, made to the State board of agriculture, pursuant to an appropriation for this purpose from the Legislature of the state. By Charles V. Riley, state entomologist. 9 nos. in 3 v. illus. 8°. Jefferson City, Mo., 1869-77. Agr 5-232-3
- — — . . . General index and supplement to the nine reports of the insects of Missouri. By C. V. Riley . . . 177, [1] p. 8°. Washington, Gov't print. off., 1881. (Department of the interior. United States entomological commission. Bulletin no. 6)
- Rochester society of natural sciences.** Transactions. no. 1. 8°. Rochester, F. D. Phinney, 1880.
- Rovartani lapok, havi folyóirat különös tekintettel a hasznos és kártfkony rovarokra,** Jan. 1884-Dec. 1885; Jan.-Dec. 1897; Jan. 1899-Dec. 1904. v. 1-2, 4, 6-11. illus., plates. 8°. Budapest, 1884-[1904]
- Royal Dublin society.** See **Carpenter, G. H.** Injurious insects.
- Russia. Societas entomologica Rossica.** See **Societas entomologica Rossica.**
- Russkoe entomologicheskoe obozrënienie.** See **Revue russe d'entomologie.**
- Russkoe entomologicheskoe obshchestvo v S. Peterburgîe.** Trudy. See **Societas entomologica Rossica.**
- Salatiga, Java. Proefstation voor cacao.** Bulletin. no. 1-3, 5-8, 10. illus. 8°. Semarang-Soerabaia & Malang, 1901-04.  
No. 6 is Jaarverslag 1902/1903.  
No. 2-3, 5, overgedrukt uit de Nieuwe gids, III, aflev. 11 en 12, maart 1902; IV, aflev. 2 en 3, juni 1902; IV, aflev. en 12, april 1903.  
No. 8, 10, overgedrukt uit de Cultuurgids, V, aflev. 10 en 11, januari 1904; VI, aflev. 9, december 1904.
- Schøyen, Wilhelm Maribo.** Beretning om skadeinsekter og plantesygdomme i 1891-1903. Af W. M. Schøyen, statsentomolog. illus. 8°. Christiania [1892]-1903.  
1891, title reads: Indberetning fra landbrugsentomologen om de i aaret 1891 modtagne forespørgsler og aanstillede undersøgelser angaaende skadeinsekter og plantesygdomme.
- Schweizerische entomologische gesellschaft.** Mittheilungen. Jan. 1866-Nov. 1903. v. 2-11, no. 1. illus. 8°. Schaffhausen, 1868-1903.

**Sherman, Franklin.** See *North Carolina—Department of agriculture—Division of entomology.*

**Società entomologica italiana.** *Buletino.* 1869–Dec. 1902. v. 1–9; v. 12, pt. 1–3; v. 13; v. 14, pt. 1–2; v. 15, pt. 2–3; v. 16, pt. 3–4; v. 17, pt. 3–4; v. 18, pt. 4; v. 19–31; v. 34, no. 4. illus. 8°. Firenze, 1869–1903.

Vol. 20, 1888, contains index, v. 11–20.

**Società entomologica italiana.** . . . Statuto. Elenco dei soci e degli associati. Elenco delle società e delle accademie corrispondenti. 23 p. 8°. Firenze, Tipografia Cenniniana, 1885.

**Societas entomologica.** Organ für den Internationalen entomologenverein [semi-monthly] April 1, 1886–Mar. 15, 1904. v. 1–18. 4°. Zürich [1886–1904] v. 1–18 ed. by Fritz Rühl.

**Societas entomologica Bohemica.** See *České společnosti entomologické.*

**Societas entomologica Rossica.** *Horae,* 1885–86; 1889–96; 1898–1903. v. 19–20, h. 2; v. 24–30; v. 32, no. 3–v. 36. plates. 8°. St. Petersburg, 1885–1903.

— — Ukazatel soobshchennii sdělannykh na obshchikh sobraniâch Russkago entomologicheskago obshchestva za 35 lêt ego sushchestvovaniâ. 1859–94. 58 p. 8°. St. Petersburg, 1899.

Index to communications made at the general sessions of the Russian entomological society for 35 years of its existence.

**Société centrale d'apiculture et d'insectologie.** See *Bulletin d'insectologie agricole.*

**Société entomologique de Belgique.** *Annales.* v. 1–48, no. 12. plates. 8°. Bruxelles, 1857–1904.

— Tables générales des Annales . . . 1–30. 81 p. 8°. Bruxelles, 1887.

**Société entomologique de Belgique.** xxv<sup>e</sup> anniversaire de la Société entomologique de Belgique. Assemblée générale extraordinaire convoquée pour la commémoration de la fondation de la Société. 16 octobre 1880. 14 p. 8°. Bruxelles, 1880.

**Société entomologique de Belgique.** *Mémoires.* v. 1–11. 8°. Bruxelles, 1892–1903.

**Société entomologique de France.** *Annales* [quarterly] 1832–1903. v. 1–72. illus., plates. 8°. Paris, 1832–1904.

— — Tables générales . . . 1832–60. 739 p. 8°. Paris, 1867.

— — 1861–1880. 286 p. 8°. Paris, 1885.

— — 1881–1890. 239 p. 8°. Paris, 1895.

**Société entomologique de France.** *Bulletin,* 1896–1904. 8°. Paris, 1896–1904. Previous to 1896 issued as part of the *Annales* of the society.

**Société entomologique de France.** *Statuts et règlement.* 16 p. 8°. [n. p., 1900]

**Société entomologique suisse.** See *Schweizerische entomologische gesellschaft.*

**Société française d'entomologie.** See *Revue d'entomologie.*

**Société impériale des naturalistes de Moscou.** See *Moscow. Société impériale des naturalistes de Moscou.*

**Stettin, Entomologischer verein zu.** *Jahresbericht,* 1. 12°. Stettin, 1839. Succeeded by *Entomologische zeitung*, q. v.

**Stettin, Entomologischer verein zu.** See also *Entomologische zeitung*; also *Linnæa entomologica.*

**Stettiner entomologische zeitung.** See *Entomologische zeitung*; also *Linnæa entomologica.*

**Stockholm, Entomologiska föreningen i.** See *Entomologisk tidskrift*; also *Uppsatser i praktisk entomologi*.

The *Substitute*; or, Entomological exchange facilitator and entomologist's fire-side companion [weekly] Oct. 1856–Mar. 7, 1857. v. 1. 12°. London, 1857.

Issued in place of *Entomologist's weekly intelligencer*, which suspended publication Oct. 1856–Mar. 1857.

**Sweden—Entomologiska anstalt.** Berättelse till Kongl. landtbruksstyrelsen angående resor och förrättningar M. M. för 1892–1903. 8° [Stockholm, 1898]–1904. (Sweden—Kongliga landtbruksstyrelse. Meddelanden. nos. 6, 11, 15, 22, 32, 37, 46, 53, 65, 72, 82, 85, 97)

**Switzerland. Schweizerische entomologische gesellschaft.** See *Schweizerische entomologische gesellschaft*.

**Tijdschrift** voor entomologie, uitgegeven door de Nederlandsche entomologische vereeniging, 1884/85–85/86, 1889/90–92/93, 1895/96–1904. v. 28–29, 33–36, 38–47. illus. 8°. 's Gravenhage, 1885–1904.

**Transvaal—Dept. of agriculture—Division of entomology.** Leaflet. no. 1. illus. f°. Pretoria, 1903.

**United States—Dept. of agriculture—Division of entomology.** Bulletin. no. 1–33, 1883–95; new ser., no. 1–49, 1896–1904. 8° Washington, 1883–1904.

— — Index to bulletins no. 1–30 (new series) (1896–1901) of the Division of entomology; comp. by Nathan Banks. 64 p. 8°. Washington, 1902. (U. S. Agriculture, Dept. of—Entomology, Division of. Bulletin, new ser., 36)

**United States—Dept. of agriculture—Division of entomology.** Circulars (second series), 1891–1905. no. 1–59. Washington, Gov't printing office, 1891–1905.

The 1st series of circulars was composed almost entirely of circular letters of no permanent interest.

**United States—Dept. of agriculture—Division of entomology.** Insect life, July, 1888–July, 1895. 7 v. illus. 8°. Washington, 1889–1895.

— — General index. 145 p. 8°. Washington, 1897.

**United States—Dept. of agriculture—Division of entomology.** Report of the entomologist, 1863–1903. 8°. Washington, 1863–1903.

Reports for the years 1863–1888 were published in the report of the Commissioner of agriculture. Reports for the years 1889–1896 were published in the Annual report of the Secretary of agriculture. Reports for the years 1897–1903 were published in the Annual reports of the Department of agriculture. Reports for the years 1891–93, 1896, reprinted from the Annual report of the Secretary of agriculture. Reports for the years 1897–1903 reprinted from the Annual reports of the Department of agriculture.

**United States—Dept. of agriculture—Division of entomology.** Technical series. no. 1–9. 8°. Washington, 1895–1901.

**United States—Entomological commission.** Bulletin. no. 1–7. 8°. Washington, 1877–81.

No. 1–2 under direction of U. S. geological and geographical survey of the territories (Hayden); no. 3–7 under direction of the Interior department.

**United States—Entomological commission.** First–[fifth] report, 1878–1890. 8°. Washington, 1879–1890.

1st report was issued as a publication of the Geological and geographical survey of the territories (Hayden); 2d report was issued as a publication of the Interior department.

**Uppsatser i praktisk entomologi; med statsbidrag utgifna af Entomologiska föreningen i Stockholm.** v. 1–14. illus. 8°. Stockholm, 1891–1904.

**Verein für schlesische insectenkunde in Breslau.** See *Zeitschrift für entomologie*.

**Verein zur beförderung des seidenbaues für die provinz Brandenburg.** Jahresbericht über die wirksamkeit des Vereins zur beförderung des seidenbaues für die provinz Brandenburg im jahre 1857–58, 1859–60, 1860–61. 8°. Berlin, G. Bethge, 1858–61.

**Verein zur beförderung des seidenbaues in der mark Brandenburg und Niederlausitz.** Jahresbericht über die wirksamkeit des Vereins zur beförderung des seidenbaues in der Mark Brandenburg und Niederlausitz im jahre 1853-54. illus., fold. tab. 8°. Berlin, G. Bethge, 1854.

**Virginia**—*State inspector for the San José scale.* Report. 2d, 1898-99. 8°. Richmond, 1899.

**Warburton, Cecil.** . . . Annual report . . . of the zoologist . . . 1893-1898. illus. 8°. London, 1894-1898.

From the Journal of the Royal agricultural society of England, 3d ser., vol. iv-ix.

**Washington, D. C. Entomological society.** Proceedings, Feb. 24, 1884-Oct. 1904. v. 1-6. illus. 8°. Washington, 1890-1904.

**Wiener entomologische monatschrift.** July 1857-Dec. 1864. v. 1-8. plates. 8°. Wien, 1857-1864.

No more published.

Ed. by Julius Lederer and Ludwig Miller.

**Wiener entomologische zeitung.** 1882, Jan. 1884-Dec. 31, 1904. v. 1, 3-23. illus. 8°. Wien, 1882-1904.

**Zeitschrift für die entomologie.** v. 1-5. plates. 8°. Leipzig, 1839-44.

Ed. by Ernst Friedrich Germar.

Continued under the title: *Linnæa entomologica*, q. v.

**Zeitschrift für entomologie,** hrsg. vom Verein für schlesische insektenkunde zu Breslau. 1847-56, 1884-1903. jahrg. 1-10; n. f. hft. 9-29. 8°. Breslau [1847]-1904. Jahrg. 7 never published.

**Zeitschrift für systematische hymenopterologie und dipterologie** [bi-monthly] Jan. 1901-Nov. 1904. vol. 1-4. 4°. Teschendorf bei Stargard i. Mecklenburg [1901-04]

Hrsg. von F. W. Konow.

**Zeitschrift für wissenschaftliche insektenbiologie.** See **Allgemeine** zeitschrift für entomologie.

**Zürich, Switzerland (canton)**—*Kantonaler zürcherischer rebbau-kommissär.* Bericht des Kantonalen zürcherischen rebbau-kommissärs über das auftreten der reblaus im jahre 1888 und die bekämpfung derselben. 32 p. 2 fold. tab., 2 fold. maps. 8°. [n. p. 1889]



## INDEX TO FAMILIES.

	Page.		Page.
Acanthiidae.....	375	Chrysopidae.....	436
Acarina.....	462	Cicadidae.....	380
Acridiidae.....	288	Cieindelidae.....	203
Acroceridae.....	263	Cleridae.....	217
Agalenidae.....	457	Coccidae.....	415
Agapetidae.....	325	Coccinellidae.....	209
Agaristidae.....	338	Coleoptera.....	182
Agromyzidae.....	266	Collembola.....	440
Aleurodidae.....	415	Colydidae.....	210
Analgesidae.....	469	Coniopterygidae.....	436
Andrenidae.....	178	Conopidae.....	265
Anoplura.....	423	Coreidae.....	373
Anthicidae.....	230	Corisidae.....	378
Anthomyiidae.....	269	Corylophidae.....	209
Anthophila.....	177	Cossidae.....	351
Aphidae.....	386	Crabronidae.....	174
Apidae.....	180	Craspedosomatidae.....	446
Apioceridae.....	262	Cryptophagidae.....	210
Arachnida.....	448	Cucujidae.....	210
Aradidae.....	376	Culicidae.....	255
Araneida.....	451	Curculionidae.....	232
Arctiidae.....	337	Cynipidae.....	162
Asilidae.....	262	Cytoleichidae.....	470
Atidae.....	459	Dascyllidae.....	212
Bdellidae.....	464	Demodicidae.....	473
Belostomidae.....	377	Dermestidae.....	211
Bembecidae.....	174	Dexiidae.....	258
Blattidae.....	284	Dinopidae.....	457
Blepharoceridae.....	255	Diplopoda.....	445
Bombidae.....	179	Diptera.....	238
Bombycidae.....	348	Dolichopodidae.....	264
Bombyliidae.....	263	Drassidae.....	457
Bostrichidae.....	218	Drepanulidae.....	347
Braconidae.....	165	Dytiscidae.....	206
Brenthidae.....	236	Elateridae.....	212
Bruchidae.....	228	Empididae.....	428
Buprestidae.....	214	Empoasca.....	264
Calandridae.....	236	Endomychidae.....	210
Capsidae.....	375	Epeiridae.....	457
Carabidae.....	204	Ephemeridae.....	429
Cassidae.....	223	Ephyridae.....	267
Castniidae.....	336	Eresidae.....	458
Cecidomyiidae.....	249	Eriophyidae.....	470
Cerambycidae.....	222	Erotylidae.....	210
Cercopidae.....	383	Erycinidae.....	325
Cetoniidae.....	222	Eucnemidae.....	214
Chalcididae.....	166	Eumenidae.....	176
Chalcosidae.....	351	Eupodidae.....	464
Cheyletidae.....	464	Forficulidae.....	284
Chilopoda.....	444	Formicidae.....	168
Chironomidae.....	258	Fossores.....	173
Chrysididae.....	168	Fulgoridae.....	382
Chrysomelidae.....	225	Gamasidae.....	468

	Page.		Page.
Geometridæ	348	Nemopteridæ	437
Geophilidæ	445	Nepidæ	378
Gerridæ	377	Neuroptera	424
Glomeridæ	445	Nitidulidæ	211
Gryllidæ	286	Noctuidæ	338
Gyrinidæ	206	Notodontidæ	345
Hæmatomyzidæ	268	Notonectidæ	377
Halacaridæ	466	Nymphalidæ	323
Hemerobidæ	436	Ochtidæ	269
Hemimeridæ	284	Odonata	430
Hemiptera	362	Œdemeridæ	229
Hepialidæ	362	Œstridæ	270
Hesperidæ	328	Onychophora	447
Heterocera	329	Opomyzidæ	269
Heteroceridæ	212	Oribatidæ	468
Heteromyzidæ	268	Ortalidæ	268
Heteroptera	368	Orthoptera	276
Hippoboscidæ	275	Oscinidæ	266
Hispidæ	228	Otiorrhynchidæ	232
Histeridæ	211	Panorpidæ	437
Homoptera	378	Papilionidæ	327
Hydrachnidæ	465	Parnidæ	212
Hydrometridæ	377	Pauropoda	447
Hydromyzidæ	269	Paussidæ	206
Hydrophilidæ	206	Pentatomidæ	371
Hymenoptera	150	Perlidæ	429
Ichneumonidæ	163	Phalacridæ	209
Ixodidæ	466	Phalangidæ	461
Jassidæ	384	Phasmidæ	285
Julidæ	447	Phoridae	266
Lampyridæ	215	Phylloxera	393
Lasiocampidæ	347	Phymatidæ	376
Lepidoptera	297	Phytomyidæ	269
Leptidæ	260	Pieridæ	327
Limacodidæ	351	Platypezidæ	266
Liparidæ	345	Platypterygidæ	348
Lithobiidæ	444	Poduridæ	441
Locustidæ	287	Polydesmidæ	445
Lucanidæ	219	Polyxenidæ	447
Lycaenidæ	326	Pompiidæ	174
Lycosidæ	458	Proctotrypidæ	167
Lygaeidæ	373	Pselaphidæ	207
Lymexylidæ	318	Pseudoscorpionida	461
Lysiopetalidæ	446	Psocidæ	429
Malachiidæ	217	Psychidæ	350
Mallophaga	438	Psyllidæ	267
Mantidæ	286	Psyllidæ	385
Mantispidæ	436	Pterophoridæ	355
Masaridæ	175	Ptinidæ	217
Megachilidæ	179	Pyradidæ	353
Megalopygidæ	351	Pyrochroidæ	230
Megathymidæ	329	Pyrrhocoridæ	376
Meloidæ	230	Reduviidæ	376
Membracidæ	383	Rhipiphoridæ	230
Micropezidæ	267	Rhizomyzidæ	269
Midaidæ	263	Rhopalocera	315
Mordellidæ	229	Rhopalomeridæ	263
Muscidæ	272	Rhynchophora	231
Mutillidæ	178	Rhyssodidæ	210
Mycetophagidæ	210	Saldidæ	377
Mycetophilidæ	254	Sarcophagidæ	272
Myriapoda	441	Sarcoptidæ	470
Myrmecophilous insects	172	Saturnidæ	336
Nabidæ	376	Scaphididæ	208
Naucoridæ	378	Scarabæidæ	219
Nemistrinidæ	262	Scatomyzidæ	269

	Page.		Page.
Scenopinidæ .....	263	Tenthredinidæ .....	160
Sciomyzidæ .....	268	Termitidæ .....	427
Scoliidæ .....	173	Termitophilous insects .....	428
Scolopendridæ .....	444	Tetranychidæ .....	465
Scolytidæ .....	236	Tettigidæ .....	297
Scorpionida .....	460	Tettigoniidæ .....	384
Scutigeridæ .....	444	Theraphosidæ .....	456
Scydmaenidæ .....	207	Theridiidæ .....	457
Sesiidæ .....	352	Thoricidæ .....	209
Sialidæ .....	435	Throscidæ .....	214
Silphidæ .....	207	Thysanoptera .....	422
Simulidæ .....	259	Thysanura .....	439
Siphonaptera .....	275	Tineidæ .....	358
Solpugida .....	459	Tingitidæ .....	376
Sphæriidæ .....	208	Tipulidæ .....	259
Sphecidæ .....	174	Tortricidæ .....	355
Sphingidæ .....	335	Trichoptera .....	437
Staphylinidæ .....	207	Trichopterygidæ .....	208
Stratiomyidæ .....	260	Trogositidæ .....	212
Stylopidæ .....	238	Trombididæ .....	465
Syntomidæ .....	337	Trypetidæ .....	268
Syrphidæ .....	264	Tyroglyphidæ .....	469
Tabanidæ .....	260	Uraniidæ .....	336
Tachinidæ .....	274	Uroceridæ .....	162
Tardigrada .....	474	Vespidæ .....	175
Tarsonemidæ .....	468	Xylophagidæ .....	260
Tenebrionidæ .....	229	Zygaenidæ .....	338



## AUTHOR INDEX.

	Page.		Page.
Aaron, Mrs. C. B. <i>See</i> Dragon flies vs. mosquitoes	255	Allies, F. Phylloxéra	393
Abafi Aigner, Lajos. A lepkészet története.	305	Alluaud, Ch.	
Abbott, C. N., ed. <i>See</i> Dzierzon, Johann.		Coléopt. nouv. (Ateuchus)	219
Rational bee-keeping	97	Deux coléopt. Madagascar	192
L'Abelle	474	Trois coléopt. nouv. malgache	192
Acheta domestica. <i>See</i> Budgen, L. M.		Ajoi, Alberto. Fillossera	393
Acloque, A. Faune de France	191	Alonso, J. M. Dusmet y. <i>See</i> Dusmet y	
Adair, D. L. Progressive bee culture	94	Alonso, J. M.	
Adams, Sir F. O.		Alphéraky, S. <i>See also</i> Romanoff, N. M.	
Sériculture au Japon	111	Mém. sur les lépidopt.	301-302
Silk culture in Japan	111	Altamirano, Fernando. Tlalzuahuate	465
Adams, M. F. Supt's rept., Injurious insects	55	Altum, Bernard. Waldbeschädigungen	89
Adler, Hermann. Alternating generations.	38	Alvarez, Teodoro. Langosta peregrina	289
Adolph, G. E.		Alwood, W. B.	
Dipterenflügel	238	Exper. against hop-louse	386
Insectenflügel	38	Injur. insects	415
Morphol. hymenopterenflügel	150	San Jose scale	415
Zellenbild. hymenopterenflügel	150	<i>See also</i> Virginia—Entomologist & pathologist. Rept. on San Jose scale	422
Ador, Demole. <i>See</i> Demole-Ador.		American apiculturist	103
Agricultural pests of India. <i>See</i> Balfour, Edward	63	American bee journal	103
Aigner, Lajos Abafi. <i>See</i> Abafi Aigner, Lajos.		American bee keeper	103
Akerly, Samuel. Wheat insect	249	American entomological society.	
Alabama—Comm'r of agriculture. "Boil worm"	338	Entomol. directory	50
Albatross (ship). <i>See</i> Howard, L. O. Annotated cat. of insects coll. in 1887-88	139	Proceedings	474
Albin, Eleazar. Nat. hist. of Eng. insects	144	Transactions	474
Aldrich, J. M.		<i>See also</i> Practical entomologist	484
Cat. of N. A. Diptera	243	American entomologist	475
New Psilopinæ	264	American silk journal	133
Rev. of Dolichopus and Hygroceleuthus.	264	American silk society.	
<i>See also</i> Biol. cent.-amer. Diptera	245	Culture of silk	106
Aldrovandus, Ulysses. De animalibus insectis	8	<i>See also</i> Journ. of the Amer. silk society	135
Algiers (Dept.)—Syndicat de défense contre le phylloxéra. Bulletin officiel	474	Amyot, C. J. B. Hist. nat. des insectes.	
Allard, Ma. Étude du phylloxéra	393	Hémipt.	362
Allen, Franklin. Sericulture	106	Anca, Francesco. Bombyx cynthia	111
Allen, John. Blessed bees	94	André, Edmond. Spec. des hyménopt.	154
Allen, W. J.		André, Ernest. Anomma nigricans	168
Insect & fungus diseases	81	<i>See also</i>	
Red scale	415	André, Edmond. Spec. des hyménopt.	154
Alley, Henry.		Wytzman, P. Gen. insectorum	18
Bee-keeper's handy book	94	Anez, Hippolyte. Mortalité des vignes	394
National beekeepers' directory	94	Annals of bee culture	103
30 years among the bees	94	Annuaire du commerce des soies & soieries	134
Allgemeine entomologische gesellschaft. <i>See</i> Allgemeine zeitschrift für entomologie	474	Annuario serico	134
Allgemeine zeitschrift für entomologie	474	Anthony, A. C. N. E. Philampeli	335
		L' Apicultore	103
		L' Apiculteur	103
		El Apicultor	103
		Arbousset, A. Laurent de l'. <i>See</i> Laurent de l' Arbousset, A.	
		Arcet, Félix d'. <i>See</i> Darcet, Félix.	
		Archiv der insectengeschichte	475

	Page.		Page.
Archives entomologiques. <i>See</i> Thomson, James .....	17	Atkinson, E. T.—Continued.	
Argentine Republic—Ministerio de agricultura. <i>See</i> Künckel d'Herculeis, J. P. A. Langosta como abono .....	292	Notes on Ind. Rhynchota [Homopt.]....	378
Argentine Republic—Comisión central de extinción de langosta. Memoria .....	289	Notes on Ind. Rhynchota, Heteropt....	371
Arms, J. M., joint author. <i>See</i> Hyatt, Alpheus. Insecta .....	19	Pests belonging to Coccidæ.....	416
Arnold, D. J. Bee culture .....	94	Rice-juice sapper.....	378
Arribáizaga, F. L.		Atkinson, G. F.	
Dipter. argent. [Culicidæ] .....	255	Cigarette beetle .....	217
— Mycetophilidæ .....	254	New trap-door spider.....	451
— Syrphidæ .....	264	Notes on orchard Scolytus.....	236
Estafilinos.....	207	Aubé, Charles. <i>See</i>	
Arrow, G. J.		Dejean, P. F. M. A.	
Notes on the classif. of Rutelidæ .....	219	Iconogr. coléopt. d'Europe .....	193
Rutelid beetles of Transvaal .....	219	Spec. gén. des coléopt .....	183
Remarks upon genus Rhysodes .....	210	Aubergier, Hector. Sulfocarb. de potassium .....	394
Ascárate y Fernández, Casildo. Insectos y criptóg .....	63	Audinet Serville, J. G. <i>See</i> Serville, J. G. Audinet.	
Ashmead, W. H.		Audouin, J. V. Discours sur Latreille .....	51
Classif. chalcid flies .....	166	Aughey, Samuel.	
Classif. ichneumon flies.....	163	Notes on food of birds of Neb.....	34
Corn delphacid .....	382	Relation of insects to hort. & agric.....	55
Gen. of chalcid flies .....	166	Aurivillius, P. O. C.	
Homopt. of Alaska .....	378	Afrikan. gattungen calandriden .....	236
Hymenopt. Bahama exped.....	164	Apidæ. (Svensk insektfauna) .....	180
Hymenopt. (Harriman Alaska exped.) .....	153	Coleopt. & Lepidopt. Kongofodens .....	305
Hymenopt. of Col.....	153	Conspicuous brachyceridarum .....	232
Insects Commander Islands.....	138	Curculionines .....	232
New Braconidæ .....	165	Diag. neuer lepidopt. Congo-gebiete .....	305
New cynip. galls.....	162	Ethiopian Striphnopterygidæ .....	347
New Hymenopt. Philippine Isl.....	154	Grönlands insektfauna.....	305
New Ichneumonidæ .....	163	Insekter insaml. Kamarun-berget.....	192
New Proctotrypidæ .....	167	Insekternas själslif .....	46
N. A. Proctotrypidæ.....	167	Insektivet i arkt. länder.....	142
N. Z. and Austral. par. Hymenopt.....	154	Kännedomen solitäre getingars lefnadsätt .....	176
Orange insects.....	81	Lepidopt. Heteroc. (Kamerun).....	329
Par. Hymenopt. Grenada.....	154	Lepidopt. insaml. i nordl. Asien .....	305
Par. Hymenopt. Lower Cal.....	150	Lepidopt. & Coleopt. Nathorst's arkt. exped .....	306
13 new par. Hymenopt.....	150	Lepidopt. Swedish zool. exped. Egypt..	306
joint author. <i>See</i>		Neue Coleopt. Longicornia.....	182
Howard, L. O. Par. hymenopt. insects Ceylon .....	157	Neue nymphaliden Congogebiete.....	323
Riley, C. V. Par. Hymenopt. St. Vincent .....	158	Rev. monogr. microcerid. & protomantid .....	232
<i>See also</i>		Rhopaloc. æthiop .....	315
Hart, C. A. Ent. of Ill. River.....	139	Ueber sekundäre geschl. char. tagfalter.	316
Sharp, David. Fauna hawaiiensis.	149	Verzeichn. Congo schmetterlings-samml. ....	306
Association of economic entomologists. Proceedings .....	475	Verzeichn. schmetterlingssamml. Kattanga-gebiete .....	316
Association séricicole pratique du bassin du Rhône. Amél. des vers à soie.....	111	Verzeichn. Venezuela cerambyc .....	222
Associazione centrale d'incoraggiamento per l'apicoltura. <i>See</i> L'Apicoltore.....	103	Zwischenformen social. & solitär. bienen .....	177
Associazione delle industrie tessili. <i>See</i> La Seta .....	136	Austen, E. E. Monogr. on tsetse-flies.....	272
Assurance mutuelle contre le phylloxéra—Commission administrative. Rapport.....	475	Austin, E. P.	
Atkinson, E. T.		Cat. Coleopt. Mt. Washington .....	187
Cat. of Capsidæ.....	375	Collecting Stylopidæ .....	238
Cat. of Insecta of oriental region .....	192	Notes on collecting Buprestidæ.....	214
New hemipt. insects belonging to Chrysocoris .....	371	<i>See also</i> Crotch, G. R. Check list Coleopt. of Amer .....	188
New Ind. Rhynchota.....	365	Australasian beekeeper.....	103
		Australian bee bulletin.....	104
		Austria—K. K. Ackerbau-ministerium.	
		Bekämpf. der reblaus.....	394
		Bericht phyllox. in Oesterr.....	394
		Bericht verbreit. der reblaus .....	394

	Page		Page.
Austria. Zentralverein für bienenzucht in Österreich. <i>See</i> Bienen-vater .....	104	Banks, Nathan—Continued.	
Avebury, John Lubbock, 1st baron.		Bibliog. Amer. econ. ent .....	5
Ants, bees, and wasps .....	150	List of Arach., Hayti .....	450
Monogr. Collembola & Thysanura .....	439	List of spiders, Ariz. ....	451
Notes on generative organs .....	38	List of works on N. A. ent. ....	5
Notes on Thysanura .....	439	Nemastomatidæ & Trogluidæ .....	461
Observ. bees, wasps, & ants .....	150	Neuropteroid insects [Harriman ex- ped.] .....	425
On attraction of flowers .....	31	New gen. endopar. acarians .....	468
On British wild flowers .....	31	Prin. insects distrib. nursery stock .....	55
On Pauropus .....	447	Some Arach. from Ala. ....	449
On senses, instincts, & intelligence .....	46	Some Arach. from Calif .....	449
Ova & pseudova of insects .....	38	Some Arach. from N. M. ....	449
Ayers, Howard. <i>Cecanthus niveus</i> & para- site, Teleas .....	286	Some Mex. Neuroptera .....	425
Azcárate, Casildo. Extinción de la lan- gosta .....	289	Some spiders from Bermuda Isl .....	449
Bachmetjew, P. Exper. entomol. studien.	38	Some spiders from Porto Rico .....	450
Il baco o flugello .....	111	Some spiders from southern Ariz. ....	449
Badenoch, L. N.		Spider fauna, upper Cayuga Lake basin.	449
Romance of insect world .....	20	Synop. of N. A. invert. Phalangida .....	461
True tales of insects .....	20	— Scorpions, solpugids & Pedipalpi ..	460
Badham, David. Insect life .....	46	Thysanura & Termitidæ .....	427
Baer, G. A. Cat. des coléopt. Iles Philip- pines .....	192	Treatise on the Acarina, or mites .....	462
Bailey, Mrs. F. A. (Merriam). How birds affect farm and garden .....	34	joint author. <i>See</i> Ashmead, W. H. In- sects, Commander Isl. ....	138
Bailey, J. S. <i>Cossus centerensis</i> .....	351	<i>See also</i> U. S.—Dept. of agriculture—Div. of entomology. Bulletin. Index .....	487
Baker, C. F. Rev. of Amer. Siphonaptera ..	275	Barber, C. A.	
Baker, G. T. Bethune-, joint author. <i>See</i> Druce, H. H. Monogr. of Thysonotis .....	326	Diseases of canes .....	81
Balbani, E. G.		Notes on ticks .....	466
Mém. dével. des aranéides .....	451	Shot-borer in St. Kitts .....	236
Mém. dével. des phalangides .....	461	Barber, H. G. Neb. butterflies .....	316
Mém. génération des aphides .....	387	Barbey, Auguste.	
Mém. phylloxéra .....	394	Bostrichiden Central-Europas .....	218
Mém. reprod. du phyllox. du chêne .....	304	Scolytides de l'Europe .....	236
Parthénogénèse du phylloxéra .....	394	Barbó, Jacques, ed. <i>See</i> Bassi, C. A. Mus- cardine .....	132
Phyllox. sexués .....	394	Bárcena, Mariana. Industria sericícola .....	112
Rapport sur insectes utiles .....	111	Bargagli, Piero.	
Recherches sur l'action du coaltar .....	394	Distruz. insetti nocivi .....	63
<i>See also</i> Paris, Acad. des sci. Com'n du phyllox. ....	409	Insetti commestibili .....	53
Baleriola, Gabriel. Propagación de la morera .....	112	Insetti e piante .....	31
Balfour, Edward. Agric. pests of India .....	63	Notiz. sopra entomocecidi .....	29
Ball, E. D.		Rimedi contro la Phyllox .....	394
Orthopt. of Ia. ....	278	Rincofori Europei .....	231
Study of Clastoptera .....	383	Barham, Henry. Silk-worm .....	112
Tettigonidæ of N. A. ....	384	Barlow, Edward. Food-insects of the man- tis .....	286
joint author. <i>See</i> Osborn, Herbert.		Barnard, W. S. For biographical notice <i>see</i> Wilder, B. G. W. S. Barnard. ....	52
Contrib. hemipt. fauna of Ia. ....	365	Barneville, Louis Brisout de. <i>See</i> Brisout de Barneville, Louis.	
Rev. of N. A. spec. of Athysanus .....	384	Barot, Alexandre. Plantes mellifères .....	94
Studies of N. A. Jassoidea .....	384	Barrett, O. W. Brown ant in orange or- chards .....	168
Baly, J. S. Cat. of Hispidæ .....	228	Barricelli, Gerardo. Silk-culture directory.	106
<i>See also</i> Biol. cent. amer. Coleopt. ....	192-193	Barth, J. B. Grantørken og barkbillen .....	89
Banks, C. S.		Bartrum, E. Bees in a bar-frame hive .....	94
Australian tick .....	466	Bassi, C. A. Muscardine .....	132
Insects of cacao .....	81	Bastian, Fr. Destruction du phyllox .....	394
Banks, Nathan.		Bates, H. W.	
Arachnida (Galapagos exped.) .....	450	Color. potato beetle .....	225
Arach. from Baja California .....	450	New spec. Phasmidæ .....	285
Arach. of Col .....	449	<i>See also</i> Biol. cent.-amer. Coleoptera ..	192
Arach. of Fla. ....	449	Bau, Alexander. Handb. für käfer-samm- ler .....	192
Arach. of Harriman exped .....	449	Baudrimont, A. E. Leçon sur le phylloxéra.	394

Page	Page		
Baudry des Lozières, L. N. Mem. on animal cotton .....	163	Bemis, Mrs. F. E. Aleyrodids .....	415
Baumann, Eugen. Chem. unters. von bruchstücken.....	427	Bemmelen, J. F. van. Entwickl. schmetterlingsfluegeln.....	297
Bavaria—Government. Die nonne .....	345	Ontwikk. der vlindervleugels.....	297
Baviez, Ernest de. Séríc. au Japon.....	112	Beneden, P. J. van. Schmarotzer des thierreichs.....	79
Baxter, E. J. Some remarks on spraying..	74	Bennett, A. W. Insects and flowers.....	31
Bazille, Gaston. Études sur le phylloxéra.	395	Benson, A. H. Some fruit pests.....	81
Bazille, Louis. For biographical notice see Planchon, J. E. Notice.....	52	Benton, Frank. Bee keeping.....	94
Beach, A. M. Thripidae of Ia.....	422	La cria de las abejas.....	94
Beal, F. E. L. Econ. relations of birds & their food.....	34	The honey bee.....	95
Beaulieu, Camille le Hardy de. See Le Hardy de Beaulieu, Camille.		The honey bee (Japanese ed.).....	95
Beauregard, Henri. Dével. de l'Epicauta verticalis.....	230	Berg, Cárlos. Aeolus pyroblastus.....	212
Dével. de la cantharide.....	230	Apuntes dipterol.....	238
Dével. des Cerocoma.....	230	Brenthia.....	236
Dével. nat. de la cantharide.....	230	Canibalismo entre insectos.....	53
Réponse à M. Brauer rel. à mes "Insectes vésicants".....	182	Coleopt. Tierra del Fuego.....	192
Beaupère, C. F. Vers à soie.....	112	Comun. lepidopt.....	316
Beauvais, Camille. Culture du mûrier.....	112	Contrib. al estudio hemept. de la Tierra del Fuego.....	365
See also Bonafous, Matthieu. Traité de l'éducation des vers à soie.....	113	Descr. algunos hemipt. heterópt.....	368
Darcet, Félix. Descr. magnanerie salubre.....	116	Descr. hydrometridarum.....	377
Beauvois, A. M. F. J. Palisot de. See Palisot de Beauvois, A. M. F. J.		Descr. novi gen. cerambyc.....	222
Beckstein, J. M. Schädl. forstinsekten.....	89	Descr. tres nuev. lepidópt.....	297
Beck, Otto. Wurzellaus des rebstocks.....	395	Distrib. géog. Ophioideres materna.....	339
Becker, Theodor. Rev. der gattung Chilosia.....	265	Duæ spec. nov. Arg. gyponæ gen.....	384
Bedel, Louis. Coléopt. du bassin de la Seine.....	192	Espec. del gen. Odynerus.....	176
Bee-keepers' association of the province of Ontario. See Ontario, Bee-keepers' association of the province of.....	105	Gen. Rhyephenes.....	232
Bee-keeper's magazine.....	104	Hemipt. argent.....	365
Bee-keeper's review.....	104	Hemipt. de la Tierra del Fuego.....	365
Beeton, S. O. Bees, silkworms.....	94	Mantispidos de la Repúb. Arg.....	436
Behr, H. H. Genus Neophasia.....	327	Notas hemipt.....	362
Beille, L., joint author. See Dubreuilh, W. A. Parasites animaux.....	80	Notice sur Alurnus.....	225
Beiträge zu der insekten-geschichte.....	475	Nova Hemipt. argent. & urug.....	365
Beiträge zur entomologie.....	475	Observ. sobre lepidópt. argent.....	306
Belfort de la Roque, L. de. Destr. du Phyllox.....	395	Pleminia argent.....	286
Belgium—Ministère des affaires étrangères. Conv. phyllox. de Berne.....	395	Rév. & descr. Tatochila.....	327
Belgium. Société entomologique de Belgique. See Société entomologique de Belgique.		Sobre algunos anismórfidos.....	285
Beling, Theodor. Metamorph. zweiflügeliger insecten.....	238	Sobre el Thelyphonus maximus.....	460
Bellardi, Luigi. Ditterol. messicana.....	244	Sobre larvas de lepidopt. argent.....	306
Bellati, M. Œufs du ver-à-soie.....	112	Sobre los enemigos Langosta pereg.....	289
Bellier de la Chavignerie. See Nouveau guide de l'amateur d'insectes.....	49	Termitariophilie.....	428
Belon, M. J. See Mulsant, M. E. Hist. nat. des coléopt. de France.....	179	Tres Reduviidæ nov. argent.....	376
Wytzman, P. Gen. insectorum.....	18	Variation de régime.....	204
		Berge, joint author. See Fairmaire, L. M. H. Guide de l'amateur d'insectes.....	48
		Bergentamm, J. See Brauer, Friedrich. Zweiflüger des Kais. mus.....	239
		Bergroth, E. Aradides nouveaux.....	376
		Bergsträsser, J. A. B. Naturgesch. der europ. schmetterlinge.....	306
		Bericht über die der landw. Böhmens schädl. insecten. See Nickerl, Ottokar. Bericht.....	483
		Bericht über die wissenschaftl. leistungen im gebiete der entomologie.....	475
		Berkeley, W. N. Lab. work with mosquitos.....	255
		Berlese, Antonio. Acari, Myriop. & Scorp. (Gamasidæ) ..	468
		— (Oribatidæ).....	468
		— (Sarcoptidæ).....	470
		— (Tarbidiidæ).....	465
		Cenni sulle cavallette.....	289
		Cocciniglie ital.....	416



Berlese, Antonio—Continued.	Page.	Beutenmüller, William—Continued.	Page.
Esper. contro <i>Cochylis ambig</i> .....	355	Types of Diptera .....	239
Fenom. che accomp. fecondazione.....	38	Types of Lepidoptera.....	297
Insetticidi .....	74	See also Dragonflies vs. mosquitoes .....	255
Nota di cocciniglie nuove.....	416	Bevan, Edward. Honey-bee.....	95
Notiz. intorno <i>Cochylis ambig</i> .....	355	Bianchi, V. L.	
Ricerche digestione negli Acari.....	462	De spec. duabus nov. generis <i>Nabis</i> ....	876
Ricerche organi genitali ortotteri.....	276	joint author. See	
Tignuola del melo.....	358	Jakobson, G. G., Прямокрылья и ложнощитчатокрылья....	281
See also Leonardi, Gustavo. Lettera in- torno ad nuove spec. di acari ital .....	464	Bienen-vater .....	104
Berlin, Entomologischer verein in. See		Bienen-zeitung .....	104
Berliner entomologische zeitschrift....	475	Bigarre, Peter De La. See De La Bigarre, Peter.	
Deutsche entomologische zeitschrift....	477	Bigot, J. M. F.	
Berliner entomologische zeitschrift.....	475	Cat. of the Diptera .....	244
Bernard-Durand. Extinction de la gat- tine.....	132	Descr. de trois nouv. diptères .....	244
Berne, Conférence phylloxérique interna- tionale, 1875. See Conférence phylloxéri- que internationale. Berne, 1878.....	397	Descr. diptères nouv. [Hæmatopota].....	239
Berthoumieu, Victor. See also Wytzman, P. Genera insectorum.....	18	Diptères (Collect. Pavie).....	239
Bertrand, Ed. Conduite du rucher.....	95	Diptères (Cap Horn) .....	244
Bessey, C. E.		Diptères nouv .....	239
Rept. on insects .....	55	Diptères nouv. [Hæmatopota].....	260
Rept. on insects injur. to plants & ani- mals .....	55	Diptères nouv. Leptidi.....	260
Bestimmungs-tabellen der europäischen coleopteren.....	192	Diptères nouv. Muscidi.....	273
Bethune, C. J. S.		Diptères nouv. [Tabanidi].....	261
Rise & progress of ent. in Can .....	138	Dipter. aliquot nova genera.....	239
Bibliog. Can. ent .....	5	Énum. des diptères en Tunisie.....	244
Bethune-Baker, G. T. See Baker, G. T.		Voyage de M. C. Alluaud .....	245
Bethune.		See also	
Beutenmüller, William.		Nouveau guide de l'amateur d'in- sectes.....	49
Bib. cat. descr. transf. of N. A. Coleopt.	182	Thomson, James. Voyage au Ga- bon.....	138
Butterflies of N. Y. city.....	316	Binet, L. A. A. Nervous center of flight in Coleopt.....	182
Cat. of gall-producing insects.....	29	Biolley, Paul, joint author. See	
Cat. of Lepidopt of N. Y. city.....	308	Pittier de Fábrega, H. F.	
Critical rev. of Sesiidæ .....	352	Coleopterous.....	199
Descr. of a new moth.....	345	Hemipt. heterópt.....	370
Descr. cat. of bombycine moths .....	348	Biología central-americana.	
Descr. cat. of butterflies of N. Y. city....	316	Arachnida Acaridea.....	462
Descr. cat. of Noctuidæ.....	339	Arachnida-Araneidea .....	451
Descr. cat. of Orthoptera.....	278	Arachn. Scorp., Pedipalpi, & Soli- fugæ.....	460
Descr. cat. of Sphingidæ.....	335	Chilopoda & Diplopoda .....	443
Essay on mosquito & house fly .....	255	Coleoptera.....	192-193
Hawk-moths .....	335	Diptera .....	245
Insect-galls .....	29	Hymenoptera .....	155
List of Lepidopt. in Edwards coll .....	297	Lepidoptera-Heterocera .....	329
List of types of Lepidopt., Grote & Rob- inson .....	297	Lepidoptera-Rhopalocera .....	316
New katydid .....	287	Neuroptera .....	425
Notes on N. A. Sesiidæ .....	352	Orthoptera .....	280
Notes on some N. A. moths.....	329	Rhynchota. Hemiptera-Heteroptera..	368
Notes on some spec. of <i>Catocala</i> .....	339	— Hemiptera-Homoptera .....	379
Notes on some spec. of N. A. moths .....	329	Bisson, E., joint author. See	
Notes on some spec. of N. A. Orthopt....	276	Verson, Enrico.	
Notes on transf. of some N. A. moths....	329	Cellule gland. ipostig. nel <i>Bombyx</i> <i>mori</i> .....	129
On the earlier stages of N. A. moths....	329	Svil. postemb. organi sess. B. <i>mori</i> ..	130
Rev. of <i>Euchloë</i> .....	327	Svil. postemb. organi genitali B. <i>mori</i> .....	130
Some notes on transf. of Austral. Lepi- dopt .....	297	Blackburn, Thomas.	
Studies of N. A. <i>Ægeriidae</i> .....	352	Australian Coleopt .....	193
Synop. of spec. of <i>Melittia</i> .....	352	Coleopt. of Hawaiian Isl .....	193
Transf. N. A. hawk-moths.....	335	Hymenopt. of Hawaiian Isl.....	155
Types of Cynipidæ .....	162	Rev. of the Austral. <i>Amarygmides</i> .....	229
		Rev. of <i>Paropsis</i> .....	225

	Page.		Page.
Blackwall, John. Spiders of Gt. Brit. & Ireland.....	451	Boas, J. E. V.—Continued.	
Blain, F. Ver du chêne.....	112	Besøg paa de nonnen.....	345
Blaisdell, F. E. Stenini in San Diego County.....	207	Bogenønnen i 1901.....	345
Blake, James. On Phylloxera.....	395	Cossus ligniperda.....	351
Blanchard, Émile.		Granbarkvikleren.....	355
Insectes de l'Amér. mérid.....	139	Hestebremserne.....	270
Métamorph., mœurs et instincts.....	47	Iagttagelser og oldenborrerne.....	219
See also Castelnau, F. L. de Laporte.		Metamorphose der insecten.....	38
Hist. nat. insectes coléopt.....	9	Mosekulturfjende.....	212
Blanchard, Raphael.		Nogle bemærkninger om spætternes forstl. betyd.....	34
Coccidés utiles.....	416	Nonnen.....	345
Picûre de quelques hémiptères.....	362	Nonnens optræden.....	346
Pseudo-parasitisme des myriapodes.....	441	Nye iagttagelser over mosekulturfjenden.....	212
Transmiss. filariose par les moustiques.....	255	Oksebremse.....	270
Blanchon, H. L. A. Man. prat. du sériculteur.....	112	Om en græshoppe.....	289
Blandford, W. F. H.		Om en rodlus.....	387
Insects injur. to Coniferae.....	89	Om et angreb af snudebillen.....	233
Palm weevil in Brit. Honduras.....	232	Om oldenborrens æglægning.....	219
Sugar-cane borers in W. I.....	81	Om sygdomme hos skadelige insekter..	219
See also		Organe copulateur du hanneton.....	219
Biol. cent.-amer. Coleopt.....	192-193	Skadedyr paa unge æbletræer.....	232
London, Ent. soc. of—Library.		Store bladhevseangreb.....	160
Suppl. cat.....	6	Træbukken Tetropium luridum i lærk.	223
Blanford, W. T. See Hampson, G. F. Moths.	333	Typografens optræden.....	236
Blankenhorn, Adolph.		Über die stigmene der melolontha-larve	219
A tutti coloro che fanno studii sulla phyllox.....	395	Ueber brutpflege bei einem bockkäfer.	223
An alle diejenigen, die sich mit dem studium der Phyllox.-frage befassen.	395	Yderligere bemærkninger om Hylesinus piniperda.....	236
Ampelograph. versuchs-stat. Blankenhornsberg.....	395	See also Poulsen, M. En bremselarve..	272
Beitr. zur frage der feinde der phyllox.....	395	Boerhaave, Herman. See Swammerdam, Jan. Book of nature.....	16
List of preparations of phyllox.....	395	Boheman, C. H.	
Über die Phylloxera.....	395	Cat. of coleopt. insects.....	228
Ueber eine internat. Phyllox.-commis.	395	Insecta Caffraria.....	193
Verzeichn. der präparate der phyllox..	395	Monogr. cassidarum.....	228
Wurzellaus des weinstockes.....	396	Bohemia. České společnosti entomologické. See Česke společnosti entomologické.....	476
See also, Haller, G. Bericht über die an der rebe lebenden mikrosk. tiere.....	403	Bohemia. Societas entomologica Bohemica. See Česke společnosti entomologické.....	476
Blaquiere, Dora de. Silk industry in Ireland & Eng.....	112	Boisduval, J. A.	
Blatchley, W. S.		Consid. sur lépidopt. du Guatémala....	306
Cat. of butterflies in Ind.....	316	Essai sur l'ent. hgrt.....	63
Locustidæ & Blattidæ of Ind.....	287	Essai sur monogr. des zygénides.....	338
Orthopt. of Ind.....	278	Europæorum lepidopt. ind. method.....	306
Blochmann, Friedrich. Regelmäss. wanderungen der blatläuse.....	387	Faune ent. de Madagascar.....	306
Bloodget, Lorin.		Genera et ind. method. europ. lepidopt.	306
Silk culture in the U. S.....	106	Hist. gén. et icon. des lépidopt.....	306
Women's work in founding new industry.....	106	Hist. nat. des insectes. Spec. gén. des lépidopt.....	298
Blot, Frédéric. See Caen, Société royale d'agric. et de commerce de. Programme d'un prix.....	387	— Spec. gén. des lépidopt. hétéroc.....	329
Blunno, M.		Icones hist. des lépidopt. nouv.....	306
Phyllox. resistant vine stocks.....	396	joint author. See Dejean, P. F. M. A. Iconog. & hist. nat. des coléopt.....	193
joint author, see Allen, W. J. Insect & fungus dis. of fruit-trees.....	81	Boissier de Sauvages de la Croix, P. A. See Sauvages de la Croix, P. A. B.	
Blydenburgh. See also Silk culture in the U. S.....	110	Boitard, Pierre. Manuel d'ent.....	8
Boas, J. E. V.		Boiteau, P. Phylloxéra.....	396
Angreb af Hylesinus piniperda.....	236	Bolívar y Urrutia, Ignacio.	
Angreb af snudebillen.....	232	Analecta orthopt.....	276
		Apuntes acerca de la casa.....	48
		Cat. orthopt. Europæ.....	281
		Enumer. grilidos de Filipinas.....	287
		Monogr. de los pigmorfinos.....	289

	Page.		Page.
Bolivar y Urrutia, Ignacio—Continued.		Borre, Alfred Preudhomme de. <i>See</i> Preud-	
Orthoptères de l'île de Cuba.....	281	homme de Borre, Alfred.	
Sinop. ortopt. España y Portugal.....	281	Bos, J. R.	
<b>Boll, Jacob.</b>		Bekämpf. der Lophyrus-arten.....	160
Befrucht. nordamer. Yucca arten.....	358	Bericht über San José-schildlaus.....	416
Dimorph. & variation einiger schmet-		Glasvleugige vlinders (Sesia).....	352
terlinge.....	316	Insekten schade.....	64
<b>Bolle, Giovanni.</b>		Kurze mitt. über insektenfrass.....	64
Bachicolt. nel Giappone.....	112	Kurze mitt. über pflanzenkrankh.....	64
Bozzoli nel Goriziana.....	112	Lebensweise der rinderbiesfliege.....	270
Commercio dei bozzoli nel Goriziano.....	113	Legerwurm.....	254
Frostspanner des kirschbaumes.....	348	Meelmot (Ephestia kühniella).....	353
Infezione fillosserica.....	396	"Spruitvretter" der bessenstruiken.....	358
Istruzione nella bachicolt.....	113	Verslag omtrent San José-schildlaus.....	416
Istruz. per l'allev. de baco da seta.....	113	Wovon lebt die werre.....	287
Kurze anleit. zur aufzucht der seiden-		Boucard, Adolphe. Instructions for col-	
raupe.....	113	lecting.....	48
Rimedi contro la fillossera.....	396	Bouché, P. F.	
Seidenbau in Japan.....	113	Beitr. zur insectenkunde.....	8
Seidenspinner des maulbeerbaumes.....	113	Naturgesch. der insekten.....	38
Sesto cong. bacol. di Parigi.....	113	Boucumont, A. <i>See</i> Wytzman, P., ed. Gen.	
Sommissione delle vigne.....	396	insectorum.....	18
Unterricht in der seidenzucht.....	113	Bouley, H. M. Rapp. sur les réclam.....	396
Bollettino mensile di bachicoltura.....	184	Boullenois, Frédéric de. Conseils aux éduc.	
<b>Bollman, C. H.</b>		de vers à soie.....	114
Cat. of myriapods of Ind.....	442	Bourbon, C. Destr. du phylloxéra.....	396
Descr. 14 new spec. N. A. Myriap.....	442	Bourdon, Henri.	
Descr. 10 new N. A. Myriap.....	442	Industrie des soies.....	114
List of Myriapoda of Ark.....	442	L'industrie séríc.....	114
Myriapoda of N. A.....	442	<i>See also</i> Darcet, Félix. Magnanerie	
Notes on coll. Myriap. from Cuba.....	443	salubre.....	116
Notes on coll. Myriap. from Mossy Creek.	442	Bourgeois, Jules.	
Notes on N. A. Julidæ.....	447	Malacodermes réc. au Japon.....	215
Notes on N. A. Lithobiidæ.....	444	Trois nouv. espèces de malacodermes..	215
Notes upon Myriap., U. S. Nat. Mus.....	441	Bourgnon de Layre, Antonin. Industrie	
<b>Bollman, Lewis.</b> Silk cultivation.....	106	sérigène.....	114
<b>Bonafous, Matthieu.</b>		Bouschet, H. Moyens de transf. les vigno-	
Mém. sur éducation de vers à soie.....	113	bles menacés par phyllox.....	396
Traité de l'éduc. des vers à soie.....	113	Boutin, A.	
<b>Bonanni, Philippo.</b> <i>See</i> Buonanni, Philippo.		Anal. sur vigne saine et phylloxérée....	396
<b>Bonnet, Charles.</b> Traité d'insectol.....	387	<i>See also</i> Paris, Acad. des sci. Com'n du	
<b>Bonnet, G. C.</b> Mém. sur la puce péné-		phyllox.....	409
trante.....	275	Bouvier, E. L.	
<b>Bonnier, Gaston,</b> joint author. <i>See</i> Layens,		Caract. ext. des péripates.....	448
Georges de. Cours compl. d'apicult.....	100	Dével. & affin. du Peripatopsis blain-	
<b>Bonvouloir, Henry de.</b>		villei.....	448
Descr. espèces nouv. de throscides.....	214	Habitudes des Bombex.....	174
Essai monog. sur throscides.....	214	Instruct. pour recherche des anim. artic.	8
Monogr. des eucnémides.....	214	Observ. sur les Peripatus.....	447
<b>Bor, J. H.</b> <i>See</i> Great Britain—Government.		Peripatus ecuadorensis.....	447
Cyprus; locust campaigns.....	291	Quelques observ. onychophores.....	448
<b>Borck, J. B.</b> Skand. rätvingade insekt.....	281	Bovill, A. K. Bee-keeping in Cyprus.....	95
<b>Bordage, Edmond.</b>		Bowditch, F. C. Notes on certain Coleopt.	182
Absence of regen. in limbs of Orthopt.		Boyer, Félix. Fumure chim. des vignes... 396	
saltatoria.....	276	Boyer, François. Culture du mûrier..... 114	
Regen. of limbs in Mantidæ.....	286	Boy's silk culture association. Habits of	
Regen. tarsus in Orthopt. saltatoria.....	276	Bombyx mori.....	106
<b>Borde de Tempest, Ernest.</b> Phylloxera.....	396	<b>Bramson, K. L.</b>	
<b>Bordeaux.</b> Congrès interdépartemental,		Вредныя насѣкомыя.....	64
1875. <i>See</i> Congrès interdépartemental.		Tab. anal. pour déterm. des lépid. diur-	
Bordeaux, 1875.....	397	nes.....	316
<b>Bordeaux,</b> Congrès international phylloxé-		Branden, Constant van den.	
rique de. <i>See</i> Congrès international phyl-		Cat. des coléopt. carnassiers aquat.....	182
loxérique, Bordeaux, 1881.....	397	Enum. des coléopt. phytophages.....	228
<b>Bormans, Auguste de.</b> <i>See</i> Biol. cent. amer.		<i>See also</i> Revue. coléoptérologique.....	485
Orthoptera.....	280		

	Page		Page.
Brandenburg. Verein zur beförderung des seidenbaues. <i>See</i>		Brischke, C. G. A.—Continued.	
Verein zur beförderung des seidenbaues für die provinz Brandenburg.		Pflanzen-deformationen (gallen).....	29
Verein zur beförderung des seidenbaues in der mark Brandenburg und Niederlausitz.		Ueber parthenogen. bei den blattwespen .....	160
Brandt, E. K. Anat. of <i>Sesia tipuliformis</i> ..	352	Brisout de Barneville, Louis. <i>See also</i>	
Brandt, J. F. Monogr. gen. <i>Meloes</i> .....	231	Nouveau guide de l'amateur d'insectes ..	49
Braswell, A. List of butterflies at Chapel Hill .....	316	British association for the advancement of science.	
Brauer, Friedrich.		Rev. rules of zool. nomenclature.....	22
Ansichten über <i>Pachystylum Moq</i> .....	273	<i>See also</i> Sharp, David. Fauna hawaiiensis.....	149
Antwort auf Osten-Sacken's "Crit. rev." Biol. der acroceriden.....	239	British bee journal .....	104
Entomol. beitr. ....	262	British Lepidoptera .....	307
Entwickl. der oestrident-larven.....	270	British museum.	
Insecten leben im winter.....	53	Cat. of Lepidopt. Phalænæ .....	330
Kurze char. der dipt.-larven .....	239	Illus. of typical spec. of Lepidopt. Heteroc .....	330
Lebensweise & verwandl. der neuropt. ....	424	<i>See also</i>	
Monogr. der oestrident.....	270	Smith, Frederick.	
Neue art <i>Japyx</i> .....	439	Cat. of Brit. bees.....	178
Neue beitr. zur kenntn. europ. oestridenten.....	270	Cat. of Brit. fossorial Hymenopt. ....	159
Neue neuropt. ....	437	Cat. of Brit. Hymenopt. <i>Apidæ</i> .....	181
Oestrident des nochwildes .....	270	Cat. of hymenopt. insects.....	153
Schmarotzende & paras. insecten .....	79	List of coleopt. insects. <i>Cucujidæ</i> .....	210
Segment médiaire Latreille's.....	38	List Hymenopt. <i>Acul</i> .....	159
System-zool. studien.....	8	— Nomencl. of Hymenopt. ....	159
Über die aus Afrika bekannt oestridenten.	270	Nomencl. of coleopt. insects.	
Über 2 neue entdeckte insecten.....	424	Passalidæ.....	219
Verwandlung der meloiden.....	231	Britton, W. E. Observ. on banding of trees.	348
Verwandlungsgesch. der <i>Mantispa styracæ</i> .....	436	Brocchi, Paul.	
Verwandlungsgesch. der regenbremse..	261	Insectes nuisibles aux pommiers.....	81
Zwei parasiten des <i>Rhizotrogus solstitialis</i> .....	239	Observ. faites à la Station ent. de Paris.	64
Zweiflügler des Kais. mus. zu Wien .....	239	Brodie, William.	
Bréau, J. L. A. de Quatrefoies de. <i>See</i> Quatrefoies de Bréau, J. L. A. de.		Check list of insects of Can.....	139
Bredin, Gustav. Hemipt. von Celebes....	366	Gall-producing insects.....	29
Breed, Daniel. Inventions for insect destr.	74	Spruce gall-louse.....	387
Brehm, A. E.		Brölemann, H. W.	
Merveilles de la nature.....	8	Dous <i>Myriap.</i> notáveis do Brazil.....	445
<i>See also</i> Taschenberg, E. L. Die insecten, tausendfüßler e spinnen.....	16	<i>Myriap.</i> du Musée de São Paulo.....	443
Bremi-Wolf, J. J. Monogr. der gallmücken.	249	Brongniart, C. J. E.	
Brendel, Emil. <i>Pselaphidæ</i> of N. A.....	207	Champignons parasites, criquets pèlerins.....	35
Brenske, Ernst. <i>Nouv. espèces de melolonthidés</i> .....	220	Criquet pèlerin.....	289
Breslau, Verein für schlesische insectenkunde in.		Organe pectiniforme des scorpions.....	460
Fest-schrift.....	475	Note rectific. sur quelques dipt. tertiaires.....	24
<i>See also</i> Zeitschrift für entomol.....	488	<i>Nouv. espèce de dipt. fossile</i> .....	24
Brèthes, Juan.		<i>Nouv. genre d'orthopt. fossile</i> .....	24
Estudo vespídidos sud-amer.....	175	joint author. <i>See</i> Bouvier, E. L. Instr. pour la recherche des anim. artic.....	8
Étude des hyménopt. de l'Amér. du Sud.	163	Brooklyn entomological society.	
Euménides de las repúb. del Plata.....	176	Check list of macro-lepidopt. of Amer.....	303
Nuevo <i>Anthidium</i> de Patagonia.....	180	Explan. of terms used in ent.....	7
<i>Trimeria</i> Buyssoni.....	175	<i>See also</i> <i>Entomologica americana</i> .....	477
Briggs, E. M. Life history of case bearers.	225	Brousse. <i>See</i> La Brousse.	
Brischke, C. G. A.		Broun, Thomas.	
Arten der blatt- und holzwespen .....	160	Manual of N. Z. Coleopt.....	193
Blattminirer in Danzig's umgebung.....	64	New Coleopt. from N. Z.....	193
Hymenopt. der provinz Preussen.....	155	Brown, S. Locust war in Cyprus.....	289
Ichneumoniden West- und Ostpreussen.	163	Browne, D. J. Nature of honey-bee.....	95
		Bruce, A. T. Embryol. of insects & arachnids .....	38
		Brucker, E. A. Monogr. de <i>pediculoides ventricosus</i> .....	463
		Bruckisch, Wilhelm. <i>See</i> Dzierzon, Johann.	
		Beste bienenzuchts-methode .....	97

	Page.		Page.
Brullé, Auguste, joint author. <i>See</i>		Buffa, Pietro. <i>Contrib. allo stud. anat.</i>	
Blanchard, Emile. <i>Insectes de l'Amér.</i>		Heliothrips.....	423
mériid.....	139	Bugnion, Édouard, joint author. <i>See</i> Ju-	
Castelnau, F. L. de Laporte. <i>Hist. nat.</i>		nod, H. A. <i>Faune ent. du Delagoa.</i>	
des coléopt.....	9	Coléoptères.....	196
Bruner, Lawrence.		Buisine, A., joint author. <i>See</i> Giard, Alfred.	
Army worms in Neb.....	339	4. note sur <i>Margarodes</i> .....	418
<i>Contrib. to knowl. of Orthopt. of Kans.</i>	278	<i>Bulletin d'insectologie agricole</i> .....	476
<i>Directions for coll. Orthopt.</i> .....	48	<i>Bulletin des soies &amp; des soieries de Lyon</i> ...	134
<i>Grasshoppers in Neb.</i> .....	289	Bunker, Robert. <i>Hints on collecting in-</i>	
<i>Intro. to study of entomol</i> .....	18	sects.....	48
<i>More destructive locusts of Amer.</i> .....	289	Buonanni, Philippo. <i>Observ. circa viven-</i>	
<i>New N. A. Acrid.</i> .....	290	tia.....	8
<i>Notes from Neb.</i> .....	55	Burgess, A. F.	
<i>Primer informe de la Comisión.</i> .....	290	Elm leaf beetle.....	225
<i>1st rept. of Merchants' locust comm.</i> ...	289	Some destr. grape pests.....	81
<i>Rept. of Rocky Mt. locust.</i> .....	290	Burgess, Edward.	
<i>Rept. on Neb. insects</i> .....	55	<i>Anat. of the head in the Psocidæ.</i> .....	429
<i>Rept. on season's observ. in Neb.</i> .....	55	<i>Anat. of milk-weed butterfly.</i> .....	323
<i>Tiger beetles of Neb.</i> .....	203	<i>Struct. of mouth in larva of Dytiscus.</i> ...	206
<i>To dispose of the hoppers.</i> .....	290	<i>Two interesting Amer. Diptera.</i> .....	263
<i>See also</i>		joint author. <i>See</i>	
<i>Biol. cent. amer. Orthoptera.</i> .....	280	Minot, C. S. <i>Rept. on anat. of Aletia</i>	
Riley, C. V. <i>Coll. of insects made</i>		<i>xylina</i> .....	341.
<i>during Death Valley exped</i> .....	141	Scudder, S. H. <i>On asymmetry in</i>	
Brunet de la Grange.		<i>appendages of insects</i> .....	45
<i>Rapport à M. le ministre de l'agric.</i> ....	114	<i>See also for biographical notice, Scudder,</i>	
<i>ed. See Dandolo, Vicenzo. L'art d'é-</i>		<i>S. H. Services of Burgess</i> .....	52
<i>lever les vers à soie</i> .....	116	Burmeister, H. C. C.	
Brunfaut, Jules. <i>La vigne et le phyllox-</i>		<i>De insectorum syst. natur</i> .....	8
<i>éra</i> .....	396	<i>Descr. phys. de la Répub. Arg. T. 5.</i>	
Brunner von Wattenwyl, Carl.		<i>Lépidopt</i> .....	307
<i>Coloration of insects.</i> .....	39	<i>Genera quadam insectorum.</i> .....	9
<i>Monogr. der phaneropteriden</i> .....	287	<i>Handbuch der ent.</i> .....	9
<i>Monogr. der proscopiden.</i> .....	290	<i>Mañual of ent.</i> .....	19
<i>Monogr. der pseudophylliden.</i> .....	286	<i>Ueber die gattung Calandra.</i> .....	236
<i>Monogr. der stenopelmatiden</i> .....	287-288	<i>Uebersicht der brasil. mutillen.</i> .....	173
<i>Nouv. syst. des blattaires.</i> .....	284	Burr, Malcolm.	
<i>Prod. der europ. orthopt</i> .....	281	<i>Notes on Forficularia.</i> .....	284
<i>Stimm- und gehörorgan der heuschre-</i>		<i>See also Wytzman, P. Genera insecto-</i>	
<i>cken.</i> .....	290	<i>rum</i> .....	18
Brussels. Société entomologique de Bel-		Buseck, August.	
<i>gique. See Société entomologique de</i>		<i>Amer. moths of genus Depressaria</i> .....	358
<i>Belgique.</i> .....	486	<i>Moths of super-fam. Tineina</i> .....	358
Bryce, P. H. <i>Flour moth "Ephestia kuh-</i>		<i>Tineid moths from Brit. Columbia</i> .....	358
<i>niella"</i> .....	353	<i>See also Dyar, H. G. List of N. A. Lepi-</i>	
Buchenau, F. G. P. <i>Die "springenden boh-</i>		<i>dopt</i> .....	303
<i>nen"</i> .....	355	Büsgen, Moritz. <i>Der honigttau</i> .....	387
Buchoz, P. J., ed. <i>See</i> Merian, M. S. <i>In-</i>		Busy bee.....	104
<i>sectes de Surinam et de l'Europe.</i> .....	14	Butler, A. G.	
Buckisch, William. <i>Bee-culture.</i> .....	95	<i>Abnormities in neuration of <i>Acraea andro-</i></i>	
Buckler, William. <i>Larvæ of Brit. butter-</i>		<i>macha</i> .....	324
<i>flies &amp; moths</i> .....	314	<i>Act. of coll. of butterflies betw. Mom-</i>	
Buckton, G. B.		<i>basaa &amp; forests of Taveta.</i> .....	316
<i>Monogr. of the Brit. aphides</i> .....	387	<i>Act. of coll. of butterflies at Munisu</i> ..	317
<i>Monogr. of Brit. Cicadæ</i> .....	380	<i>Cat. of diurnal Lepidopt. descr. by Fa-</i>	
<i>Monogr. of Membracidæ</i> .....	383	<i>abricius</i> .....	317
<i>Notes on new psyllid</i> .....	385	<i>Cat. of diurnal Lepidopt. of fam. Saty-</i>	
Budgen, L. M.		<i>ridæ</i> .....	325
<i>Episodes of insect life</i> .....	20	<i>Corrections &amp; addenda to papers on</i>	
<i>Insect life</i> .....	20	<i>Lepidopt</i> .....	298
Buenos Ayres. <i>Comisión del comercio para</i>		<i>Descr. of new genus of Erycinidæ.</i> .....	325
<i>la investigación de la langosta. See</i>		<i>Descr. of new genus of heteroc. Lepi-</i>	
<i>Bruner, Lawrence.</i>		<i>dopt</i> .....	337
<i>First report.</i> .....	289	<i>Descr. of Fulgora from India.</i> .....	382
<i>Primer informe.</i> .....	290	<i>Descr. of 4 new spec. of Glomeridæ.</i> ....	445

	Page.		Page.
Butler, A. G.—Continued.		California—State board of silk culture.	
Descr. of 4 new spec. of <i>Protogonius</i> . . .	324	Annual report . . . . .	134
Descr. of 4 new spec. of <i>Thyca</i> . . . . .	327	Biennial report . . . . .	134
Descr. of new diurnal Lepidopt . . . . .	317	Bulletin . . . . .	134
Descr. of new gen. & spec. of Lepidopt. . . . .	298	By-laws . . . . .	134
Descr. of new <i>Pierinae</i> . . . . .	327	Practical suggestions . . . . .	106
Descr. of new spec. of <i>Lycænidaë</i> . . . . .	326	Report . . . . .	134
Descr. of new spec. of <i>Lycænesthes</i> . . . . .	326	Calvert, P. P.	
Descr. of new spec. of exotic Lepidopt. . . . .	298	Contrib. to knowl. of Odonata of Para-	
Descr. of new spec. of <i>Satyridæ</i> . . . . .	325	guay . . . . .	430
List of butterflies of Costa Rica . . . . .	317	East African Odonata . . . . .	431
List of diurnal Lepidopt. India . . . . .	317	Neuropterous insects coll. in N.E. Africa. . . . .	431
List of diurnal Lepidopt. Hakodadi . . . . .	317	Notes on Odonata from East Africa . . . . .	431
List of diurnal Lepidopt. South Sea Is-		Odonata (dragonflies) from the Ind.	
lands . . . . .	317	Ocean . . . . .	431
List of spec. of butterflies from South		Odonata from Tepic . . . . .	431
Seas . . . . .	317	Odonata of Baja California . . . . .	431
List of species of <i>Cyaniris</i> . . . . .	326	Odonate genus <i>Macrothemis</i> . . . . .	431
List of species of <i>Fulgora</i> . . . . .	382	Odonate genus <i>Ortholestes</i> . . . . .	431
Monograph of genus <i>Lemonias</i> . . . . .	324	On the odonate <i>Æschna rileyi</i> . . . . .	431
Monogr. revis. of <i>Zephronia</i> & <i>Sphæ-</i>		Order Odonata . . . . .	431
rotherium . . . . .	445	Parallelisms in structure of Odonata . . . . .	431
Note on identity of <i>Lycænidaë</i> . . . . .	326	Preparation of organs of dried insects. . . . .	48
Note on <i>Nymphalis caledonia</i> . . . . .	324	<i>See also</i>	
Notes on certain gen. of <i>Agaristidaë</i> . . . . .	338	Biol. cent.-amer. Neuroptera . . . . .	425-426
Notes on the <i>Ægeriidaë</i> . . . . .	352	Hagen, H. A. Illus. of Odonata.	
Notes on <i>Palæontina oolitica</i> . . . . .	24	<i>Argia</i> . . . . .	432
On a fossil butterfly fam. <i>Nymphalidaë</i> . . . . .	24	Camboué, Paul.	
On a 2d coll. of butterflies in Nyasaland. . . . .	317	Araignées et leur venin . . . . .	457
On butterflies coll. betw. Chinde &		Aranéides de Madagascar . . . . .	452
Mandala . . . . .	317	Psychique de la bête . . . . .	452
On new diurnal Lepidopt . . . . .	317	Soie d'araignée . . . . .	457
On new spec. of butterflies from tropical		Sur l' <i>Urania rhipheus</i> . . . . .	336
Amer . . . . .	317	Sur l' <i>Putilis</i> . de 2 aranéides séricigènes . . . . .	457
Remarks upon <i>Papilio coccytus</i> . . . . .	324	Cambridge, F. O. Pickard.	
Review of <i>Dismorphina</i> . . . . .	328	Handbook of Brit. spiders . . . . .	452
Revis. of genus <i>Protogonius</i> . . . . .	324	<i>See also</i> Biol. cent.-amer. Araneida . . . . .	451
Revis. of genus <i>Melipotis</i> . . . . .	339	Cambridge, O. Pickard.	
Revis. of genus <i>Huphina</i> . . . . .	328	Arachnida from Kerguelen's Land . . . . .	450
Synon. list of species incl. in <i>Pieris</i> . . . . .	328	Cat. of Ceylon Araneida . . . . .	452
joint author. <i>See</i> White, Adam. In-		Descr. of 2 new spec. of Araneidea . . . . .	452
sects ( <i>Erebus</i> & <i>Terror</i> ) . . . . .	144	New & rare Brit. spiders . . . . .	452
Butler, A. L. Report <i>Cephonodes hylas</i> . . . . .	335	New gen. & spec. of Araneidea . . . . .	452
Butler, E. A.		New spec. of Araneidea . . . . .	452
Our household insects . . . . .	93	New gen. & spec. of spiders . . . . .	452
Silkworms . . . . .	114	New spec. of Araneidea from Siberia . . . . .	452
Butlerov, A. M. Какъ водить пчелъ . . . . .	95	New spec. of Araneidea . . . . .	452
Byram, H. P. Essay on silk . . . . .	106	New spec. of <i>Drassides</i> . . . . .	457
Cabello e Ibañez, Luis. Vérité sur le Phyl-		New spec. of <i>Erigone</i> . . . . .	457
loxera . . . . .	396	Some new gen. & spec. of Araneidea . . . . .	452
Cabot, Louis. Immature state of Odonata . . . . .	430	Some new spec. & gen. of Araneidea . . . . .	452
Caen, Société royale d'agriculture et de		Spiders of Dorset . . . . .	453
commerce de. Programme d'un prix . . . . .	387	<i>See also</i> Biol. cent.-amer. Araneida . . . . .	451
Calcutta. Indian museum. <i>See</i> Indian		Cambridge entomological club.	
museum, Calcutta . . . . .	480	Ann. repts . . . . .	476
California—State board of horticulture.		<i>See also</i> Psyche . . . . .	484
Rept. on importation of parasites . . . . .	79	Cambridge natural history. <i>See</i>	
<i>See also</i> Klee, W. G. Treatise on insects		Sedgwick, Adam. <i>Peripatus</i> . . . . .	448
injur. to fruit . . . . .	58	Sharp, David. Insects . . . . .	15-16
California, Ladies' silk-culture society of.		Sinclair, F. G. <i>Myriapoda</i> . . . . .	442
<i>See</i> Ladies' silk-culture society of Cali-		Cameron, Peter.	
fornia.		Decade of new Hymenopt. . . . .	150
California silk culture association.		Descr. of new fossorial Hymenopt. . . . .	173
Annual report . . . . .	134	Descr. of new gen. & spec. of Hymenopt. . . . .	150
<i>See also</i> Ewer, W. B. Calif. silk growers'		Descr. of new spec. of <i>Haliectus</i> . . . . .	178
manual . . . . .	107	Descr. of new tribe of Hymenopt. . . . .	156

	Page.		Page.
Cameron, Peter—Continued.		Cape of Good Hope—Dept. of agriculture— Government entomologist.	
Descr. of 2 new spec. of <i>Mutilla</i> .....	173	Gas treatment for scale insects.....	416
Descr. of new Hymenopt. from Dun- brody.....	155	Rept.....	476
Descr. of new Hymenopt. from oriental zool. region.....	155	Cape of Good Hope—Dept. of lands, mines, & agriculture—Entomological adviser. Re- port.....	476
Descr. of new aculeate Hymenopt. from oriental zool. region.....	155	Cape of Good Hope—Inspectors of vine- yards. Report.....	397
Descr. of new Hymenopt. at Sarawak..	155	Cape of Good Hope—Phylloxera commis- sion.	
Descr. of new parasitic Hymenopt.....	150	Final report.....	397
Descr. of new Hymenopt. from E. Asia & Australia.....	155	Prelim. report.....	397
Descr. of new Ichneumonidæ from India.....	164	Report.....	397
Descr. of 23 new spec. of Hymenopt....	151	Carera, Huber & co. Cultiv. of mulberry trees.....	106
Fauna of Scotland.....	155	Caron, Quentin. Industrie séréricole.....	115
Galls of mid-Cheshire.....	29	Carpenter, G. H.	
Hymenopt. orientalia.....	155	Lepidopt. from Lokoja.....	307
Hymenopt. coll. at Sarawak.....	156	Collembola ( <i>Fauna hawaiiensis</i> ).....	440
Hymenopt. coll. in New Brit.....	156	Collembola of Mitchelstown cave.....	440
Hymenopt. notices.....	151	Colour changes in insects.....	39
Mem. of Scottish Tenthredinidæ.....	160	Further notes on habits of insects.....	47
Monogr. of Brit. phytoph. Hymenopt..	155	Further notes upon arach. & insect devel.....	39
New Hymenopt. from Khasia Hills....	156	Geog. distrib. of dragon flies.....	431
New Hymenopt. from Nicaragua.....	156	Injurious insects in Ireland.....	476
Notes on Hymenopt. from Greymouth, N. J.....	156	Insect enemies of potato.....	81
On parthenogenesis in Hymenoptera...	151	Insects, their structure & life.....	19
On forms of galls.....	29	List of dragon flies of Jamaica.....	431
On new Hymenopt. from N. India.....	155	New spec. of Tortrix.....	355
joint author. See Blackburn, Thomas. Hymenopt. of Hawaiian Islands.....	155	On some dragon flies in the Dublin mus. Repts. on zool. coll. in Torres straits.	431
See also Biol. cent.-amer. Hymenop- tera.....	155	Rhynchota.....	366
Campbell, F. M. Hessian fly.....	249	— Lepidopt.....	307
Campbell, W. S.		Researches on insect anat.....	39
Rept. on silk culture.....	114	Researches on ants, wasps & bees.....	151
Sericulture.....	114	Some spring-tails new to Brit. fauna....	440
Canada—Central experimental farm—Apia- rist. Bee keeping.....	95	Two spiders new to Brit. fauna.....	453
Canada—Central experimental farm—Ento- mologist & botanist. Report.....	476	Carrier, Amans. See Bonafous, Matthieu. Traité de l'éduc. des vers à soie.....	113
Canada—Dept. of agriculture—Entomolo- gist. Report.....	476	Carter, Landon. Observ. concern. fly- weevil.....	358
Canada, Entomological society of. See Ento- mological society of Canada.....	477	Carus, C. G. Untersuch. über blutlauf in kerfen.....	39
Canadian bee journal.....	104	Casey, T. L.	
Canadian entomologist.....	476	Coleopt. notices.....	182
Candèze, E. C. A.		Coleopterol. of N. A.....	187
Élatérides nouveaux.....	212	New gen. & spec. of Calif. Coleopt.....	188
Insectes recueillis au Japon.....	212	On some new N. A. Pselaphidæ.....	207
Monogr. des élatérides.....	213	Revis. of Amer. Paederini.....	208
Moyens d'attaque et de défense.....	39	Revis. of Stenini.....	208
Révis. de la monogr. des élatérides.....	218	Castelnau, F. L. de La Porte, comte de. Classif. systém. des hémipt.....	368
joint author. See Chapuis, Félicien. Cat. des larves des coléopt.....	182	Études entomol.....	9
Cane grubs.....	236	Hist. nat. des insectes coléopt.....	9
Canestrini, Giovanni.		Castillo, Antonio Martínez y Fernández— See Martínez y Fernández-Castillo, An- tonio.	
Apicoltura.....	96	Catal. insectorum faunæ bohemicæ. See Nickerl, Ottokar. Kleinschmetterlinge Böhmens.....	334
Chernetidæ ital.....	461	Caudell, A. N.	
Demodicidæ & Sarcoptidæ.....	473	Notes on Orthopt. from Col., N. M., Ariz. & Tex.....	278
Prospetto dell' acarofauna ital.....	463	Orthopt. (Harriman Alaska exped.)...	278
Cantin, Gustave. Phylloxéra.....	397		
Cape Horn. Mission scientifique du Cap Horn. See France—Mission scientifique du Cap Horn.			

	Page.		Page.
Caudell, A. N.—Continued.		Child, C. M. Ein sinnesorgan der insekten.	255
Orthoptera from S. W. Tex.....	279	Chile—Instituto agricola. <i>See also</i> Rivera,	
Phasmidæ.....	285	M. J. El bruco de las arvejas.....	228
Two Orthopt. hitherto unrecorded.....	279	China—Inspector-general of customs. Silk.	116
Cauvy, B.		Chittenden, F. H.	
Note sur le phyllox.....	397	Asparagus beetles.....	225
Salut des vignes.....	397	Brief acct. of enemies of sugar beet....	82
Cecconi, G., joint author. <i>See</i> Trotter,		Common squash bug.....	373
Alessandro. "Cecidotheca italica".....	31	Destr. green pea louse.....	387
"Cecidotheca italica." <i>See</i> Trotter, Ales-		Fall army worm.....	339
sandro.....	31	Fruit-tree bark-beetle.....	237
Cederhjem, Johann. Faunæ Ingricæ.....	144	Insect enemies of white pine.....	89
České společnosti entomologické. Časopis..	476	Insects injur. to basket willow.....	82
Chamberlaine, Samuel.		Insects injur. to beans & peas.....	82
Instr. for hatching silkworms' eggs....	106	Larger apple-tree borer.....	214
Silk cult. & home industry.....	106	More import. insects injur. to stored	
Chamberlin, R. V.		grain.....	82
Hemicops dolichopus.....	444	Remedies for insect pests.....	74
List of Lithobiidæ.....	444	Rose-chafer.....	220
Chambers, V. T.		Some insects injur. to garden and or-	
Antennæ & trophi of lepidopt. larvæ... 314		chard crops.....	55
Descr. of new Tineina from Tex.....	358	Some insects injur. to garden crops....	82
Index to descr. Tineina.....	359	Some insects injur. to stored grain....	82
Metamorphoses of insects.....	358	Some insects injur. to veg. crops.....	82
Notes on coll. of tineid moths.....	359	Some insects injur. to violet, rose....	82
On Pronuba yuccasella.....	359	Some little-known insects affect. stored	
On the distrib. of Tineina.....	359	veg. products.....	82
Tineina & food plants.....	359	Squash-vine borer.....	352
Tineina of Col.....	359	Striped cucumber beetle.....	225
Chambon, Hipólito. Sericicultura.....	115	Two-lined chestnut borer.....	214
Chamecin. Rapp. de la Comm. séricicole..	115	Two new species of Ecnocerus.....	229
Champion, G. C., ed.		Chitty, Walter. Bee-keeping.....	96
<i>See</i> London, Entomological society of—		Cholodkovskii, N. A. <i>See</i> Kholodkovskii,	
Library. Catalogue.....	6	N. A.	
<i>See also</i>		Chrétien, Pierre. Étude sur les lépidopt... 346	
Biol. cent. amer. Coleoptera.....	193	Christ, H. Nachtrag Uebersicht der um	
— Hemiptera-Heteroptera.....	368	Basel gefund. tagfalter.....	307
Chapman, B. L. <i>See also</i> Kellogg, V. L.		Christoph, H. T.	
New Mallophaga.....	438	Lepidopt. des Achal-Tekke-gebietes....	307
Chapuis, Félicien.		<i>See also</i> Romanoff, N. M. Mém. sur les	
Cat. des larves des coléopt.....	182	lépidoptères.....	301, 302
Monogr. des platypides.....	237	Christy, Cuthbert. Mosquitos & malaria... 255	
Synopsis des scolytides.....	237	Cicccone, Antonio. De la muscardine..... 132	
<i>See also</i> Lacordaire, J. T. Hist. nat. des		Cid, F. X. Tarantismo en España..... 458	
insectes.....	185	Cirillo, Domenico. Entomol. neapol..... 144	
Charpentier, Toussaint de.		Cistula entomologica.....	476
Horæ entomol.....	9	City of London entomological and natural	
Orthopt. descr. et depicta.....	276	history society. <i>See</i> London. City of	
Charrel, J.		London entomological and natural history	
Acétropie des vers à soie.....	132	society.....	481
Gattine des vers à soie.....	132	Clairville, J. de, tr. <i>See</i> Schellenberg, J. R.	
Traité des magnaneries.....	115	Helvetische entomologie.....	148
Chaumeton, F. P. Essai d'entomol. méd... 23		Claparède, Édouard. Stud. an acariden... 463	
Chavannes de la Giraudière. <i>See</i> France—		Clark, Bracy.	
Min. de l'agric. et du comm. Rapports.. 117		Appx. to Treatise on Oestri.....	271
Chavignerie, Bellier de la. <i>See</i> Bellier de		Essay on bots of horses.....	270
la Chavignerie.....	49	Of insect called oistros.....	271
Cheshire, F. R. Bees & bee-keeping..... 96		Clark, Hamlet. Cat. of Halticidæ..... 225	
Chevolat, Auguste.		Clarke, C. H.	
Coléopt. du Mexique.....	193	Descr. of houses made by caddis-fly	
<i>See also</i> Thomson, James. Voyage au		larvæ.....	457
Gabon.....	138	Galls found near Boston.....	29
Chicherin, T. S.		Clavareau, Henri. <i>See also</i> Wytzman, P.	
Note sur les Catadromus.....	204	Gen. insectorum.....	18
Note sur les Derus.....	204	Clemens, Brackenridge.	
Note sur les féroniens.....	204	Contrib. to Amer. lepidopterol..... 303	
		Tineina of N. A.....	359



Page.	Page.		
Clément, A. L. Apicult. moderne.....	96	Colvin, Richard. Ital. honey bee.....	96
Clerck, C. A. Svenska spindlar.....	468	Comisión del comercio de Buenos Aires para la investigación de la langosta. <i>See</i> Bruner, Lawrence.	
Clugnet, Léon. Géog. de la soie.....	115	First rept.....	289
Cobb, J. H. Information respecting growth of mulberry.....	107	Primer informe.....	290
Cobb, N. A. Insect-larva eating rust.....	249	Commission des monuments de l'Égypte. <i>See</i> Savigny, M. J. C. L. de. Hyméno- ptères.....	159
Cobelli, Ruggero. Teratol. del bombeece del gelso.....	115	Como, Italy. R. Istituto tecnico e la scuola di setificio. <i>Vi. R. Istituto</i> .....	115
— Altre contrib.....	115	Comstock, Mrs. Anna (Botsford). How to keep bees.....	96
Cockerell, T. D. A. Bees of gen. Colletes.....	178	Ways of the six-footed.....	20
Catal. de las abejas de Méx.....	177	joint author. <i>See</i> Comstock, J. H. How to know butterflies.....	317
Check-list of Coccidæ.....	416	Manual for study of insects.....	19
Contrib. to entomol. N. M.....	139	Comstock, F. G. Culture of silk.....	107
Devel. of Mantis.....	286	Comstock, J. H. Evol. & taxonomy.....	39
Econ. entomol. in Ariz.....	56	Guide to pract. work in elem. ent.....	39
Four new bees of gen. Perdita.....	178	How to know butterflies.....	317
Hymenopt. fam. Tenthredinidæ, Sirici- dæ, coll. in N. M.....	153	Insect anatomy.....	39
Hymenopt. of S. Calif.....	154	Insect life.....	19
New Hymenopt. in N. M.....	154	Intro. to ent.....	19
New insects from N. M.....	139	Manual for study of insects.....	19
New & little known N. A. bees.....	177	Rept. on misc. insects.....	56
New fossorial Hymenopt. from N. M.....	173	Rept. on scale insects.....	416
New Mex. bees of gen. Bombus.....	179	Rept. on insects injur. to sugar canè.....	82
New Mex. bees of gen. <i>Heriades</i> .....	180	Rept. upon cotton insects.....	82
New Mex. bees of gen. <i>Megachile</i> .....	179	<i>See also</i> U. S. Dept. of agriculture—Divi- sion of entomology. Repts.....	487
New scale-insect from Grenada.....	416	Conférence phylloxérique internationale, Berne, 1878. Actes.....	397
North-Amer. bees of gen. <i>Andrena</i> .....	179	Congrès interdépartemental, Bordeaux, 1875. Compte-rendu.....	397
Observ. on bees coll. at Las Vegas.....	177	Congrès international phylloxérique, Bor- deaux, 1881. Programme.....	397
Observ. on bees, with new gen. & spec. On certain gen. of bees.....	177 180	Congrès phylloxérique international, Lau- sanne, 1877. Actes.....	397
On insects in Chihuahua.....	139	<i>See also</i> Fatio, Victor. État de la ques- tion phyllox.....	400
Phasmidæ.....	285	Congrès séricicole international, Rovereto, 1872. Chauffage des magnaneries.....	115
San Jose scale & allies.....	416	Congrès séricicole international, 4th, Mont- pellier, 1874. Actes et mémoires.....	134
Sugar-cane borer.....	353	Congrès séricicole international, Milan, 1876. [Compte-rendu].....	115
Suppl. note to Johnson's Jamaican Dip- tera.....	245	Congresso fillosserico internazionale. To- rino, 1884. Atti.....	397
joint author. <i>See</i> Rehn, J. A. G. New gen. of <i>Stenopelmatinæ</i> .....	288	<i>See also</i> Huit jours à Turin.....	404
<i>See also</i> Biol. cent.-amer. Hemiptera- Homoptera.....	379	Congresso nazionale di bacologia. Atti.....	134
Cockerell, Mrs. Wilmatte (Porter), joint au- thor. <i>See</i> Cockerell, T. D. A. New Mex. bees of gen. <i>Bombus</i> ....	179	Conn, H. W. Coleopt. larvæ.....	182
Observ. on bees, with new gen. & spec.....	177	Connecticut—Entomologist. Report.....	477
On certain gen. of bees.....	180	Cook, A. C., joint author. <i>See</i> Cook, O. F. Monogr. of <i>Seytonotus</i> .....	446
Cohn, Ferdinand. <i>Empusa muscae</i> .....	273	Cook, A. J. Arsenical poisons.....	74
Coleman, N. Changes in larvæ of <i>Orygia leucostigma</i> . Larvæ of certain heteroc. Lepidopt.....	346 330	Bee-keepers' guide.....	96
Coleopterologische hefte.....	476	Black wheat stock <i>Isosoma</i> .....	166
Coleopterorum novitates.....	477	Exper. with insecticides.....	74
Collinge, W. E. Invest. on black-currant gall-mite.....	470	Grape phyllox.....	398
Collins, G. N., joint author. <i>See</i> Cook, O. F. Craspedosomatidæ of N. A.....	446	Grape-vine phyllox.....	398
Myriapoda coll. by U. S. eclipse exped.....	443	Hessian fly.....	249
Notes on N. A. Myriap. of fam. Geophilidæ.....	445		
Collinson, Peter. Observ. on cicada of N. A.	380		
Colorado biological association. Bulletin.	477		

Cook, A. J.—Continued.	Page.	Coquillett, D. W.—Continued.	Page.
Injur. insects of Mich . . . . .	56	System. arrangement of fam. of Diptera.	240
Insects injur. to grasses & clovers . . . . .	82	joint author. See Ashmead, W. H. In-	
Manual of the apiary . . . . .	96	sects, spiders & mites Commander Isl-	
Notes on noxious insects . . . . .	56	ands . . . . .	138
Cook, M. T. Galls & insects producing		See also Johnson, C. W. Diptera of Fla.	243
them . . . . .	29	Cordemoy, Hubert Jacob de. See Jacob de	
Cook, O. F.		Cordemoy, Hubert.	
African Diplop. of fam. Gomphodes-		Cornalia, Emilio.	
midæ . . . . .	446	Accouplement du bombyx du mûrier . .	115
African Diplop. of gen. Pachybolus . . . . .	447	Monogr. del bombyce del gelso . . . . .	116
Amer. oniscoid Diplop. of order Mero-		Cornu, Maxime.	
cheta . . . . .	446	Expér. faites à la Stat. vit. de Cognac . .	398
Arrangement of Geophilidæ . . . . .	445	Nouv. maladie de la vigne . . . . .	398
Chordeumidæ or Craspedosomatidæ? . . . . .	446	joint author. See Duclaux, P. E. Rap-	
Craspedosomatidæ of N. A . . . . .	446	port rel. au phylloxéra . . . . .	399
Diplopod. fam. Striariidæ . . . . .	446	See also Paris, Acad. des sci. Com'n du	
East African Diplop . . . . .	446	phyllox . . . . .	409
Enemy of cotton-boll weevil . . . . .	168	Cornwall county council. Wireworms . . .	213
Genera of Lysiopetalidæ . . . . .	446	Correspondenz-blatt des Entomologischen	
Monogr. of Scytonotus . . . . .	446	vereins "Iris" zu Dresden. See Deutsche	
Myriap. coll. by U. S. eclipse exped . . . . .	443	entomologische zeitschrift hrsg. von der	
New African Diplop. rel. to Polyxenus . . . . .	447	Gesellschaft Iris zu Dresden . . . . .	477
New char. in the Colobognatha . . . . .	445	Costa, Achille.	
Notes on Myriap. from Loanda, Africa.	443	Addit. ad cent. cimicum regni Neapol . .	371
Notes on N. A. Myriap. of the fam. Geo-		Degl' insetti che attacc. l'albero . . . . .	64
philidæ . . . . .	445	Prospetto sistem. degli imenott. ital. . . .	156
On certain Geophilidæ . . . . .	445	Coste, L.	
On Geophilus attenuatus . . . . .	445	Phyllox. au congrès de Montpellier . . . .	398
On generic name Strigamia . . . . .	445	Rapp. sur la maladie de la vigne . . . . .	398
Priodesmus, new gen. of Diplop. . . . .	446	Coste, U. Phytotomie pathol . . . . .	398
Rept. on habits of Kelep . . . . .	168	Cotes, E. C.	
Revis. of Strongylosomatidæ . . . . .	446	Cat. of moths of India . . . . .	330
Segmental sclerites of Spirobolus . . . . .	447	Locust of N. W. India . . . . .	290
Stemmatotulus as ordinal type . . . . .	447	Note on locusts in India . . . . .	290
Summ. of new Liberian Polydesmoidea . . . . .	446	Silk . . . . .	116
Two new diplop. Myriap . . . . .	446	Silkworms in India . . . . .	116
joint author. See Ashmead, W. H. In-		joint author. See Günther, A. Locusts.	291
sects, spiders & mites Commander		Couanon, Georges, joint author. See Gastine,	
Islands . . . . .	138	G. Traitement des vignes phyllox. . . . .	402
Cooke, Matthew.		Courchet, L. D. J. Galls prod. par les aphid.	387
Nat. hist. of codling moth . . . . .	356	Coutière, H.	
Treatise on insects injur. to fruits . . . . .	56	Sur un nouv. hémipt. halophile, Herma-	
Cooke, R. J. See Cooke, Matthew. Nat. hist.		tobatodes marcheï . . . . .	377
of codling moth . . . . .	356	Sur un nouvel hémipt. halophile . . . . .	377
Copenhagen. Entomologisk forening. See		Covelle, Ernest.	
Entomologiske meddelelser . . . . .	478	Phyllox. dans le canton de Genève . . . .	398
Coquillett, D. W.		joint author. See Monnier, Denis. Phyl-	
Canker-worms . . . . .	348	lox. dans le canton de Genève . . . . .	408
Descr. of Agromyza phaseoli . . . . .	266	Cowan, T. W. The honey bee . . . . .	180
Descr. new Diptera W. Australia . . . . .	245	Cragin, B. S. Insect friends & foes . . . . .	48
Diptera. (Harriman Alask. exped.) . . . . .	243	Cragin, F. W.	
Diptera. (Galapagos expedition) . . . . .	245	Contrib. to knowl. of Arach. of Kans. . . .	449
New Bombylidæ of group Paracosmus . . . . .	263	Contrib. to knowl. of Myriap. of Kans. . .	442
New coccids from Calif. . . . .	417	Cramer, Pieter. Urtlandsche kapellen . . . .	298
New Dipt. from N. A . . . . .	243	Craw, Alexander. See California—State	
New Dipt. from S. Africa . . . . .	245	board of horticulture. Rept. on import.	
New Dipt. in U. S. Nat. Mus. . . . .	239	of parasites . . . . .	79
New Raphioidas from Calif. . . . .	262	Crawford, F. S. Notes on veins of Diptera.	240
Rept. on cottony cushion-scale . . . . .	417	Cresson, E. T. Synop. Hymenoptera of	
Rept. on gas treatment for scale-insects.	417	Amer . . . . .	154
Rept. on locusts of San Joaquin Valley . . . . .	290	Crolas.	
Rept. on destroying scale-insects . . . . .	417	Phyllox. & sulf. de carbone . . . . .	398
Rept. on dipt. insects from Puerto Rico . . . . .	245	Manuel prat. des sulfurages . . . . .	398
Revis. of bombylid gen. Aphæbantus . . . . .	263	Crotch, G. R.	
Revis. of N. A. Empidie . . . . .	264	Check list of Coleopt. of Amer . . . . .	188
Revis. of Tachinidæ of Amer . . . . .	274	Materials for study of Phytoph. . . . .	225
		Revis. of coleopt. Coccinellidæ . . . . .	209

Page.		Page.
398	Crozler, F. P. Phyllox. et sulfure du carbone.....	
107	Crozler, L. S. Breeding & rearing of silk worm.....	
398	Cuboni, Giuseppe. Problema filloss. in Ital.	
231	Cuénot, Lucien. Insectes vésicants.....	
131	Cultivation of the mulberry & rearing the silkworm. See Wan Chú.....	
290	Cumming, C. F. G. Locusts & farmers of Amer.....	
34	Cunningham, D. D. Fertilization in Ficus.	
432	Currie, R. P. Odonata. (Harriman Alaska expd.).....	
	Curtice, Cooper.	
467	Cattle-tick.....	
271	Oxwarble of the U. S.....	
467	See also New South Wales—Dept. of Agriculture. Cattle tick.....	
	Curtis, John.	
144	British entomology.....	
64	Farm insects.....	
144	Guide to Brit. insects.....	
82	Nat. hist. of insects affecting carrots & parsnips.....	
82	Nat. hist. of insects affecting corn-crops.....	
83	Nat. hist. of insects affecting corn-crops, wireworms.....	
83	Nat. hist. of insects affecting peas & beans.....	
83	Nat. hist. of insects, snails, slugs, &c.....	
	Cutting, H. A.	
56	Address upon farm pests.....	
79	Par. insects of domestic animals.....	
96	Cutting, J. A. Care of bees.....	
477	Cyprus—Government. Rept. on locust campaign.....	
	Cyrillo, Dominico. See Cirillo, Domenico.	
97	D . . . Man. prat. sur la cult. des abeilles.	
100	Dadant, C. P., ed. See Langstroth, L. L. Langstroth on the hive.....	
100	Dadant, Charles, ed. See Langstroth, L. L. Langstroth on the hive.....	
	Daday, Jenő.	
5	A magyar állattani irodalom.....	
448	A magyarországi myriopodákák magánraja.....	
	Dahl, F. T.	
266	Puliciphora.....	
266	Puliciphora lucifera.....	
	Dahlbom, A. G.	
156	Dispos. method. scand. hymenopt.....	
156	Exercitationes hymenopterol.....	
157	Hymenopt. europæa.....	
	Dahlen, H. W.	
399	Phylloxerainfektionsheerden Neufchâtel.....	
399	Ueber das auftreten der Phyllox. in Bollweiler.....	
317	Dale, C. W. Hist. of Brit. butterflies.....	
273	Dall, W. H. Note on cluster flies.....	
	Dalla Torre, K. W. von.	
151	Cat. hymenopt.....	
298	Duftapparate der schmetterlinge.....	
151	Hermaphroditen hymenopt.....	
150	Hymenopterol. arbeiten.....	
	Dalla Torre, K. W. von—Continued.	
29	Zoocécidien und cecidozoen Tirols.....	
18	See also Wytzman, P. Gen. Insectorum.	
	Dallas, W. S.	
225	Col. potato beetle.....	
9	Elements of ent.....	
366	Hemipt. in Brit. mus.....	
	Dalman, J. W.	
9	Analecta entomol.....	
9	Ephemerides entomol.....	
166	Försök af Pteromalini.....	
	Dandolo, Vincenzo.	
116	L'art d'élever les vers à soie.....	
116	Art of rearing silk-worms.....	
	Danysz, Jean.	
353	Ephestia kuehniella.....	
35	Utilisation des muscardines.....	
116	Darbousse, Antoine. Sériciculture.....	
	Darboux, G. Cat. syst. des zoocécidies de l'Europe.....	
29	l'Europe.....	
116	Darcey, Félix. Magnanerie salubre.....	
114	Darcey, J. P. J. See Bourdon, Henri. Industrie des soies.....	
116	Darrah, H. Z. Eri silk of Assam.....	
	Darwin, C. R.	
31	Contrivances by which orchids are fertilised.....	
33	Insectivorous plants.....	
52	See also, for biographical sketch, Riley, C. V. Darwin's work in ent.....	
	Davenport, C. B. Collembola of Cold Spring Beach.....	
440	Spring Beach.....	
	David, George. Wurzellaus des weinstockes.....	
399	.....	
	Davidge, J. B. Caterpillar wh. infests Lombardy-poplar.....	
345	.....	
	Davidson, Anstruther. So-called spider-bites.....	
453	.....	
107	Davidson, M. M. Bombyx mori.....	
	Davis, B. M. Some common insects of S. Calif.....	
139	.....	
188	Davis, C. A. Instr. for collecting insects.....	
23	Davis, K. C., joint author. See Needham, J. G. Aquatic insects in N. Y. state.....	
347	Davis, N. F. Apple-tree tent-caterpillar.....	
	Davis, W. T.	
318	Butterflies of Staten Island.....	
380	17 year locust on Staten Island.....	
	Dawson, Charles. Hexag. struct. in cooling beeswax.....	
180	.....	
	Dawson, G. M.	
290	Appearance of locust in Manitoba.....	
290	Notes on locust in N. W. in 1876.....	
290	Notes on locust invasion of 1874.....	
	Dawson, J. W. Wheat midge from Nova Scotia.....	
249	.....	
	Debeauvoys, J. B. Guide de l'apiculteur.....	
97	.....	
	Deby, Julien. Descr. of Psamathomya pectinata.....	
258	.....	
	Decaux, François.	
233	Insecte nuisible aux pommiers.....	
64	Insectes nuisibles.....	
	Deés, Eugen von Daday de. See Daday, Jenő.	
	De Geer, Carl. See Geer, Carl de.	
	Deichmüller, J. V. Fossile insecte.....	
25	.....	

	Page.		Page.
Dejean, P. F. M. A.		Dieck, H., tr. See Dzierzon, Johann. Rational bee-keeping .....	97
Cat. des coléopt. de la coll. de Dejean.	182, 183	Diegner, A. Asperges menacées .....	268
Icon. et hist. nat. des coléopt. d'Europe.	193	Dietrich, Kaspar. Sys. verzeichn. der im Kanton Zürich aufgefunden. käfer .....	193
Spec. gén. des coléopt. de la coll. de Dejean .....	188	Dietz, Fr., joint author. See Preudhomme de Borre, Alfred. Matér. pour la faune ent. d'Anvers .....	199
De La Bigarre, Peter. Treatise on silk worms .....	107	Dillmann, C. Reblaus .....	399
De la Brousse. See La Brousse.		Dimmock, George.	
Delacour, Charles. Insectes qui attaquent les arbres fruitiers .....	83	Anat. of mouth-parts of some Dipt .....	240
Delprino, Michel.		Belostomidæ .....	377
Nouv. sériciculture .....	116	Cat. of Coleopt. & Lepidopt .....	183
Perte dans le produit de la soie .....	116	Coleoptera .....	183
Demole-Ador, joint author. See Fatio, Victor. Rapp. sur le traitement des vignes ..	400	Direct. for collection of Coleopt .....	48
Denny, Alfred, joint author. See Miall, L. C. Cockroach .....	284	Early stages of Carabidæ .....	204
Denny, Henry.		List of Coleopt. in collection .....	183
List of Brit. animals in Brit. mus. Anoplura .....	423	Writings of S. H. Scudder .....	5
Monogr. anoplorum Brit .....	423	ed. See	
Denterghem, Oswald Kerchove de, comte. See Kerchove de Denterghem, Oswald.		Henshaw, Samuel.	
Denton, S. F. Moths & butterflies of the U. S. ....	303	Ent. writings of G. H. Horn .....	6
Derbès, Alphonse.		Ent. writings of J. L. Le Conte .....	6
Note sur aphid. du pistachier .....	387	Distant, W. L.	
Observations sur aphid. qui font galles.	387	Insecta transvaaliensia .....	137
Troisième note sur les pucerons du térébinthe .....	388	Monogr. of oriental Cicadidæ .....	380
Deschamps, Bernard. Recherches microsc. Description de l'Égypte. See Savigny, M. J. C. L. de. Icon. des insectes de l'Égypte. Hyménoptères .....	159	On some S. A. Homopt .....	379
Deslongchamps, J. A. Eudes. See Eudes-Deslongchamps, J. A.		On some S. A. insects .....	137
Desneux, Jules. See Wytzman, P. Gen. insectorum .....	18	On 2 undescr. cicadas from Transvaal ..	380
Despeissis, A.		Rhynchotal notes .....	362
Codlin moth in Australia .....	356	Some insects from Transvaal .....	194
Phyllox. of vine .....	399	Some neotropical Homopt .....	379
Desvignes, Thomas. Cat. of Brit. Ichneumonidæ .....	164	Some undescr. Heteroc. from Transvaal .....	330
Desvoidy, A. J. B. Robineau. See Robineau-Desvoidy, A. J. B.		See also Biol. cent.-amer. Hemiptera-Heteroptera .....	368
Deutsche entomologische zeitschrift .....	477	— Hemiptera-Homoptera .....	379
— Lepidopt. hefte .....	477	Dixon, J. N. See Iowa state horticultural society. Entomol. papers .....	58
Dewar, W. R. Plant lice of Orange River Colony .....	388	Dobeneck, A. Raupen der tagfalter .....	314
Dewitz, Hermann.		Dobson, Thomas. On laap .....	385
Afrik. nachtschmetterlinge .....	330	Dodge, C. R. Life of Townend Glover .....	51
Afrik. tagschmetterlinge .....	318	Dohrn, Anton. Insecten in den primärformationen .....	25
Angelhaare der chrysopenlarven .....	486	Domestica, Acheta. See Budgen, L. M.	
Fortbeweg. der thiere an senkrechten glatten flächen .....	39, 40	Dominique, J.	
Jugendstadien exot. lepidopt .....	298	Cat. des hémipt. ....	366
Über rudiment. flügel bei den coleopt ..	183	Contrib. au cat. des hyménopt. fousseurs .....	157
Weitere mitth. über das klettern der insecten .....	40	Descr. d'un Harpactes nouv .....	174
Westafrikan. tagschmetterlinge .....	318	Donckier de Donceel, Henri. Liste des sargrides, cricoérides [etc] .....	183
Deyrolle, Achille. See Nouveau guide de l'amateur d'insectes .....	49	Dönitz, Wilhelm. Beitr. zur kenntn. der Anopheles .....	255
Dickerson, M. C. Moths and butterflies ..	299	Donnadien, A. L.	
Dickins, Thomas. Silk supply .....	116	Ponte du phyllox .....	399
Dickinson, T. A. Memorial of F. G. Sanborn .....	51	Points controversés de l'hist. du phyllox ..	399
		Véritables orig. de la quest. phyllox .....	399
		Donovan, Edward.	
		Nat. hist. of British insects .....	144
		Nat. hist. of insects of China .....	143
		Nat. hist. of insects of India .....	143
		Doolittle, G. M. Scientific queen-rearing ..	97
		Dorfmeister, G. Einfluss der temp. bei der erzeugung der schmetterl. variet .....	40
		Dorsett, P. H., joint author. See Woods, A. F. Use of hydrocyanic acid gas .....	78

	Page.		Page.
Doubleday, Edward. Gen. of diurnal Lepidopt.....	318	Druce, Herbert—Continued.	
Douglas, J. W.		Descr. of new spec. of Lepidopt., chiefly from C. A.....	307
British Hemipt.....	368	Descr. of new spec. of Lepidopt., chiefly from S. A.....	331
Cat. of British Hemipt.....	366	Descr. of new spec. of Lepidopt. from E. Afr. & tropical Amer.....	307
Mealy bug at Alexandria.....	417	Descr. of new spec. of Lepidopt. from S. A.....	307
joint author. See Stainton, H. T. Nat. hist. of Tineina.....	361	Descr. of new spec. of Lepidopt. Heteroc. from tropical S. A.....	331
Dours, Antoine. Hyménoptères de France.....	157	Descr. of new spec. of Syntomidæ.....	337
Downs, H. M. Ants & their surroundings..	168	List of coll. of diurnal Lepidopt. made in Angola.....	318
Dragon flies vs. mosquitoes.....	255	List of coll. of diurnal Lepidopt. made in Borneo.....	318
Dresden, Gesellschaft Iris zu. See also Deutsche entomologische zeitschrift.....	477	List of Lepidopt. Heteroc. coll. at Suva.....	331
Dreyfus, L. T.		List of Lepidopt. Heteroc. coll. at Aola.....	332
Neue beobacht. bei Chermes L. und Phyllox.....	388	List of lepidopt. insects coll. at Chentaboon & Nahconchaisee, Siam.....	307
Ueber phyllox.....	399	On coll. of Heteroc. from Dominica.....	332
Zu J. Krassiltschik's mitth. über die vergleich. anat. der phytophthires... Zu Prof. Blochmann's aufsatz über die regelmäss. wand. der blattläuse.....	379 388	Rev. of Paphia.....	324
Druce, H. H.		joint author. See Butler, A. G. List of butterflies of Costa Rica.....	317
Descr. of Lycænida from eastern archipelago.....	326	See also	
Descr. of new W. A. Lycænida.....	326	Biol. cent.-amer. Heterocera.....	329
Descr. of 3 new Lycænida from New Guinea.....	326	Godman, F. D.	
Descr. of 12 new Lycænida from W. Africa.....	326	Cat. of Lepidopt. coll. by S. N. Walter.....	308
Further contrib. to knowl. of Bornean Lycænida.....	326	On Lepidopt. coll. by W. A. Forbes.....	308
Lycænida of south Pacific Islands.....	326	Drury, Dru. Illus. of exotic ent.....	9
Monogr. of Bornean Lycænida.....	326	Dry fly entomology. See Halford, F. M....	53
Monogr. of Thysonotis.....	326	Dubini, Angelo. Append. all' opera, L' ape.....	97
On Lycænida of Solomon Islands.....	326	Dubreuilh, W. A. Parasites animaux.....	80
Druce, Herbert.		Du Buysson, Robert.	
Descr. of new spec. of Heteroc.....	330	Cat. des hyménopt. melliférides.....	180
Descr. of new gen. & spec. of Heteroc. from C. A.....	330	Cat. des insectes hyménopt. chrysidides.....	168
Descr. of new spec. of Castnia from tropical S. A.....	336	Cat. des orthopt. locustides.....	290
Descr. of new spec. of Chalcosiida.....	351	Hyménoptères réc. au Japon.....	157
Descr. of new spec. of Eratina from tropical S. A.....	349	Ducke, Adolf.	
Descr. of new spec. of L. Heteroc. chiefly from S. A.....	330	Espec. Paraenses do gen. Englossa.....	180
Descr. of new spec. of L. Heteroc. from C. & S. A.....	331	Stachellosen bienen.....	180
Descr. of new spec. of Zygaenida & Arctiida.....	331	Duclaux, P. É.	
Descr. of new gen. & spec. of Heteroc. from C. & tropical S. A.....	331	Nouv. maladie de la vigne.....	399
Descr. of new gen. & spec. of Heteroc. from tropical S. A.....	331	Rapp. sur les études rel. au phyllox....	399
Descr. of new spec. of Agaristida.....	338	Dudley, P. H.	
Descr. of new spec. of Heteroc. from tropical Africa.....	331	Note on Calotermes marginipennis....	427
Descr. of new spec. of Heteroc. from tropical Amer.....	331	Termites of isthmus of Panama.....	427
Descr. of new spec. of Heteroc. from tropical Amer., Africa & Eastern Islands.....	331	Termites, or so-called "white ants" of isthmus of Panama.....	427
Descr. of new spec. of Heteroc. from tropical S. A.....	331	Duff, A. H. See Hunter, S. J. Alfalfa, grasshoppers, bees.....	291
		Duffour, Edmond. See France—Dépt. de l'Hérault—Commission departementale pour l'étude de la maladie de la vigne. Rapport.....	401
		Dufour, Léon. Recherches sur les orthoptères.....	276
		Duftschild, Kaspar. Fauna Austriae.....	144
		Dugès, Alfred.	
		Descr. d'un nouv. acarien.....	465
		Métamorph. d'une Corydalid.....	435

	Page.		Page.
Dugès, Alfred—Continued.		Dyar, H. G.—Continued.	
Sur les acariens.....	463	Lepidopt. of Kootenai district.....	308
Note pour la classif. des meloides du Mex.....	231	Life hist. of N. A. moths.....	332
Nuevo ixodideo.....	467	List of N. A. Lepidopt.....	303
Du Halde, J. B. Soieries et vers à soie en Chine.....	117	joint author. <i>See</i> Smith, J. B. Contrib. toward monogr. of Noctuidæ. <i>Acro-nycta</i> .....	343-344
Dumas, J. Expér. de sériciculture.....	117	<i>See also</i> Ashmead, W. H. Insects, spiders, & mites, Commander Islands ...	138
Dumas, J. B. A.		Dziedzicki, H. A.	
Commun. rel. à la destr. du phyllox... 399		Josef Mik, zur antwort.....	259
Études sur le phyllox.....	400	Przyczynek do fauny owadów dwuskrzydłych.....	245
<i>See also</i>		Dzierzon, Johann.	
Aubergier, Hector. Sulfocarb. de potassium.....	394	Beste bienenzuchts-methode.....	97
Paris, Acad. des sci. Com'n du phyllox.....	409	Rational bee-keeping.....	97
Duméril, A. M. C.		Eastlake, F. W. Ent. hongkongensis.....	308
Consid. gén. sur la classe des insectes... 9		Eaton, A. E.	
Entomol. anal.....	10	Fam. des éphémérines.....	429
Expos. d'une méthode nat.....	10	Revis. monogr. of Ephemeridæ.....	429
Dunbar, Rev. William.		<i>See also</i>	
Entomol. Bees.....	180	Biol. cent.-amer. Neuroptera.....	425
Nat. hist. of bees.....	180	McLachlan, Robert.	
Duncan, James.		Cat. of Brit. Neuroptera.....	426
Entomol. Beetles.....	183	Eberhart, N. M. Elements of ent.....	48
Entomol. Brit. butterflies.....	318	École d'allanticulture annexée à la ferme impériale de Vincennes. <i>See</i> Revue de sériciculture comparée.....	136
Entomol. Brit. moths, sphinxes, etc... 332		Eddy, Henry. Bee-culture.....	97
Entomol. Exotic moths.....	332	Edwards, M. Silkworms.....	117
Entomol. Foreign butterflies.....	318	Edwards, Henri Milne. <i>See</i> Milne-Edwards, Henri.	
Entomol. Introd. to ent.....	10	Edwards, Henry.	
Introd. to entomol.....	10	Bibliog. cat. of transf. of N. A. Lepidopt.....	304
Nat. hist. of beetles.....	183	Darlingtonia Californica.....	33
Nat. hist. of Brit. butterflies.....	318	Habits of <i>Cryptophasa unipunctata</i> ...	359
Nat. hist. of Brit. moths.....	332	Notes on the transf. of Lepidopt.....	299
Nat. hist. of exotic moths.....	332	Pacific coast Lepidopt.....	304
Nat. hist. of foreign butterflies.....	319	<i>See also</i> Beutenmüller, William. Transf. of Australian Lepidopt.....	297
Duplat, P. Sériciculture.....	117	Edwards, James, joint author. <i>See</i> Elwes, H. J. Revis. of oriental Hesperidæ.....	328
Duponcean, P. S., joint author. <i>See</i> Homergue, John d'. Essays on American silk... 108		Edwards, W. H.	
Duponchel, Adolphe. Phylloxéra.....	400	Butterflies of N. A.....	319
Duponchel, P. A. J. Cat. méthod. des lépidopt. d'Europe.....	307	Cat. of Lepidopt. of Amer.....	304
Dupuy de Lome, Enrique. La seda.....	117	Descr. of spec. of diurnal Lepidopt.....	319
Durrant, J. H.		Descr. of new N. A. Lepidoptera.....	304
Ent. fauna of Hertfordshire.....	308	On the Lepidopt. coll. in Mont.....	304
List of Lepidopt. in Hitchin.....	308	Synopsis of N. A. butterflies.....	319
List of Walsingham's separata.....	5	Egger, Johann, joint author. <i>See</i> Schiner, J. R. Dipterologische fragmente.....	242
joint author. <i>See</i> Walsingham, T. D. Rules for regulating nomenclature... 22		Eichhoff, W. J.	
<i>See also</i> Swinhoe, Charles. Cat. of eastern & Australian Lepidopt. Heteroc... 335		Europ. borkenkäfer.....	237
Dury, Charles.		Ratio, descr., emend. tomicinorum ...	237
Cat. of Lepidoptera of Cincinnati.....	303	Synon. of N. A. scolytid beetles.....	237
Coleopterol. notes.....	188	Vertilgung schädlicher kerbthiere.....	74
Mordellidæ of Cincinnati.....	229	Eimer, G. H. T. Artbilden bei den schmetterlingen.....	319
Notes on Coleopt.....	188	Eisbein, C. J. Feinde des rübenbaues.....	83
Preparation of insect collections.....	48	Eiselt, J. N. Insectenkunde.....	10
Duseigneur-Kléber, Édouard. Cocoon de soie.....	117	Eisen, Gustav. Caprification.....	34
Dusmet y Alonso, J. M. Véspidos.....	175	Eliot, I. M. Caterpillars & their moths... 332	
Dusuzeau, Jules.		Elliot, S. L., joint author. <i>See</i> Edwards, Henry. Notes on the transf. of Lepidopt. Elwes, H. J.	299
Araignée fleuse de Madagascar.....	457	On butterflies.....	327
Écon. nouv. vers à soie.....	117		
Dwight, Nathaniel. Amer. Cantharis.....	231		
Dyar, H. G.			
Addit. notes on classif. of lepidopt. larvæ Descr. of larvæ of moths from Colo.... 314			
Descr. of larvæ of moths from Colo.... 315			

Elwes, H. J.—Continued.	Page.	Erichson, W. F.—Continued.	Page.
On new moths from India.....	332	Insecten-fauna von Vandiemensland..	143
Revis. of oriental Hespèriidæ.....	328	Naturgesch. der insecten Deutschlands.	194
Emerton, J. H.		joint author. See Brandt, J. F. Monogr.	
Common spiders of U. S.....	453	gen. meloës.....	231
New Eng. spiders of fam. Epeiridæ....	458	Erschoff, N. See Romanoff, N. M. Mém.	
New Eng. spiders of fam. Lycosidæ....	458	sur les lépidopt.....	301-302
Spiders from caves in Ky.....	453	Erslev, Hans. Ledetraad i biavl.....	97
Structure & habits of spiders.....	453	Escherich, Karl.	
Emery, Carlos. Hormigas de Costa Rica...	157	Anat. und biol. von Pausus turcicus...	206
Encyclopédie méthodique. Hist. nat.....	7	Biologie von Thoriclus.....	209
Enderlein, Günther. Respirationsorg. der		Eschscholtz, J. F. Entomographien.....	10
gastriden.....	271	Esenbeck, C. G. Nees von. See Nees von	
England, Royal agricultural society of. See		Esenbeck, C. G.	
Royal agricultural society of England.		Espinouse, A. Du phylloxéra.....	400
Enteman, W. M. Coloration in Polistes....	175	Espitalier, Silvain. Salut pour les vignes	
Entomologica americana.....	477	phylox.....	400
Entomological magazine.....	477	Etheridge, Robert. Mesozoic & tertiary in-	
Entomological news.....	477	sects of N. S. W.....	25
Entomological society of Canada. Consti-		Eudes-Deslongchamps, J. A. See Caen, So-	
tution.....	477	ciété royale d'agric. et de commerce de.	
Entomological society of London. See Lon-		Programme d'un prix.....	387
don, Entomological society of.....	481	Evans, William, joint author. See Carpen-	
Entomological society of New South Wales,		ter, G. H. Spring-tails new to Brit. fauna.	440
Sydney. Transactions.....	477	Everts, J. E. Coleopt. neerlandica.....	194
Entomological society of Ontario. See On-		Ewer, W. B. Calif. silk growers' manual..	107
tario, Entomological society of.....	483	Eymard, Paul. See France—Commission	
Entomological society of Philadelphia. See		des soies. Rapport.....	117
American entomological society, Phila-		Fabre, A. Comment guérir les vignes ma-	
delphia.....	474	lades.....	400
Entomological society of Washington. See		Fabre, J. H. C.	
Washington (D. C.), Entomological soci-		Insect life.....	47
ety of.....	488	Souvenirs entomologiques.....	47
Entomologie helvétique. See Schellenberg,		Fábrega, H. F. Pittier de. See Pittier de	
J. R.....	148	Fábrega, H. F.	
Entomologische blätter aus der Schweiz...	478	Fabricia entomologica. See Jekel, Henri..	12
Entomologische litteraturblätter.....	478	Fabricius, J. C.	
Entomologische monatsblätter.....	478	Entomologia systematica.....	10
Entomologische nachrichten.....	478	Gen. insectorum.....	11
Entomologische zeitung.....	478	Mantissa insectorum.....	11
Entomologischer verein in Berlin. See Ber-		Philosophia entomologica.....	11
liner entomologische zeitschrift.....	475	Species insectorum.....	11
See also Deutsche entomologische zeit-		Systema antliatorum.....	240
schrift.....	477	Systema eleutheratorum.....	183
Entomologischer verein "Iris" zu Dresden.		Systema entomologica.....	11
See Deutsche entomologische zeitschrift		Systema piezatorum.....	151
hrsg. von der Gesellschaft Iris zu Dresden.	477	Systema rhyngotorum.....	362
Entomologischer verein zu Stettin. See		Fähræus, O. I. Coleoptera Caffrariæ.....	194
Stettin, Entomologischer verein zu.....	486	Fairmaire, L. M. H.	
Entomologisk forening, Copenhagen. See		Coléoptères. (Cap Horn).....	194
Entomologiske meddelelser.....	478	Descr. des clérides.....	217
Entomologisk tidskrift.....	478	Diag. de coléopt. abyssins.....	194
Entomologiska föreningen i Stockholm.		Guide de l'amateur d'insectes.....	48
See Entomologisk tidskrift.....	478	See also	
Entomologiske meddelelser.....	478	Thomson, James. Voyage au Ga-	
Entomologist.....	478	bon.....	138
L'Entomologiste genevois.....	478	Nouveau guide de l'amateur d'in-	
Entomologist's annual.....	478	sectes.....	49
Entomologist's monthly magazine.....	478	Fall, H. C. Coleopt. of southern Cal.....	188
Entomologist's record.....	478	Fallén, K. F.	
Entomologist's weekly intelligencer.....	479	Agromyzides.....	266
Entomology in the National museum.....	53	Anthracides Sueciæ.....	263
Episodes of insect life. See Budgen, L. M..	20	Asilici Sueciæ.....	262
Erichson, W. F.		Dispos. dipt. synoptica.....	240
Coleoptera.....	183	Empidiæ Sueciæ.....	264
Entomographien.....	10	Hemiptera Sueciæ.....	371
Gen. et spec. staphylinorum.....	208	Heteromyzides Sueciæ.....	268

Fallén, K. F.—Continued.	Page.	Felt, E. P.—Continued.	Page.
Hydromyzides Sueciæ.....	269	Greater uniformity in nursery insp. laws.....	79
Monogr. cimicum Sueciæ.....	371	Insects affecting forest trees.....	89
Monogr. dolichopodum Sueciæ.....	264	Insects injur. to elm trees.....	89
Monogr. hæmatomyzidum Sueciæ.....	268	Insects injur. to forest trees.....	89
Monogr. muscidum Sueciæ.....	273	Monogr. of Saperda.....	223
Monogr. tenthredinidum Sueciæ.....	160	<i>See also</i>	
Opomyzides Sueciæ.....	269	New York (state)—Entomologist.	
Ortalides Sueciæ.....	268	Rept.....	483
Oscinides Sueciæ.....	266	New York state museum. Mos-	
Phytomyzides & Ochtidiæ Sueciæ.....	269	quitos of N. Y. state.....	257
Platypezinæ & bombylarii Sueciæ.....	266	Fernald, C. H.	
Rhizomyzides Sueciæ.....	269	Brown-tail moth.....	346
Scatomyzides.....	269	Butterflies of Maine.....	319
Scenopiniæ & Conopsariæ Sueciæ.....	265	Crambidiæ of N. A.....	353
Sciomyzides Sueciæ.....	268	Directions for coll. tortricids.....	48
Stratiomydæ Sueciæ.....	260	Orthopt. of N. E.....	279
Suppl. dipt. Sueciæ.....	245	Pterophoridaæ of N. A.....	355
Syrphici Sueciæ.....	265	Sphingidæ of N. E.....	336
Tabanii & Xylophagei Sueciæ.....	261	Spruce gall-louse.....	388
Family visitor & silk culturist.....	134	joint author. <i>See</i> Forbush, E. H. Gypsy	
Fatio, Victor.		moth.....	346
État de la question phyllox.....	400	<i>See also</i>	
Rapp. sur le traitement des vignes.....	400	Dyar, H. G. List of N. A. Lepidopt.....	303
Fatta, G., joint author. <i>See</i> Manca, G. II		Smith, J. B. List of Lepidopt. of	
decorso del digiuno.....	42	boreal Amer.....	305
Faucon, Louis.		Fernald, H. T.	
Note sur la possibilité d'appliquer la		Hessian fly in wheat.....	249
submersion.....	400	Relationships of arthropods.....	11
Notes sur la maladie phylloxéra Gravé-		Some common insect pests.....	56
son.....	400	Fernald, Mrs. M. E. (Smith). Cat. of Coc-	
— Suite.....	401	cidæ.....	417
Notes sur la maladie du phylloxéra.....	400	Fernández, Casildo Ascárate y. <i>See</i> Ascá-	
Phylloxéra.....	400	rate y Fernández, Casildo.	
Phylloxera vastatrix.....	400	Fernández-Castillo, Antonio Martínez y.	
Renseignements sur le phylloxéra.....	400	<i>See</i> Martínez y Fernández-Castillo, An-	
Submersion des vignes.....	400	tonio.	
Submersion des vignes atteintes du		Ferrari, J. A. Forst und baumzucht-schäd.	
phylloxéra.....	401	borkenkäfer.....	237
joint author. <i>See</i> Duclaux, P. E. Rapp.		Ferton, Charles.	
sur les études rel. au phylloxéra.....	399	Hyménopt. ravisseur de fourmis.....	174
Fauna insectorum fridrichsdalina. <i>See</i>		Instinct des hyménopt. gastrilé. la	
Mueller, O. F.....	147	Provence.....	179
Faune entomologique armoricaine. Colé-		Instinct des hyménopt. gastrilé. de	
optères.....	194	France.....	179
— Hémiptères.....	366	Instinct des pompilides.....	174
Faussek, V. A. Anat. and embryol. der		— Nouv. observ.....	174
phalangiden.....	461	Instinct de quelques Odynerus.....	176
Fea, Leonardo. <i>See</i>		Mœurs de quelques espèces alg. Osmia.....	179
Thorell, T. T. T.		Mœurs du Dolichurus hæmorrhous.....	174
Arach. artrogastri Birmani.....	450	Mœurs de quelques "Osmia" la Pro-	
Ragni Birmani.....	456	vence.....	179
Feburier. Traité sur les abeilles.....	97	Nouv. hyménopt. fouisseurs.....	173
Fedchenko, A. P. <i>See</i> Saussure, Henri de.		2. note mœurs de quelques Osmia la	
Orthoptères (Turkestan).....	283	Provence.....	179
Felder, Cajetan.		Fieber, F. X.	
Lepidoptera. (Novara-exped.).....	299	Cicadines d'Europe.....	379
Neues lepidopteron aus der fam. nym-		Entomol. monogr.....	363
phaliden.....	324	Europ. Hemipt.....	366
Rhopalocera. (Novara-exped.).....	319	Gen. Hydrocor.....	368
Felder, Rudolf, joint author. <i>See</i>		Kat. der europ. cicadinen.....	379
Felder, Cajetan.		Rhynchotographieen.....	363
Lepidoptera. (Novara-exped.).....	299	Species generis Corisa.....	378
Rhopalocera. (Novara-exped.).....	319	Field, A. M. React. of ants to vibrations.	168
Felt, E. P.		Figuer, Louis. Les insectes.....	20
Elm-leaf beetle in N. Y. state.....	225	Finland. Kejslerliga finska hushållnings-	
Grapevine root worm.....	225	sällskap. <i>See</i> Reuter, O. M. Ångmasken.....	71



Page.	Page.		
Finland—Landbruksstyrelse. <i>See</i> Reuter, Enzo. Berättelse.....	485	Forbes, S. A.	
Finot, Adrien. Faune de la France. Orthopt.....	281	Arsenical poisons for codling moth....	356
Finska (Kejserliga) hushållningssällskap. <i>See</i> Reuter, O. M. Ångsmasken.....	71	Bacteria normal to digestive organs....	363
Fischer, Ernst. Naphtalin in der heilkunde.....	401	Bibliog. of chinch bug.....	373
Fischer, J. E. Schmetterlingkunde.....	308	Entomol. writings of Le Baron.....	5
Fischer, L. H. Orthopt. europæa.....	281	Existing legislation.....	79
Fitch, Asa.		Food of birds.....	35
Brief acct. of injur. insects of U. S.....	56	Food relations of Carabidæ & Coccinellidæ.....	56
Hessian fly.....	249	Fruit bark beetle.....	237
Most pernicious spec. of U. S. insects....	56	Hessian fly.....	250
Report on insects of N. Y.....	479	Insects affecting strawberry.....	83
Fixsen, C. <i>See</i> Romanoff, N. M. Mém. sur les lépidopt.....	301-302	Life hist. of Hessian fly.....	250
Fixter, John. <i>See</i> Canada—Central experimental farm—Apiarist. Bee keeping....	95	Notes on insectiv. Coleopt.....	183
Flach, Karl.		Nursery inspection.....	56
Bestim.-tab. der europ. coleopt., XVII..	209	On bact. insect disease.....	374
— XVIII.....	208	On chinch bug in Ill.....	374
Fleischer, J. M.		Regul. action of birds upon insect oscillations.....	35
Taschenb. für raupen- und schmetterlingssammler.....	48	Rel. of birds to horticulture.....	35
Taschenb. für schmetterlingssammler.....	49	Root web-worm.....	353
Flémas, Barthélemy de la. <i>See</i> Laffemas, Barthélemy de.		Studies on contag. diseases of insects ..	93
Fletcher, James.		<i>See also</i>	
Clover-seed midge.....	249	Illinois—State entomologist.	
Farm pests of insect life.....	64	Misc. essays on econ. ent.....	58
Injur. insects.....	65	Report.....	480
Injur. insects of Canada.....	65	Forbush, E. H. Gypsy-moth.....	346
Trip to Nepigon.....	319	Forel, A. H.	
Fléutiaux, Édouard.		Ants and some other insects.....	47
Cat. des Eucnemidæ.....	214	Formicides.....	168
Cicindelidæ, Elateridæ, & Eucnemidæ Japon.....	194	Fourmis de la Suisse.....	168
Cicindel. rec. à la Baie d'Antongil.....	203	Sensations des insectes.....	47
Elateridæ nouv. de Madagascar.....	213	<i>See also</i>	
Eucnemidæ rec. à la Baie d'Antongil.....	214	Sharp, David. Fauna hawaiiensis.	149
Quelques élatérides de Madagascar.....	213	Biol. cent.-amer. Hymenoptera.....	155
Floyd, Thomas, tr. <i>See</i> Swammerdam, Jan. Book of nature.....	16	Förster, Arnold.	
Flor, Gustav. Rhynchoten Livlands.....	366	Beitr. zur monogr. der pteromalinen ..	166
Florence. Reale stazione di entomologia agraria di Firenze.		Centurie neuer hymenopt.....	151
Nuove relazioni.....	479	Fam. der mymariden.....	167
Relazione.....	479	Gattungen & arten der psylloden.....	385
Relaz. sulla piralide della vite.....	356	Gattungen & arten der plectiscoiden ..	164
Sulle bissole o ferretti.....	213	Hymenopterol. studien.....	151
<i>See also</i>		Klebiae monogr. par. hymenopt.....	151
"Redia".....	485	Lousberg bei Aachen.....	145
Targioni Tozzetti, Adolfo.		Monogr. Campoplex.....	164
Consid. sull' annata entomol....	72	Monogr. Pezomachus.....	164
Cronaca entomol.....	72	Neue blattwespen.....	160
Fillossera.....	414	Synop. der braconen.....	165
Fluted scale-insect.....	417	Ueber die gallwespen.....	163
Fockeu, Henri. Rech. anat. sur les galles.	30	Foudras, A. C. M. E. <i>See also</i> Mulsant, M. E. Coléopt. de France. Altisides.....	197
Foetterle, José G. Lepidopt. do Brazil.....	308	Fourcroy, A. F. de. Entomol. Parisiensis..	145
Folsom, J. W.		Fowler, F. H. Insecticides.....	75
Mouth-parts of Anurida Guer.....	441	Fowler, W. W. Biol. cent.-amer. Hemiptera-Homoptera.....	379
Mouth-parts of collembolan, Orchesella cincta L.....	441	Fox, W. J.	
Fontanelles, F. P., tr. <i>See</i> Dandolo, Vincenzo. L'art d'élever les vers à soie.....	116	Rept. on Mex. Hymenopt.....	157
		Rept. on Hymenopt. coll. in W. Greenland.....	157
		2d rept. on Hymenopt. from Lower Calif.....	157
		joint author. <i>See</i> Cockerell, T. D. A. New foss. Hymenopt. from N. M.....	173
		France—Commission des monuments de l'Égypte. <i>See</i> Savigny, M. J. C. L. de. Hyménoptères.....	159

	Page		Page
France—Commission des soies. Rapport ..	117	Frauenfeld, Georg.	
France—Département de l'Hérault—Com- mission départementale pour l'étude de la maladie de la vigne.		Ber. von landw. insekten-schäden .....	65
Expér. faites dans la vigne .....	401	Einige pflanzenverwüster .....	65
Phylloxéra .....	401	Gallen .....	30
Le phylloxéra .....	401	Phyllox., vastatrix .....	402
Rapport .....	401	Rapsglanzkäfer in Böhm. und Mähren ..	211
Rapport sur les procédés .....	401	Raymondia & Brachytarsina .....	275
Résultats des divers procédés .....	401	Schmetterlings-selbstfänger .....	49
France—Département de la Dordogne—Com- mission centrale du phylloxéra. Rap- port .....	402	Vertilgung des rapskäfers .....	211
France—Département de la Gironde—Com- mission départementale pour l'étude du phylloxéra. Enquête .....	402	Vorläuf. mitth. psyllen .....	385
France—Département de la Seine-Inférie- re—Laboratoire régional d'entomologie agricole, Rouen. Tarif et règlement ....	79	Weitere mitth. baumwollschädling Egyptens .....	83
France, Laboratoire central desériculture des sociétés agricoles de. See Revue de sériciculture comparée .....	136	Weitere mitth. rapswespe .....	160
France—Ministère de l'agriculture—Direc- tion de l'agriculture. Service du phyllox.	479	Zerstörer der baumwoll-kapseln .....	83
France—Ministère de l'agriculture et du commerce.		Le frelon .....	479
Rapports. Sériciculture .....	117	French, Charles.	
See also Brunet de la Grange. Rapport.	114	Apple-root borer .....	233
France—Ministère de l'agriculture et du commerce—Commission supérieure du phylloxéra. Phylloxéra .....	402	Econ. entomol. & ornithol .....	35
France—Mission scientifique au Mexique et dans l'Amérique Centrale. See Saus- sure, Henri de. Études sur les myriap- odes .....	283	Handbk. of destr. insects of Victoria ..	65
France—Mission scientifique du Cap Horn. See		Horse bot-fly .....	271
Bigot, J. M. F. Diptères .....	244	Necessity for preservation of birds .....	35
Fairmaire, L. M. H. Coléoptères .....	194	French, G. H.	
Mabile, Jules. Névroptères .....	426	Analyt. tab. of butterflies of Ill .....	319
Mabile, Paul. Lépidoptères .....	310	Analyt. tab. of moths of Ill .....	332
Signoret, Victor. Hémiptères .....	368	Descr. of 2 new deltoïd moths .....	339
France, Société entomologique de. See Soci- été entomologique de France .....	486	Synop. of Catocalæ of Ill .....	339
France, Société séricicole pour la propaga- tion et l'amélioration de l'industrie de la soie en. See Société séricicole pour la propagation et l'amélioration de l'indus- trie de la soie en France .....	136	Synop. of Noctuidæ of Ill .....	339
Franceschini, Felice.		Frey, Heinrich.	
Alcune osservazioni sulla filloss .....	402	Lepidopt. der Schweiz .....	308
Guida pratica bachi da seta .....	117	joint author. See Stainton, H. T. Nat. hist. of Tineina .....	361
Influenza del terreno filloss .....	402	Friedländer, R., & sohn, pub. See Entomo- logische litteraturblätten .....	478
Insetti nocivi .....	65	Friese, Heinrich.	
Insetti utili .....	65	Bienen Europa's .....	181
Malattie dei bachi da seta .....	132	Solitären blumenwespen. (Apidæ) .....	181
Notiz. sulla filloss .....	402	joint auth. See Dalla Torre, K. W. von. Hermaphr. & gynandromorphen hy- menopt .....	151
Studi sulla filloss .....	402	Frisch, J. L. Beschr. von allerley insecten in Teutschl .....	145
Sulla conserv. del seme .....	117	Froggatt, W. W.	
Francis, M. See New South Wales—Dept. of agriculture. Cattle tick .....	467	Austral. case moths .....	350
Frank, A. B.		Austral. ladybird beetles .....	209
Schildlausbuch .....	417	Austral. Psyllidæ .....	385
Kuper-vitriol-kalk-brühe .....	75	Austral. Termitidæ .....	427
See also Schøyen, W. M. Bemerkun- gen zu Frank's Tierparas. krankh. der pflanzen .....	71	Beetle destr. boots & shoes .....	217
		Bot-fly (Gasterophilus equi) .....	271
		Bugong moth .....	339
		Cat. of descr. Hymenopt of Australia ..	157
		Caterpillar plague .....	339
		Caterpillar plagues .....	315
		Cicadas & their habits .....	380
		Coccids .....	417
		Cockchafer grubs .....	220
		Codling moth .....	356
		Coll. & pres. of insects .....	49
		Descr. of Heteropus .....	463
		Descr. of Tenthredinidæ .....	160
		Domestic insects. Fleas .....	275
		Econ. entomol. .....	65
		Entomol. notes .....	65
		Entomol. of grass-trees .....	89
		Forest moths .....	66
		Fowl tick .....	467
		Fruit-maggot fly .....	268

	Page.		Page.
Froggatt, W. W.—Continued.		Gaffron, Eduard. Anat. & histol. von pe-	
Fruit-tree & vine pests.....	83	ripatus .....	448
Further notes on San Jose scale.....	417	Gahan, C. J.	
Gall-making buprestids .....	214	Longicorn Coleopt. from Hainan.....	194
Growth of vegetable galls .....	30	New genus & species of longicorn	
Hessian fly.....	250	Coleopt. from central Formosa.....	223
Indian wax scale .....	417	Galfard, Marius. Ver à soie du mûrier....	117
Insects & birds.....	35	Ganglbauer, Ludwig.	
Insects attacking dried fruit .....	66	Bestimmungs-tabellen der europ. cole-	
Insects living in figs.....	34	opt. IVA.....	229
Insects of wattle trees .....	89	— VII .....	223
Leaf-mining caterpillar .....	315	— VIII.....	223
Limitations of parasites in destr. of scale		Käfer von Mitteleuropa .....	195
insects.....	417	Garman, Harrison.	
Nat. enemy of sugar cane beetle .....	173	Amer. frit-fly.....	266
Notes on coll. of Hymenopt. from Nar-		Asymmetry of mouth-parts of Thysan-	
abri.....	157	opt .....	423
Notes on Austral. Cynipidæ.....	163	Entomol. in southern states .....	53
Notes on Austral. Hemipt.....	366	Mouth-parts of Thysanopt.....	423
Notes on Austral. Neuroptera .....	426	Orthopt. of Kentucky .....	279
Notes on cicadas .....	380	Time of emergence, Hessian fly.....	250
Notes on saw flies .....	160	Undescribed larva from Mammoth	
On bag-shelters of Teara .....	346	Cave.....	23
On life-histories, Coleopt.....	194	See also Illinois—State entomologist.	
Plague locusts.....	291	Misc. essays on econ. entomol.....	58
Potato moth.....	359	Gastine, G.	
Reappearance of elephant beetle .....	220	Ravages de la pyrale .....	75
Rept. upon insect pests .....	66	Traitement des vignes phyllox.....	402
San Jose scale.....	417	Gastine, L. See Gastine, G. Traitement	
Scale insects that produce lac.....	417	des vignes phyllox.....	402
Some garden pests .....	66	Gaubert, joint author. See Brongniart,	
Some wood-boring beetles .....	184	C. J. E. Organe pectiniforme des scor-	
Spider or lice flies .....	275	pions .....	460
Whiteants.....	427	Gaumer, G. F. Rocky Mt. locusts in Kan-	
Wood moths.....	332	sas.....	291
Woolly aphid.....	388	Gazagnaire, Joseph.	
joint author. See Allen, W. J. Insect		Caractères zool. fournis par la lèvre	
and fungus diseases .....	81	supér. chez les syrphides .....	265
Fuller, A. S.		Glandes chez les insectes.....	40
Collecting insects.....	49	Organes de la gustation chez les coléopt.	
Fuller, Claude.		Phosphorescence chez les myriop.....	441
Bovine tick fever .....	467	Phosphorescence chez les myriop. de la	
Entomol. note.....	418	fam. des Geophilidæ .....	445
Entomol. notes .....	66	Geer, Carl de.	
Forest insects .....	418	Gen. et spec. insect.....	11
Gall-making diaspid .....	418	Mém. pour servir à l'hist. des insectes..	11
Insect friends & foes .....	66	Gemminger, Max. Cat. coleopt .....	184
Insect pests.....	66	Geneva (canton)—Commissaire cantonal.	
New poultry pest.....	259	Le phylloxéra .....	402
Notes on insect friends & foes .....	66	Geneva. Musée d'histoire naturelle. See	
Notes on Queensland cattle tick .....	467	Pictet, Alphonse. Locustides du Musée	
Plant galls.....	30	de Genève.....	294
Serious fruit pest .....	83	Gennadius, P. G.	
Ticks .....	467	Instructions to silk-worm rearers .....	118
See also		Περὶ τῆς ἐν Ἀνδρω νόσου τῶν λεμονεῶν..	418
New South Wales—Dept. of agricul-		Περὶ τῆς ἐν Γαλλίᾳ πορείας τῆς φυλλοξή-	
ture.		ρας.....	402
Cattle tick.....	467	Φυλλοξήτρα ἢ φθοροποιός .....	403
Insect pest chart .....	70	Gentry, T. G. Larvæ of Acronycta .....	339
Fürstenberg, M. H. Die krätzmilben.....	463	Geoffroy, E. L.	
Fyles, T. W. Insects that frequent orchard		Hist. abrégée des insectes .....	11
and garden .....	66	Hist. abrégée des insectes de Paris .....	145
Gadeau de Kerville, Henri. Insectes phos-		Geoghegan, J. Silk in India.....	118
phorescents .....	58	Georgevitch, Jivoca. Segmentaldrüsen	
Gaede, H. M.		von Cypus.....	208
Anat. der insecten .....	40	Georgia—State board of entomology. Bul-	
Gallgefäße der insecten.....	30	letin.....	479

	Page		Page
Gerlach, A. C. Krätze & räude .....	470	Giglioli, E. H. Parasitical insects from China .....	80
Germain, Philibert. Insectos de Chile.....	204	Giles, G. M. J. Cold weather mosquito notes.....	256
Germar, E. F. Insectorum spec. nov.....	184	Handbk. of the gnats or mosquitoes....	256
Die versteinigerten insecten Solenhofes..	25	Notes on mosquitoes received from abroad.....	256
ed. See Magazin der ent.....	481	Notes on mosquitoes, &c., received from the Philippine Is.....	256
Gerstaecker, C. E. A. Der Colorado-käfer .....	225	Gillanders, A. T. Arboreal Aphidæ.....	388
Entomographien .....	210	Gillette, C. P. Descrip. of new Cynipidæ.....	163
Rhipiphoridum Coleopt. fam. dispositio systemat.....	230	Grape-vine typhlocybidæ.....	384
Wanderheuschrecke .....	291	Gimmerthal, B. A. Acarier & dipterenlar- ven .....	66
Gervais, Paul, joint author. See Walcke- naer, C. A. Hist. nat. des insectes. Aptères.....	17	Giornale della industria serica.....	135
Gesellschaft für physiokratie in Böhmen. See Nickerl, Ottokar. Kleinschmetter- linge Böhmens .....	334	Girard, Maurice. Abeilles .....	97
Gesellschaft Iris zu Dresden. See Deutsche entomologische zeitschrift hrg. von der Gesellschaft Iris zu Dresden.....	477	Auxiliaires du ver à sofe .....	118
Gesner, Conrad, joint author. See Wotton, Eduard. Insectorum sive minimorum animalium theatrum .....	18	Carpocapses des fruits à pepins.....	356
Geyer, Carl. See Hübner, Jacob. Samml. exot. schmetterlinge .....	300	Chaleur libre dégagée par les animaux invertébrés .....	40
Giard, Alfred. Altise nuisible aux semis de betteraves..	226	Coccien qui attaquent les plantes .....	418
Champignon parasite des criquets .....	36	Insectes carnassiers utiles .....	66
Cladosporiées entomophytes.....	36	Renseignements prat. et entomol. sur l'eumolpe .....	226
Cochenille souterraine des vignes.....	418	Végétaux importés et insectes indigènes et réciproquement.....	66
Criquet-pélerin .....	291	Vignobles des Charentes .....	403
De insectorum morbis.....	36	See also Paris, Acad. des sci. Com'n du phylox.....	409
Deux cochenilles nouv.....	418	Giraud, J. E. Espèces nouv. de cynipides et de leurs galles .....	163
Deux espèces d'entomophthora nouv ..	36	Giraudière, Chavannes de la. See Cha- vannes de la Giraudière.	
Deux types d'entomophthorées .....	36	Givelet, Henri. Ailante et son bombyx ...	118
Diptère stratyomide .....	47	Gleanings in bee culture .....	104
Distrib. géog des cochenilles .....	418	Glock, J. P. Symbolik der bienen.....	98
Éthologie des larves de Sciara medul- laris .....	254	Glover, Townend. Entomol. exhib. in Paris.....	53
Évol. d'Acherontia atropos.....	336	Food & habits of beetles.....	184
Exemp. chilien de Pterodela pedicu- laria .....	429	Hang-worm .....	351
Galle prod. chez Typhlocyba rosæ.....	30	Heteroptera .....	369
Hémipt. hétéropt. (Halticus minutus)..	375	Homoptera .....	379
Isaria densa .....	36	Hymenoptera .....	151
Isariées entomophytes.....	36	Insects frequenting the cotton-plant...	83
Une laboulbéniciée (Thaxteria Künc- keli).....	36	Insects frequenting the orange trees...	83
Mouche de l'asperge.....	268	Insects injur. & beneficial to vegetation.	56
Note sur Margarodes .....	418	Insects injur. & beneficial to the orange- tree.....	418
Nouv. études sur Lachnidium acridio- rum .....	36	Insects injur. to the cotton plant.....	84
Nouv. remarques sur Silpha opaca .....	207	Investigations on the insects affecting the cotton plant.....	84
Ponte des libellules du genre Lestes....	432	Ms. notes from my jour. Cotton .....	84
Ptérophore de la gentiane.....	353	Ms. notes from my jour., or Entomol. in- dex.....	5
Régénération hypotypiques .....	40	Ms. notes from my jour., or Illus. of in- sects. Diptera .....	240
Retard dans l'évol. détermin. par anhy- drobiose.....	166	Ms. notes from my jour., or Illus. of in- sects. Hemiptera .....	369
Spermatogenèse des diptères du genre Sciara .....	254	Petition .....	53
Sur l'Isaria Barberi.....	36	Vindication of the Entom. & Museum divisions .....	53
Sur l'Isaria densa.....	36	See also U. S.—Dept. of agric.—Div. of entomol. Repts.....	487
Transform. de Margarodes vitium .....	418	Also for biographical notice Dodge, C. R. Life & entomol. work .....	51
Gibson, W. H. Fatherless & motherless race.	351		
Giebel, C. G. A. Insecta epizoa .....	80		
Giglio-Tos, Ermanno. Ditteri del Messico.	245		

	Page.		Page.
Gmelin, Albert. Die biene .....	98	Grange, Brunet de la. <i>See</i> Brunet de la	
Gobin, Alphonse. Sériciculture prat .....	118	Grange.	
Godart, J. B. <i>See</i> Encyclopédie méthodique.	7	Grassi, Battista.	
Goding, F. W.		Anatomia della Scolopendrella .....	439
Bibl. of the described Membracidae .....	383	Sviluppo degli Yapyx .....	439
Monogr. of Australian Membracidae .....	383	Grävenhorst, J. L. C.	
Pen sketch of Dr. S. S. Rathvon .....	51	Barbitistes ocskayi Charpentier .....	288
Prelim. study of Membracidae .....	383	Hellwigia .....	164
Rept. on insects in Iowa .....	56	Ichneumonologia europæa .....	164
Synopsis of N. A. Cercopidae .....	383	Monogr. ichneumonum pedestrium .....	164
Godman, F. D.		Praktische imker .....	98
Lepidopt. coll. on lower Niger .....	308	Verwandlung der schildkäfer .....	228
Lepidopt. in the island of Billiton .....	308	ed. <i>See</i> Beitr. zur entomol. ....	475
New spcies of Napeogenes .....	324	Graves, Daniel. Sericulture .....	107
ed. <i>See</i>		Gray, C. W., joint author. <i>See</i> Whitehead,	
Biolog. cent.-amer. Acaridea .....	462	Charles. Rept. of comrs. on Hessian fly.	254
— Araneidea .....	451	Gray, G. R.	
— Chilop. & Diplop .....	443	Cat. of lepidopt. insects in Brit. mus. ...	327
— Coleoptera .....	192-193	Entomol. of Australia .....	285
— Diptera .....	245	List of specimens of lepidopt. insects in	
— Hemipt.-Heteropt .....	368	Brit. mus. ....	327
— Hemipt.-Homopt .....	379	Synopsis of the Phasmidae .....	285
— Heterocera .....	329	Great Britain—Agricultural adviser to the	
— Hymenoptera .....	155	Lords of the committee of council for	
— Neuroptera .....	425	agriculture. <i>See</i>	
— Orthoptera .....	280	Whitehead, Charles.	
— Scorpiones .....	460	1st ann. rept. ....	73
<i>See also</i> as author Biol. cent.-amer.		2d ann. rept. ....	73
Rhopalocera .....	316	Great Britain—Agricultural department.	
Goeldi, E. A.		<i>See</i> Great Britain—Privy council office—	
Aphorismen .....	379	Agricultural office.	
Chrysalide de <i>Enoplocerus armillatus</i> ..	223	Great Britain—Board of agriculture.	
Epeiroides bahiensis Keyserling .....	458	Apple blossom .....	233
Estudos arachnol. rel. ao Brasil .....	450	Apple sucker .....	385
Grandiosas migrações de borboletas .....	299	Asparagus beetle .....	226
Os mosquitos no Pará .....	256	Black currant mite .....	471
Studien über die Blutlaus .....	388	Carrot fly .....	267
Goode, G. B. Memorial appreciation of		Caterpillars on fruit trees .....	84
C. V. Riley .....	51	Caterpillars on fruit trees. Winter moth.	349
Gordon, W. J. Our country's butterflies ...	308	Celery fly .....	268
Gorham, H. S.		Cockchafer .....	220
New gen. & spec. of Coleopt .....	195	Codlin moth .....	356
<i>See also</i> Biol. cent.-amer. Coleopt. ...	192-193	Colorado beetle .....	226
Göritz, Austria—I. R. Istituto sperimentale		Currant aphides .....	388
di bachicoltura ed enologia.		Daddy longlegs .....	259
Annuario .....	135	Diamond-back moth .....	359
La biblioteca .....	106	External parasites of poultry .....	80
L'I. R. Istituto sper. di bachicolt. ....	118	Foul brood or bee pest .....	98
Tariffa degli esami microscop .....	118	Fruit tree beetle .....	237
Gory, H. L. Monogr. des cétoines .....	222	Gooseberry saw-fly .....	160
Gossard, H. A.		Insects on fruit trees .....	84
Econ. entomol. in Fla. ....	56	Magpie moth .....	349
Fla. observations .....	57	Mangel wurzel fly .....	269
Gosse, P. H.		Mites on currant & nut trees .....	463
Clasping organs in Lepidopt .....	299	Moths on fruit trees. Winter moth. ....	333
Prehensores of male butterflies .....	319	Onion fly .....	270
Goethe, Rudolph. Blutlaus .....	388	Pea & bean weevil .....	233
Gould, William. Acc't of English ants .....	169	Pea thrips .....	423
Goureau, Charles. Insectes nuisibles à		Pear & cherry sawfly .....	160
l'homme .....	66	Pear midge .....	250
Graber, Vitus. Die insecten .....	40	Pine beetle .....	237
Graeff, H. A. Measure worm .....	349	Pith moth .....	359
Graellys y de la Agüera, Mariano de la Paz.		Raspberry moth .....	359, 360
Prontuario floxérico .....	403	Red spider .....	465
Graftiau, Jean. Fabrication de l'hydro-		Ribbon-footed corn fly .....	266
mel .....	98	Small ermine moths .....	360

Great Britain—Board of agriculture—Con.	Page.	Grote, A. R.—Continued.	Page.
Surface caterpillars .....	339	Introd. to a study of North Amer. Noctuidæ.....	340
Tent caterpillars .....	347	Lepidopt. contributions .....	299
Turnip diamond-back moth .....	360	List of Noctuidæ of N. A. ....	340
Turnip "fly" or "flea" .....	226	List of N. A. Platypyterices.....	333
Vine & raspberry weevils .....	233	New check list of N. A. moths.....	333
Warble fly .....	271	New check list of N. A. Sphingidæ....	336
Wireworms .....	213	New moths .....	333
Wood leopard moth .....	352	North Amer. moths .....	333
Woolly aphis .....	388	Notes on noctuid moths.....	340
<i>See also</i>		Notes on Amer. Lepidopt.....	304
Whitehead, Charles.		Notes on Lepidopt. of Amer.....	304
Rept. on insects & fungi, 1892 ..	74	On allied species of Noctuidæ.....	340
3d ann. rept. on insects & fungi.	74	On certain spec. of Catocala .....	340
Great Britain—Board of agriculture—Intelligence division. <i>See</i> Whitehead, Charles.		On Lithophane & new Noctuidæ.....	340
Spec. rept. on diamond-back moth .....	362	On the cotton worm .....	340
Great Britain—Board of agriculture and fisheries. Millipedes & centipedes.....	441	On the origin of insects .....	299
Great Britain—Department of agriculture.		Prelim. studies on N. A. Pyralidæ. I. .	353
Hessian fly .....	250	Prelim. list of N. A. spec. of Agrotis....	340
Great Britain—Government. Cyprus. Locust campaigns .....	291	ed. <i>See</i> North Amer. entomologist....	483
Great Britain—Hessian fly commissioners. <i>See</i> Whitehead, Charles. Rept.	254	Groum-Grshimaïlo, Gregor. <i>See</i> Romanoff, N. M. Mém. sur les lépidoptères.....	301-302
Great Britain—Privy council office—Agricultural department. <i>See</i>		Grouvelle, Antoine. Coléoptères recueillis dans le Japon .....	195
Whitehead, Charles.		Grshimaïlo, Gregor Groum-. <i>See</i> Groum-Grshimaïlo, Gregor.	
Rept. on Hessian fly.....	254	Gruber, August. Nordamer. papilion- & nymph. raupen.....	315
Repts. on insects injur. to hop plants.....	74	Grumm-Grshimaïlo, Gregor. <i>See</i> Groum-Grshimaïlo, Gregor.	
Repts. on insects injurious to root & other crops .....	74	Guénaux, Georges. Entomol. et parasitol. agricoles.....	67
Greece—Hypergeion esoterikôn. <i>See</i> Genadiou, P. G. Περὶ τῆς ἐν Ἀνδρῶν νόσου τῶν λεμονῶν .....	418	Guenée, Achille.	
Green, E. E.		Europ. microlepidopt. index.....	333
Coccidæ of Ceylon.....	418	Joint author. <i>See</i>	
Green scale bug .....	419	Boisduval, J. A.	
Insects injurious to stored paddy.....	84	Hist. nat. des insectes. Lépidopt. — hétérocères .....	298 329
Instructions for collecting.....	418	Guercio, Giacomo del.	
"Lantana bug" .....	418	Alcune osserv. sulla infezione.....	204
Visitation of spotted locusts.....	291	Animali ed insetti del tabacco .....	84
Green, S., ed. <i>See</i> Nietner, John. Coffee tree & its enemies .....	86	Modo di combattere la Grylotalpa vulg. Osserv. sulla infezione fillosserica .....	287 403
Greene, C. A.		Guérin, J. <i>See</i> Faune entomol. armoricaine. Hémipt.....	366
Insects injurious to vegetation .....	57	Guérin-Ménéville, F. E.	
Grevillius, A. Y. Biol. des goldafters.....	346	Anal. expériences sur la muscardine... Association séricicole.....	132 118
Griffini, Achille. Libro dei coleotteri.....	184	Crustacés, arachnides et insectes.....	11
Griffiths, A. B. Diseases of crops.....	66	Entomol. appliquée à l'agric .....	67
Grimshaw, P. H.		Essai sur les lépidopt. du genre Bombyx .....	118
Diptera scotica .....	245	Genera des insectes.....	11
New & rare Scottish Dipt.....	246	Iconogr. du règne animal de Cuvier ...	12
Occurrence in Ross-shire of Cephomyia .....	246	Industrie séricicole.....	119
<i>See also</i> Sharp, David. Fauna hawaiiensis .....	149	Insectes (Abyssinie).....	137
Grosjean, H.		Mém. sur moyen de préserver les blés.. Note sur études séricicoles .....	355 132
Destruction de la chématobie .....	349	Note sur pommes de terre malades.....	84
Destruction du silphe opaque .....	207	Observations sur les scolytes des ormes. Production de la soie.....	237 119
Ravages du silphe opaque.....	207	Rapport sur le ver à soie de l'aylanthe. Rapport sur les insectes nuis. aux forêts. Recherches sur la muscardine.....	119 67 132
Grote, A. R.		Recherches sur les vers à soie .....	119
Check list of the Noctuidæ.....	340	Sur l'indust. de la soie en Algérie.....	119
Colony of butterflies.....	325		
Cotton worm .....	340		
Descript. of Noctuidæ .....	340		
Essay on the Noctuidæ.....	340		

Guérin-Ménéville, F. E.—Continued.	Page.		Page.
<i>See also</i>		Halde, J. B. du. <i>See</i> Du Halde, J. B.	
Encyclopédie méthodique .....	7	Haldeman, S. S.	
France—Ministère de l'agriculture et du commerce. Rapports.....	117	Descript. of N. A. Coleopt .....	188
Gueyraud, F. Traitement des vignes phylox.....	408	Hist. & transf. of <i>Corydalus cornutus</i> ...	435
Guilding, Lansdown. Insects infesting the sugar cane.....	84	ed. <i>See</i> Melsheimer, F. E. Cat. of Coleopt. of U. S.....	190
Gumpfenberg, Carl. Syst. geom .....	349	Hale, E. M. Colorado potato-bug.....	226
Gundlach, Juan. Entomol. cubana.....	139	Halford, F. M. Dry fly entomol .....	53
Günther, A. Dried locusts as food for birds.	291	Hall, W. B. <i>Physalis viscosa</i> .....	360
Guthrie, F. B.		Haller, Gottfried.	
A. S. Ollif. ....	51	Acarinologisches .....	463
joint author. <i>See</i> Allen, W. J. Insect & fungus diseases of fruit-trees.....	81	Beitr. schweiz. milbenfauna .....	463
Guthrie, J. E. Collembola of Minnesota..	440	Bericht über die an der rebe lebenden mikrosk. tiere .....	403
Guyot, J. Larves de gastrophiles (œstrides)	271	Beschreib. einiger neuen milben .....	463
Gyllenhal, Leonhard. Insecta svecica de- scripta.....	195	Hydrachniden der Schweiz .....	465
Haan, Willem de, ed. <i>See</i> Lyonnet, Pierre.		Kleinen feinde der Phylloxera.....	403
Anat. et métamor. de diff. espèces d'in- sectes.....	42	Milben als parasiten.....	463
Haase, Erich. Researches on mimicry.....	47	Revis. der gattung Analges.....	469
Haberlandt, Friedrich. Cecidomyia de- structor .....	250	Ueber den bau der vögelbewohn. sar- coptiden .....	470
Hagen, H. A.		Vorläufige bemerk. über gehörorgan der ixod .....	467
Bibliotheca entomol.....	6	Zur kenntn. der sinnesborsten der hy- drachn .....	465
Cat. of neuropterous insects in the Brit. mus. Termitina .....	427	Zur kenntnis der tyroglyphen.....	469
Devonian insects of New Brunswick...	25	Halsted, B. D. Injurious garden insects...	57
Devon. insecten .....	25	Hamet, Henri. Cours prat. d'apiculture...	98
Genus <i>Colias</i> .....	328	Hamilton, John. Cat. of Coleopt .....	184
Illus. of Odonata: Argia .....	432	Hamm, Wilhelm. Wurzellaus der rebe....	403
Locomotion in Chelifer.....	461	Hammond, A. R., joint auth. <i>See</i> Miall, L. C. Struct. & life-hist. of harlequin fly.	258
Monograph of the Hemerobidæ .....	436	Hampson, Sir G. F.	
Museum pests.....	93	Cat. of Arctiadae & Agaristidæ in Brit. mus .....	337
Notes on Scudder's "Odonata of Isle of Pines" .....	432	Cat. of Arctiadae (Nolinæ, Lithosiane). Brit. mus .....	337
Notizen Brauer's Novara-neuropt.....	432	Cat. of Noctuidæ in Brit. mus .....	340
Odonat-fauna of Cuba .....	432	Cat. of Syntomidæ in Brit. mus .....	337
On a wingless white ant.....	427	Illus. of typ. spec. Lepidopt. Heteroc....	333
On <i>Attacus columbia</i> .....	336	Lepidopt.-phalænæ of Bahamas .....	333
On color and pattern of insects.....	40	Moths (Brit. India).....	333
On insect deformities.....	40	joint author. <i>See</i> Walsingham, T. De G. On moths coll. at Aden .....	362
On <i>Lachlania abnormis</i> .....	429	Hancock, J. L.	
On larvæ disch. through urethra.....	80	Descr. of new spec. of <i>Datames</i> .....	459
On larvæ of <i>Hemerobina</i> . urethra.....	424	Tettigidæ of N. A.....	297
Papilio machaon .....	327	Unusual flights of grouse locust.....	291
Phryganidarum synop .....	437	White-marked tussock-moth in Chi- cago .....	346
Pscocinorum et embidinorum synop .....	428	Handlirsch, Anton.	
Pseudoneuropt. & Neuropt. of N. A.....	425	Deux espèces nouv. <i>Amblythereus</i> Westw .....	376
Révis. crit. des phryganides.....	437	Monogr. der mit Nysson und <i>Bembex</i> verwandten grabwespen .....	174
Some remarks upon white ants.....	427	Monogr. der phymatiden.....	376
Spaltung eines flügels .....	40	Hansen, Engvald, joint author. <i>See</i> Ho- vind, Harald. Bier og honning.....	98
Synop. of Neuropt. of N. A.....	425	Hansen, H. J. Cat. des myriap. de l'ordre des symphyles.....	439
Ueber die neuropt. Bernsteinfauna.....	424	Harker, Allen.	
Ueber ein eigenthümliches organ tinei- den .....	360	Ecto-parasites of the ox .....	423
joint author. <i>See</i> Selys-Longchamps, M. E. Monogr. des caloptérygines.	434	Eggs of <i>Tetranychus lăpidus</i> .....	465
Monogr. des gomphines .....	434	On the gall-midges .....	250
<i>See also</i> for biographical sketch Hen- shaw, Samuel. H. A. Hagen.....	51	Harman, J. C. Injury to fruit trees by new insect.....	237
Hahn, C. W.			
Wanzenartigen insecten .....	369		
<i>See also</i> Koch, C. L. Die arachniden. 448, 449			

	Page.		Page.
Harney, G. W. Yellow scale.....	419	Henry, F. P. Book-worm.....	217
Harold, Edgar, freiherr von, joint author.		Henschel, G. A. O.	
<i>See</i> Gemminger, Max. Cat. coleopt.....	184	Insecten-schädlinge.....	67
Harriman Alaska expedition. Insects....	139	Die schädlichen insekten.....	67
Harrington, W. H.		Henshaw, Samuel.	
Canadian Uroceridæ.....	162	Bibliog. of Amer. econ. entomol.....	6
Cat. of Canadian Proctotrypidæ.....	167	Entomol. writings of Horn.....	6
Extra limital insects at Ottawa.....	139	Entomol. writings of Le Conte.....	6
Fauna Ottawaensis, Hemipt.....	366	Entomol. writings of Packard.....	6
List of Ottawa Coleopt.....	195	H. A. Hagen.....	51
"On Coleopt. injur. to pines".....	90	List of Coleopt. of Amer.....	188
Ottawa Coleopt. Cerambycidae.....	223	Hentz, N. M. Spiders of U. S.....	453
Harris, Moses. Expos. of Eng. insects.....	145	Herbelin, Jules. Élevage des vers à soie... 119	
Harris, T. W.		Herbst, J. F. W.	
Entomol. correspondence.....	51	Einleitung zur kenntn. der insekten... 12	
Extracts from work.....	57	Natursystem der ungefl. insekten..... 448	
Insects & diseases injur. to vegetation.	57	Herculais, J. P. A. Künckel d'. <i>See</i> Künckel	
Insects of Mass. injur. to vegetation....	57	d'Herculais, J. P. A.	
Insects of N. E. injur. to vegetation....	57	Herman, Otto. Magyarországg pok-faunája. 453	
Harrisburg. Pennsylvania silk convention, 1839. <i>See</i> Pennsylvania silk convention, Harrisburg, 1839.....	484	Hermann, J. F. Mém. aptérologique..... 448	
Harrison, Charles. Book of honey bee....	98	Hernández, M. J. Langosta..... 291	
Hart, C. A.		Herpin, J. C. Alucite ou teigne des blés... 360	
Entomology of Ill. river.....	139	Herrera, A. L.	
joint author. <i>See</i> Needham, J. G.		Destrucción de los gusanos..... 75	
Dragon-flies of Ill.....	433	Mouvement de manège chez les insectes..... 40	
Hartig, Theodor. Blattwespen und holz-wespen.....	161	Herrich-Schäffer, G. A. W.	
Hartman, W. D. Seventeen-year locust... 381		Sammlung aussereurop. schmetterlinge..... 299	
Harvard college—Museum of comparative zoology. <i>See</i> Meinert, F. V. A. Myriap. Mus. cantabrigensis, Mass.....	444	Syst. bearb. der schmetterlinge von Europa..... 309	
Harvey, F. L. Apple maggot.....	268	<i>See also</i> Hahn, C. W. Wanzenartigen insecten..... 369	
Harvey, L. F. Observ. on N. A. moths.... 333		Herrick, E. C. Observations Hessian fly... 250	
Hauser. <i>See</i> Packard, A. S. Hauser on organs of smell.....	44	Herz, O. <i>See</i> Romanoff, N. M. Mém. sur les lépidopt..... 301-302	
Hauterive, H. Systèmes d'étouffage.....	119	Hewitson, W. C. Descr. of Ind. lepidopt. insects..... 309	
Haven, Mrs. V. C. Trees to feed silk worms.....	107	Heyden, Lucas von.	
Hawaii—Entomologist. Rept.....	479	Cat. der coleopt. von Sibirien..... 195	
Haworth, A. H. Prod. lepidopt. brit.....	308	Cat. coleopt. Europæ, Caucasi & Armeniæ ross..... 195	
Hay, Robert. Habit of red ants.....	169	Heylærts, F. J. M. <i>See</i> Romanoff, N. M. Mém. sur les lépidopt..... 301-302	
Hayward, Roland. Habits of Bolitotherus bifurcus.....	229	Heymons, Richard.	
Haywood, J. K. Insecticides and fungicides.....	75	Verhoef's über die abdominalanhänge der insecten..... 41	
Hazzi, von. Silkworms.....	108	Verhoef's "Noch einige worte über segmentanhänge"..... 41	
Heath, E. A. Descr. of new cetonid beetle.	222	Ueber den nachweis der viviparität.... 41	
Heathcote, F. G. <i>See</i> Sinclair, F. G.		Higley, W. K. Northern pitcher plant.... 31	
Hedde, Isidore. Répertoire sérétechnique. 119		Hilgard, E. W.	
Heddon, James. Success in bee culture... 98		Lecture on phyllox..... 403	
Heeger, Ernest. Beitr. zu naturgesch. der insecten..... 145, 146		Phyllox. in Calif..... 403	
Heinemann, H. von. Schmetterlinge Deutschlands und der Schweiz.....	308	Phyllox. or grape vine louse, & remedies. 403	
Heintl, Franz von.		Hill, John, ed. <i>See</i> Swammerdam, Jan.	
Anleitung seidenbau.....	119	Book of nature..... 16	
Unterricht im seidenbaue.....	119	Hind, H. Y. Insects & diseases injur. to wheat crops..... 84	
Heller, Arnold. Schmarotzer.....	80	Hinds, W. E.	
Hellwig, J. C. L., ed. <i>See</i> Rossi, Pietro.		Carbon bisulphid..... 75	
Fauna etrusca.....	147	Contrib. to monogr. of Thysanoptera... 423	
Helvetische entomologie. <i>See</i> Schellenberg, J. R.....	148	Hine, J. S.	
Henneguy, L. F.		N. A. species of Bittacus..... 437	
Anthonome du pommier.....	233	Rev. of Panorpidæ of Amer..... 437	
Insectes, morphol.—reprod.—embryog. 40		Some greenhouse pests..... 57	
Henry, Edmond. Atlas d'entomol. forest.. 90		Tabanidæ of Ohio..... 261	
		Tabanidæ of western U. S. & Canada... 261	



	Page.		Page.
Historique et situation de la sériciculture..	119	Horn, G. H.	
History of insects.....	12	Calospasta Lec .....	231
History of silk, cotton, linen, wool, & other fibrous substances .....	108	Coleopt. of Baja Calif.....	195
Hittell, Mrs. E. C. Calif. silk grower's instructor.....	108	Curculionidæ of U. S.....	233
Hodgson, G. C. Rept. on sericult. exper. at Alipore.....	119	Mem. of Le Conte .....	61
Hoffmeister, A. W. Rept. on noxious insects.....	328	Monogr. revis. of Cremastochilus .....	220
Hofmann, Ernst.		N. A. Coleopt. in cabinet of Ent. soc. of Phila.....	188
Gross-schmetterlinge Europas.....	309	Review of Anisodactylus.....	204
Raupen der gross-schmetterlinge Europas.....	315	Revis. of Bostrichidæ.....	218
Raupen der schmetterlinge Europas .....	315	Revis. of Hydrobiini.....	206
Holland, W. J.		Synopsis of Hysteridæ.....	211
Asiatic Lepidopt.....	320	Tenebrionidæ of Amer.....	229
Butterfly book.....	320	joint author. See Le Conte, J. L.	
Collecting & preserving insects.....	49	Classif. of Coleopt. of N. A.....	189
List of Lepidopt. coll. in East Africa. 1894.....	309	Rept. on insects introd. by internat. exhib.....	98
List of Lepidopt. coll. in eastern Africa.....	309	New spec. of N. A. Coleopt.....	190
Moth book.....	333	Rhynchophora of Amer.....	232
Hollrung, Max.		See also Biol. cent. amer. Coleoptera.. 192-193	
Pflanzenschutz.....	67	Also for bibliography Henshaw, Samuel.	
Pflanzenschutzwesen in den Ver. St.....	57	Ent. writings of Horn.....	6
Holmberg, E. L. Delectus hymenopt. arg.....	157	Horn, W. S., comp. See Ormerod, E. A.	
Holmgren, A. E.		Warbles in hides.....	272
Hymenoptera.....	152	Horn, Walther. Monogr. der palæarkt. cicindelen.....	203
Ichneumonologica suecica.....	164	Horn expedition to Central Australia. See Kirby, W. F. Hymenoptera.....	158
Om åkerns vanligaste skadeinsekter .....	67	Horsfield, Thomas. Lepidopt. insects in Mus. of East India Co.....	299
Homeruge, John d'.		Horváth, Géza von.	
Essays on Amer. silk.....	108	Adnotat syn. de hemipt. palæarct.....	366
Silk culturists' manual.....	108	Capsidæ novæ.....	375
Hope, F. W.		Consp. spec. gen. Graphosoma.....	371
Coleopterists' manual.....	184	Descr. of new spec. of Gerrididæ.....	377
New arachnide uniting Gonyleptes & Phalangium.....	461	Descr. of new Hemipt. from N. S. W.....	366
See also Westwood, J. O. Thesaurus ent. oxon.....	17	Hemipt. nonnulla nova asiatica.....	367
Also for biographical sketch Memoir of F. W. Hope.....	51	Hemiptera nova afric.....	367
Hopkins, A. D.		Hemiptera nova palæarct.....	367
Exhibit of insect enemies of forests.....	90	Hemiptera nova turkestanica.....	367
Flowering habits of timothy and red clover.....	31	Heteropt. anatol. in regione Brussæ coll.....	369
Insect enemies of pine.....	90	Homopt. nova ex Hungaria.....	379
Insect enemies of redwood.....	90	Homopt. quinque nova ex Hungaria.....	379
Insect enemies of spruce.....	90	Hydrocorisæ tres novæ.....	369
Insect injuries to hard-wood trees.....	90	Insecta heptapotamica.....	367
Pin holes in chestnut.....	218	Konyhasós es szikes teruleteink rovarfaunája.....	67
Powder-post injury.....	90	Monogr. colobathristinarum.....	374
Prelim. rept. on insect enemies of forests.....	90	Monogr. lygæidarum Hungariæ.....	374
Prin. insect. depred. [in W. Va.].....	57	Ordo. Hemiptera.....	367
Some of prin. enemies of coniferous forests.....	90	Pentatomidæ novæ afric.....	371
See also Scudder, S. H. Canadian fossil insects.....	25	Pentatomidæ novæ extraeuropææ.....	371
Hopkins Stanford Galapagos expedition, 1898-1899. See		A permetező készülékek a kertészet szolgálatában.....	75
Banks, Nathan.		Spec. gen. Galeatus.....	376
Arachnida.....	450	Spec. gen. Pionosomus.....	374
Thysanura & Termitidæ.....	427	Spec. nova jassidarum.....	382
Coquillett, D. W. Diptera.....	245	Spec. palæarct. gen. Caliscelis.....	382
Hori, S. See Kuwana, S. I. San Jose scale in Japan.....	419-420	Synopsis gen. Doratura.....	384
		Tingitidæ novæ palæarct.....	376
		Védekezés a kártékony rovarok eelen.....	75
		See also Hungary—Station phylloxérique hongroise. Rapport ann.....	404
		Houard, C., joint author. See Darboux.	
		G. Cat. syst. des zoocécidies.....	29
		Hough, Walter. Preservation of museum specimens.....	93

	Page.		Page.
Houlbert, C. V.		Howard, L. O.—Continued.	
Faune anal. des orthopt. de France.....	281	U. S. Dept. of agriculture and silk culture .....	108
Insectes ennemis des livres.....	93	Use of steam apparatus.....	75
Petite faune anal. des coléopt. français.....	195	joint author. <i>See</i>	
Rapports nat. & phylog. des coléopt.....	184	Riley, C. V.	
<i>See also</i> Faune entomologique armoricaine. Coléoptères.....	194	Horn fly .....	274
Hovind, Harald. Bier og honning.....	98	Parasitic hymenopt. of St. Vincent .....	158
How to destroy insects on house-plants, flowers, etc. <i>See</i> Williams, H. T.....	88	Plum curculio.....	235
Howard, L. O.		<i>See also</i> U. S.—Dept. of agric.—Div. of entomol. Rept.....	487
Annotated cat. of insects coll. in 1887-88.....	139	Howard, W. R. Foul brood.....	98
Army worm .....	341	Hoy, P. R. Cat. of Wis. Lepidopt.....	304
Biol. of Chalcididae.....	166	Hoyt, J. D. Pract. modes of destroying cotton worm.....	341
Bothriothracine insects of U. S.....	166	Hubbard, H. G.	
Box-elder plant-bug.....	373	Ambrosia beetles .....	237
Carpet beetle.....	211	Coleopt. of Mich.....	188
Chalcididae of Grenada.....	167	Insects affecting orange .....	84
Chinch bug.....	374	Rept. on scale insects .....	419
Codling moth .....	356	Rust of orange.....	463
Danger of importing insect pests .....	93	Scale insects of orange .....	419
Descr. of N. A. Chalcididae.....	166	Tree nests of termites in Jamaica .....	427
Division of entomol .....	53	Two days collecting in Mammoth Cave.....	23
Econ. status of insects.....	58	Huber, François.	
Fungous diseases of grasshoppers .....	36	New observ. on bees.....	98
Geog. distrib. of yellow fever mosquito.....	256	Nouv. observ. sur les abeilles.....	99
Gipsy moth in Amer.....	346	Observ. on bees.....	99
Grass & grain joint-worm flies.....	166	Huber, J. C. Bibliog. der klinischen entomol.....	23
Harlequin cabbage-bug .....	371	Hübner, Jacob.	
House flies .....	273	Sammlung exot. schmetterlinge.....	299
How insects affect health .....	58	Syst.-alph. verzeichn. europ. schmetterlinge .....	309
How to distinguish mosquitoes of N. A. Hydrocyanic-acid gas .....	256	Verzeichn. bekannter schmetterlinge..	300
Import. enemy to fruit trees; San Jose scale.....	419	Zuträge zur sammlung exotischer schmetterlinge .....	300
Insect book.....	20	Hudson, G. V.	
Insect fauna of human excrement .....	58	Elem. manual of N. Z. entomol .....	143
Insects affecting cotton plant .....	84	N. Z. Neuroptera .....	426
Insects wh. defoliate shade trees.....	90	Huet, L. Mytilaspis pomorum.....	419
Laws against injur. insects in N. A.....	79	Huguenin, Gustav. Fauna insectorum Helvetiæ. Tipulidæ.....	259
Legis. against injur. insects in N. A.....	79	Huish, Robert. Cottager's manual for management of bees .....	99
List of invert. fauna of S. C.....	139	Huit jours à Turin.....	404
Mexican cotton-boll weevil .....	233	Hulst, G. D. <i>See</i>	
Mosquitoes .....	256	Smith, J. B. Lepidopt. of boreal Amer.....	305
Mosquitoes & fleas.....	256	Dyar, H. G. List of N. A. Lepidopt....	303
Notes on mosquitoes of U. S.....	256	Humbert, Alois. <i>See</i> Saussure, Henri de. Études sur les myriapodes.....	283
Parasitic hymenopt. insects from Ceylon .....	157	Humbert, Fred. Catarrh of the ethmoid cells .....	273
Pests of hop crop .....	84	Hummel, A. D. Essais entomologiques....	53
Prin. household insects .....	93	Hungary—Königl. Ungar. Ackerbauminister.	
Prin. insects affecting tobacco.....	84	Deutscher text des ungar. gesetzartikels.....	404
Prog. in econ. entomol.....	58	Jelentés a Filloxeraügy állásáról Magyarországbán .....	479
Regulations of foreign governments... ..	79	Jelentés az országos phylloxera-kisérteti állomás.....	480
Remedial work against cotton-boll weevil.....	233	<i>See also</i> Jablonowski, József. A gyümölcsfak és a szőlő kártevő rovarai..	84
Revis. of Aphelininæ of N. A.....	167		
San Jose scale .....	419		
Shade-tree insect problem.....	90		
Smyrna fig culture.....	34		
Some scale insects of the orchard .....	419		
Spread of land species.....	21		
Structure & host rel. among Encyrtinæ.....	166		
Study in insect parasitism.....	80		
Sulla Scutellista cyanea.....	167		
Three insect enemies of shade trees....	90		

	Page.		Page.
Hungary—Magyar kir. állami rovtartani állomás.		Illustrierte zeitschrift für entomologie.	
Jelentés.....	67	See Allgemeine zeitschrift für entomologie.....	474
A marokkói sáska.....	291	Imhoff, Ludwig.	
Utmutatas a fillox. szőlőknek.....	404	Einführung in das stud. koleopt.....	184
Vezérfonal a fillox. szőlőknek.....	404	Nouv. esp. Oligoneuria.....	429
See also		Singulorum gen. curculion.....	234
Jablonowski, József.		See also Labram, J. D. Insekten der Schweiz.....	147
A kukoriczamoly, Botys nubilalis..	353	India—Bengal—Agricultural dept. Note on silk in Bengal.....	120
Az ovantagról.....	467	India—Central Provinces—Chief commissioner. Silk.....	120
Sajó, Karl. A vetésfehérítő (Lema melanoplus).....	227	Indian museum, Calcutta.	
Hungary—Station phylloxérique hongroise. Rapport ann.....	404	Circulars on agric. econ. entomol.....	480
Hunt, J. S.		List of silk-producing insects.....	120
Texas fever.....	467	See also Cotes, E. C. Locust of N. W. India.....	290
Tick fever.....	467	Industrie séréricole en Annam.....	120
Hunt, T. F. See Illinois—State entomologist. Misc. essays on econ. entomol.....	58	Ingenitskij, I. V. Къ фаунѣ и организації стрекозъ (Odonata).....	432
Hunter, S. J.		Ingpen, Abel. Manual for butterfly collector.....	49
Alfalfa, grasshoppers, bees.....	291	Insect changes.....	300
Coccidæ of Kansas.....	419	Insect life. See U. S.—Dept. of agric.—Div. of entomology.....	487
Elem. studies in insect life.....	19	Insect life. See Budgen, L. M.....	20
Parasitic influences on Melanoplus....	291	Insect transformations.....	41
joint author. See Snow, F. H. More destr. grasshoppers of Kan.....	296	Insect world.....	480
Hunter, W. D.		Insecten-belustigung. See Rösel von Rosenhof, A. J. Monatlich-hrsg. insectenbelustigung.....	15
Inform. con. Mexican cotton boll weevil.....	233	Insekten-börse.....	481
Methods of controlling boll weevil....	234	Intermédiaire des bombyculteurs & entomologistes.....	481
Mexican cotton boll weevil.....	234	Internationaler entomologenverein. See Societas entomologica.....	486
Most important step in controlling boll weevil.....	234	Iowa academy of sciences—Committee on state fauna. See Wickham, H. F. Coleopt. of Iowa.....	191
Periodical cicada.....	381	Iowa state horticultural society. Entomol. papers.....	58
Present status of Mex. cotton-boll weevil.....	234	Iris. See Deutsche entomologische zeitschrift hrsg. von der Gesellschaft Iris zu Dresden.....	477
Status of Mexican cotton boll-weevil..	234	Ismalun, Albert. Ravageur du cotonnier..	341
Hurst, C. H. Pupal stage of Culex.....	256	Italy—Ministero d' agricoltura, industria e commercio.	
Hutchinson, W. Z. Advanced bee-culture.	99	Campagna serica.....	135
Huth, Ernst.		Provvedimenti contro la filloss.....	404
Amëisen als pflanzenschutz.....	169	Stat. del regno d' Italia. Seta.....	120
Myrmecophile und myrmekophobe pflanzen.....	169	Italy. Società entomologica italiana. See Società entomologica italiana.....	486
Hutton, F. W. Cat. of the N. Z. Dipt., Orthopt., Hymenopt.....	143	Jablonowski, József.	
Hyatt, Alpheus. Insecta.....	19	A gyümölcsfák és a szőlő kartevő rovarai.....	84
Jakobson, G. G. See Jakobson, G. G.		A kukoriczamoly, Botys nubilalis.....	353
Ibañez, Luis Cabello é. See Cabello é Ibañez, Luis.		Az ovantagról.....	467
Ihering, Hermann von.		Utmutatas a csikoslabú búzalégy irtására.....	267
Anlagen neuer colonien bei Atta sexdens.....	169	Utmutatas a gabonaszizsik irtására.....	236
Nids d'insectes.....	54	Utmutatas a répapogarak.....	234
Os piolhos vegetaes.....	379	Utmutatas a szőlömoly.....	356
Illiger, Carl, ed. See Rossi, Pietro. Fauna etrusca.....	147	Jack, J. G. Notes on injur. insects.....	58
Illinois—State entomologist.		Jackson, C. T. Researches on cotton-stainer	376
Bulletin.....	480		
Misc. essays on econ. entomol.....	58		
Operations under hort. insp. act.....	480		
Rept.....	480		
Illinois state bee-keepers' association. Ann. rept.....	104		
Illustrierte wochenschrift für entomologie. See Allgemeine zeitschrift für entomologie.....	474		

	Page.		Page.
Jackson, W. H. Studies in morphol. of Lepidopt .....	300	Jaubert, J. B. Mode d'emploi des sulfocarbonates .....	404
Jacob de Cordemoy, Hubert. Soies dans l'extrême orient .....	120	Jaumes, A., joint author. See Lichtenstein, Jules. Applic. de l'entomol à la médecine légale .....	24
Jacobi, Arnold.		Jaussan, Louis. Sulfure de carbone dans le traitement des vignes phyllox. ....	404
Chermes-art der nordmannstanne ....	388	Jayne, H. F. Dermestidæ of the U. S. ....	211
Einfluss der schaumcikade auf die weiden .....	383	Jekel, Henri. Fabricia entomologica .....	12
Heteropsaltria .....	381	Joannis, Joseph de. Phycide vivant en parasite .....	354
Jacobson, G. G. See Jakobson, G. G.		Johannsen, O. A., joint author. See Needham, J. G. Aquatic insects in N. Y. state. ....	23
Jacoby, Martin. See		Johnson, C. W.	
Biol. cent.-amer. Coleopt. ....	192-193	Diptera of Florida .....	243
Wystman, P. Gen. insectorum .....	18	Diptera of Jamaica .....	246
Jaeger, Benedict. Life of N. A. insects. ....	140	Johnson, W. B. Entozoa in human ear .....	272
Jahrbücher der insectenkunde .....	481	Johnson, Willis G.	
Jakobson, G. G. Прямокрылья и ложнощитчатокрылья .....	281	Fumigation methods .....	75
Jambunathan, N. S. Social spider (Stegodyphus sarasinorum Karsch) .....	468	Insects beneficial to horticulture .....	58
James, S. P.		Mediterranean flour moth .....	354
Anopheles mosquitoes of India .....	257	Recent results with hydrocyanic-acid gas .....	75
Malaria in India .....	257	Johnson, Wyatt G. Medico-legal applic. of ent .....	24
Janet, Armand. See Wytzman, P. Gen. insectorum .....	18	Johnston, W. E. Phyllox. & vineyards in France .....	404
Janet, Charles.		Joliceur, Henri. Ravageurs de la vigne ..	85
Aiguillon de la Myrmica rubra .....	169	Joly, Charles.	
Appareils pour l'observ. des fourmis ..	169	Concours rel. aux appareils à projeter les insecticides .....	75
Cavité du tégument .....	170	Congrès internat. phyllox .....	404
Constit. morphol. de la tête de l'insecte. ....	41	Rapport sur le thanatophore .....	75
Les fourmis .....	169	Joly, Émile.	
Gaster de la Myrmica rubra .....	169	Hist. nat. des éphémères .....	429
Limites morphol. des anneaux du tégument .....	152	Premiers états du genre Oligoneuria ..	430
Mécanisme du vol .....	41	Sur le Prosopistoma .....	430
Muscles des fourmis .....	41	Sur le Prosopistoma punctifrons .....	430
Nématodes des glandes pharyngiennes des fourmis .....	169	joint author. See	
Nerfs céphaliques .....	170	Joly, Nicolas.	
Nerfs de l'antenne .....	170	Contrib. l'hist. nat. des éphémères ..	430
Nids de la Vespa crabro .....	175	Nouv. recherches Prosopistoma ..	430
Notice sur les travaux sci .....	6	tr. See Imhoff, Ludwig. Nouv. espèce Oligoneuria .....	429
Observ. sur les frelons .....	175	Joly, Nicolas.	
Observ. sur les guêpes .....	175	Contrib. à l'hist. nat. des éphémères ..	430
Organ servant à la fermeture du réservoir du venin .....	170	Embryogénie des éphémères .....	430
Rapports de l'Antennophorus Uhlmanni .....	170	Les éphémères .....	430
Rapports des animaux myrmécophiles. ....	172	Nouv. recherches Prosopistoma .....	430
Rapports des lépismides myrmécophiles .....	170	Sur l'hypermét. de Palingenia virgo ..	430
Rapports du Discopoma comata .....	170	Jones, A. C. Locusts in China .....	291
Réaction alcaline des nids de fourmis ..	169	Jones, E. D.	
Struct. des membranes articulaires .....	162	Exper. with venomous caterpillar .....	351
Sur la Vespa crabro .....	175	Metamorph. of Lepidopt .....	300
Système glandulaire des fourmis .....	169	Various stages of "hammock moth" ..	347
Janson, E. W. British beetles .....	196	Jones, William. Observ. on insects of Jamaica .....	140
Japan—Dept. of agriculture & commerce—Agricultural bureau. Descript. of bees in World's Columbian expos .....	99	Jordan, Karl, joint author. See Rothschild, Walter. Revis. of Spingidæ .....	336
Japan—Imperial agricultural experiment station. See Kuwana, S. I. San Jose scale in Japan .....	419	Journal of entomology .....	481
Japan—Station séricicole impériale. See Kyoto, Station séricicole impériale de ..	185	Journal of the American silk society .....	135
Jardine, Sir William, ed. Naturalists' library .....	12	Joutel, L. H., joint author. See Felt, E. P. Monogr. of Saperda .....	223
		Judd, S. D.	
		Methods in econ. ornithol. ....	35
		Protective adaptations in insects .....	35

	Page.		Page.
Judeich, J. F. Lehrb. der mitteleurop. forst-insektenkunde .....	91	Kellogg, V. L.—Continued.	
Juge, Charles. Terres de la Solfatarre comme engrais & insecticide.....	405	joint author. See Comstock, J. H. Insect anatomy.....	39
Julien, S. A., tr.		Kelly, H. A. Silkworm culture.....	108
Chinese treatises upon rearing of silk worms.....	121	Kendo, T. A. Silk & tea culture.....	108
Traité chinois sur l'éduc. des vers à soie	120	Kennedy, C. H.	
Junod, H. A.		Dragonflies of Winona lake .....	432
Faune entomol. du Delagoa. Coléopt.	196	New diagnostic character for Argia:...	432
See also Schulthess-Rechberg, Anton.		Kenrick, William. Amer. silk growers' guide.....	108
Orthoptères .....	283	Kenyon, F. C.	
Jurine, Louis. Nouv. méth. de classer les hyménopt.....	152	Morphol. & classif. of Pauropoda.....	447
Kaltenbach, J. H.		Optic lobes of bee's brain.....	177
Monogr. der pflanzenläuse .....	380	Keppen, F. P. See Köppen, F. P.	
Pflanzenfeinde .....	67	Kerchove de Denterghem, Oswald. Doryphora decemlineata .....	226
Kansas—State board of agriculture. Extermination of the grasshopper.....	291	Kerremans, Charles.	
Kansas—Silk commissioner. Biennial rept.	135	Cat. synon. des buprestides.....	214
Kansas, University of—Dept. of entomology.		Faune entomol. de l'Afrique trop.	
See		Buprestides.....	214
Hunter, S. J.		Monogr. des buprestides .....	214
Alfalfa, grasshoppers, bees .....	291	See also Wytzman, P. Gen. insectorum.	18
Coccidæ of Kans .....	419	Kertész, Colomann.	
Snow, F. H. More destr. grasshoppers of Kans.....	296	Cat. dipterorum .....	240
Kansas university scientific expedition.		Cat. tabanidarum .....	261
See		Kessler, H. F.	
Snow, F. H.		Die auf Populus nigra vorkomm.	
List. of Coleopt.....	190	aphiden-arten.....	389
List of Lepidopt. and Coleopt ..	142	Beobacht. an dem blattfloh .....	385
Kappel, A. W. Brit. & Europ. butterflies & moths .....	309	Beobacht. über Galeruca viburni .....	226
Karel, John. Amer. vines in Russia.....	405	Entw.- & lebensgesch. der blutlaus .....	389
Karell, Lajos. Anat. of Bdella arenaria.	464	Entw.- & lebensgesch. der gallwespe ..	163
Karpelles, Ludwig. See Karell, Lajos.		Entw.- & lebensgesch. von Chaitophorus.....	389
Karsch, F. A. F. Die erdlaus Tychea phaseoli .....	388	Entw.- & lebensgesch. von Schizoneura corni .....	389
Kaufmann, Ernst. Progrès de la sériciculture .....	121	Entw.- & lebensweise der aphiden.....	389
Kavkazskaja shelkovodstvennaja stanzija.		Erörterungen ü. die reblaus .....	405
Извѣстия .....	135	Kleine entomol. abhandl .....	41
Труды .....	135	Lebensgesch. der auf Ulmus campestris vorkomm. aphididen-arten .....	389
Kearfott, W. D.		Lebensgesch. der rosenblattlaus .....	389
Tortricid moths from N. C .....	356	Neue beobacht. an den auf Ulmus campestris vorkomm. aphiden-arten .....	389
See also Smith, J. B. Check list of Lepidopt .....	313	Reblauskrankheit in Deutschland .....	405
Kellen, Tony.		Richtigstellungen ü. die reblaus .....	405
Katechismus für bienenzüchter.....	99	Verwandlung der ungefl. rebläuse.....	405
Kunstwaben .....	99	Weitere beobacht. ü. die reblaus.....	405
Kellicott, D. S.		Keyserling, Eugen.	
Cat. of Odonata of Ohio .....	432	Neue spinnen aus Amer.....	453
Injurious ægerians.....	353	Die spinnen Amer.....	454
Odonata of Ohio.....	432	See also Koch, Ludwig. Die arachniden Australiens .....	450
Odonate nymph.....	432	Kholodkovskij, N. A.	
Kellogg, V. L.		Aphidol. mith .....	389
Common injur. insects of Kans .....	58	Beitr. zu monogr. der coniferen-läuse..	389
Divided eyes of Arthropoda.....	41	Entomot. miscellen .....	41
List of biting lice .....	438	Über die auf nadelhölzern vorkomm. pemphigiden .....	390
Net-winged midges .....	255	Vaisseaux de Malpighi chez les lépidoptères .....	300
New Mallophaga .....	438	Zur kenntn. der auf fichte leb. lachnus-arten .....	390
Sclerites of head of Danaïs archippus ..	324	Kieffer, J. J.	
Some notes on Mallophaga.....	438	Beitr. zur. kenntn. der phytoptociden .....	471
Taxonomic value of scales of Lepidopt.	300		

	Page.		Page.
Kieffer, J. J.—Continued.		Kirby, William—Continued.	
Descr. de larves de cécidomyies.....	250	Fauna boreali-americana .....	140
Neue mitth. ü. lothringische milbengalen .....	471	Insects alluded to in introd. to entomol. of Kirby & Spence.....	12
Observ. sur les nymphes des cécidomyies.....	250	Insects that prey upon timber.....	91
Œufs des cécidomyies.....	250	Insects wh. exemplify MacLeay's doctrine.....	41
Synopsis des cécidomyies.....	250	Introd. to entomol.....	12
Ueber lothringische gallmücken.....	251	Monogr. apum Angliæ.....	177
<i>See also</i>		New spec. of Eulophus.....	167
André, Edmond. Spec. des hyménopt.....	154	Strepsiptera.....	238
Wytzman, P. Gen. insectorum.....	18	Kirchner, L. A.	
Kiesenwetter, E. A. H. <i>See</i> Erichson, W. F.		Cat. hymenopt. Europæ.....	158
Naturgesch. der insecten Deutschlands ..	194	Verzeichn. der aderflügler.....	158
King, A. J. New bee-keepers' text-book...	99	Kirk, T. W.	
King, H. A., ed. <i>See</i> King, A. J. New bee-keepers' text-book.....	99	Hessian fly.....	251
King, N. H., ed. <i>See</i> King, A. J. New bee-keepers' text-book.....	99	Horse bot fly.....	271
Kirby, W. E., joint author. <i>See</i> Kappel, A. W. Brit. & Europ. butterflies & moths...	309	Kirk, Thomas. Fruit blights, N. Z.....	85
Kirby, W. F.		Kirkaldy, G. W.	
Butterflies & moths of Africa.....	309	Aquatic Rhynchota.....	363
Butterflies & moths of Europe.....	309	Aquatic Rhynchota from S. A.....	363
Cat. of descr. Hemipt. of Ceylon.....	367	Espèce nouv. de Notonectidæ.....	377
Cat. of descr. Odonata of Ceylon.....	433	Rincoti acquatici africani.....	363
Descr. of new gen. of Odonata.....	433	<i>See also</i> Sharp, David. Fauna hawaiiensis.....	149
Descr. of new spec. of Afric. Lycanidæ.....	327	Kirkland, A. H., joint author. <i>See</i> Fernald, C. H. Brown-tail moth.....	346
Descr. of new spec. of Forficulidæ.....	284	Kiser, J. J. Dust spray.....	75
Descr. of new spec. of Hymenopt.....	158	Klapálek, Franz. Fauna der gewässer Böhmens. Metamorph. der trichopt....	437
Elem. text-book of entomol.....	19	Kléber, Edouard-Duseigneur. <i>See</i> Duseigneur-Kléber, Édouard.	
Europ. butterflies & moths.....	309	Klee, W. G. Insects injur. to fruit & fruit trees.....	58
Familiar butterflies & moths.....	310	Kleemann, C. F. C.	
Hymenoptera.....	158	Beyr. zur natur- und insectengesch... ..	12
List of coll. of orthopt. insects.....	281	<i>See also</i> Rösel von Rosenhof, A. J. Monatl.-hrsg. insecten-belustigung ..	15
List of Hymenopt. in Brit. mus.....	152	Klug, J. C. F.	
List of Neuropt. coll. on Amazons.....	426	Entomol. brasilianæ specimen.....	140
Notes on coll. of Afric. Blattidæ.....	284	Entomol. monogr.....	12
Notes on coll. of Afric. Phasgonuridæ.....	288	Gesamm. aufsätze ü. blattwespen.....	161
Notes on insects from Yang-tse-Kiang ..	143	Symbolæ physicæ.....	137
Notes on neuropt. fam. Nempoteridæ ..	437	ed. <i>See</i> Jahrb. der insectenkunde.....	481
Notes on orthopt. gen. Phyllophora.....	288	Knab, Frederick, joint author. <i>See</i> Dimmock, George. Early stages of Carabidæ.....	204
On coll. of Lepidopt. in Louisiade Archipelago.....	310	Knaggs, H. G. Lepidopterists' guide.....	300
On insects of Christmas Island.....	149	Knaut, Warren. Additions to list of Kansas Coleopt.....	188
On Mantidæ from Transvaal.....	286	Knight, J. B.	
On names for Orthopt.....	277	Brief note on locusts.....	292
On Odonata coll. in Ceylon.....	433	Descr. of Bombay locust.....	292
On Odonata from Hainan.....	433	Knoch, A. W.	
On Odonata from Panama.....	433	Beitr. zur insectengesch.....	13
On species included in Zygonyx.....	433	Neue beyr. zur insectenkunde.....	13
Remarks on Chalcidinae.....	167	Kobert, Rudolf. Beitr. zur kenntn. der giftspinnen.....	454
Rept. on Odonata coll. at Sierre Leone.....	433	Kobus, J. D. Bijdr. tot de kennis der rietvijanden.....	85
Synon. cat. of diurnal Lepidopt.....	320	Koch, C. L.	
Synon. cat. of Heterocera.....	334	Arachniden.....	448, 449
Synon. cat. of Orthoptera.....	277	Übersicht des arachn.-systems.....	449
Synon. cat. of Odonata.....	433	Koch, Ludwig.	
Young collector's handbk. of beetles... ..	185	Arachn. aus Siberien.....	450
Young collector's handbk. of butterflies.....	320	Arachn. Australiens.....	450
Young collector's handbk. to orders of insects.....	19	Arachn. fam. der drassiden.....	457
Kirby, William.			
Century of insects.....	12		
Characters of Otiocerus & Anotia.....	381		

	Page.		Page.
Koebele, Albert.		Krassil'schik, I. M. <i>See</i> Giard, Alfred. De	
Notes on locusts .....	292	insectorum morbis .....	36
Rept. of trip to Australia .....	419	Krausbauer, Theodor. Neue Collembola..	440
Rept. on scale-insects .....	419	Krauss, H. A.	
Studies of par. insects .....	67	Beitr. zur kenntn. westafrik. orthopt. ..	281
Suppl. exper. on cottony cushion-scale.	419	Beitr. zur orthopt.-kunde .....	277
<i>See also</i>		Die dermapt. & orthopt. Siciliens .....	281
California—State board of horticult-		Erklärung der orthopt.-tafeln J. C.	
ture. Report on importation of		Savigny's .....	282
insects .....	79	Neuer beitr. zur orthopt.-fauna Tirols..	282
Hawaii—Entomologist. Rept. ....	479	Orthopt. von Senegal .....	282
Kobaut, Rezső. A magyarországi szitakötő-		Syst. verz. der canarischen dermapt. &	
félék természetrajza .....	433	orthopt. ....	282
Kohl, F. F.		Kriechbaumer, Josef, ed. <i>See</i> Klug, J. C.	
Gattungen der sphegiden .....	174	F. Gesamm. aufsätze ü. blattwespen ....	161
Neue hymenopt .....	152	Kron, F. J. Grape-vine borer .....	353
Zoyphium .....	174	Krüger, Friedrich.	
Zu den hymenopt.-gattungen Pseu-		Verwendbarkeit des petroleums .....	76
donysson & Pseudoscobia .....	174	joint author. <i>See</i>	
Kohl, Friedrich. Gesch. der Jacquard-		Frank, A. B.	
maschine .....	121	Einfluss der kupfervitriol-kalk-	
Kolbe, H. J.		brühe .....	75
Beitr. zur zoogeogr. Westafricas .....	137	Schildlausbuch .....	417
Gartenfeinde und gartenfreunde .....	68	Krüger, Leopold. Insektenwanderungen.	21
Käfer Deutsch-Ost-Afrikas .....	196	Kruschke brothers. Rape culture .....	99
Kenntnis der insekten .....	13	Küchenmeister, Friedrich. Die in & an	
Kolenati, F. A.		dem körper vorkomm. parasiten .....	80
Gen. et spec. trichopterorum .....	437-438	Kühn, J. G. Überwinterung der Oscinis-	
Meletemata entomol .....	13	larven .....	267
Kollar, Vincenz.		Kulczyński, Władysław. Araneæ in Cam-	
Beitr. zur gesch. heuschrecken .....	292	tschadalia .....	454
Beitr. zur naturgesch. Hylesinus .....	237	Kulwieg, Casimir von. Hautdrüsen bei	
Cerr-eichen-blattwespe .....	161	den orthopt .....	41
Insects injur. to gardeners .....	68	Künckel d'Herculaïs, J. P. A.	
Zur naturgesch. des ulmenblattkäfer ..	226	Glandes odorif. des hémipt .....	371
Kolreuter, J. G. De insectis coleopt .....	185	Invasions des acrid. en Algérie .....	292
Königsberger, J. C.		Langosta como abono .....	292
Insecten van Java .....	68	Lépidote. & trompe perforante .....	341
Ziekten van rijst, tabak, thee .....	68	Mue chez les insects .....	42
Kopman, H. H. Butterflies of La .....	320	On ecdysis in insects .....	42
Köppen, F. P.		Punaise de lit .....	371
Destruction des sauterelles .....	292	Sésamies en Algérie .....	341
Geogr. verb. der wanderheuschrecke ..	292	Valeur de l'appareil trachéen .....	213
Schädl. insekten Russlands .....	68	tr. <i>See</i> Brehm, A. E. Merveilles de la	
Вредныя насѣкомія .....	68	nature .....	8
Korf, baron. Отчетъ о дѣятельности		Künstler, G. A.	
по уничтоженію филлоксеры въ		Beitr. zur kenntn. der schädl. in-	
Крымѹ .....	405	sekten .....	68
Korschelt, Eugen. Zur bildung der eihüllen.	41	Ueber getreideverwüster .....	85
Körte, H. F. F. Strich-, zug- oder wander-		Ueber heuschreckenfrass .....	292
heuschrecke .....	292	Unseren kulturpfl. schädl. insekten ..	68
Koschevnikov. <i>See</i> Kozhevnikov.		Zusammenstellung ü. die berichte ü.	
Kozhevnikov, G. A. Матеріалы по ес-		land- und forstwirtschaftsschäden ..	68
тественной истории пчелы .....	181	<i>See also</i> Frauenfeld, Georg. Ber. von	
Kraatz, Gustav. <i>See</i> Erichson, W. F.		landw. insekten-schäden .....	65
Naturgesch. der insecten Deutschlands..	194	Kuwana, S. I. San Jose scale in Japan ...	419
Kraft, A., joint author. <i>See</i> Mühlberg, Fritz.		Kuwert, A. Bestimmungs-tab. der europ.	
Die blutlaus .....	391	coleopt. XIX-XX .....	206
Kramer, P. M., joint author. <i>See</i> Canestrini,		— XXI .....	212
Giovanni. Demodicidæ und Sarcoptidæ.	473	— XXII .....	212
Kräpelin, K. M. F.		Kyoto, Station séricicole impériale de.	
Palpigradi & Solifugæ .....	460	Rapport .....	135
Proboscis of Musca .....	273	Labauve, G. de, joint author. <i>See</i> Boyer,	
Scorpiones & Pedipalpi .....	460	François. Culture du mûrier .....	114
<i>See also</i> Packard, A. S. Organ of smell..	44	La Bigarre, Peter De. <i>See</i> De La Bigarre,	
		Peter.	

Page.	Page		
Laboratoire central de sériciculture des sociétés agricoles de France. <i>See</i> Revue de sériciculture comparée.....	136	Lamborn, R. H. <i>See</i> Dragon flies vs. mosquitoes.....	255
Laboratoire d'études de la soie, Lyon, France. <i>See</i> Lyon, France. Laboratoire d'études de la soie.....	135	Lamborn prize essays. <i>See</i> Dragon flies vs. mosquitoes.....	255
Laboratoire régional d'entomologie agricole, Rouen. <i>See</i> France—Département de la Seine-Inférieure—Laboratoire régional d'entomologie agricole, Rouen....	79	Lameere, Auguste. Faune entomol. de l'Afrique trop. Longicornes.....	196
Laborde, J. Étude sur la <i>Cochylis</i> .....	356	Lampa, Sven. Iakttagelser angående kornflugens uppträdande.....	267
Labram, J. D. <i>See also</i> Imhoff, Ludwig. Singulorum gen. curculionidum.....	234	Ollonborrarne.....	220
La Brousse, de. <i>See</i> Vernon, W. H. Methodical treatise on mulberry tree.....	111	Lander, Benjamin. Hut-building 17-year cicadas.....	381
La Chavignerie, Bellier de. <i>See</i> Bellier de la Chavignerie.		Landois, Hermann. Ton- und stimmapparate der insecten.....	42
Lacordaire, J. T. Hist. nat. des insectes. Coléopt.....	185	Langhans, H. <i>See</i> Staudinger, Otto. Exot. schmetterlinge.....	302
Introd. à l'entomol.....	13	Langley, S. P. Cheapest form of light.....	54
Monogr. des coléopt. phytophages.....	226	Langstroth, L. L. Hive & honey bee.....	100
Monogr. des érotyliens.....	210	Pract. treatise on hive & honey bee.....	100
<i>See also</i> , for biographical notice, Morren, Édouard. Éloge.....	51	Lapertot, joint author. <i>See</i> Beaurepère, C. Rapport.....	112
Ladies' silk culture society of California. Annual rept.....	135	Laporte, F. L. de. <i>See</i> Castelnau, F. L. de Laporte, comte de.	
Constitution.....	135	L'Arbousset, A. Laurent de. <i>See</i> Laurent de l'Arbousset, A.	
Memorial.....	108	La Roque, L. de Belfort de. <i>See</i> Belfort de la Roque, L. de.	
Silk bulletin.....	135	Latreille, P. A. Consid. gén. sur crustacés, arachn. et insectes.....	13
Ladybirds ( <i>Vedalia cardinalis</i> ).....	209	Cours d'entomol.....	13
Lafemas, Barthélemy de. Façon de faire et semer la graine de meuriers.....	121	Gen. crustaceorum & insectorum.....	13
Lafitte, Prosper de. Destruction de l'œuf d'hiver du phyllox.....	405	Habitudes de l'araignée avic.....	454
Discours sur le phyllox.....	405	Hist. nat. des crustacés & des insectes..	13
Quatre ans de luttés.....	405	Hist. nat. des fourmis.....	152
Lagerheim, Gustave de. Cypéracée entomophile.....	31	Insectes de l'Amér. équinox.....	140
Einige neue acarocécidien.....	471	Précis des caract. gén. des insectes.....	13
Ueber dipterocecidien auf <i>C<sub>5</sub>H<sub>8</sub>O<sub>2</sub></i> arten.....	30	<i>See also</i> Encyclopédie méthodique.....	7
La Giraudière, Chavaunnes de. <i>See</i> Chavaunnes de la Giraudière.		<i>Also</i> , for biographical notice, Audouin, J. V. Discours.....	51
La Grange, Brunet de. <i>See</i> Brunet de la Grange.		Latzei, Robert. Myriop. der österr.- ung. monarchie.....	443
Lahille, Fernando. Classification des moustiques.....	257	Laurent de l'Arbousset, A. Les Cévennes séricoles.....	122
Contrib. à l'étude des ixodidés.....	467	Lausanne. Congrès phylloxérique international. <i>See</i> Congrès phylloxérique international. Lausanne, 1877.....	397
Lahn, W. Lehre der honig-verwertung....	100	Lausanne, Station viticole de. Phylloxéra.....	481
Laleu, G. O. de. Éducation du ver à soie de l'allante.....	121	La Vergne, L. G. L. G. Préserv. des vignes contre le phyllox..	406
Laliman, E. À messieurs les viticulteurs..	405	Maladie nouv. de la vigne.....	406
Laliman, Léopold. Études sur les divers phyllox.....	405	Lawrence, L. I.—Board of health. Mosquito extermination.....	257
Études sur les divers trav. phyllox....	406	Layens, Georges de. Cours complet d'apiculture.....	100
La Loyère. Du phylloxéra en 1880.....	406	Élevage des abeilles.....	100
Lamare-Picquot, F. V. Régénération des races de vers à soie.....	121	L'hydromel.....	100
Lambert, F. Étude sur l'espacement.....	121	Lea, A. M. Notes on Mediterranean fruit fly.....	85
Influence de l'eau.....	121	Remedies for insect pests.....	68
Influence d'une diminution de la chaleur.....	121	Le Baron, William. Outlines of entomol.....	185
		<i>See also</i> Illinois—State entomologist. Report.....	480
		<i>Also</i> , for bibliography, Forbes, S. A. Analyt. list.....	5



	Page.		Page.
Le Clerc, Louis. Écoliers et vers à soie....	122	Le Conte, J. L.—Continued.	
Le Conte, J. L.		ed. <i>See</i> .	
Additions to Coleopt. of northern Calif.	189	Say, Thomas. Complete writings..	141
Additions to Coleopt. of U. S. <sup>1858-60</sup> .....	189	Melsheimer, F. E. Cat. of descr.	
Anal. table of Baridiidæ.....	234	Coleopt .....	190
Anal. table of Chlæniiidæ.....	204	joint author. <i>See</i> Boisduval, J. A. Hist.	
Attempt to classify longicorn Coleopt. . .	189	gén. et iconogr. des lépidopt.....	306
Cat. of Coleopt. of boundary betw. U. S.		<i>See also</i>	
& Mex .....	189	Austin, E. P. Cat. of Coleopt. of Mt.	
Cat. of Coleopt. of Fort Tejon .....	189	Washington .....	187
Cat. of spec. of Bembidiidæ .....	204	Hubbard, H. G. Coleopt. of Mich. . .	188
Classif. of Coleoptera of N. A. ....	189	Schwarz, E. A. Coleopt. of Fla. ....	190
Coleopt. of Kansas & eastern N. M. ....	189	<i>Also</i> for biographical sketch, Horn, G. H.	
Coleopt. of Rocky Mountains .....	189	Memoir .....	51
Coleopt. of U. S. Coast survey exped. to		<i>Also</i> for bibliography Henshaw, Samuel.	
Alaska.....	189	Ent. writings of Le Conte.....	6
Descr. cat. of geodephagous Coleopt. . .	203	Lederer, Julius.	
Descr. of new Coleopt. coll. by bounda-		Beitr. zur kenntn. der pyralidinen....	354
ry commission.....	189	Die noctuinen Europa's .....	341
Descr. of new Coleopt. from Calif .....	189	Die spanner.....	349
Descr. of new Histeridæ.....	211	Leech, J. H.	
Descr. of new N. A. Coleopt.....	189	Butterflies from China, Japan, & Corea.	320
Descr. of some new insects .....	204	Lepidopt. Heteroc. from China, Japan	
Hints for promotion of econ. entomol. .	58	& Corea.....	334
Index to Buprestidæ .....	214	Lefroy, H. Maxwell.	
List of Coleopt. near Fort Whipple,		Gen. treatment of insect pests.....	76
Ariz .....	190	Hints for treatment of moth borer.....	354
List of Coleopt. of Lycoming co., Pa. ....	190	Le Hardy de Beaulieu, Camille. 'Phyl-	
List of Coleopt. of N. A. ....	190	loxéra .....	406
New spec. of Coleopt. inhab. Pacific dis-		Lehman, A. Notes on entomol.....	68
trict .....	190	Lehman, J. G. C. Insectorum spec. in agro	
New spec. of N. A. Coleopt.....	190	Hamburgensi, ex ord. Dipt.....	246
Note on classif. of Cerambycidæ .....	223	Leidy, Joseph.	
Note on Brachinus .....	205	Internal anat. of Corydalus cornutus... .	436
Note on Eleodes .....	229	On the anatomy of Spectrum femora-	
Note on Lithodius .....	234	tum, Say .....	286
Notes on Amara of U. S. ....	205	Rept. on insects injur. to shade trees ..	91
Notes on Calosoma .....	205	joint author. <i>See</i> Le Conte, J. L. Rept.	
Notes on Coleopt. at Fort Simpson .....	196	on insects introd. by internat.	
Notes on Coleopt. of Lower Calif.....	196	exhib. ....	93
Notes on Harpalus.....	205	Leland, E. R. Mites, ticks & other Acari. .	464
Notes on Pasimachus.....	205	Leland Stanford jr. university. <i>See</i> List	
Notice of 3 gen. of Scarabæidæ.....	220	of pu. 'tations.....	6
On method of subduing insects.....	59	Lelièvre, Ernest. L'article de M. P.	
On spec. of Galeruca .....	226	Chrétien: Etude sur les lépidopt.....	300
On syst. value of rhynchoph. Coleopt. .	231	Leon, Nicu.	
Prodr. of monogr. of Anobiini.....	218	Organes de succion chez les hydrocores.	369
Rept. on insects introd. by internat.		Pièces labiales des hydrocores .....	369
exhib.....	93	Leonardi, Gustavo.	
Rept. upon insects coll. on Survey .....	190	Acaroides viventi nei formicæ .....	464
Revis. of Buprestidæ .....	215	Alcuni miriap. del Portogallo.....	443
Revis. of Cicindelæ.....	203	Elenco dei fitoptidi europei .....	471
Revis. of Dasytini .....	217	Lettera intorno ad nuove spec. di acari	
Revis. of Elateridæ.....	213	italiani .....	464
Rhynchophora of Amer .....	232	joint author. <i>See</i>	
Rules [for entomol. nomenclature] .....	22	Berlese, Antonio.	
Synopsis of Hydrophilidæ .....	207	Nota diagn. di cocciniglie nuove	
Synopsis of Melolonthidæ .....	220	Notizie intorno Cochylys am-	
Synopsis of Mordellidæ.....	229	biguella .....	355
Synopsis of Mycetophagidæ .....	210	<i>Also</i> Lunardoni, Agostino. Insetti	
Synopsis of the Phalacridæ.....	209	nocivi .....	69
Synopsis of Pyrochroides.....	230	Lepeletier de Saint Fargeau, A. L. M. <i>See</i>	
Synopsis of Scaphidiidæ .....	208	Saint-Fargeau, A. L. M. Lepeletier, comte	
Synopsis of spec. Clivina .....	205	de.	
Synopsis of spec. of Colymbetes.....	206	Lepori, Auguste. Élevage des vers à soie..	122

Lesne, Pierre.	Page.	Lijonet, Pieter. See Lyonnet, Pierre.	Page.
Charançon de la noix de kola.....	234	Lindemann, K. E.	
Coléopt. nouv. de la fam. des lycytes..	218	Die am getreide lebenden Thripsarten.	423
Coléoptère nouv. de la fam. des ténébrionides .....	229	Entomol. beitr.....	69
Deux espèces du genre Rhipidius .....	230	Гессенская муха (Cecidomyia destructor).....	251
Espèce nouv. de Bostrychus.....	218	Гессенская муха. Монографія. О главнѣйшихъ насѣкомыхъ вредящихъ табуку .....	251
Espèce nouv. de chrysomélide Corynodes .....	226	Die hessenfliege .....	251
Insectes des grains .....	85	Ячменная гля (Westwoodia hordei).....	420
Lesparre, duc de. Phyllox. et plants amér.	406	Хлѣбный жукъ .....	220
Lespés, Charles. Insectes des grottes de l'Ariège.....	23	Die pteromalinen der hessenfliege .....	251
Lethierry, Lucien. Cat. gén. des hémipt. .	363	Саранча въ Кубанской области.	292
Letzner, K. Beitr. zu verwandl.-gesch. einiger käfer .....	185	Die schädlichsten insekten des tabak in Bessarabien .....	85
Leuckart, Rudolf. Zur kenntn. des generationswechsels .....	42	Ueber Agromyza lateralis .....	266
Leuthner, Franz. Monogr. of Odontolabini.....	219	Ueber Meromyza saltatrix .....	267
Lewis, George.		Verzeichn. der bei Moskau vorkomm. borken-käfer .....	238
New spec. of Histeridæ.....	211	Вредныя насѣкомыя Кубанской области .....	69
See also Biol. cent. amer. Coleopt .....	192	Würmer an chokolade .....	354
Lewis, W. A. Priority in entomol. nomenclature .....	22	Linell, M. L.	
Leydig, Franz. Eierstock und samentasche der insecten.....	42	List of Coleopt. coll. on Tama River....	196
Lichtenstein, Jules.		New spec. of Chrysomelidæ.....	226
Applic. de l'entomol. à la méd. légale..	24	New spec. of Cerambycidæ & Scarabæidæ .....	223
Cépages amér.....	406	New spec. of Scarabæidæ.....	220
De l'évol. biol. des pucerons .....	390	On coleopt. of Galapagos .....	196
Emigrac. de las pulgones .....	390	On insects collected on Seychelles.....	143
Flore des aphidiens .....	390	See also Ashmead, W. H., ed. Insects coll. on Commander Islands.....	138
Génération des pucerons .....	391	Linnaea entomologica .....	481
Hist. des insectes du genre phyllox. ....	406	Linné, Karl von.	
Hist. du phyllox.....	406	Entomologia .....	13
Homoptères anthogénésiques .....	390	Fundamenta entomol. ....	13
Lettre à Messager agric .....	390	Lintner, J. A.	
Métamorph. de la cantharide .....	231	Cut-worms .....	341
Monogr. des pucerons du peuplier .....	390	Entomol. contrib.....	300
Phylloxéra .....	406	Insects of clover plant.....	85
Pucerons .....	390	Late experiences with insects.....	59
Pucerons du térébinthe .....	390	Lepidopt. of Adirondack region .....	304
Riley & l'entomol. agraire.....	51	On Mermis acuminata .....	356
Sur l'évol. biol. des pucerons.....	390	Protection from insect attack .....	59
joint author. See		San Jose scale .....	420
Planchon, J. E.		Some pests of pomologist.....	59
Conseils sur le traitem. des vignes.....	410	White grub of May beetle .....	220
Maladie de la vigne; conseils prat.....	410	See also	
Maladie de la vigne; le phyllox. ....	410	New York (state)—Entomologist.	
Phyllox. 1854-1873 .....	411	Rept.....	483
Phyllox. de la vigne en Angleterre.....	411	Rept. on injur. & other insects.....	483
Phyllox. et son action .....	411	Liottard, L. Memorandum on silk in India	122
See also		Lioy, Paolo. Ditteri ital. ....	246
Hierbst, J. F. W. Natursyst. der eingefügelten insekten .....	448	L'Isle, Thiollière de. Traitement de vignes phyllox .....	406
Vialla, Louis. Phylloxera .....	414	List of British Deltoides & Pyralites .....	341
See also for biographical notice		List of British Lepidoptera.....	310
Planchon, J. E. Notice .....	52	List of economic species of insects for public schools .....	59
Planchon, Louis. J. Lichtenstein ..	52	List of publications by instructors & students in the entomol. lab., Leland Stanford jr. university .....	6
Sabatier, Armand. J. Lichtenstein ..	52	Liston, W. G., joint author. See James, S. P. Monogr. of Anopheles.....	257
Life in the insect world .....	21		
Lignères, Joseph.			
Étude de l'Hermsaroptes coccisugus ...	470		
Étude du Tyroglyphus malus .....	469		

	Page.
Lochhead, William. San José & other scale insects .....	420
Lockwood, Samuel.	
Larvæ of stag-beetle, eating railroad ties .....	219
Viviparous fly .....	272
Locusts. (Locust catchers) .....	293
Loey, W. A.	
Observ. of devel. of <i>Agelena nævia</i> .....	457
Observ. on pulsating organs in Hemipt. ....	364
Lodeman, E. G. Spraying of plants .....	76
Lohmann, H., joint author. See Piersig, G. R. Hydrachnidæ & Halacaridæ .....	466
Loir, Adrien. Termites dans les pays tropicaux .....	427
Lome, Enrique Dupuy de. See Dupuy de Lome, Enrique.	
Łomnicki, J. R. von.	
Erythropodismus der laufkäferarten ...	205
Flügelrudimente bei den caraben. ....	205
London. City of London entomological & natural history society. Transactions .....	481
London, Entomological society of. Transactions .....	481
London, Entomological society of—Library. Catalogue .....	6
Long, E. A. Our insect foes .....	59
Long, E. C. Silk farming .....	108
Longchamps, M. E. Selys-. See Selys-Longchamps, M. E.	
Lopez Peñañel, Emiliano. Cartilla para la crianza del gusano de la seda .....	122
Loubet, L. Lettre sur la maladie de la vigne .....	406
Loudon, J., tr. See Kollar, Vincenz. Treatise on insects .....	68
Loudon, M., fr. See Kollar, Vincenz. Treatise on insects .....	68
Louis, Henri, tr. See Pestalozza, Alexandre. Les vers-à-soie du Japon .....	125
Louise, E. A. C., joint author. See Huet, L. Note sur le <i>Mytilaspis pomorum</i> .....	419
Löw, Franz.	
Beitr. zur kenntn. der coniopterygiden .....	436
Beitr. zur biol. der psylloden .....	385
Beitr. zur kenntn. der gallmücken .....	251
Beitr. zur kenntn. der jugendstadien der psylliden .....	385
Beitr. zur kennt. der milbengallen .....	471
Beitr. zur kenntn. der orthopt .....	277
Beitr. zur kenntn. der psylloden .....	385
Beitr. zur kenntn. der rhynchoten .....	364
Beitr. zur naturgesch. der cecidomyiden .....	251
Beitr. zur naturgesch. der gallmilben .....	471
Bemerk. ü. fichtengallenläuse .....	391
Bemerk. ü. Weyenbergh's <i>Lasioptera hieronymi</i> .....	251
Bemerk. zu Kirschmann's Oestridentlarven beim menschen .....	271
Besch. von neuen milbengallen .....	471
Besch. von neuen psylloden-arten .....	385
Cecidiol. notizen .....	251
Mitth. über gallmücken .....	251
Mitth. über phytoptocecidien .....	471
Mitth. über psylloden .....	385

	Page.
Löw, Franz—Continued.	
Nachtr. zu meinen arbeiten ü. milbengallen .....	471
Revis. der paläarkt. psylloden .....	385
Turkestanische psylloden .....	386
Ueber das vorkommen der blutlaus .....	391
Ueber die bewohner der schwalben-nester .....	54
Ueber eine dem mais schädliche aphidenart .....	391
Ueber einige in südfrüchten gefundene käfer .....	185
Ueber gallmücken .....	251
Ueber milbengallen der Wiener-gegend .....	471
Ueber myiasis .....	272
Ueber neue cecidomyiden der Wiener-gegend .....	251
Ueber neue gallmücken .....	252
Ueber neue phytoptocecidien .....	471
Zur biol. und char. der psylloden .....	386
Zur char. der psylloden-gen. <i>Aphalara</i> & <i>Rhinocola</i> .....	386
Zur näheren kenntniss der pemphigen .....	391
Zur näheren kenntniss zweier pemphigen .....	391
Zur syst. der psylloden .....	386
Loew, Herrmann.	
Auseinandersetzung der europ. Chrysops-arten .....	261
Bemerkungen über asiliden .....	262
Dipt. Amer. septentrionalis .....	243
Dipt.-fauna Südafrikas .....	246
Monogr. of Diptera of N. A. ....	244
Neue beitr. zur. kenntn. der dipt .....	240
On Diptera of amber-fauna .....	25
Zur kennt. der europ. <i>Tabanus</i> -arten ..	261
Lowne, B. T. Blow-fly ( <i>Calliphora erythrocephala</i> ) .....	274
Lozières, L. N. Baudry des. See Baudry des Lozières, L. N.	
Lubbock, Sir John. See Avebury, John Lubbock, 1st baron.	
Lucas, Hippolyte.	
Animaux nouv. ou rares de l'Amérique du Sud .....	140
Hist. nat. des lépidopt. d'Europe .....	310
See also Thomson, James. Voyage au Gabon .....	138
Lucas, W. J. British dragonflies .....	433
Lucet, Émile. Insectes nuisibles aux rosiers .....	85
Lugger, Otto.	
Flesh-consuming plants .....	33
Insects injur. to small fruit .....	59
Lunardon, Agostino. Gli insetti nocivi ..	69
Luppi, G.	
Dict. de séricologie .....	122
ed. See Sauvages de la Croix, P. A. B. L'art d'élever les vers à soie .....	127
Lutz, Adolph. Waldmosquitos & wald-malaria .....	257
Lyman, H. H. Dimorphism & polymorphism in butterflies .....	320
Lyon, France. Chambre de commerce.	
Expos. collective de soies .....	122
Laboratoire d'études de la soie .....	122

	Page.		Page.
Lyon, France. Laboratoire d'études de la soie. Rapport.....	135	Macleay, W. S.—Continued.	
Lyon, France. Société d'agriculture, sciences et industrie. Rapport de la comm. des soies.....	122	Laws observed to regulate distrib. of insects & fungi.....	54
Lyonet, Pieter. See Lyonnet, Pierre.		On insect called Oistros.....	240
Lyonnet, Pierre.		On struct. of tarsus in Coleopt.....	185
Anat. & métamorph. d'insectes.....	42	MacLeod, Julius.	
Chenille qui ronge le bois de saule.....	301	Anatomie des acarions.....	464
Maandschrift voor bijenteelt. See Vereeniging ter bevordering der bijenteelt in Nederland.....	105	Appareil respiratoire des arachnides.....	449
Mabille, Jules. Névroptères. (Cap Horn).	426	Appareil venimeux des aranéides.....	454
Mabille, Paul.		Macloskie, George.	
Lépidoptères. (Cap Horn).....	310	Poison-apparatus of mosquito.....	257
See also Wytsman, P. Gen. insectorum.	18	Witlaczil on Psyllidæ.....	386
McAlpine, Daniel.		See also Kräpelin, K. M. F. Proboscis of Musca.....	273
Fungi parasitic on scale insects.....	36	McNeill, Jerome.	
joint author. See Tepper, J. G. O. South Austral. forms of Cordyceps gunnii..	37	Insect trap.....	49
Macauley, C. N. B. See Dragon flies vs. mosquitoes.....	255	List of Myriap. in Escambia Co., Fla....	442
McBryde, J. M. Army-worm.....	341	List of Myriap. of Franklin Co., Ind....	442
McClelland, R., joint author. See Bartrum, E. Bees in bar-frame hive.....	94	New spec. of Myriap. from Ind.....	442
McCook, H. C.		Macquart, Justin.	
Amer. spiders & spinning-work.....	454	Diptères exotiques.....	240, 241
Ants as insecticides.....	170	Hist. nat. des insectes. Diptères.....	241
Honey ants of Garden of Gods.....	170	Insectes dipt. du nord de la France....	246
Nat. hist. of agric. ant of Tex.....	170	Magazin der entomologie.....	481
Nesting habits of Amer. purseweb spider.....	456	Magazin für die liebhaber der entomologie	481
Nomenclature of American spiders.....	454	Magazin für insektenkunde.....	481
Snare of orb-weaving spiders.....	454	Mahan, J. M. Italian mulberry.....	109
Tenants of an old farm.....	21	Maillet, Eugène.	
See also Dragon flies vs. mosquitoes.....	255	Art d'élever les vers à soie.....	123
McCulloch, R. W. Sericulture.....	122	Confection des graines de vers à soie..	123
MacDougall, R. S. Diaxenes dendrobii....	223	Congrès séric. internat.....	122
McEvoy, William. Foul brood.....	100	Congrès séric. internat. de Montpellier.	122
MacGillivray, A. D., joint author. See Needham, J. G. Aquatic insects in N. Y. state.....	28	L'éclosion des graines de vers à soie....	123
McGregor, T. M. Notes on aculeate Hymenopt.....	158	Leçons sur le ver à soie.....	123
McIntire, S. J. Structure of scales of insects.....	42	Nouv. races de vers à soie.....	123
McKittrick, P. W. Practical silk culture.....	109	Production des graines de vers à soie..	123
McLachlan, Robert.		Système Pasteur.....	123
Cat. of British Neuropt.....	426	Traité sur le ver à soie.....	123
Consid. on Chauliodes & allies.....	436	joint author. See Balbiani, E. G. Rapport sur les insectes utiles.....	111
Finska Trichoptera.....	438	ed. See Malpighi, Marcello. Traité du ver à soie.....	123
Monogr. revis. of Trichoptera.....	438	Maingrod, Maurice. Nouv. esp. d'insecte coléopt. (Calosoma).....	205
Neuropt. of Madeira & Canary Islands.	426	Major, Joshua. Insects most prevalent on fruit trees.....	69
On marine caddis-fly.....	438	Mäklin, F. W. Monogr. der gattung Strongylium.....	229
On nymph-stage of Embidæ.....	428	Mally, C. W.	
Report on insecta coll. during Arctic exped.....	142	Hackberry Psyllidæ.....	386
ed. See London, Entomological society of—Library. Catalogue.....	6	Psyllidæ found at Ames.....	386
McLain, N. W. Rept. on exper. in apiculture.....	100	joint author. See Osborn, Herbert. Biol. notes on la. insects.....	60
McLaren, J. D. Occidental ant in Kansas.	170	Mally, F. W.	
Macleay, W. S.		Boll worm of cotton.....	341
Annulosa javanica.....	196	Mexican cotton-boll weevil.....	234
Horsæ entomologicæ.....	221	Rept. on boll worm of cotton.....	341
Illus. of Annulosa of S. Africa.....	137	Prelim. rept. of Mexican cotton-boll weevil.....	234
		Malpighi, Marcello.	
		Struct. du ver à soye.....	123
		Traité du ver à soie.....	123
		Manca, G. Il decorso del digiuno.....	42
		Mandon, J. A. Traitement anti-phylox.....	406
		Mann, B. P.	
		Bibliogr. of destructive locusts.....	288

Mann, B. P.—Continued.	Page.	Marlatt, C. L.—Continued.	Page.
Bibliogr. on locusts of Amer.....	289	Revision of the Nematinae of North America.....	161
Explan. to "Corrigenda" to "Anisopteryx vernata disting. fr. A. pomataria".....	349	San José scale.....	420
Monstrous imago of Anisopteryx pomataria.....	349	Scale insect & mite enemies of citrus... ..	420
White coffee-leaf miner.....	360	Scale insects & mites on citrus.....	420
Manning, J. W. Method of repelling insect enemies of fruits.....	76	Silver fish.....	440
Manual del apicultor peruano.....	100	True clothes moth.....	360
Manuel, R. A. Silks of Brit. Burma.....	123	White ant.....	428
Manuel-pratique sur la culture des abeilles. See D.....	97	Woolly aphid of apple.....	391
Marcellia.....	481	joint author. See Howard, L. O.	
Marchal, C., tr. See Stierlin, Gustav. Tab. anal. pour coléopt.....	232	Prin. household insects.....	93
Marchal, Paul.		San José scale.....	419
Castration nutriciale.....	152	Marquand, E. I. Hemipt. of the Land's End district.....	367
Cécidomyie de l'avoine.....	252	Marseille. Université—Faculté des sciences—Section de zoologie agricole. Annales.....	481
Désassimilation de l'azote.....	42	Marshall, G. F. L. Butterflies of India....	320
Diptères nuisibles aux céréales.....	241	Marshall, T. A.	
Entomologie appliquée.....	69	Deux espèces nouv. de braconides....	165
Étude sur la reprod. des guêpes.....	175	See also André, Edmond. Spec. des hyménopt.....	154
Formation d'une espèce par le parasitisme.....	179	Marshall, W. S. Anatomy of Ranantra (!) fusca.....	378
Glande coxale du scorpion.....	460	Martin, D. See Victoria, Aus.—Dept. of agric. Codlin moth.....	357
Insectes nuisibles de Tunisie.....	69	Martin, Joanny.	
Observ. sur la biol. des hyponomeutes.....	360	Cat. des espèces de Phymatidæ.....	376
Parasitisme des Inostemma.....	167	Cat. des hémiptères Plataspidinæ.....	372
Rapport sur la tenthrede de la rave.....	161	Espèce nouv. de Pyrrhocoridae.....	376
See also for bibliography, Notice sur les travaux.....	6	Hémipt. hétéropt. nouv. d'Asie.....	369
Marchand, Ernest. Tenthredonides ou mouches à scie.....	161	Lépidoptères d'Europe.....	310
Marès, H. P. L. Phylloxéra.....	407	joint author. See Coutière, H.	
Marey, É. J. Vol des insectes et des oiseaux.....	42	Nouv. hémiptère halophile, Hermatobatodes marchei.....	377
Marion, A. F.		Nouv. hémiptère halophile.....	377
Applic. du sulfure de carbone.....	407	Martin, René. Odonates indo-océaniens ..	433
Destruct. du phylloxéra.....	407	Martinez y Fernández-Castillo, Antonio. Revis. del grupo Calopteni.....	293
Mark, E. L. Simple eyes in arthropods....	42	Martyn, Thomas. English entomologist... ..	196
Marlatt, C. L.		Marx, George.	
Bedbug.....	372	Arachnida.....	454
Buffalo tree-hopper.....	383	Aranæ of D. C.....	454
Clover mite.....	465	Cat. of Aranæ of temperate N. A.....	454
Cockroaches.....	284	New spec. of gen. Dinopis.....	457
Hessian fly.....	252	New tube-constructing spiders.....	458
House ants.....	171	Spider fauna of Bermuda Islands.....	454
House centipede.....	444	ed. See Keyserling, Eugen. Spinnen Amerikas.....	454
How to control San José scale.....	420	Maskell, W. M. Insects noxious to agric. in N. Z.....	420
Important insecticides.....	76	Mason, James Wood-	
Imported elm leaf-beetle.....	226	Contrib. to knowl. of Embidæ.....	428
Insect control in Calif.....	59	Descr. of Asiatic spec. of Corydalis.....	436
Japanese Tenthredinidæ.....	161	Rept. on insects destr. to castor-oil plant.....	86
Lime, sulphur, & salt wash.....	76	Rept. on disease among silk-worms....	132
New nomenclature for the broods of the periodical cicada.....	381	Rept. on tea-mite & tea-bug.....	465
Oviposition of buffalo tree-hopper.....	383	Some acct. of Palanbyoo.....	354
Ox warble.....	271	Mason, P. B., ed. See Matthews, Andrew.	
Peach-tree borer.....	353	Monogr. Corylophidæ and Sphæridæ.....	209
Peach twig-borer.....	360	Trichopterygia illus. Suppl.....	208
Pear slug.....	161	Masquard, Eugène de.	
Pear-tree psylla.....	386	Congrès séríc. internat. de Montpellier.	123
Periodical cicada.....	381	Éducation rationnelle des vers à soie... ..	124
Prin. insect enemies of growing wheat.....	85		
Prin. insect enemies of the grape.....	85		
Red-cedar saw-fly.....	161		
Rept. on useful & injur. insects.....	59		

	Page.		Page.
Massachusetts—State board of agriculture.		Meijere, J. C. H., joint author. <i>See</i> Wulp,	
Rept. on extern. of gypsy moth.....	346	F. M. van der. Nieuwe naamlijst van	
Special rept. on extern. of gypsy moth.	347	nederl. Dipt.....	249
<i>See also</i>		Meinert, F. V. A.	
Fernald, C. H. Brown-tail moth ..	346	Bemærkn. af "Caput scolopendræ" ...	444
Forbush, E. H. Gypsy moth.....	346	Caput scolopendræ.....	444
Fowler, F. H. Insecticides.....	75	Danmarks scolopendræ & lithobier....	445
Massachusetts—State board of agriculture—		De eucephale myggelarver.....	241
Entomologist. <i>See</i> Packard, A. S. Ann.		De formeentlige aandedrætsredskaber	
rept.....	484	hos slægten <i>Scutigera</i> .....	444
Massachusetts—Zoological and botanical		Fluernes munddele trophi dipterorum.	241
survey, Commissioners on the. <i>See</i> Har-		Larverne af slægten <i>Aclisus</i> .....	206
ris, T. W. Rept. on insects of Mass.....	57	Mochlonyx culiciformis.....	259
Massachusetts society for the promotion of		Munddelenes bygning hos fluerne.....	241
agriculture. <i>See</i> Scudder, S. H. Pine		Mundtheile der dipteren.....	241
moth.....	357	Myriap. Musei cantabrigensis, Mass.	
Masters, George, Cat. Australian Coleopt.	196	Chilopoda.....	444
Matheson, R. E. Special rept. on insects.	69	Myriap. Musei hauniensis.....	441
Mathieu, J. J. A. <i>See</i> Henry, Edmond.		Noget mere om spiracula cribaria.....	43
Atlas d'entomol. forestière.....	90	Om sæggets anlæg og udvikling.....	252
Matthews, Andrew.		Om en nyslægt af cecidomyiernes fam.	252
New gen. of Trichopterygidae ..	208	Om kjønsgorganerne hos <i>Machilis poly-</i>	
Monogr. of Corylophidae & Sphæriidae ..	209	poda.....	440
Trichopterygia illus.....	208	Om mundens bygning.....	43
<i>See also</i> Biol. cent.-amer. Coleopt.....	192-193	Om sammensætningen af hovedet og	
Mattiuzzi, F., joint author. <i>See</i> Pinchetti,		tydningen af munddelene hos insek-	
P. La soie en Europe.....	125	terne.....	43
Mauduyt. <i>See</i> Encyclopédie méthodique..	7	Sideorganerne hos scarabæ-larverne ..	221
Maxwell-Lefroy, H. <i>See</i> Lefroy, H. Max-		Spirakelpladen hos scarabæ-larverne ..	221
well.		Tungens udskydelighed hos steninerne.	208
Mayer, A. G.		Unterslippe der käfer-gattung <i>Stenus</i> ..	208
Development of wing scales.....	301	Melander, A. L. <i>See also</i> Biol. cent.-amer.	
Effects of nat. selection upon color pat-		Diptera.....	245
terns.....	301	Melichar, Leopold.	
On color of moths & butterflies.....	301	Cicadinen von Mittel-Europa.....	381
On mating instinct in moths.....	334	Homopt.-fauna von Ceylon.....	380
Mayer, Paul.		Monogr. der acanaloniiiden & flatiden ..	382
Naturgesch. der feigeninsecten.....	34	Mellichamp, J. H. <i>Sarracenia variolaris</i> ..	33
Organi di senso nelle antenne dei dit-		Melsheimer, F. E.	
teri.....	241	Cat. of descr. Coleopt. of U. S.....	190
<i>See also</i> Packard, A. S. Mayer's ontog.		<i>See also</i> , for biographical sketch, Powell,	
& phylog. of insects.....	44	G. R. F. V. Melsheimer.....	52
Mayet, Valéry.		Memoir of F. W. Hope.....	51
Maladie rouge de la vigne.....	465	Méneville, F. E. Guérin-. <i>See</i> Guérin-	
<i>See also</i> Sabatier, Armand. Jules Lich-		Méneville, F. E.	
tenstein.....	52	Menge, Anton. Preussische spinnen.....	455
Maynard, C. J. Butterflies of N. E.....	320	Mengel, L. W. Cat. of Erycinidae.....	325
Mayr, G. L.		Merchants' locust investigation commission	
Feigeninsecten.....	34	of Buenos Aires. <i>See</i>	
Südamerikanische formiciden.....	171	Bruner, Lawrence.	
Mazaroz, J. P.		First rept.....	289
Conclusion sur la destr. du phyllox.....	407	Primer informe.....	290
Destr. du phyllox.....	407	Mercolini, Luigi. Guardate il baco.....	124
Mémoire sur la destr. du phyllox.....	407	Merian, M. S. Insectes de Surinam et de	
Plus grand péril du moment.....	407	l'Europe.....	14
Mead, C. E. <i>Collops bipunctatus</i> .....	217	Méritan, Edouard. De la gatine.....	132
Medicus, Wilhelm. Illus. raupenkalen-		Merriam, F. A. <i>See</i> Bailey, Mrs. F. A.	
der.....	315	(Merriam).....	34
Medina y Ramos, Manuel. Christídidos de		Merrifield, F., ed. <i>See</i> Fabre, J. H. C. in-	
España.....	168	sect life.....	47
Mégnin, Pierre.		Mexico—Comisión para el estudio de los	
Faune des cadavres.....	24	medios más adecuados para la destruc-	
Monogr. des sarcopitides psoriques.....	470	ción de la langosta. Informe.....	293
Parasites et maladies parasitaires.....	83	Mexico—Secretaría de fomento, coloniza-	
Meigen, J. W. Syst. beschr. der europ.		ción é industria.	
zweiflügeligen insekten.....	246	Colección de doc. sobre la langosta.....	293

	Page.		Page.
Mexico—Secretaría de fomento, colonización é industria—Continued.		Minot, C. S.	
Fumagina y el pulgón de los cafetos . . .	420	Anatomy of <i>Aletia xyli</i> . . . . .	341
El picudo . . . . .	234	Comp. morphol. of ear . . . . .	277
Trabajos sobre el axe . . . . .	420	Zur kenntn. der insektenhaut . . . . .	43
Mexico—Secretaría de fomento, colonización é industria—Comisión de parasitología agrícola. Cat. of coll. of pests & insecticides . . . . .	69	Miscellanea entomologica . . . . .	482
Meyrick, Edward.		Miskin, W. H. Lepidopt. Rhopal. of Australia . . . . .	320
Descr. of Australian micro-lepidopt. . . . .	334	Mission scientifique au Mexique et dans l'Amérique Centrale. See Saussure, Henri de. Étude sur les myriap. . . . .	283
Handbk. of Brit. Lepidopt. . . . .	310	Mission scientifique du Cap Horn. See France—Mission scientifique du Cap Horn.	
See also Sharp, David. Fauna hawaiensis . . . . .	149	Mississippi silk company.	
Miall, L. C.		Circular . . . . .	482
Injur. & useful insects . . . . .	69	Price list . . . . .	109
Nat. hist. of aquatic insects . . . . .	22	Missouri—Entomologist. See Riley, C. V. Ann. rept. . . . .	485
Struct. & life-hist. of harlequin fly . . . . .	258	Missouri, State horticultural society of—Entomology, Committee on. See Murtfeldt, M. E. Report . . . . .	59
Struct. & life-hist. of cockroach . . . . .	284	Mocsáry, Sándor.	
Michael, A. D.		Literatura hymenopt. . . . .	150
Brit. Oribatidæ . . . . .	468	Studia synonymica . . . . .	152
Brit. Tyroglyphidæ . . . . .	469	Monogr. chrysididarum . . . . .	168
Hypopus question . . . . .	469	Moggridge, J. T. Harvesting ants . . . . .	171
Notes on life-hist. of Tyroglyphidæ . . . . .	469	Mohnike, O. G. J.	
Observ. on anat. of Uropoda krameri . . . . .	468	Cetoniden der Philippinischen Inseln . . . . .	222
On parasitic Acari . . . . .	464	Uebers. cetoniden der Sunda-Inseln . . . . .	222
Oribatidæ . . . . .	468	Mohr, Carl. Die insektengifte . . . . .	76
Researches into life-hist. of Glyciphagus . . . . .	469	Moitessier, A., joint author. See Lichtenstein, Jules. Applic. de l'entomol. á la méd. légale . . . . .	24
Mik, Josef.		Mokrzecky, S. A. See Mokrzetskil, S. A. . . . .	391
Artrechte von <i>Tipula oleracea</i> & <i>T. paludosa</i> . . . . .	259	Mokrzetskil, S. A.	
Beitrag zur biol. einiger dipt. . . . .	241	Anwendung des chlorbaryum . . . . .	76
Cecidomyia beekiana . . . . .	252	Biol. de la <i>Tapinostola muscolosa</i> . . . . .	341
Dipt. fauna von Obladis . . . . .	246	Geschlechts-entw. der <i>Schizoneura lanigera</i> . . . . .	391
Dipterol. bemerkungen . . . . .	242	Хлебная черепашка въ Крыму. ( <i>Eurygaster maurus</i> ) . . . . .	372
Einige dipterol. bemerkungen . . . . .	242	Molineux, A. Lucerne pest . . . . .	440
Fünf neue österr. dipt. . . . .	246	Die monatlich-herausgegebenen insectenbelustigung. See Rösel von Rosenhof, A. J. . . . .	15
See also Dziedzicki, H. A. Mik zur antwort . . . . .	259	Monell, Joseph, joint author. See Riley, C. V. Aphididæ of U. S. . . . .	392
Milan. Congrès séricicole international, 1876. See Congrès séricicole international. Milan, 1876 . . . . .	115	Monestier, Charles. Destr. du phyllox. par les gaz . . . . .	408
Millardet, Alexis.		Moniez, R. L.	
Altérations prod. par le phylloxéra . . . . .	407	Champign. par. du <i>Lecanium hesperidum</i> . . . . .	36
Vignes d'origine amér. . . . .	407	Chenille du <i>Neuronia popularis</i> . . . . .	341
See also Paris, Acad. des sci. Com'n du phyllox . . . . .	409	Contrib. á l'hist. nat. du <i>Tyroglyphus mycophagus</i> . . . . .	469
Miller, C. C.		Eremaeus Fockeui . . . . .	468
Bee culture . . . . .	100	Hist. nat. du <i>Tydeus molestus</i> . . . . .	464
Forty years among bees . . . . .	100	Hydrachnide marine, <i>Nautarachna asperinum</i> . . . . .	466
Year among bees . . . . .	100	L'insecte qui attaque les cèpes . . . . .	360
Millet, Mme., joint author. See Millet, P. A. Éducatons de vers á soie . . . . .	124	Notes faunistiques; <i>Disparipes bombi</i> . . . . .	468
Millet, P. A.		Notes sur les thysanoures . . . . .	439
Éducation de vers á soie . . . . .	124	Parasites nouv. du ver á soie . . . . .	133
Millière, Pierre.		Phthirus inguinalis dans les cheveux . . . . .	424
Icon. & descr. de chenilles et lépidopt. . . . .	301	Pontarachne de Banyuls-sur-mer . . . . .	466
Milne-Edwards, Henri. Rapp. rel. sériciculture . . . . .	124	Présence en Fr. du <i>Cæculus echinipes</i> . . . . .	465
Minnesota—Committee on grasshoppers. Grasshopper, or Rocky Mt. locust . . . . .	293		
Minnesota—Entomologist.			
Ann. rept. . . . .	482		
See also Whitman, Allen. Rept. on Rocky Mt. locust . . . . .	297		

	Page.		Page.
Moniez, R. L.—Continued.		Moore, Frederic.	
Pseudo-scorpion marin .....	461	Descr. of Asiatic diurn. Lepidopt.....	321
Public. récentes sur le faux parasitisme		Descr. of Asiatic noct. Lepidopt.....	334
des chernétides .....	461	Descr. of new Asiatic Lepidopt. heteroc.	334
Quest. de priorité à propos de l'Eremæus		Lepidopt. of Ceylon .....	310
Fockeui .....	468	List of Lepidopt. coll. by Hocking.....	310
Strongle de la paroi stomacale des		Monogr. of Limnaina & Euplœina.....	324
lièvres .....	469	Ophiderinæ inhab. Indian region.....	342
Tyroglyph. qui vivent aux dépens des		Sci. results of 2d Yarkand Mission.....	310
matières alim.....	469	joint author. See Horsfield, Thomas.	
Le Moniteur des soies.....	135	Lepidopt. insects in mus. of E. India	
Monnier, Denis.		co .....	299
Phyllox. dans le canton de Genève.....	408	See also	
Rapp. sur le traitement des vignes		Hewitson, W. C. Descr. of new Ind.	
phyllox.....	408	lepidopt. insects.....	309
Monnot, E. See Faune entomol. armor.		Jones, E. D. Metamorph. of Lepi-	
Coléopt .....	194	dopt .....	300
Montandon, A. L.		Moravits, August. Neue form von männ-	
Contrib. à la faune entomol. de la Rou-		chen unter den mutillen .....	173
manie .....	369	Moreno, F. Rivas. See Rivas Moreno, F.	
Deux esp. d'hémipt. hétéropt .....	369	Morgan, A. C. F. Winged-phyllox. in Por-	
Deux hémipt. nouv .....	369	tugal .....	408
Deux nouv. esp. du genre Belostoma...	377	Morgan, J. H. A.	
Hemipt. cryptocerata .....	369	Life hist. of sugar-cane borer.....	86
Hemipt. cryptocerata; Cryptocricinæ ..	378	Observ. upon Artace punctistrega.....	347
Hemipt. cryptocerata; Laccocorinæ.....	378	Morice, F. D. Descr. of spec. of Ammophila.	174
Hemipt. cryptocerata; Limnecorinæ...	378	Morikouni, Ouëkaki. Modo di allevare i	
Hemipt. cryptocerata; Notes et descr...	378	bachi da seta .....	124
Hemipt. cryptocerata; Révis. de "Lim-		Moritz, J., joint author. See Blankenhorn,	
necorinæ" .....	378	Adolph. Wurzellaus des weinstockes...	396
Hémipt. de la s. fam. des Plataspidinæ,		Morley, Claude. Ichneumonol. brit .....	164
à l'île d'Engano .....	372	Morren, Édouard. Éloge de Lacordaire...	51
Hémipt. de la s. fam. des Plataspidinæ		Morris, F. O. Hist. of Brit. butterflies .....	310
en Birmanie.....	372	Morris, J. G.	
Hémipt. de la s. fam. des Plataspidinæ		Add. observ. on ailanthus silk-worm...	109
en Océanie .....	372	Ailanthus silk-worm .....	109
Hemipt.-heteropt. Coreidæ. Notes sur		Catalogue of descr. Lepidopt. of N. A. ...	304
Vilga .....	373	Syn. of descr. Lepidopt. of N. A. ....	304
Hémipt.-hétéropt. de l'équateur; Co-		Morrison, H. K.	
reidæ .....	373	Descr. of new Noctuidæ .....	342
Hémipt.-hétéropt. nouv. du Muséum de		Notes on N. A. Lepidopt.....	342
Paris .....	369	Notes on Noctuidæ .....	342
Hémipt.-hétéropt.; liste et descr.....	369	On spec. of Calocampa .....	342
Hémipt.-hétéropt.; Ranatra .....	378	Morrison, W. K. Bee-keeping in W. I. ....	101
Hémipt.-hétéropt; Zaita .....	377	Morse, A. P.	
Hémipt. nouv. du Muséum de Paris ...	378	Researches on N. A. Acridiidae.....	293
Notes on Amer. Hemipt. Heteropt .....	370	Spharagemon .....	293
Nouv. esp. Coptosoma d'Australie.....	372	See also Biol. cent.-amer. Orthopt .....	280
Nouv. esp. Coptosoma de la faune palé-		Morse, E. S. Bubble-blowing insect.....	383
arctique .....	372	Morse, Max. Syn. of N. A. invertebrates..	438
Plataspidinæ .....	372	Möschler, H. B.	
Montenegro, Antonio, joint author. See		Beitr. zur schmetterlingsfauna von Ja-	
Azcárate, Casildo. Extinción de la lan-		maica .....	310
gosta .....	289	Lepidopteren-fauna der insel Portorico	310
Montgomery, T. H. Prelim. note on chrom-		Moscow. Société impériale des naturalistes	
atin reduction.....	372	de Moscou. Bulletin.....	482
Montillot, Louis. Les insectes nuisibles ...	69	Mosquito brigades. See Ross, Ronald.....	257
Montpascal, Villa de, comte. See Villa de		Motechalkine, T. S. Hist. somm. du rucher	101
Montpascal, comte.		Motschulsky, Victor von. Études entomol.	14
Montpellier, École nationale d'agriculture.		Moufet, Thomas, ed. See Wotton, Eduard.	
Exposé somm. des trav. sur phylloxéra ..	408	Insectorum theatrum .....	18
Montpellier. Station séricicole. Mém. et		Mouillefert, Pierre.	
doc. sur la sériciculture .....	124	État des vignes soum. au traitem.....	408
Montrouzier, A. Faune de l'île de Wood-		Nouv. expér. avec les sulfocarbonates...	408
lark .....	143	Le phylloxéra .....	408
Moore, F. W. J., ed. See Thompson, E. H.		Reconstitution du vignoble français ...	408
Handbk. to insect pests.....	73		



	Page.		Page.
Mouillefert, Pierre—Continued.		Murtfeldt, M. E.	
Résultats obtenus à Cognac avec les sulfocarbonates.....	408	Entomol. notes.....	59
Traitement des vignes phyllox. par le sulfocarb. de potassium.....	408	Insects injur. to small fruits.....	59
joint author. See Cornu, Maxime. Expér. à la Stat. vit. de Cognac.....	398	Our insect musicians.....	43
See also Paris, Acad. des sci. Com'n du phyllox.....	409	Outlines of entomol.....	14
Mueller, O. F. Fauna insect. fridrichsdalina.....	147	Plant-lice.....	391
Mühlberg, Fritz. Die blutlaus.....	391	Rept. of comm. on entomol.....	59
Müller, Albert.		Some useful insects.....	59
Auftreten der wanderheuschrecke.....	293	N., J. von. See Simony, Friedrich. Schutz dem walde.....	92
Brit. gall-insects.....	30	Nagel, W. A. Geschmacksorgan der schmetterlinge.....	43
Chinese artichoke gall.....	163	Nalepa, Alfred.	
Dispersal of non-migratory insects.....	21	Anat. der tyroglyphen.....	469
Müller, Fritz.		Beitr. zur syst. der phytopten.....	471
Epicalia acontius.....	324	Eriophyidae.....	472
Paltostoma torrentium.....	255	Gen. & spec. der Phytoptida.....	472
Über die von den trichopterenlarven verfertigten häuse.....	438	Naturgesch. der gallmilben.....	472
Müller, G. W. Südamerik. nymphalidenraupen.....	324	Neue gallmilben.....	472
Müller, Hermann.		Zur syst. der gallmilben.....	472
Alpenblumen.....	31	National bee journal.....	104
Anw. der Darwinischen lehre auf bienen.....	178	National convention for the suppression of insect pests. Proceedings.....	76
Entw. der blumenthätigkeit der insekten.....	32	National convention of farmers, gardeners, & silk culturists. Proceedings.....	482
Fertilisation of flowers.....	32	National mosquito extermination society. Bulletin.....	482
Schützende aehnlichk. einheimischer insekten.....	47	Natural history of insects.....	14
Wechselbeziehungen zwischen den blumen & den insekten.....	32	Natural history society of Toronto. See Toronto, Natural history society of.	
Müller, Johannes.		Nature biographies. See Weed, C. M.....	21
Entw. der eier bei den gespenstheuschrecken.....	43	Naturforscher-gesellschaft bei der Universität Jurjew. Lepidopt. baltica.....	311
Nervensystem der eingeweide bei den insekten.....	43	Nawa entomological laboratory, Gifu, Japan. See Insect world.....	480
Müller, Julius. Terminol. entomol.....	8	Nebraska bee-keeper.....	104
Müller, called Müller-Blumenau, Wilhelm. Einige im wasser lebende schmetterlingsraupen.....	315	Nebraska state bee-keepers' association. Ann. rept.....	104
Mulsant, M. E.		Nederlandsche entomologische vereeniging. Handelingen.....	482
Coléopt. de France.....	197, 198, 199	See also Tijdschrift voor entomologie.....	487
Punaises de France.....	370	Needham, J. G.	
Monogr. des coccinellides.....	209	Aquatic insects in N. Y. state.....	23
Spec. des coléopt. trimères sécuripalpes.....	185	Collecting dragon-flies.....	425
Münchener koleopterologische zeitschrift. Münch—Münchener entomologischer verein. Mittheilungen.....	482	Digestive epithelium of dragon-fly nymphs.....	433
Muñoz Ramos, Eugenio. See Blanchard Raphaël. Pseudo-parasitisme des myriop. chez l'homme.....	441	Dragon-flies of Ill.....	433
Munro, Æneas. Locust plague.....	293	Dragon-fly wing venation.....	434
Murcia, Estación sericícola de. Experiencias.....	124	Fruiting of blue flag.....	32
Resumen de los trabajos.....	136	New dragon-fly nymphs in the U. S. Nat. Mus.....	434
Murray, Andrew.		Nees von Esenbeck, C. G. Hymenopt. Ichneumonibus affin. monogr.....	158
Econ. entomol.....	70	Negreiros, Almada. Arthropodes du Mozambique.....	138
Extirpation of injur. insects.....	70	Nenci, Tito. I' bachi da seta.....	124
Monogr. of Nitidulariæ.....	211	Nessi, J. B., joint author. See Pinchetti, P. La soie en Europe.....	125
Metamorph. of orthopt. & hemip. insects.....	43	Nessler, Julius. Rebwurzellaus.....	408
Pediculi infesting man.....	424	Net & box.....	49
		Netherlands—Departement van binnenlandsche zaken. See Bos, J. R. Bericht über San José schildlaus.....	416
		Netherlands. Vereeniging ter bevordering der bijenteelt in Nederland. See Vereeniging ter bevordering der bijenteelt in Nederland.....	105

	Page.		Page.
Neues magazin für die liebhaber der entomologie.....	482	Newstead, Robert.	
Neumann, Joseph. Discov. in Calif. of native silk worm.....	109	Currant bud-mite.....	472
Neumann, L. G.		Monogr. of Coccidæ of Brit. isles.....	421
Acarien de la souris.....	464	Recent invest. on currant-bud mite....	472
Nouv. forme de gale sarcoptique.....	470	<i>See also</i> Ormerod, E. A. Observ. of injur. insects. Gen. index.....	483
Ricinidæ d'origine exotique.....	439	Nicéville, Lionel de.	
Ricinidæ parasites des oiseaux.....	439	Revis. of Dercas.....	328
joint author. <i>See</i> Trouessart, E. L.		joint author. <i>See</i> Marshall, G. F. L. Butterflies of India.....	320
Pou de l'otarie.....	424	Nickerl, Ottokar.	
Type nov. de sarcoptides plumicoles.....	470	Bericht ü. die schädli. insecten.....	483
Neumoegen, Berthold. Guide to Lepidoptera.....	301	Kleinschmetterlinge Böhmens.....	334
Nevins, J. B. Recent locust plagues.....	293	Nicoleano, G. N. Lutte contre le phylloxera.....	409
Nevinson, B. G. Rev. syn. list of Phanæus.....	221	Nicolet, Hercule. Recherches pour servir à l'hist. des podurelles.....	441
New England silk convention. Ann. rept.	136	Niederlausitz. Verein zur beförderung des seidenbaues. <i>See</i> Verein zur beförderung des seidenbaues in der mark Brandenburg und Niederlausitz.....	488
New Jersey—State board of agriculture. Entomol. circular.....	482	Nietner, John. Coffee tree & its enemies.....	86
New Jersey—State agricultural college experiment station. Rept. on mosquito invest.....	257	Nitsche, Heinrich, joint author. <i>See</i> Judeich, J. F. Lehrb. der mitteleurop. forst-insektenkunde.....	91
New Jersey—State agricultural experiment station. Rept. upon mosquitoes.....	257	Nitzsch, C. L. <i>See</i> Giebel, C. G. A. Insecta epizoa.....	80
New South Wales—Dept. of agriculture.		Nonotuck silk company, Florence, Mass. Silk.....	109
Cattle tick.....	467	Nooton, Mme. B. H. van. Phyllium pulcherrifolium.....	285
Entomol. bulletin.....	462	North American entomologist.....	483
Insect pest chart.....	70	North Carolina—Dept. of agriculture—Division of entomology. Entomol. circular.....	4-3
New South Wales, Entomological society of. <i>See</i> Entomological society of New South Wales.....	477	North shore improvement association. Plans for exterm. of mosquitoes.....	257
New South Wales—Legislative council—Select committee on the vine disease bill. Report.....	408	Norton, Edward.	
New York (state)—Entomologist. Report.....	483	Cat. of Amer. spec. of Tenthredo.....	161
Report on injurious & other insects....	483	Cat. of several gen. of Tenthredinidæ.....	161
New York entomological club. <i>See</i> Papilio.	484	Descr. of Mex. ants.....	171
New York entomological society. Journal.....	483	Descr. of several Tenthredinidæ.....	162
New York state agricultural society—Entomologist. <i>See</i> Fitch, Asa. Rept.....	479	Notice of Salandria.....	161
New York state museum. Mosquitos of N. Y.....	257	On genus Allantus in U. S.....	162
New Zealand—Dept. of agriculture. Phylloxera.....	409	Norway—Statsentomolog. <i>See</i> Schøyen, W. M. Beretning om skadeinsekter.....	485
New Zealand—General crown lands dept. <i>Icerya purchasi</i> .....	420	Notes for observations of injurious insects..	70
New Zealand—Legislative council—Joint codlin-moth committee. Rept.....	356	Notes upon additions to museum of the South Australian public library, museum, & art gallery.....	54
Newell, Wilmon.		Notice sur les travaux scientifiques de M. Paul Marchal.....	6
Fumigation of nursery stock.....	79	Noualhier, Maurice. Hémipt. gymnocérites récoltés au Sénégal.....	370
N. A. spec. of Diaspidiotus & Hemiberlesia.....	420	Nouveau guide de l'amateur d'insectes....	49
<i>See also</i> Texas—Agricultural and mechanical college—Apiary. Report... ..	102	Novák, Ottomar. Fauna der cyprisschiefer.	25
Newman, Edward.		Novara-expedition. <i>See</i>	
Grammar of entomol.....	14	Felder, Cajetan.	
Illus. nat. hist. of Brit. moths.....	334	Lepidoptera.....	299
Sphinx vespiformis.....	336	Rhopalocera.....	319
Newman, T. G. Bees & honey.....	101	Redtenbacher, Ludwig. Coleopteren..	200
Newport, George.		Saussure, Henri de. Hymenoptera....	159
Nat. hist. of glowworm.....	215	Schiner, J. R. Diptera.....	248
Observ. on <i>Athalia centifolia</i> .....	161	Nowicki, Maximilian. Beob. über der landw. schädli. thiere.....	70
Respiration of insects.....	43	Nuñez Ortega, A. Cultivo de la seda en México.....	124

	Page.		Page.
Nüsslin, Otto. Leitfaden der forstinsektenkunde .....	91	Ontario—Commission of enquiry concerning the operation of the San Jose scale act, 1899. Report .....	421
Nysten, P. H. Maladies des vers à soie.....	138	Ontario—Dept. of agriculture. Treatment of San Jose scale.....	421
Oberthür, René. Les astathes.....	224	Ontario, Entomological society of. Ann. Rept.....	483
Obst, P. Syn. Anthia.....	205	Ontario—Inspector of fumigation appliances. Report .....	483
Ochsenheimer, Ferdinand. Schmetterlinge von Europa .....	311	Ontario—Inspector of San Jose scale. Report.....	483
O'Connor, J. E. Note on lac .....	421	Onuki, S. See Kuwana, S. I. San Jose scale in Japan.....	419
O'Connor, J. F. X. Facts about bookworms. ....	93	Opuscula entomologica. See Thomson, C. G.	17
Odiar, Auguste. Compos. chim. des parties cornées des insectes.....	43	Orbigny, Alcide Dessalines d'. See Blanchard, Émile. Insectes de l'Amér. mérid.	139
Oestlund, O. W.		Orbigny, H. d'. Onthophagus .....	221
List of Aphididæ of Minn.....	391	Ord, George.	
Reproduction of limbs of insects.....	43	Mem. of Thomas Say.....	51
Synopsis of Aphididæ of Minn.....	391	See also Say, Thomas. Complete writings.....	141
Ohlsen, Carlo. L'ape e l' apicoltura.....	101	Ormerod, E. A.	
Olivier, A. G. Entomologie .....	185	Autobiog. & correspondence .....	51
See also Encyclopédie méthodique.....	7	Effects of weather on insects.....	54
Olivier, Ernest.		Handbk. of insects injur. to fruits.....	86
Cat. des lampyrides.....	215	Hessian fly in G. Brit.....	252
Cat. syn. de "Luciola" .....	215	Hessian fly in N. Z .....	252
Chrysomèle des pommes de terre.....	226	Hessian fly. Rept. on insects injur. to wheat.....	252
Coléopt. lampyrides à Dardjilling.....	215	Injur. insects .....	70
Coléopt. lampyrides rec. aux environs de Tokio.....	215	Insect prevention.....	70
Descr. d'une nouv. esp. de lampyride .....	215	Lecture on injur. insects .....	70
Descr. de deux esp. du genre Luciola .....	216	Lecture on turnip fly.....	227
Descr. de nouv. esp. de lampyrides.....	216	Lecture on wireworm .....	213
Doryphora decemlineata .....	227	Manual of injur. insects .....	70
Faune de l'Allier .....	147	Notes on Austral. bug .....	421
Lampyrides algériens .....	216	Notes on injur. insects. Forest fly.....	275
Lampyrides capt. au Paraguay.....	216	Notes on "licked beef" .....	271
Lampyrides des Antilles .....	216	Notes on ox warble fly .....	272
Lampyrides rapportés de Birmanie .....	216	Observ. of injur. insects .....	483
Lampyrides rapportés des Îles Batu .....	216	Observ. on warble fly.....	272
Lampyrides typ. du Muséum.....	216	Paris green .....	76
Nouvelle esp. lampyride.....	216	Prevention of insect injury.....	70
Révis. des coléopt. lampyrides des Antilles.....	216	Rept. on attacks of diamond-back moth .....	360
See also, for bibliography, Yves, Aimé.		Some observ. on Cæstridæ .....	272
Notice sur les ouvrages.....	7	Text-bk. of agric. entom.....	70
Olliff, A. S.		Warbles in hides .....	272
Australian butterflies .....	321	Ormerod, E. L. Brit. social wasps .....	175
Australian entomophytes .....	37	Ortega, A. Nuñez. See Nuñez Ortega, A.	
Bronzy orange bug .....	372	Osborn, Herbert.	
Codling moth .....	357	Add. to lists of Hemipt. of Ia .....	365
Entomol. notes .....	59	Biol. notes on Ia. insects.....	60
Insect friends & foes .....	209	Chinch bug in Ia .....	374
Insect pests. Maize moth.....	342	Contrib. to hemipt. fauna of Ia.....	365
Life hist. of 9 Austral. Lepidopt. ....	311	Entomol. rept.....	60
New aphanipterous insect from N. S. W.	275	Entomol. work in exper. stations .....	54
Notes on Zelotypia Stacyi .....	362	Genus Scaphoideus.....	384
Pielus from Blue Mountains.....	362	Hessian fly in U. S.....	252
Rhopaloc. fr. Mt. Bellenden-Ker .....	321	Insects affecting domestic animals.....	80
Some Australian weevils .....	234	Mite infesting mushrooms.....	469
Spec. of moth (Epicrocis terebrans) .....	354	Notes on Aphididæ.....	391
Visit to Clarence River distr .....	86	Notes on Coccidæ in Ia.....	421
joint author. See		Notes on distrib. of Hemipt.....	364
Cobb, C. A. Insect-larva eating rust.	249	Notes on S. A. Hemipt.-Heteropt.....	370
Etheridge, Robert. Mesozoic insects of N. S. W.....	25	Observ. on Cicadidæ of Ia.....	381
See also, for biographical sketch, Guthrie, F. B. A. S. Olliff.....	51	Papers on Ia. insects.....	60
Ongerth, Michael. Treatise on insect pest.	59		
Ontario, Bee-keepers' association of the Province of. Ann. rept.....	105		

Osborn, Herbert—Continued.	Page.	Packard, A. S.—Continued.	Page.
Pediculi & Mallophaga.....	424	Hessian fly.....	252
Plant lice infesting grass roots.....	392	How to collect insects.....	49
Rept. upon insects in Ia.....	60	Hymenopt. & lepidopt. insects. coll. by exped. to S. A.....	140
Rev. of N. A. Anthysamus.....	384	Ichneumon parasites of butterflies.....	164
Studies of N. A. Jassoidea.....	384	Insect fauna of Mt. Washington.....	22
<i>See also</i> Iowa state horticultural society.		Insects coll. on Penobscot & Alleguash rivers.....	140
Entomol. papers.....	58	Insects injur. to trees.....	91
Osburn, W. Cottonwood leaf beetle.....	227	Invert. cave fauna of Ky.....	23
Osten Sacken, K. R. R.		Larva of Lagoa.....	351
Add. notes in explan. of bugonia-lore..	265	Legs in caterpillar of Lagoa.....	351
Cat. of descr. Dipt. of N. A.....	244	Life hist. of certain moths.....	334
Enum. of Dipt. of Malay Arch.....	246	Life hist. of Drepana arcuata.....	348
List of Leptidæ, Mydaldæ, & Dasypogo- nina.....	260	Life hist. of geometrid moths.....	350
List of N. A. Syrphidæ.....	265	Life hist. of moths of fam. Cochliopodi- dæ.....	351
New gen. & spec. of N. A. Tipulidæ....	259	List of insects coll. at Pebas, Equador..	311
Note on Dipt. from Guadalupe.....	247	List of insects of Labrador.....	140
On N. Z. dipt. fauna.....	247	Mayer's ontog. & phylog. of insects....	44
On N. A. spec. of Syrphus.....	265	Migrations of destructive locust.....	293
On oxen-born bees (bugonia).....	265	Monogr. of bombycine moths.....	348
Prodr. of monogr. of Tabanidæ.....	261	Monogr. of geometrid moths.....	350
Record of life work.....	52	Morphol. of myriop.....	442
Die Tanyderina.....	259	Moths entrapped by asclepiad.....	32
Verzeichn. der schriften von C. Ron- dani.....	6	New Amer. moths.....	338
Verzeichn. der schriften von H. Löw..	7	New Amer. Neurop. Thysanura & Myriap.....	425
Western Diptera.....	244	Notes on external struct. of lepidopt. larvæ.....	315
<i>ed. See</i> Loew, Hermann. Monogr. of Diptera of N. A.....	244	Notes on N. A. Phalænidæ & Pyralidæ..	350
<i>See also</i>		Notes on salt-water insects.....	23
Biologia cent.-amer. Diptera.....	245	Notes on Zyganidæ.....	338
Brauer, Friedrich. Antwort auf Os- ten-Sacken's "Crit. review".....	239	Organ of smell in arthropods.....	44
Oustalet, Émile. Respiration des libellules.	431	Our common insects.....	21
Pacific bee journal.....	105	Oviposition of longicorn pine borer....	224
Pacific states bee journal.....	105	Phylogeny of Lepidop.....	301
Packard, A. S.		5th rept. of U. S. ent. commn.....	91
Aglia tau.....	336	Rept. on destr. of evergreen forests....	91
Ancestry of insects.....	43	Revis. of Lysipetalidæ.....	447
Ann. rept. on insects of Mass.....	484	Rocky Mt. locust. The brain of the locust.....	293
Brauer's views on classif.....	14	Scolopendrella.....	439
Cat. of Phalænidæ of Calif.....	349	Structure of ovipositor.....	44
Cat. of Pyralidæ of Calif.....	354	Studies on life-hist. of bombycine moths.	348
Cave fauna of Ind.....	23	Synthetic types in insects.....	44
Chapter on mites.....	464	Syst. position of Aechipolypoda.....	25
C. V. Riley.....	52	Syst. position of Mallophaga.....	439
Critical remarks on lit. of organ of smell.....	44	Syst. position of Siphonaptera.....	275
Descr. of new Amer. Phalænidæ.....	349	Text-bk. of entomol.....	20
Descr. of N. A. Phalænidæ & Phyllo- poda.....	349	Thysanura of Essex co.....	439
Devel. of dragon-fly (Diplax).....	434	Transformations of house fly.....	274
Directions for collecting insects.....	49	Transformations of Lagoa crispata.....	351
Embryol. stud. on Diplax, Perithemis & Isotoma.....	44	Transformations of Saturniidæ.....	337
Embryol. stud. on insects.....	44	View of the lepidopt. fauna of Labrador. <i>ed. See</i> Record of American ento- mology.....	311 485
Entomol. for beginners.....	19	<i>See also</i> , for bibliography, Henshaw, Samuel. Ent. writings of Packard..	6
Entomol. rept. on army worm.....	342	Padua. Real stazione bacologica sperimen- tale.....	
Exper. on sense organs.....	44	Annuario.....	136
Explor. of Polarix expedition.....	142	Pubblicazione.....	136
Genealogy of insects.....	54	Pagenstecher, Arnold.	
Guide to study of insects.....	19, 20	Arktische lepidopt. fauna.....	311
Gynandromorphism in Lepidopt.....	301	<i>See also</i> Wytzman, P. Gen. insectorum..	18
Habits of aquatic pyralid. caterpillar....	354		
Half hours with insects.....	21		
Hauser on organs of smell.....	44		

	Page.		Page.
Pagès, Basile. Vigne française vivant malgré le phylloxé .....	409	Peckham, Mrs. Elizabeth (Gifford)—Cont'd.	
Pagézy, Jules. For biographical notice see Planchon, J. É. Notice .....	52	joint author. See	
Palisot de Beauvois, A. M. F. J. Insectes rec. en Afrique et en Amér. ....	138	Peckham, G. W.	
Pallas, P. S. Icones insectorum .....	147	Some observ. on special senses..	175
Palmén, J. A.		Spiders of fam. Attidæ from C. A. & Mex .....	459
Geschlechtsorgane bei insecten .....	44	Spiders of Homalattus group .....	459
Sexualorgane bei den insecten .....	44	Spiders of Marptusa group .....	459
Pammel, L. H. Pollination of <i>Phlomis tuberosa</i> .....	32	Spiders of sub-fam. Lyssomanæ .....	459
Pantou, J. H. Insect foes .....	70	Wasps, social & solitary .....	176
Panzer, G. W. F.		Peckham, G. W.	
Entomol. versuch hymenopt. * .....	158	Add. observ. on sexual select. in Attidæ .....	459
Faunæ insectorum germanicæ .....	158	Ant-like Attidæ .....	459
Papilio .....	484	N. A. Attidæ .....	459
Paris. Académie des sciences. Observ. sur le phylloxé .....	409	Observ. on sexual select. in Attidæ .....	459
Paris. Académie des sciences—Commission du phylloxéra.		On solitary wasps .....	177
Avis .....	409	Sight in spiders .....	455
Instruction prat .....	409	Some observ. on mental powers .....	455
Rapport .....	409	Some observ. on special senses .....	175
Rapport sur les mesures à prendre .....	409	Spiders of fam. Attidæ from C. A. & Mex .....	459
Séance du 3 déc. 1874 .....	409	Spiders of Homalattus group .....	459
Paris. Académie des sciences—Commission du phylloxéra—Comité de Cognac. Commiss. du phylloxé .....	410	Spiders of Marptusa group .....	459
Paris. Exposition universelle de 1889. See Decaux, François. Insectes nuisibles .....	64	Spiders of sub-fam. Lyssomanæ .....	459
Parker, G. H.		Wasps, social & solitary .....	176
Eyes in scorpions .....	460	Peiper, Erich. Fliegenlarven .....	242
joint author. See Fielde, A. M. Reactions of ants to vibrations .....	168	Peixotto, B. F. Phylloxera in France .....	410
Parker, M. P., illus. See Fabre, J. H. C. Insect life .....	47	Peligit, E. M. Études sur les vers à soie .....	125
Passerini, Giovanni. Aphididæ ital. ....	392	Pelikan, Anton, freiherr von Plauenwald. Getreide-verwüstungen durch Anisoplia. ....	221
Pasteur, L. Maladie des vers à soie .....	133	Peñafiel, Emiliano Lopez. See Lopez Peñafiel, Emiliano .....	122
Patterson, Robert. Insects in Shakespeare's plays .....	54	Péneau, J. See Faune entomol. armoricaine. Hémipt. ....	366
Patton, W. H.		Pennsylvania silk convention. Harrisburg, 1839. Proceedings .....	484
Bees allied to Melissodes & Anthophora. Gall-inhabiting ant. ....	171	Penny, Thomas, joint author. See Wotton, Eduard. Insectorum theatrum .....	18
Paulmier, F. C.		Percheron, A. R.	
Chromatin reduction in Hemipt. ....	44	Bibliogr. entomol. ....	7
Spermatogenesis of <i>Anasa tristis</i> . ....	373	joint author. See	
Paykull, Gustaf von.		Gory, H. L. Monogr. des cétoines..	222
Fauna suecica. Insecta .....	147	Guérin-Ménéville, F. E. Gen. des insectes .....	11
Monogr. histeroidum .....	211	Pérez, Jean. Instruct. sur le phylloxé .....	410
Peck, C. H. Black spruce .....	91	Perez, Teodosio de Stefani. See Stefani	
Peck, W. D. Insects wh. destroy branches of pear .....	235	Perez, Teodosio de .....	87
Peckham, Mrs. Elizabeth (Gifford).		Pergrande, Theodore.	
Protective resemblances in spiders .....	455	Formicidæ of Lower Calif. ....	171
joint author. See		Life hist. of 2 spec. of plant-lice .....	392
Peckham, G. W.		Mexican Formicidæ .....	171
Add. observ. on sexual select. in Attidæ .....	459	On coll. of Formicidæ from Lower Calif. ....	171
Ant-like Attidæ .....	459	Perkins, G. H.	
N. A. Attidæ .....	459	Injurious insects of Vt. ....	60
Observ. on sexual select. in Attidæ .....	459	Insects injur. to elm .....	91
On solitary wasps .....	177	Insects injur. to potato & apple .....	86
Sight in spiders .....	455	Perkins, R. C. L.	
Some observ. on mental powers. ....	455	Enemies of lantana .....	86
		Leaf-hopper of sugar cane .....	384
		See also Sharp, David. Fauna hawaiiensis .....	149
		Pérot, Francis, joint author. See Yves, Aimé. Ouvrages sci. de E. Olivier .....	7
		Perret, Adrien. Condition des soies de Lyon .....	125

Perris, Édouard.	Page.	Planchon, J. É.—Continued.	Page.
Larves de coléopt.	185	Maladie de la vigne; le phyllox.	410
Métamorph. de divers Agrius.	215	Mœurs du phyllox.	411
Perroncito, Edoardo. Studi per combattere la filloss.	410	Notes entomologiques.	91
Personnat, Camille. Ver à soie du chêne.	125	Notice sur J. Pagézy.	52
Perty, Maximilian. Delectus animal. artic.	141	Notice sur L. Bazelle & J. Lichtenstein.	52
Pestalozza, Alexandre. Vers-à-soie du Japon.	125	Nouv. observ. sur puceron de la vigne.	411
Peters, H. T. Heteroc.-raupen.	334	Phthiriose.	421
Petit, Louis. Phyllox.	410	Phyllox. (1854-78).	411
Petites nouvelles entomologiques.	484	Phyllox. Faits acquis & rev. bibliogr.	393
Petri, Karl. Monogr. des coleopt. tribus Hyperini.	199	Phyllox. Angleterre & Irlande.	411
Pettigrew, A. Handy bk. of bees.	101	Phyllox. en Europe & Amér.	411
Pfaler, C. A. von. See Sahlberg, R. F. Monogr. Geocorisarum Fenniae.	374	Phyllox. et les vignes amér.	411
Philadelphia, Entomological society of. See American entomological society, Philadelphia.	474	Phylloxéra & son action.	411
Philippi, Federico.		Plantes carnivores.	33
Cat. de los coleópt. de Chile.	199	Prem. expér. du puceron de la vigne.	411
Escrecencias de la vid.	347	Quest. phyllox. en 1876.	411
Philippi, R. A. Aufzähl. der chilenischen dipt.	247	Rapport au sujet du Cong. phyllox.	411
Phin, John. Dict. of pract. apiculture.	101	Rapport sur la maladie du phyllox.	411
Le Phylloxéra; comités d'études et de vigilance; rapports et documents.	484	See also	
Le Phylloxéra dans le canton de Neuchâtel.	410	Sabatier, Armand. J. Lichtenstein.	52
Piaget, Édouard. Pédiculines.	424	Vialla, Louis. Phylloxéra & nouv. maladie de la vigne.	414
Pic, Maurice.		Planchon, Louis. Jules Lichtenstein.	52
Anthicidæ & Pediculidæ.	230	Plateau, F. A. J. Digestion chez les insectes.	44
Anthicides afric. nouv.	230	Plauenwald, Anton Pelikan, freiherr von. See Pelikan, Anton, freiherr von Plauenwald.	
Anthicides nouv. du Mus. de Paris.	230	Pocock, R. I.	
Coléopt. cérambycides rec. au Japon.	224	New stridulating theraphosid.	456
Descr. d'un Dorcadion.	224	Some new Afric. theraphosid spiders.	457
Ptinidés & anthicides du Mus. de Paris.	218	Two Eng. millipedes.	447
See also Wytzman, P. Gen. insectorum.	18	See also Biol. cent.-amer. Chilopoda & Diplopoda.	443
Pickard-Cambridge. See Cambridge.		— Scorp., Pedipalpi & Solifugæ.	460
Pictet, A. É.		Poirson, A. S. J. C. Industrie de la soie.	125
Syn. des névropt. d'Espagne.	426	Polaillon, Henri. Moustiques.	257
Pictet, Alphonse.		Poligny, France—Commission du phylloxéra. See Coste, L. Rapport sur la maladie de la vigne.	398
Icon. de sauterelles vertes.	298	Pomerania. Verein zur beförderung des seidenbaues in der provinz Pommern. See Verein zur beförderung des seidenbaues in der provinz Pommern.	129
Locustides du Musée de Genève.	294	Popenoe, E. A.	
See also Biol. cent.-amer. Orthopt.	280	Box-elder bug.	373
Pictet, F. J.		Oviposition of wood-borer.	224
Hist. nat. des insectes névropt.	429	Web-worm.	354
Organes respiratoires des capricornes.	224	Porchinskii I. A.	
Recherches des phryganides.	438	Dipt. europ. & asiat.	247
Pierce, G. R. Winter problem in bee-keeping.	101	Lepidopt. Rossia biol.	311
Pierce, W. D. Hypermetamorphic beetles.	185	О вредных насекомых Южной России.	70
Pierre, Édouard. Oxyde de fer et phyllox.	410	Porritt, G. T., ed. See Buckler, William. Larva of Brit. butterflies.	314
Piers, Harry. Orthopt. of Nova Scotia.	282	Portchinsky, I. A. See Porchinskii, I. A.	
Piersig, G. R. Hydrachnidæ & Halacaridæ.	466	Porter, G. R. Silk manufacture.	125
Pinchetti, P. La soie en Europe.	125	Porter, J. F. Trichonympha.	428
Piper, C. V. Orchard enemies.	60	Porter, Wilmatte. See Cockerell, Mrs. Wilmatte (Porter).	
Pittier de Fábrega, H. F.		Portevin, G.	
Coleópteros.	199	Choléviens du Muséum.	207
Hemipt. heterópt.	370	Nécrophages du Muséum.	207
Planchon, Gustave. Kermès du chêne.	392	Portschinsky, J. See Porchinskii, I. A.	
Planchon, J. É.		Portugal—Commissão central anti-phylloxérica do norte.	
Conseils sur vignes att. du phyllox.	410	Relatorio ann.	484
Défense contre le phyllox.	410	Relatorio dos serv. tech.	484
Des modes d'invasion des vignobles.	410		
Essais prélim. sur destr. du phyllox.	410		
Hist. d'une larve du genre Simulium.	260		
Maladie de la vigne.	410		

	Page.		Page.
Portugal—Commissão central anti-phyloxérica do sul do reino. Relatório.....	411	Psyche.....	484
Portugal—Commissão central da phylloxera. Relatório.....	484	Pullein, Samuel. Culture of silk.....	125
Portugal—Commissão central dos serviços phylloxericos. Administração.....	484	Pungur, Gyula. Hist. nat. des gryllides de Hongrie.....	287
Portugal—Commissão de estudo e tratamento das vinhas do Douro. Relatório...	411	Putnam, J. D. Biol. notes on Coccidæ.....	421
Portugal—Ministerio das obras publicas, commercio e industria—Direcção geral de agricultura. Relatório.....	412	Galeodes pallipes.....	459
Postl, Adolfo. La pirale della vite.....	357	Puton, Auguste. Hémiptères de la faune paléarctique.....	367
Poteat, W. L. Tube-building spider.....	457	Quaedvlieg, Louis, tr. See U. S.—Dept. of agriculture. Entomol. prat.....	17
Potonié, Henry. Vegetabil. fliegenfalle....	34	Quaintance, A. L. American Aleurodida.....	415
Poujade, G. A. Nouv. esp. de lépidopt. de Madagascar.....	345	Cotton bollworm.....	342
Poulsen, M. En bremselarve.....	272	Quajat, Enrico. Bozzoli ott. con Maclura aurantiaca....	126
Poulton, E. B. Shapes & colours of Membracida.....	383	Compendio di baco.....	126
See also Buckton, G. B. Monogr. of Membracida.....	383	Elasticità della larva.....	126
Pound, C. J. Tick fever.....	467	Inf. delle acque di trattura.....	126
Powell, G. R. F. V. Melsheimer.....	52	Inf. della temperature.....	126
Practical entomologist.....	484	Inf. des eaux de filature.....	126
Prague. České společnosti entomologické. See České společnosti entomologické.....	476	Note di bachicoltura.....	126
Prague. Societas entomologica Bohemiae. See České společnosti entomologické.....	476	Nuove ricerche sesso nelle uova.....	126
Pratt, F. C., joint author. See Titus, E. S. G. Exhib. of econ. entomol. at La. purchase expos.....	62	Nuovo serimetro.....	126
Pratt, H. S. Zur kenntn. der pupiparen....	275	Prod. respiratori delle uova.....	126
Praun, Sigmund von. Abb. & beschr. europ. schmetterlinge.....	311	Rapp. tra bozzoli e seta greggia.....	126
Preobrazhenskij, P. M. Истор. обзоръ развитія шелководства въ Москвѣ.....	125	Rech. sur prod. de respir. des œufs.....	126
Preston, H. C., joint author. See Jaeger, Benedict. Life of N. A. insects.....	140	Sugli incrociamenti fra le razzi bianche.....	126
Preudhomme de Borre, Alfred. Doryphora decemlineata.....	227	Sulla diminuz. di peso.....	126
Faune entomol. d'Anvers. Coléopt....	199	joint author. See Bellati, M. Écllosion des œufs du ver-à-soie.....	112
Faune entomol. de Liège. Coléopt....	199	Verson, Enrico. Il filugello.....	130
Faune entomol. de Limbourg. Coléopt....	199	Quatrefages de Bréau, J. L. A. de. Maladies act. du ver à soie.....	133
Faune entomol. de Namur. Coléopt....	200	Nouv. rech. sur les maladies act.....	133
Faune entomol. des Flandres. Coléopt....	200	Silk-worms & seric.....	126
Faune entomol. du Brabant. Coléopt....	200	Quercy, P. Éducation du ver à soie.....	127
Faune entomol. du Hainaut. Coléopt....	200	Quinby, Moses. Mysteries of bee-keeping.....	101
Faune entomol. du Luxembourg. Coléopt....	200	New bee-keeping.....	101
Noms des libellulines.....	434	Quinn, George. Arsenical spraying.....	357
Pyrrhocoris marginatus.....	376	Codlin moth.....	357
Prevost, Louis. Calif. silk growers' manual.	109	Spraying tests.....	357
Prime notizie intorno alla fillossera delle viti.....	412	Quifones, Ivan. Tratado de las langostas.....	294
Principal writings of C. V. Riley.....	7	Quirici, Gerolamo. Allevamento del baco da seta.....	127
Procházka, W. J. Bestimmungs-tab. der europ. coleopt.....	231	Cria del gusano de seda.....	127
Progressive bee-keeper.....	105	Nuovo sist. di sfarfallamento.....	127
Prout, L. B. Coremia ferrugaria.....	342	R. Istituto tecnico scuola di setificio, Como. See Como, Italy. R. Istituto tecnico e scuola di setificio.....	115
Prout, O. F. Paris green for cotton caterpillar.....	342	R. Stazione bacologica di Padova. See Padova, Italy. R. Stazione bacologica sperimentale.....	136
Provancher, Léon. Petite faune entomol. du Canada.....	141	Radoshkovskij, O. I. Détermination des Bombus.....	179
Prussia—Ministerium für die landwirthschaftlichen angelegenheiten. Kartoffelkäfer.....	227	Hyménoptères rec. en Égypte & Abyss.....	158
		Ragonot, E. L. Classif. des pyralites.....	354
		Teigne des pommes de terre.....	360
		See also Romanoff, N. M. Mém. sur les lépidopt.....	301-302
		Rainbow, W. J. Arachn. fauna of Brit. New Guinea....	455
		Insect. & arachn. of Cumberland.....	144

Page.	Page.
Rainbow, W. J.—Continued.	
Larva of <i>Pseudoterpn</i> percomptaria....	350
New Araneidæ of N. S. W.....	455
Rambur, J. P.	
Hist. nat. des insectes. Névropt.....	425
Lépidopt. de l'Andalousie.....	312
Ramos, Eugenio Muñoz. See Muñoz Ramos, Eugenio.	
Ramos, Manuel Medina y. See Medina y Ramos, Manuel.	
Ransom, W. B. <i>Curculio</i> .....	235
Raspail, F. V. Naturgesch. des insektivkrätze.....	470
Rathke, M. H. Athmungsproz. der insekten.....	45
Rathlef, Harald von. <i>Coleoptera baltica</i> ..	200
Rathvon, S. S.	
"The drop worm".....	351
Entomol. & its relations.....	60
Entomol. essay.....	60
17-year locusts of 1872.....	381
See also, for biographical notice, Goding, F. W. Pen sketch.....	51
Ratzeburg, J. T. C.	
Charakt. der zustände der lepidopt....	301
Entomol. beitr.....	92
Entw. der hymenopt.-larven.....	152
Forst-insecten.....	92
Unters. des geschlechtszustandes bei bienen.....	178
ed. See Judeich, J. F. Mitteleurop. forstinsektenkunde.....	91
Rauschenfels, A. de, joint author. See Sartori, Luigi. Apicolt. in Ital.....	102
Ray, John. Hist. insectorum.....	14
Raynal, A. L. Phyllox. en France.....	412
Read, M. C. Destr. insects.....	60
Reale stazione di entomologia agraria di Firenze. See Florence. Reale stazione di entomologia agraria.....	479
Réaumur, R. A. F. de. Hist. des insectes..	14
Rebel, Hans.	
Lepidopt.-fauna der Balkanländer.....	312
Microlepidopt.-fauna des Canar. Arch.....	312
Microlepidopt.-fauna Oesterr.-Ung.....	312
Standfuss' stud. mit lepidopt.....	301
joint author. See Staudinger, Otto.	
Lepidopt. des palæarct. faunengebietet.....	313
See also Naturforscher-gesellschaft bei der Universität Jurjew (Dorpat).	
Lepidopt. baltica.....	311
Reblaus-gesetze.....	412
Record of American entomology.....	485
Redi, Francesco. Exper. circa generationem insectorum.....	45
"Redia".....	485
Redtenbacher, Josef.	
Dermatopt. & orthopt.....	282
Flügelgeäder der insecten.....	45
Redtenbacher, Ludwig.	
Coleopt.....	200
Fauna austriaca. Käfer.....	200
Gatt. der deutschen käfer-fauna.....	200
Reed, E. B., joint author. See Saunders, William. Colorado potato beetle.....	227
Reed, E. C. <i>Langosta</i> en Chile.....	294
Régimbart, Maurice. See Wytzman, P. Gen. insectorum.....	18
Reh, Ludwig. Schäd. der landw. durch thierfrass.....	71
Rehn, J. A. G.	
Acrid., Tettigon. & Gryllidæ coll. in n. e. Africa.....	282
Amer. mantids.....	286
Forfic., Blatt., coll. in n. e. Africa.....	282
Genus <i>Phrynotettix</i> .....	294
New genus of <i>Stenopelmatidæ</i> .....	288
Old world forfic. & blattids.....	284
Old world Mantidæ.....	286
Orthopt. from Ariz.....	279
Orthopt. from Mex.....	282
Orthopt. of Japan & Korea.....	282
Orthopt. of N. M. & w. Tex.....	279
Reich, G. C. Geogr. verb. der insecten....	22
Reichenbach, H. G. L. <i>Euprepia villica</i> ....	348
Reinhold, Alejandro, pub. Apicult. moderna.....	101
Reinlein, Fred. Gasoline torch.....	76
Reitter, Edmund.	
Bestimmungs-tab. der europ. coleopteren.	
I, III-VI.....	200-201
X.....	201
XI.....	218
XII.....	201
XVI.....	210
XXV.....	229
XXVII.....	211
XXVIII.....	217
XXIX.....	231
Bestimmungs-tab. der lucan. & coproph. lamellicornen. XXIV.....	201
Europ. nitidularien.....	211
Revis. der gattung <i>Trogosita</i> .....	212
Rhizophaginen.....	212
Tab. anal. pour déterm. des coleopt....	205
joint author. See Heyden, Lucas von.	
Cat. coleopt. Europæ.....	195
See also Erichson, W. F. Naturgesch. der insekten Deutschlands.....	194
Reizenstein, L. von. Cat. of Lepidopt. of New Orleans.....	312
Remarkable insects.....	21
Rendu, Victor. Insectes nuisibles à l'agric.	71
Rennie, James.	
Insect architecture.....	54
Insect miscellanies.....	14
Retzius, A. J. See Geer, Carl de. Gen. et spec. insectorum.....	11
Reuter, Enzo.	
<i>Aeolothrips fasciata</i> .....	423
Ålands macrolepidopt. fauna.....	312
Berätt. öfver skadeinsekt. i Finland.....	485
Bidr. till macro-lepidopt.....	312
— <i>Pyralidina</i> , <i>Tortricina</i> .....	334
<i>Bombyx lanestr</i> is.....	348
Entomol. försöksstation.....	71
Finska arterna af <i>Nola</i> .....	360
Förteckn. öfver macro-lepidopt. i Finland.....	312
Larv. till <i>Phyllotrata vittula</i> .....	227



	Page		Page.
<b>Reuter, Enzo—Continued.</b>		<b>Riley, C. V.—Continued.</b>	
Meromyza cerealium .....	267	4th rept. of U. S. ent. comm. Cotton worm .....	343
Physopus tennicornis .....	423	Furth. notes on pollination of yucca... ..	32
Tortrix paleana .....	357	Furth. notes on yucca insects .....	32
Weissährickeit der getreidearten .....	86	Furth. remarks on Pronuba yuccasella .....	32
Weissährickeit der wiesengräser .....	86	Gen. truths in applied entomol. ....	61
Zwei neue cecid .....	252	Grasshopper question .....	294
<b>Reuter, O. M.</b>		Hackberry butterflies .....	325
Acanthiidae amer .....	375	Horn fly .....	274
Ängsmasken .....	71	How to destroy insects .....	61
Geogr. verbr. der graseule .....	342	How to raise silk-worms .....	109
Hemipt. gymnocerata Europæ .....	367	Icorya or fluted scale .....	421
Monogr. anthocoridarum .....	377	Importation artif. des parasites .....	81
Skand. & Finlands acanthider .....	375	Imported elm leaf-beetle .....	227
Revue coléoptérologique .....	485	Insectes nuisibles .....	61
Revue d'entomologie .....	485	Insectes nuisibles à la vigne .....	412
Revue entomologique .....	485	Insectiv. habits of Eng. sparrow .....	35
Revue de sériciculture comparée .....	136	Insects injur. to grape vine .....	412
Revue internationale d'apiculture .....	105	Insects wh. brave Sarracenia vario-	
Revue russe d'entomologie .....	485	laris .....	32
<b>Rexès, F. G. Phyllox. détruit par la potasse .....</b>	<b>412</b>	Interrelations of plants & insects .....	32
<b>Rey, Cl.</b>		Kerosene emulsion .....	77
Larves de Coléoptères .....	185	Larval characters of blister beetles .....	231
joint author. See		Larval stages of Hirmonera .....	262
Mulsant, M. E.		List of Tineina of boreal Amer .....	361
Coléopt de France .....	197-199	Locust flights east of the Miss .....	294
Punaises de France .....	370	Locust plague .....	294
<b>Rhode Island—State bd. of agric. See South-</b>		Locusts as food for man .....	54
<b>wick, J. M. Insects injur. to apple trees.</b>	<b>87</b>	Mulberry silk-worm .....	109
<b>Ribaga, Constantino. Spec. nuove di Hy-</b>		New herbarium pest .....	350
<b>drachnidæ. ....</b>	<b>464</b>	New oak-gall .....	163
<b>Rich, A. B. Mosquito .....</b>	<b>257</b>	N. A. microgasters .....	165
<b>Ridley, H. N. Destr. of coco-nut palms....</b>	<b>86</b>	Notes on joint worms .....	167
<b>Rienzi, Mrs. Louise. Rearing silk-worms..</b>	<b>109</b>	Notes on Aphid. of U. S. ....	392
<b>Rieu, Jules. Acclimat. des vers à soie</b>		Notes on grape phyllox .....	412
<b>japonais .....</b>	<b>127</b>	Notes on yucca borer .....	329
<b>Riley, C. V.</b>		On Anisopteryx pometaria & A. æscu-	
Add. notes on Megathymus yuccæ .....	329	laria .....	350
Add. notes on army worm .....	342	On egg mass of Corydalus cornutus .....	436
Address on cotton worm .....	342	On insects assoc. with Sarracenia vario-	
Ann. rept. on insects of Mo. ....	485	laris .....	32
— Gen. index .....	485	On luminous females in Phengodini .....	216
Bemerk. über Pronuba yuccasella .....	32	On new genus in Meloidæ .....	231
Biol. notes on army worm .....	343	On new genus in Tineidæ .....	32
Cabbage plutella .....	361	On orig. habitat of Icorya purchasi .....	421
Canker worms .....	350	On oviposition of yucca moth .....	361
Chinch bug .....	374	On penetrating org. in gamasid .....	468
Coll. of insects made during Death Val-		Our shade trees .....	92
ley exped. ....	141	Outlook for econ. entomol. ....	61
Controlling sex in butterflies .....	45	Parasitic & predacious insects .....	80
Cotton worm .....	343	Parasitic Hymenopt. of St. Vincent .....	158
Cotton worm in U. S. ....	343	Periodical cicada .....	381
Cotton worm inquiry by U. S. ent. comm	343	Plum curculio .....	235
Darwin's work in entomol .....	52	Poisonous insects .....	54
Dep. of insects in U. S. nat. mus. ....	55	Potato pests .....	86
Descr. of some new Tortricidæ .....	357	Problem of hop-plant louse .....	392
Descr. of two new moths .....	345	Pupation of butterflies .....	321
Destructive locusts .....	294	Remarks on bag-worm .....	351
Directions for coll. insects .....	50	Remarks on canker-worms .....	350
Discoveries in life hist. of hop plant		Remarks on insect defoliators of shade	
louse .....	392	trees .....	92
Econ. entomol.; relations to agric .....	61	Retarded devel. in insects .....	45
Einige unereschädli. insekten .....	61	Rocky Mt. locust in Kansas .....	294
Entomol. papers .....	54	Rocky Mt. locust; its habits .....	294
Entomology .....	15	— its metamorph .....	294
Entomol. in Mo .....	141	Sci. results of eclipse exped .....	138

	Page.		Page.
Riley, C. V.—Continued.		Robinet, Stéphane.	
Silk worm.....	109	Mém. sur l'industrie de la soie.....	127
Social insects.....	47	joint author. See Millet, P. A. Éduca-	
Song notes of period. Cicada.....	381	tion de vers à soie.....	124
Summer dormancy of larva of Phyci-		Robinson, C. T., joint author. See	
odes nocteis.....	325	Grote, A. R.	
Ueber dem weinstock schädfl. insekten.	412	Lepidopt. contrib.....	299
What Dept. of Agric. has done for apic.	101	Notes on Lepidopt. of Amer.....	304
Yucca palm & yucca pollination.....	33	Rochester society of natural sciences.	
See also		Transactions.....	485
Le Conte, J. L. Rules [for entomol.		Rocky Mountain bee journal.....	105
nomencl.].....	22	The Rocky Mountain locust.....	294
Smith, J. B. Lepidopt. of boreal		Röder, Victor von. See Huguenin, Gustav.	
America.....	305	Fauna insectorum Helvetiæ. Tipulidae.	259
U. S.—Dept. of Agric.—Div. of ento-		Rodez, comte de. Éducatiions précoces de	
mol. Rept.....	487	vers à soie.....	127
Also, for biographical sketch,		Rogenhofer, A. F.	
Goode, G. B. Memorial apprecia-		Earias insulana.....	337
tion.....	51	joint author. See Felder, Cajetan, frei-	
Lichtenstein, Jules. Riley.....	51	herr von. Lepidoptera.....	299
Packard, A. S. C. V. Riley.....	52	Rogers, W. F. Syn. of Chrysomela.....	227
Also, for bibliography, Principal writ-		Rohart, F. F.	
ings.....	7	Destr. prat. du phyllox.....	413
Rippon, R. H. F. See Wytzman, P. Gen.		État de la quest. phyllox.....	413
insectorum.....	18	Rolfs, M. C. Notes on pollination of Lilia-	
Ritsemæ Cz., Coenraad.		ceæ.....	33
Natuurl. geschiedenis van de vloo.....	276	Rolfs, P. H.	
Periphyllus testudo.....	392	Injur. insects of year.....	61
Ritter, Carl. Entwicklungsgesch. der reb-		Orange insects & diseases.....	86
laus.....	412	Roman, Léopold. Manuel du magnanier..	127
Rivas Moreno, F. Plaga de langosta.....	294	Romanoff, N. M. Mém. sur les lépidop-	
Rivera, M. J.		tères.....	301-302
Bruco de las avejas.....	228	Rœmer, J. J. Gen. insectorum.....	15
Coleópt. cuyas larvas atacan al trigo...	186	Rommier, Alphonse.	
Desarrollo de alg. insectos de Chile....	141	Mém. sur le phyllox.....	413
Latrodectus formidabilis.....	457	Nouv. notes sur le phyllox.....	413
Nuevas observ. sobre coleópt. cuyas		See also Paris, Acad. des sci. Com'n du	
larvas atacan al trigo.....	186	phyllox.....	409
Rivers, J. J.		Rondani, Camillo.	
Contrib. to larval hist. of Coleopt.....	190	Dipt. aliqua in Amer. merid.....	247
Descr. of female in lampyrid.....	216	Dipt. exotica.....	242
Descr. of larva of Dasyllus davidsonii.	212	Dipterol. ital. prodromus.....	247
New gen. & spec. of Scarabæidæ.....	221	Hippoboscita italica.....	275
New spec. of Calif. Coleopt.....	221	Spec. ital. ordinis dipt. cat.....	248
New spec. of Calif. Lepidopt.....	325	Spec. europ. generis phasiæ.....	274
New spec. of Scarabæidæ.....	221	Stirpis cecidomyarum.....	253
Oaks of Berkeley.....	92	See also, for bibliography, Osten Sacken,	
Species of Amblychila.....	203	K. R. R. Verzeichniss.....	6
Rivista di bachicoltura.....	136	Rondot, Natalis. L'art de la soie.....	127
Röber, J. See Staudinger, Otto. Exot.		Roosevelt, G. W., joint author. See John-	
schmetterlinge.....	302	ston, W. E. Phylloxera.....	404
Robert, Eugène.		Root, A. I. A B C of bee culture.....	102
Observ. sur la muscardine.....	133	Root, L. C., ed. See Quinby, Moses. New	
Trav. séríc.....	127	bee-keeping.....	101
joint author. See		Roque, L. de Belfort de la. See Belfort de	
Guérin-Méneville, F. E.		la Roque, L. de.	
Industrie séríc.....	119	Rörig, G. F. C.	
Rech. sur la muscardine.....	132	Leitfaden für das stud. der insekten....	20
Robertson, Charles.		Oscinis frit & pusilla.....	267
Flowers & insects.....	33	Roeschke, Hans, joint author. See Horn,	
New or little known N. A. bees.....	178	Walther. Monogr. der paläarkt. cicin-	
N. A. bees.....	178	gelen.....	203
Some Illinois bees.....	178	Rösel von Rosenhof, A. J. Monatl.-hrsg.	
Robineau-Desvoidy, A. J. B.		insecten-belustigung.....	15
Diptères des environs de Paris.....	247	Rosenhauer, W. G.	
Essai sur les myodaires.....	242	Thiere Andalusiens.....	147
		Ueber die entw. der clythren & crypto-	
		cephalen.....	227

Page.	Page.
Rosenhof, A. J. Rôsel von. <i>See</i> Rôsel von Rosenhof, A. J.	
Roesler, Leonhard.	
Istruz, sulla Phyllox. vastatrix . . . . .	413
Phyllox. vastatrix . . . . .	413
Rosny, Léon de, tr. <i>See</i> Sira-Kawa. <i>Traité de l'éduc. des vers à soie</i> . . . . .	128
Ross, Ronald. Mosquito brigades . . . . .	257
Rossi, Pietro. Fauna etrusca . . . . .	147
Rossiter, N. L. Silk & silk worm . . . . .	110
Rostock, M. Neuropt. germ. . . . .	426
Roth, H. L. Animal parasites of sugar cane. Rothschild, Walter. Revis. of Sphingidæ . . . . .	86 336
Rothschütz, E. Illus. bienenzuchtsbetrieb. . . . .	102
Roubaud. Larves marines de dolichopodes. . . . .	264
Rouen. Laboratoire régional d'entomologie agricole. <i>See</i> France—Département de la Seine—Inférieure—Laboratoire régional d'entomologie agricole, Rouen . . . . .	79
Rouget, Auguste. Coléopt. parasites des vespides . . . . .	186
Roumania—Ministerial agriculturêi, industriei, comericiului și domeniilor—Serviciul viticol. <i>See</i> Nicolescu, G. N. Lutte contre le phyllox. . . . .	409
Rouzaud, Henri. Lépidopt. carnassier destr. de cochenilles . . . . .	343
Rovartani lapok . . . . .	485
Rovereto. Congrès séricicole international, 1872. <i>See</i> Congrès séricicole international. Rovereto, 1872 . . . . .	115
Royal agric. soc. of Eng.—Zoologist. <i>See</i> Warburton, Cecil. Ann. rept . . . . .	488
Royal Dublin society. <i>See</i> Carpenter, G. H. Injur. insects in Ireland . . . . .	476
Royal society of London—Committee for promoting natural knowledge. <i>See</i> Sharp, David, ed. Fauna hawaiiensis . . . . .	149
Rübsaamen, E. H.	
Beschr. neuer gallmücken . . . . .	253
Gallmücken des Siegerlandes . . . . .	253
Mitth. über gallmücken . . . . .	253
Über russische zoocécidien . . . . .	30
joint author. <i>See</i> Thomas, F. A. W. Cécidomyia pseudococcus . . . . .	253
Rudow Ferdinand. Zur kenntn. der psylloden Norddeutschlands . . . . .	386
Ruggieri, Luigi. Atlante anat. del baco da seta . . . . .	127
Rupertsberger, Mathias. Biol. der käfer Europas . . . . .	182
Rural bee-keeper . . . . .	105
Russia—Departament zemlediel'nâ i sel'skoj promyshlennosti. Хлѣбный жукъ (Anisoplia austriaca) . . . . .	71
Russia—Filoksernaâ kommissiâ. <i>See</i> Korf, baron. Отчетъ . . . . .	405
Russia. Societas entomologica Rossica. <i>See</i> Societas entomologica Rossica . . . . .	486
Russkij pchelovodnyj listok . . . . .	105
Russkoe entomologicheskoe obozrénie. <i>See</i> Revue russe d'entomologie . . . . .	485
Russkoe entomologicheskoe obshchestvo v S. Peterburgê. <i>See</i> Societas entomologica Rossica . . . . .	486
Ruthe, J. F. Deutsche braconiden . . . . .	165
Ryder, J. A. New genus of pauropod myriap. . . . .	447
Sabaté, J.	
Destr. du phyllox. . . . .	413
Traitement des vignes phyllox. . . . .	413
Sabatier, Armand. J. Lichtenstein . . . . .	52
Sahlberg, C. R. Periculi entomogr. . . . .	15
Sahlberg, John.	
Bidr. till Tschuktsch-Halföns insekt-fauna . . . . .	201
Coleopt. & Hemipt. på Bering-Ön . . . . .	201
Coleopt. & Hemipt. å Bering Sunds Amer. kust . . . . .	201
Sahlberg, R. F. Monogr. geocorisarum Fennia . . . . .	374
Sahut, Félix. Défense du vin . . . . .	413
Saint-Fargeau, A. L. M. Lepeletier, comte de.	
Hist. nat. des insectes hyménopt . . . . .	152
Monogr. tenthredinetarum . . . . .	162
<i>See also</i>	
Encyclopédie méthodique . . . . .	7
Saussure, Henri de. Monogr. des grêpes solitaires . . . . .	177
Saint Laurent, Charles. <i>See</i> La Vergne, L. G. L. G., comte de.	
Saintpierre, Camille, joint author. <i>See</i> Planchon, J. E. Prem. expér. puceron de la vigne . . . . .	411
Sajó, Karl.	
Ein insekten-ei . . . . .	45
Leucht-cicadenform . . . . .	382
A marokkói sáska . . . . .	282
Siebzehnjährige cikade . . . . .	382
Sommerschlaf im kreise der blattkäfer. Ueber entomol. beobacht . . . . .	45 15
A vetésfehértó bogar (Lema melanopus) . . . . .	227
Wandern der insekten . . . . .	22
Wechselfälle im leben der stechmücken . . . . .	258
Zur lebensweise von Lyda . . . . .	162
Salatiga, Java. Proefstation voor cacao. Bulletin . . . . .	485
Salisbury, William. Hints to proprietors of orchards . . . . .	87
Salmon, D. E. Cattle ticks . . . . .	468
Salvin, Osbert, joint author. <i>See</i> Godman, F. D.	
Cat. of Lepidop. coll. by S. N. Walter . . . . .	308
On Lepidop. coll. by W. A. Forbes . . . . .	308
ed. <i>See</i>	
Biol. cent.-amer. Acaridea . . . . .	462
— Araneida . . . . .	451
— Chilop. & Diplop. . . . .	443
— Coleoptera . . . . .	192-193
— Diptera . . . . .	245
— Hemipt.-Heteropt . . . . .	368
— Hemipt.-Homopt . . . . .	379
— Heterocera . . . . .	329
— Hymenoptera . . . . .	165
— Neuroptera . . . . .	425
— Orthoptera . . . . .	280
<i>See also</i> , as author, Biol. cent.-amer. Rhopalocera . . . . .	316

	Page.		Page.
Samouelle, George.		Say, Thomas—Continued.	
Collecting & preserving exot. insects ..	50	New spec. of heteropt. Hemipt.....	370
Entomol. cabinet.....	147	<i>See also</i> , for biographical notice, Ord,	
Entomol. useful compendium.....	147	George. Memoir .....	51
Sanborn, F. G.		Schäffer, G. A. W. Herrich-. <i>See</i> Herrich-	
Insects of Mass. beneficial to agric .....	61	Schäffer, G. A. W .....	51
<i>See also</i> , for biographical notice, Dick-		Schaeffer, J. C.	
inson, T. A. Memorial .....	51	Elementa entomol .....	15
Sander, L. Wanderheuschrecken .....	295	Icones insectorum .....	148
Sanders, J. G. Coccidæ of Ohio.....	421	Scharfenberg, G. L., joint author. <i>See</i> Bech-	
Sanderson, E. D.		stein, J. M. Schädl. forstinsekten .....	89
Aphides .....	392	Schatz, E., joint author. <i>See</i> Staudinger,	
Econ. value of nuthatch & chickadee..	35	Otto. Exot. schmetterlinge.....	302
Insects injur. to staple crops .....	61	Schaufuss, L. W. Monogr. der scydmaeni-	
Sänger, H. Peripatus.....	448	den .....	207
Sartori, Luigi. L' apicolt. in Italia .....	102	Schaum, H. R. <i>See</i> Erichson, W. F. Na-	
Sasaki, Chujiro. Life hist. of Ugimya seri-		turgesch. der insecten Deutschlands.....	194
caria.....	274	Schau, William.	
Saunders, Edward.		Descr. of new Amer. butterflies .....	321
Cat. Buprestidarum .....	215	Descr. of some new spec. of Heterocera.	334
Hymenopt. Aculeata of Brit. isl.....	158	Scheiber, S. H. Anat. & physiol. der östri-	
Saunders, William.		den-larven .....	272
Colorado potato beetle.....	227	Schellenberg, J. R.	
Insects injurious to fruits .....	87	Cimicum in Helvetiæ aquis et terris....	373
<i>See also</i> Le Conte, J. L. Rules for ento-		Genres des mouches dipt.....	242
mol. nomencl.....	22	Geschlecht der land- und wasserwanzen	370
Saussure, Henri de.		Helvetische entomol .....	148
Analecta entomol .....	282-283	Schenk, Otto. Die antennalen hautsinnes-	
Études sur la fam. des vespides .....	175	organe.....	45
Études sur les myriap. et les insectes ..	283	Schenkling, Carl. Taschenb. für käfer-	
Hymenopt. Fam. der vesp., spheg., etc.	159	sammeler.....	50
Hymenopt. Vespidae.....	176	Schenkling, Sigmund.	
Mélanges hyménoptérol .....	152	Clérides nouv. du Mus. d'hist. nat. de	
Monogr. des guêpes sociales .....	176	Paris .....	217
Monogr. des guêpes solitaires.....	177	Nomenclator coleopterol .....	186
Myriop. aus Madagaskar & Zanzibar ..	444	<i>See also</i> Wytzman, P. Gen. insectorum.	18
Note suppl. sur le genre Hemimerus ..	284	Scherbakow, A. Bemerk. über apterygo-	
Notice morphol. sur les gryllotalpiens..	287	genea .....	440
Orthopt. (Madagascar).....	283	Schilde, J. G. Schach dem Darwinismus..	302
Orthopt. de l'Amér. moyenne .....	283	Schilling, Heinrich. Nützliche gartenin-	
Orthopt. nova amer .....	283	sekten .....	71
Orthoptères. (Turkestan).....	283	Schilsky, Julius. Käfer Deutschlands....	201
Prodr. CEdipodiorum .....	295	Schimper, A. F. W. Wechselbeziehungen	
Revis. des hétérogamiens.....	284	zw. pflanzen & arnisen .....	171
Revis. des panesthiens.....	285	Schiner, J. R.	
Revis. des périsphæriens .....	285	Cat. syst. dipt. Europæ .....	248
Spicilegia entomol. genavensia.....	284	Diptera (Novara exped.) .....	248
Syn. des mantides amér .....	286	Dipterol. fragmente .....	242
Syn. of Amer. wasps .....	177	Fauna austriaca. Die fliegen .....	248
joint author. <i>See</i> Pictet, Alphonse.		Scriptores austriaci rerum dipterol....	242
Icon. de sauterelles vertes .....	293	Wiedemann's asiliden .....	262
<i>See also</i> Biol. cent.-amer. Orthoptera..	280	Schiøde, J. M. C. Metamorph. eleuthera-	
Sauvageon. <i>See</i> Dumas, J. Expér. de séri-		torum .....	186
ciculture .....	117	Schlechtendal, D. H. R. von.	
Sauvages de la Croix, P. A. B. de. L'art		Coniopteryx psociformis .....	437
d'élever les vers à soie.....	127	Gallbildungen .....	30
Savage, Henry. Gen. habits of N. E. Dyti-		Mitteleurop. phytoptocoid .....	472
scidæ .....	206	Nestbauen von Polydesmus complana-	
Savery, joint author. <i>See</i> Tupper, Mrs. E. S.		tus.....	446
Bees .....	102	Ueber einige phytoptocoid .....	472
Savigny, M. J. C. L. de.		Schmidt, F. J. Einige dem landwirthes	
Icon. des insectes de l'Égypte, Hymé-		schädl. insecten .....	71
nopt .....	159	Schmidt, Johannes. Bestimmungs-tab. der	
<i>See also</i> Krauss, H. A. Erklärung der		europ. coleopt. XIV .....	211
orthop.-tafeln J. C. Savigny's.....	282	Schmidt-Göbel, H. M.	
Say, Thomas.		Faunula coleopt. Birmanie .....	202
Compl. writings .....	141	Schädl. and nützl. insecten .....	71

	Page.		Page.
Schmiedeknecht, H. L. O.		Schultze, K. A. S. Echiniscus Creplini....	474
Apidæ Europææ.....	181	Schulz, W. A. Hymenopteren-studien....	152
Opuscula ichneumonol.....	165	Schulze, Richard. Schädlinge der korb- weide.....	87
Schneider, J. S. See Siebke, J. H. S. Enum. insect. norv.....	148	Schummel, T. E. Einheim. arten Tipula..	259
Schoch, Gustav. Fauna insect. Helvetiæ. Diptera.....	248	Schwarz, Christian. See Kleeman, C. F. C. Beytr. zur natur- u. insecten-gesch.....	12
Scholtz, H., joint author. See Gravenhorst, J. L. C. Verwandl. der schildkäfer.....	228	Schwarz, E. A. Biol. note on Euplectrus comstockii ...	167
Schönbauer, J. A. Schädli. kolumbatzzer mücken.....	260	Coleopt. of Fla.....	190
Schönfeldt, H. von. Cat. der coleopt. von Japan.....	202	Coleopt. (Harriman Alaska exped.)....	190
Schoenherr, C. J. Gen. et spec. curculionidum.....	235	Period. cicada.....	382
Martissa secunda fam. curculion.....	235	Psyllidæ (Harriman Alaska exped.) ...	386
Synonymia insectorum.....	186	Rept. on insect food of crow.....	35
Schouteden, H. Faune entomol. de l'Afrique trop. Rhynchota.....	367	joint author. See Hubbard, H. G. Coleopt. of Mich... ..	188
See also Wytzman, P. Gen. insectorum.	18	tr. See Eichhoff, W. J. Synon. of N. A. scolytid beetles.....	237
Schøyen, W. M. Bemerk. zu A. B. Frank: Die tierparas. krankh. der pfl.....	71	See also Ashmead, W. H. Insects coll. on Commander Isl.....	138
Beretning om skadeinsekter.....	485	Schweinitz, E. A. de. Chem. exam. of osage orange.....	110
Bidrag Norges hemipter- og orthopter- fauna.....	148	Schweizerische entomologische gesell- schaft. Mittheilungen.....	485
Blomsterne og insekterne.....	33	Scopoli, J. A. Entomol. carnioica.....	148
En Cossus-larves forekomst i maven ...	352	Scott, A. W. Australian Lepidopt.....	312
En trædelægger.....	352	Scott, G. S. Codlin moth.....	357
Fjeldbirkemaaleren.....	350	Scott, John, joint author. See Douglas, J. W. Cat. of Brit. Hemipt.....	366
Forsøg med "fostile".....	77	Brit. Hemipt.....	368
Fortegn. over Norges Lepidopt.....	312	Scott, W. M. Insp. & certif. of nursery stock.....	61
Fortegn. over Planipennia & Pseudo- neuropt.....	426	Legislation ag. crop pests.....	79
Gulrodfuen.....	267	Spring treatm. of San Jose scale.....	421
Den hessiske flue.....	253	Scriba, L. G., ed. See Beitr. zu der insekten- gesch.....	475
Husfuen.....	274	Scudder, S. H. Acct. of insects from tertiary rocks of Col.....	25
Den hvidbenede rosenbladhveps.....	162	Alpine Orthopt. of N. A.....	279
Hvilke foranstaltninger.....	71	Amer. tertiary Aphidæ.....	25
Insekt- og sopfordriv. midler.....	77	Antigeny.....	321
Insektenschädlinge der laub- und na- delbäume.....	92	Bibliog. of fossil insects.....	24
Larvehærjinger paa birkeskoven.....	350	Biog. notice of D. H. Storer.....	52
Om anvendelsen af insekt & sopfordriv. midler.....	77	Brief guide to commoner butterflies... ..	321
Om kjølmærken.....	213	Brief syn. of N. A. earwigs.....	279
Om myggene.....	258	Butterflies coll. by E. Palmer.....	322
Overs. over de i Norges arkt. reg. fundne Lepidopt.....	312	Butterflies of eastern U. S. & Canada... ..	321
Skadelig optræden mørke ådselbille (Silpha opaca).....	207	Butterflies & Orthopt. coll. by G. M. Dawson.....	322
Suppl. til Siebke's Enum. insectorum norge (Hymenopt.).....	159	Butterfly faunas of Eur. & N. A.....	321
Über petroleum-emulsion.....	77	Canadian fossil insects.....	25
See also Siebke, J. H. S. Enum. insect. norge. Suppl.....	148	Cat. of descr. Orthopt.....	279
Schrottky, Curt. Abelhas solitarias do Brazil.....	178	Cat. of Orthoptera of N. A.....	279
Esp. des genres Megacilissa, Caupoli- cana.....	178	Century of Orthopt.....	277
Hyménopt. nouv. de l'Amér. mérid....	159	Cockroach of the past.....	26
Neue arg. hymenopt.....	159	Contrib. to knowl. of paleozoic Arachn. ...	26
Parasites de l'Æceticus platensis.....	167	Cosmopolitan butterfly.....	325
Schulthess-Rechberg, Anton von. Orthop- teres (Delagoa).....	283	Curious hist. of butterfly.....	325
		Descr. d'un nouv. papillon fossile.....	26
		Descr. of articulate from Tertiary beds. ...	26
		Devonian insects of New Brunswick ...	26
		Dictyoneura.....	26
		Distrib. of insects in N. H.....	141

	Page.		Page.
Scudder, S. H.—Continued.		Scudder, S. H.—Continued.	
Earliest winged insects of Amer.....	26	Revis. of <i>Melanopli</i> .....	295
Effect of glaciation .....	26	Services of E. Burgess .....	52
Entomol. libraries of U. S. ....	7	Spec. of <i>Derotmema</i> .....	295
Entomol. notes .....	55	Spec. of <i>Melanoplius</i> .....	295
Every-day butterflies.....	321	Spec. of <i>Mylacris</i> .....	28
First discov. traces of fossil insects.....	28	Spec. of <i>Pamphila</i> .....	329
Florida Orthopt. ....	279	Struct. of <i>Eumæus atala</i> .....	45
Food plants of N. E. butterflies.....	322	Struct. of <i>Euphoberia</i> .....	28
Fossil butterflies.....	26	Synom. list of butterflies of N. A. ....	322
Fossil cockroaches of N. A. ....	26	Syst. review of fossil insects.....	28
Fossil Coleopt. from Rocky Mt. tertiaryaries .....	26	Syst. revis. of some Amer. butterflies ..	322
Fossil insects coll. in 1877.....	26	Syst. übersicht der fossilen myriop.....	28
Fossil insects from Ill. ....	28	Tertiary Tipulidæ .....	28
Fossil insects of Green River shales ..	26	Trop. faunal element of our Nymphalinea .....	325
Fossil Orthopt. from Rocky Mt. tertiaryaries ..	27	Two gen. of N. A. <i>Decticina</i> .....	288
Fossil white ants of Col. ....	27	Two prin. groups of <i>Urbicolæ</i> .....	329
Fragm. of anatomy of diurnal Lepidopt. ....	322	Two types of carbonif. <i>Myriap</i> .....	28
Gen. of N. A. <i>Melanopli</i> .....	295	Winged insects fr. paleont. point of view.....	28
Genus <i>Colias</i> in N. A. ....	328	Zool. relations of fossil neuropt. insects ed. See Harris, T. W. Entomol. correspondence .....	51
Guide to N. A. Orthopt .....	279	See also, for bibliography, Dimmock, George. Writings of Scudder.....	5
Hist. sketch of gen. names for butterflies.....	22	Seaman, W. H. Luminous organs of insects ..	45
Illus. of carbonif. <i>Anthracomarti</i> & <i>Pedipalpi</i> .....	27	Sedgwick, Adam. <i>Peripatus</i> .....	448
Insect fauna of R. I. coal field.....	27	Segvelt, Edm. van, joint author. See Preudhomme de Borre, Alfred. <i>Matér. pour la faune entomol. d'Anvers</i> .....	199
Insects of tertiary beds at Quesnel.....	27	Seidlitz, Georg.	
Insects of triassic beds at Fairplay .....	27	Bestimmungs-tab. der <i>Dytiscidæ</i> & <i>Gyrinidæ</i> .....	206
Introd. of <i>Pieris rapæ</i> .....	328	See also Erichson, W. F. <i>Naturgesch. der insecten Deutschlands</i> .....	194
Life of a butterfly .....	322	Seine-Inférieure, Département de la. See France—Département de la Seine-Inférieure.....	79
List of butterflies of N. E. ....	322	Selvatico, S. <i>L'aorta della farfalla del bom-bice</i> .....	127
List of Orthopt. coll. in Colorado, 1875. ....	279	Selys-Longchamps, M. E.	
See his Brief syn. of N. A. earwigs .....	295	Add. à notices sur les libellulidées .....	434
List of Orthopt. coll. in western U. S. ....	280	Cat. des lépidopt. de la Belg. ....	313
Materials for monogr. of N. A. Orthopt. ....	277	De la chasse des névroptères.....	50
Need of change in study of N. A. Orthopt. ....	27	Descr. de deux nouv. esp. d' <i>Eshna</i> .....	434
New carbonif. <i>Myriap</i> .....	27	Énum. des insectes lépidopt. de la Belg. ....	313
New fossil cockroaches .....	27	Énum. des libellulidées de la Belg. ....	434
New types of cockroaches from carbonif. depos .....	27	Instruct. sur la chasse des névropt .....	50
N. A. <i>Ceuthophili</i> .....	288	Liste des libellules d'Europe .....	434
Note on spec. of <i>Glaucoopsyche</i> .....	327	Monogr. des caloptérygines .....	434
Notes on mesozoic cockroaches.....	27	Monogr. des gomphines .....	434
Notes on some Odonata from White Mts. ....	434	Nouv. add. aux libellulidées de la Belg. ....	435
Notes on stridulation of Orthopt .....	277	Nouvelles libellulidées d'Europe.....	435
Notes upon Odonata from Isle of Pines.....	434	Odonates rec. à Madagascar.....	435
Notice of coll. of butterflies made by A. S. Packard, 1875.....	322	Sauterelle voyageuse en Belg .....	295
Notice of some N. A. spec. of <i>Pieris</i> .....	328	Synopsis des agrionines .....	435
Oldest known insect-larva .....	27	Synopsis des caloptérygines.....	435
On asymmetry in appendages.....	45	Synopsis des gomphines.....	435
Orthopt. coll. by survey west of 100th merid .....	280	See also Nouveau guide de l'amateur d'insectes.....	49
Orthopt. of Galapagos isl. ....	283	Semenov, A. P.	
Orthopt. genus <i>Schistoerca</i> .....	295	Callipogon relictus .....	224
Orthopt. group <i>Scudderiæ</i> .....	288	Coleopt. gen. faunæ turan.....	202
Palæodictyoptera .....	28	De tenthredinidarum gen. novo.....	162
Physiogn. of Amer. tertiary Hemipt.....	23	Recensio melolontharum faunæ turan.....	221
Pine moth of Nantucket.....	357		
Prelim. list of butterflies of Ia.....	322		
Problems in entomol.....	55		
Remarks on insect-fauna of White Mts. ....	141		
Review of mesozoic cockroaches.....	28		
Revis. of fossorial crickets.....	287		

	Page.		Page.
Sempers, F. W. Injur. insects & insecticides.....	61	Shuckard, W. E.	
Sepp, J. C. Beschouwing der wonderen gods.....	148	Descr. of new Brit. wasp.....	177
Siquira, Eduardo. A Icerya purchasi.....	421	Essay on indig. fossorial Hymenopt.....	173
Sergent, Edmond.		joint author. See Swainson, W. E. Hist. & arrangement of insects.....	16
Lutte contre les moustiques.....	258	tr. See Burmeister, H. C. C. Manual of entomol.....	19
Moustiques & maladies infect.....	258	ed. See Spry, W. Brit. Coleopt. delineated.....	202
Sericulture & silk-reeling in Hungary.....	127	Shufeldt, R. W. Facts about wasps & bees.....	178
Serville, J. G. Audinet.		Shurtleff, C. A. Rept. on army worm.....	343
Hist. nat. des insectes. Orthopt.....	277	Siau, Antoine. Industrie séricicole.....	128
See also Encyclopédie méthodique.....	7	Sichel, Jules.	
joint author. See Amyot, C. J. B. Hist. nat. des insectes. Hémipt.....	362	Consid. zool. sur déterm. de l'espèce... See also.....	153
Seurat, L. G. Hyménopt. entomophages... La Seta.....	153 136	Nouveau guide de l'amateur d'insectes.....	49
See also Il baco.....	111	Saussure, Henri de. Hymenopt. (Novara exped.).....	159
Severin, G., joint author. See		Siebek, J. H. S.	
Lethierry, Lucien. Cat. gén. hémipt... Marshall, W. S. Anat. of Ranatra fusca.....	363 378	Enum. insect. norv.....	148
Sganzin. See Boisduval, J. A. Faune entomol. de Madagascar.....	306	Siebold, C. T. E. von. Parthenogen. der arthropoden.....	45
Sharp, David.		Signoret, Victor.	
Aquatic carniv. Coleopt.....	206	Du phylloxéra.....	413
Descr. new rhynchoph. Coleopt.....	285	Hémiptères (Cap Horn).....	368
Fauna hawaiiensis.....	149	Phyllox. vastatrix.....	413
Insects (Camb. nat. hist.).....	15-16	See also	
joint author. See Blackburn, Thomas. Coleopt. of Hawaiian Islands.....	193	Nouveau guide de l'amateur d'insectes.....	49
ed. See London, Entomological society of—Library. Catalogue.....	6	Thomson, James. Voyage au Gabon.....	138
See also Biol. cent. amer. Coleopt.....	192-193	Silant'ev, A. A. Монашенка (Ocneria monacha L.).....	347
Sharpe, E. M.		Silbermann, Gustave. Enum. des entomol. vivans.....	52
Two new butterflies.....	322	See also Revue entomologique.....	485
Two new moths.....	334	Silk.....	136
Shavrov, N. N.		Silk association of America.	
Добывание, обработка и условия сбыта шелка.....	128	Ann. report.....	136
Краткий очерк современного положения пчеловодства.....	102	See also Allen, Franklin. Sericulture.. Silk culture in the United States.....	110
Наставление къ замариванию коконовъ.....	128	Silk culture league of America. See Silk... Silk exhibit daily record.....	136
Основные правила выкормки шелковичныхъ червей.....	128	Silvester, F. W.	
Shelton, E. M. Treatm. of scale insects... Sheppard, Revett. Cat. insectorum in mus. meo.....	421 186	Insects observed in Hertfordshire 1883.. — 1888.....	148 148
Sherman, Franklin. See North Carolina—Agriculture Dept. of—Entomology, Division of.....	483	Silvestri, Filippo.	
Shevyrev, Ivan.		Contrib. alla conos. dei Meliponidi.....	181
Liste des esp. du genre Scolytus.....	238	Contrib. alla conos. dei termitidi.....	428
О ходах короёдовъ.....	238	Ocnogina betica.....	338
Shimer, Henry.		Simon, Eugène:	
Nature's method of controlling insects.....	72	Arachn. de France.....	450
Notes on Micropus leucopterus.....	374	Hist. nat. des araignées.....	455
On new genus in Homopt.....	380	Simony, Friedrich. Schutz dem walde.....	92
Shinkai Inokichi Kuwana. See Kuwana, S. I.		Simpson, C. B.	
Shipley, A. E.		Codling moth.....	357
Attempt to revise "Linguatulidæ".....	474	Control of codling moth.....	357
Lethrus cephalotes.....	186	Report on codling-moth invest.....	357
Orange scale in Cyprus.....	422	Yellow-winged locust.....	295
Rept. on beetles destr. to rice crops.....	227	Sinclair, F. G. Myriapoda. (Camb. nat. hist.).....	442
		Sira-Kawa. Educ. des vers à soie au Japon.....	128
		Sirand. Maladie des vers à soie.....	133

	Page.		Page.
Sirrinc, F. A.		Smith, J. B.—Continued.	
New spec. of Pemphigus .....	392	Spec. of Eurythra .....	338
joint author. <i>See</i>		Struct. of hemipt. mouth.....	364
Osborn, Herbert.		<i>See also</i>	
Notes on Aphididæ.....	391	New Jersey. State agricultural col-	
Plant lice infesting grass roots..	392	lege experiment station. Rept.	
Skinner, Henry:		on mosquito invest.....	257
Synon. cat. of N. A. Rhopaloc.....	322	New Jersey. State agricultural ex-	
comp. <i>See</i> American entomological		periment station. Rept. upon mos-	
society, Philadelphia. Entomol. di-		quitoes .....	257
rectory .....	50	Smith, J. E. Rarer lepidopt. insects of Ga.	304
<i>See also</i>		Smith, S. I.	
Smith, J. B. Check list of Lepi-		Descr. of spec. of Samia.....	337
dopt. of boreal Amer .....	313	Orthopt. of Me.....	280
List of Lepidopt. of boreal Amer ..	305	Smith, T. P., joint author. <i>See</i> Johnston,	
Skuse, F. A. A. Descr. of new flea.....	276	W. E. Phylloxera .....	404
Slaviček, Johann. Blattwespen von Mil-		Smith, Warren. <i>See</i> Minnesota—Committee	
kov.....	162	on grasshoppers. Grasshopper.....	293
Slingerland, M. V.		Snellen, P. C. T. <i>See</i> Romanoff, N. M.	
Cornell mixture .....	77	Mém. sur les lépidopt.....	301, 302
New notions about old insects.....	61	Snellen van Vollenhoven, S. C. <i>See</i> Vollen-	
Smirenskil, A. I. Schädl. insekten von		hoven, S. C. Snellen van.	
Kazan .....	72	Snodgrass, R. E.	
Smith, Andrew. <i>See</i> Macleay, W. S. Illus.		Hypopygium of Dolichopodidæ.....	264
of Annulosa of S. Africa.....	137	<i>See also</i>	
Smith, E. A. <i>See</i> Stewart, J. T. Shade trees.	92	Banks, Nathan. Arachnida .....	450
Smith, Frederick.		Kellogg, V. L. New Mallophaga...	438
Cat. of Brit. bees.....	178	Snow, F. H.	
Cat. of Brit. fossorial Hymenopt.....	159	Cat. of Lepidopt. of Kan .....	305
Cat. of Brit. Hymenopt. Apidæ.....	181	Contagious disease among chinch-bugs.	374
Cat. of hymenopt. insects.....	153	Defense against insect enemies.....	62
Descr. of new spec. of Hymenopt.....	153	Injur. insects.....	62
List of coleopt. insects. Cucujidæ.....	210	List of Coleopt. coll. in Col.....	190
List of spec. of Brit. animals. Hymenopt.		List of Lepidopt. & Coleopt. coll. in New	
aculeata .....	159	Mexico .....	142
— Nomencl. of Hymenopt.....	159	More destr. grasshoppers of Kan .....	296
Nomencl. of coleopt. insects. Passalidæ.	219	Three noxious insects .....	335
Smith, J. B.		Società entomologica italiana.	
Cat. of spec. of Noctuidæ .....	343	Bolletino .....	486
Cat. of insects found in N. J.....	141	Statuto .....	486
Check list of Lepidopt.....	313	Societas entomologica.....	486
Contrib. to monog. of Noctuidæ. Agrotis.		Societas entomologica Bohemiæ. <i>See</i> České	
— Acronycta.....	343-4	společnosti entomologické.....	476
— Cucullia .....	344	Societas entomologica Rossica. Horæ.....	486
— Deltoid moths.....	343	Société centrale d'apiculture et d'insectolo-	
— Hadena .....	344	gie. <i>See</i>	
— Homohadena .....	344	L'apiculteur.....	103
— Leucania .....	343	Bulletin d'insectologie agricole .....	476
— Mamestra .....	344	Société d'agriculture de la Gironde. <i>See</i>	
— Tæniocampid genera .....	344	La Vergne, L. G. L. G. comte de. Maladie	
Econ. entomol. for farmer .....	61	nouv. de la vigne.....	406
Essay on classif. of insects.....	16	Société d'agriculture, sciences et industrie	
Hundred new Noctuidæ.....	344	de Lyon. <i>See</i> Lyon, France. Société	
Insect parasites of animals.....	81	d'agriculture, sciences et industrie.....	122
Insects affecting hop and cranberry....	87	Société des agriculteurs de France—Com-	
Insects injur. to cranberry cult.....	87	mission pour étudier la nouvelle maladie	
Insects of N. J.....	142	de la vigne. <i>See</i> Vialla, Louis. Phyl-	
Insects vs. horticulture.....	62	loxéra .....	414
List of Lepidopt. of boreal Amer .....	305	Société entomologique de Belgique.	
Mosquito invest. in N. J.....	258	Annales .....	486
New gen. & spec. of N. A. Noctuidæ ..	344	Mémoires.....	486
New spec. of Campometra.....	344	XXV. anniv. ....	486
N. A. spec. of Callimorpha .....	338	Société entomologique de France.	
Notes on Cydosis & Cerathosia .....	344	Annales .....	486
Notes on Lachnosterna .....	221	Bulletin .....	486
Revis. of Saturniidæ.....	337	Statuts .....	486



Page.	Page.
Société entomologique suisse. <i>See</i> Schweizerische entomologische gesellschaft.....	485
Société française d'entomologie. <i>See</i> Revue d'entomologie.....	485
Société impériale des naturalistes de Moscou. <i>See</i> Moscow. Société impériale des naturalistes de Moscou.....	482
Société impériale russe d'acclimatation des animaux et plantes. <i>See</i> Motchalkine, T. S. Hist. sommaire du rucher.....	101
Société romande d'agriculture. Bulletin.....	105
Société royale d'agriculture et de commerce de Caen. <i>See</i> Caen, Société royale d'agriculture et de commerce de.....	387
Société scientifique et médicale de l'ouest. <i>See</i> Faune entomol. armoricaine. Coléopt. — Hémipt.....	194 366
Société séricicole pour la propagation et l'amélioration de l'industrie de la soie en France. Annales.....	136
Sokolov, N. N. Насѣкомья вредящія плодovýmъ садамъ.....	202
Solms-Laubach, Hermann. Herkunft des gewöhnl. feigenbaums.....	34
Somerville, William. Farm and garden insects..... Pine beetle.....	72 238
Sommer, J. L. T. F. <i>See</i> Zincken, J. L. T. F.	
Sopp, E. J. B. Address.....	16
Sorokin, N. V. Parasite de la chenille de la betterave.....	37
Soule, C. G., joint author. <i>See</i> Eliot, I. M. Caterpillars & moths.....	332
Sousa, Sophia de. A rosca ou verme branco.....	221
Southland queen.....	105
Southwick, J. M. Insects injur. to apple-tree.....	87
Spain—Ministerio de fomento. <i>See</i> Dupuy de Lome, Enrique. La seda.....	117
Speiser, Paul, <i>See</i> Sharp, David, ed. Fauna hawaiiensis.....	149
Spence, William, joint author. <i>See</i> Kirby, William. <i>Intro.</i> to entomol.....	12
Speyer, Adolf. Geogr. verbr. derschmetterlinge Deutschl.....	313
Speyer, August, joint author. <i>See</i> Speyer, Adolph. Geogr. verbr. derschmetterlinge Deutschl.....	313
Spinola, Massimiliano. Essai monogr. sur les clérites..... Essai sur les insectes hémipt..... Insectorum Liguriaë..... Tavola sinott. degli Artroidgnati.....	217 364 148 364
Sprague, P. S. Randall's spec. Coleopt.....	186
Spruce, Richard. Notes on insect migrations.....	55
Spry, W. Brit. Coleopt. delineated.....	202
Spuler, Arnold. <i>See</i> Hofmann, Ernst. Raupen der schmetterlinge Eur.....	315
Stainton, H. T. Manual of Brit. butterflies & moths.... Nat. hist. of Tineina..... Tineina of southern Europe.....	313 361 361
Stainton, H. T.—Continued. ed. <i>See</i> Buckler, William. Larvæ of Brit. butterflies..... Clemens, Brackenridge. Tineina of N. A..... <i>See also</i> Nouveau guide de l'amateur d'insectes..... Stephens, J. F. List of spec. of Brit. animals. Lepidopt.....	314 359 49 313
Stål, Carl. Enum. hemipt..... Gen. coreidarum Europæ..... Hemipt. afric..... Hemipt. Fabriciana..... Hemipt. insularum philippinarum..... Monogr. des chrysomélides..... Observ. orthopt..... Om Colorado skalbaggen..... Recensio Orthopt..... Till kännedomon on Coreida.....	368 373 368 364 368 227 277 228 277 373
Standfuss, Max. Handb. per paläarkt. gross-schmetterlinge..... <i>See also</i> Romanoff, N. M. Mém. sur les lépidoptères.....	313 301-302
Station séricicole impériale de Kyoto. <i>See</i> Kyoto, Station séricicole impériale de.....	135
Staudinger, Otto. Cat. der lepidopt. des europ. faunengebiets..... Cat. der lepidopt. des palæarct. faunengebieten..... Exot. schmetterlinge..... <i>See also</i> Naturforscher-gesellschaft bei der Universität Jurjew (Dorpat). Lepidopt. baltica..... Romanoff, N. M. Mém. sur les lépidoptères.....	313 313 302 301-302
Stebbing, E. P. Acquis. of alar append. by Chermes abietis-piceæ..... Insects that affect forestry..... Note on casuarina insect pests..... Note on preserv. of bamboos..... Note on sandal wood boring insects..... Note on Thanasimus nigricollis..... On life-hist. of Arbelia tetraonis..... On life-hist. of Chermes abietis-piceæ..... <i>See also</i> Indian museum, Calcutta. Circulars.....	392 92 72 218 92 217 352 392 480
Stedman, J. M. San José scale in Mo..... Treatise on spraying..... Woolly-aphis of the apple.....	422 77 393
Stefani Perez, Teodosio de. Animalí danosi alla vite.....	87
Stein, J. P. E. F. Cat. Coleopt. Europæ.....	202
Stelle, J. P. All about plum curculio..... Cotton caterpillar.....	235 344
Stephens, J. F. Illus. of Brit. entomol.....	149

	Page.		Page.
Stephens, J. F.—Continued.		The Substitute.....	487
List of Brit. animals. Lepidoptera.....	313	Sulzer, J. H. Abgekürzte gesch. der insecten .....	16
Syst. cat. of Brit. insects.....	149	Summa, Hugo. Pseudo-parasitism of Diptera.....	81
Stettin, Entomologischer verein zu.		Summers, H. E.	
Jahresbericht .....	486	Gen. syn. of nearctic Pentatomidæ ....	373
<i>See also</i>		Insect keys .....	16
Entomologische zeitung.....	478	Summers, S. V. Cat. of Coleopt. from Lake Pontchartrain .....	190
Linnæa entomologica .....	481	Surface, H. A. Insects injur. to cucurb. plants .....	87
Stettiner entomologische zeitung. <i>See</i> Entomologische zeitung.....	478	Sutherland, Harvey. Book of bugs.....	21
Stevens, W. B. Brief hist. of silk culture..	110	Swainson, William.	
Stewart, J. T. Shade trees.....	92	Hist. & arrangement of insects.....	16
Stichel, H. <i>See</i> Wytzman, P. Gen. insectorum .....	18	joint author. <i>See</i> Kirby, William. Fauna boreali Amer.....	140
Stierlin, Gustave.		Swammerdam, Jan.	
Bestimmungs-tab. europ. coleopt .....	232	Book of nature .....	16
Bestimmungs-tab. europ. russelkäfer .....	202	Hist. insectorum gen .....	16
Tab. anal. pour déterm. des coléopt....	232	Sweden—Entomologiska anstalt. Berättelse .....	487
Stiles, C. W.		Sweden—Statens entomolog. Våra skadligaaste ollonborra .....	221
Pentastomum proboscideum & P. subcylindricum .....	474	Sweet, John. Destr. of caterpillars on fruit trees .....	77
joint author. <i>See</i> Salmon, D. E. Cattle ticks.....	468	Swezey, O. H.	
Stinson, J. T. Spraying.....	77	Hymenopt. parasites of Fulgoridæ....	382
Stockholm, Entomologiska föreningen i. <i>See</i>		Prelim. cat. of Fulgoridæ.....	382
Entomologisk tidskr.....	478	Swinhoe, Charles.	
Uppsatser i prakt. entomol.....	487	Cat. of eastern & Austral. Heterocera..	335
Stoffel, Michel. Maladie de la vigne .....	413	New spec. of eastern & Austral. moths..	335
Stokes, A. C. Sense-organs on legs of white ants .....	428	New spec. of oriental Lepidopt.....	302
Stoliczka, Ferdinand. <i>See</i> Moore, Frederic. Scient. results of Yarkand mission .....	310	joint author. <i>See</i> Cotes, E. C. Cat. of moths of India .....	330
Stoll, Caspar.		Switzerland—Département de l'intérieur. <i>See</i> Monnier, Denis. Phylloxéra.....	408
Naturl. afb. der cicaden & wantzen ..	364	Switzerland—Département fédéral du commerce, de l'industrie et de l'agriculture. Phylloxéra .....	413
Naturl. afb. der spoken .....	277	Switzerland. Schweizerische entomologische gesellschaft. <i>See</i> Schweizerische entomologische gesellschaft.....	485
<i>See also</i> Cramer, Pieter. Uitlandsche kapellen.....	298	Szépligeti, Gyözö.	
Stoll, Otto. <i>See</i> Biol. cent.-amer. Acaridea.	462	Ichneumonides et braconides.....	165
Stone, J. M.		<i>See also</i> Wytzman, P. Genera insectorum .....	18
Abstr. of paper on wasps .....	176	Szépligeti, Victor. <i>See</i> Szépligeti, Gyözö.	
Abstr. of paper on habits of wasps.....	176	Table of British butterflies.....	323
Storer, D. H. For biographical notice <i>see</i> Scudder, S. H. Biog. notice.....	52	Tabular view of orders & leading families of insects .....	16
Stradivari, Cesare. (Bachi da seta.....)	128	Taché, J. C. Mouche des patates .....	228
Straton, C. R., ed. & tr. <i>See</i> Adler, Hermann. 'Alternating generations.....	88	Targioni Tozzetti, Adolfo.	
Strecker, Herman.		Animali ed insetti del tabacco .....	87
Butterflies & moths in conn. with agric..	302	Cavallette in Algeria.....	296
Butterflies & moths of N. A.....	305	Consid. sull' annata entomol.....	72
Descr. of new <i>Ægiale</i> .....	305	Cronaca entomol .....	72
Hybrids betw. <i>Callimorpha lecontei</i> & <i>C. interrupto-marginata</i> .....	338	Delle forfecchie .....	278
Larva of <i>Samla gloveri</i> .....	337	Delle più recenti infezioni fillosseriche della Germania.....	414
Lepidopt. (Explor. in Dept. of Mo.)...	305	Di rapporti delle coltiv. cogli insetti ...	72
Lepidopt., indig. & exot .....	302	Esper. contro le larve di elateridi .....	213
Stretch, R. H. Illus. of Zygenidæ & Bombycidæ .....	388	Fillossera.....	414
Stroebelt, Oscar. Anat. von <i>Hæmatopinus tenirostris</i> .....	424	Infezione di larve di elateridi .....	213
Sturm, Jacob.		Lepidott. parassiti dell' uva .....	303
Insecta coleoptrata .....	202	Malattia del pidocchio della vite.....	414
<i>See also</i> Hübner, Jacob. Verzeichn. bekannter schmetterlinge.....	300		
Stutterd, S., tr. <i>See</i> Dzierzon, Johann. Rational bee-keeping.....	97		

	Page.		Page.
<b>Targioni Tozzetti, Adolfo—Continued.</b>		<b>Theobald, F. V.—Continued.</b>	
Ortotteri agrari.....	278	Monogr. of Culicidæ.....	258
Parasiti del gelso.....	72	Notes on econ. zool.....	73
Più recenti infez. filloss. della Germ.....	414	Notes on needle-nosed hop bugs.....	375
Rivista di entomol. agraria.....	72	Notes upon insect pests.....	73
Spec. di cocciniglie.....	422	San Jose scale.....	422
Studii sulle cocciniglie.....	422	Tab. list of orchard "insect pests".....	77
See also Guercio, Giacomo del. Ani- mali & insetti.....	84	See also Wytzman, P., ed. Gen. insecto- rum.....	18
<b>Tarnani, I. K.</b>		<b>Thomas, Cyrus.</b>	
Anat. de Thelyphonus caudatus.....	460	Chinch bug.....	374
Insectes nuisibles dans les vergers.....	72	Descr. of new Orthopt.....	280
<b>Taschenberg, E. L.</b>		How to destroy young locust.....	296
Die der landw. schädli. insekten.....	72	Manual of econ. entomol. for Illinois..	62
Die im zool. mus. Halle aufgest. rässel- kafer.....	186	Notes on plant lice in U. S.....	393
Hymenopt. Deutschlands.....	159	Orthoptera. (Explor. in Dept. of Mo.)..	280
Insekten, tausendfüssler & spinnen.....	16	Orthopt. coll. by E. Coues.....	280
Insekten nach schaden & nutzen.....	73	Orthopt. coll. by J. D. Putnam.....	280
Prakt. insekten-kunde.....	149	Orthopt. of Illinois.....	280
Zur kenntniss Tettigonia.....	384	Report upon coll. of Orthopt. 1871-74... Syn. of Acrididæ of N. A.....	280 296
<b>Taschenberg, Otto. Die flöhe.....</b>	276	See also Illinois—State entomologist. Report.....	480
<b>Tasmania—Dept. of agriculture. See Lea, A. M. Medit. fruit fly.....</b>	85	<b>Thomas, F. A. W.</b>	
<b>Tastet, Émile. Introd. des vers à soie de la Chine.....</b>	128	Alpine mückengallen.....	253
<b>Taverner, J. W. Rept. on phyllox.....</b>	414	Beitr. zur kenntn. Alp. phytophagoecid..	472
<b>Taylor, Henry. Bee-keeper's manual.....</b>	102	Beitr. zur kenntn. der milbengallen.....	473
<b>Taylor, Thomas.</b>		Bemerk. zu Hess' Beobacht. der knop- perngallwespe.....	163
House-fly.....	274	Beobacht. über mückengallen.....	253
Naphthaline as insecticide.....	77	Beobacht. ü. phytophagoecid.....	472
Parasites in common fowl.....	470	Beschr. neuer acarococid.....	473
<b>Tchitchérine, T. S. See Chicherin, T. S.</b>		Bildung des sackes der rosenschabe.....	361
<b>Tepper, J. G. O.</b>		Blattflohkrankheit.....	386
Austral. entomogene pilze.....	37	Cecidomyia pseudococcus.....	253
Blattariæ of Australia.....	285	Dauerfaltungen der roth buchenblätter..	30
Coleopt. of Lake Callabonna.....	202	Durch psylloden erzeugte cocid.....	386
Common insects of S. Australia.....	144	Entw. gesch. phytophago-gallen.....	473
Descr. of new Blattariæ.....	283	Fenstergalle des Bergahorns.....	30
Descr. of new gen. & spec. of Locustidæ..	288	Fichtennestwickler.....	357
Descr. of new spec. of Orthopt.....	283	Lebensweise der stachelbeermilbe.....	465
Gryllacridæ & Stenopelmatidæ.....	287	Mückengallen der birkenfrüchte.....	253
Insects & insect-lore.....	17	Myelocecid. von Lonicera.....	162
List of descr. Phasmidæ.....	285	Neue deutsche cocid.....	473
List of insects in S. Austral. mus.....	17	Neuer stachelbeerfeind.....	253
List of principal papers.....	7	Phytophagoecid. von Acer campestre....	473
Note on genus of Gryllidæ.....	287	Rote stachelbeer-milbe.....	473
Notes on S. Austral. Rhopaloc.....	323	Schädigung durch Bryobia ribis.....	473
Notes on Victorian Blattariæ.....	285	Schweiz. milbengallen.....	473
Orthopt. (Elder exploring exped.).....	283	Suldener phytophagoecid.....	473
Phaneropteridæ of Australia.....	288	Ueber das heteropterocid. von Teu- crium.....	31
S. Austral. forms of Cordiceps gunnii ..	37	Ueber die gallen der birnbäume.....	31
<b>Termes taprobanes.....</b>	428	Ueber einige neue exot. cocid.....	31
<b>Texas—Agricultural and mechanical col- lege—Apiary. Report.....</b>	102	Ueber Phytoptus Duj.....	473
<b>Thaxter, Roland.</b>		Zur beziehung zwischen pilzen & gallen..	253
Entomophthoræ of U. S.....	37	Zwei hochalpin Rhopalomyia.....	263
Furth. add. to N. A. Laboulbeniaceæ.....	37	<b>Thompson, D' A. W.</b>	
New gen. & spec. of Laboulbeniaceæ.....	37	Cat. of books rel. to fertilis. of flowers..	33
New spec. of Laboulbeniaceæ.....	37	See Müller, Hermann. Fertilisa- tion of flowers.....	32
N. A. spec. of Laboulbeniaceæ.....	37	<b>Thompson, E. H. Handbook to insect pests..</b>	73
Suppl. note on N. A. Laboulbeniaceæ..	37	<b>Thomson, C. G.</b>	
<b>Theobald, F. V.</b>		Diptera. (Eugenies resa).....	242
Account of Brit. flies.....	248	Hymenopt. Scand.....	159
Apple-blossom weevil.....	235	Opuscula entomol.....	17
Hessian fly in S. Devon.....	258	Skand. Coleopt.....	202
Larch Coleophora.....	361		

Thomson, James.	Page.	Townsend, C. H. T.—Continued.	Page.
Archives entomol. ....	17	Notes on Dipt. of Baja Calif. ....	248
Classif. de la fam. des cérambycides. . .	224	Notes on Hemileuca. ....	337
Monogr. des cicindélides. ....	204	Notes on Jamaican Muscidae. ....	274
Syst. Cerambycidae. ....	224	Notes on lepidopt. larvæ. ....	315
Voyage au Gabon. ....	188	On microlepidopt. leaf-miner. ....	361
Thorell, T. T. T.		On horse flies of N. M. ....	261
Araçn. artrogastri Birmani. ....	450	On peculiar acalyptate muscid. ....	267
Araçn. di Nias. ....	451	Peach & apricot borer. ....	353
Araçn. di Pinang. ....	451	Pupa of <i>Argyrotaea cædipus</i> . ....	263
Araçn. infer. dell' Arch. Malese. ....	455	Puparium of <i>Blepharipa</i> . ....	274
Araçnæ Novæ Hollandiæ. ....	455	Scorpion parasite. ....	259
Descr. cat. of spiders of Burma. ....	455	Some larvæ on scrub oak. ....	92
Descr. di Opilioni dell' Arch. Malese. . .	461	Toyama, Kametaro. Spermatogenesis of silk-worm. ....	129
Descr. of Araçnæ coll. in Col. ....	455	Tozzetti, Adolfo Targioni. <i>See</i> Targioni	
Diagn. araneorum in Indo-Malesia. ....	455	Tozzetti, Adolfo. ....	
Due ragni esotici. ....	456	Tracy, S. M. Exper. on boll-worm. ....	345
Notice of spiders from Labrador. ....	456	Trail, J. W. H. Gall-making Hymenopt. . .	159
Notice of spiders of "Polaris" exped. . .	456	Tranquilli, G.	
Nya exot. epeirider. ....	458	Baco da seta. ....	129
Om arachn. från Spetsbergen. ....	451	Vers à soie & cocons blancs. ....	129
Om Araçnæ lobata. ....	458	Transvaal—Dept. of agriculture—Division of entomology. Leaflet. ....	487
Om Clerks orig. spindelsamling. ....	456	Treat, Mrs. Mary (Davis). ....	
Om Epeira marmorea. ....	458	Argiope riparia. ....	458
Om några arachn. från Grönland. ....	451	Chapter in hist. of ants. ....	171
On <i>Proscorpius Osbornei</i> . ....	460	Home studies in nature. ....	456
On spiders from New Caledonia. ....	456	Treatise on origin, improvement, & present state of silk manufacture. <i>See</i> Porter, G. R. ....	125
On spiders from Andaman Islands. ....	456	Treitschke, Friederich. <i>See</i> Ochseneheimer, Ferdinand. Schmetterlinge von Europa. . .	311
Opilioni nuovi dell' Arch. Malese. ....	462	Trelease, William. Further studies of yuc- cas. ....	33
Pedipalpi e scorpioni dell' Arch. Malese. .	461	Trimble, I. P. Insect enemies of fruit. ....	87
Ragni Birmani. ....	456	Trimen, Roland.	
Racconto araneorum suecicarum. ....	456	Coll. of butterflies made in Manica. ....	323
Sobre arácnidos de la Repúb. Arg. ....	451	Butterflies coll. in S. W. Africa by A. W. Eriksson. ....	323
Studi sui ragni malesi. ....	451	Trimoulet, A. H. Maladie de la vigne. ....	414
Thunberg, C. P. Coleopt. Capensia. ....	203	Trotter, Alessandro. "Cecidotheca italica". .	31
Tijdschrift voor entomologie. ....	487	Trouessart, É. L.	
Tikhomirov, A. A. Основы практ. шелководства. ....	128	<i>Acariens marins</i> . ....	466
Tinker, G. L. Bee-keeping for profit. ....	102	<i>Acariens marins des côtes de France</i> . . .	466
Tisserand, Eugène. Trav. admin. contre le phylox. ....	414	Classification des acariens. ....	464
Titus, E. S. G. Exhibit of econ. ent. at La. purchase expos. ....	62	Parasites des habitations humaines. ....	93
Titzenthaler, Franz.		Phthiriose du cuir chevelu. ....	424
Kurzgefasste anweis. ü fanggeräth- schaften. ....	50	Pou de l'otarie. ....	424
Short instr. about times of appearance. . .	50	Revue synopt. des Halacaridæ. ....	466
Tömösváry, Edmund. <i>See</i> Tömösváry, Ödön.		Type nouv. de sarcoptides plumicoles. . .	470
Tömösváry, Ödön. Kolumbaczer mücke. . .	260	joint author. <i>See</i> Toppent, Émile. Nou- veau genre d'acarien sauteur. ....	464
Toronto, Natural history society of. <i>See</i> Brodie, William.		Trybom, Filip.	
Torre, K. W. von Dalla. <i>See</i> Dalla Torre, K. W. von.		Dagfjärilar. ....	323
Toppent, Émile. Nouv. genre d'acarien sauteur. ....	464	Trollsländor (odonater). ....	435
Tos, Ermanno Giglio. <i>See</i> Giglio-Tos, Er- mano.		Tryon, Henry.	
Townsend, C. H. T.		Bees & orange blossoms. ....	38
Cat. of calyptate Muscidae. ....	274	Caterpillar plague. ....	345
Descr. of luminous larva. ....	186	Cheese mites. ....	469
Dexiid parasite of longicorn beetle. ....	258	Destr. insects liable of introd. ....	94
Insecticides. ....	77	Disease affecting orange orchards. ....	87
Insects in popular dread in N. M. ....	142	Fruitlet core-rot of pineapple. ....	87
Lycænid larva on <i>Atriplex</i> . ....	327	Grub pest of sugar cane. ....	222
Mesquite tineid. ....	361	Harvesting ants. ....	171
Note on <i>Termopsis angusticollis</i> . ....	428	Orange-piercing moths. ....	345
		Parasite of sugar-cane beetle grubs. . .	174

Tryon, Henry—Continued.	Page.	U. S.—Dept. of agriculture—Continued.	Page.
Pernicious or San José scale .....	422	Pract. entomol .....	17
Rept. on insect & fungus pests .....	73	Principal injurious insects, 1899-1908 ...	62
Scale insects .....	422	Silk culture .....	110
Sweet potato weevil .....	236	Spraying fruits .....	78
Tschitscherine, T. S. See Chicherin, T. S.		U. S.—Dept. of agriculture—Division of ento-	
Tucker, E. S. Remarks about injur. grass-		mology.	
hoppers .....	296	Bulletin .....	487
Tullberg, Tycho. Sveriges podurider .....	441	Cat. of exhib. at expos. 1893 .....	62
Tümpel, R. Geradflügler Mitteleuropas ...	283	Cat. of exhib. at expos., New Orleans..	62
Tupper, Mrs. E. S.		Circulars .....	487
Bee keeping .....	102	Condensed inform. conc. insecticides ..	78
Bees .....	102	Enum. of synopses of N. A. insects .....	7
Winter bee-keeping .....	103	Hop plant-louse .....	393
Turin—Congresso fillosserico internazio-		Insect life .....	487
nale, 1884. See Congresso fillosserico in-		Mex. & Jap. injur. insects .....	94
ternazionale. Torino, 1884.		Misc. notes .....	62
Turner, A. J. Xyloryctidæ of Queensland.	222	Report .....	487
Turner, C. H. Psychol. notes upon gallery		Repts. on damage by destr. locusts .....	296
spider .....	456	Repts. of exper. with insecticide subst..	78
Turner, Gilbert. Formicidæ of Mackay ...	171	Repts. of exper. with kerosene .....	78
Tutt, J. W.		Repts. on Rocky Mt. locust & chinch	
British Noctua .....	345	bug .....	296
Melanism in Brit. Lepidopt .....	303	Technical series .....	487
Migration & dispersal of insects .....	22	U. S.—Dept. of agriculture—Silk section.	
Nat. hist. of Brit. Lepidopt .....	314	Report .....	110
Tyrrell, J. B. Canadian ectoparasitic Sar-		U. S.—Dept. of state. See Marlatt, C. L.	
coptidæ .....	470	Useful & injur. insects .....	59
Ueber den jetzigen stand der phylloxera-		U. S.—Entomological commission.	
frage .....	414	Bulletin .....	487
Uhagón, Serafin de. Maláquidos de España	217	Destr. of young locusts .....	296
Uhler, P. R.		Nat. hist. of Rocky Mt. locust .....	296
Check-list of Hemipt. Heteropt. of		1st-5th rept .....	487
N. A. ....	370	1st ann. rept. Rocky Mt. locust .....	296
Contrib. to neuropterology .....	425	2d rept. Rocky Mt. locust .....	296
Hemipt. Heteropt. of Las Vegas Hot		3d rept. Rocky Mt. locust .....	62
Springs .....	368	Rocky Mf. locust .....	296
Hemipt. of N. Pacific exploring exped.	365	See also	
Hemipt. of the region west of the Miss-		Packard, A. S. 5th rept .....	91
issippi .....	365	Riley, C. V. 4th rept .....	343
Insects injur. to vegetation .....	62	U. S.—Patent office.	
Notices of Heteropt. in coll. of T. W.		Persian insect powder .....	78
Harris .....	370	Silk .....	110
Observ. of N. A. Capsidæ .....	375	U. S.—Treasury dept. Growth & manufac-	
Observ. of remarkable Heteropt. of		ture of silk .....	110
N. A. ....	370	U. S., Women's silk culture association of	
Observ. upon heteropt. Hemipt. of		the. See Women's silk culture association	
Lower Calif. ....	370	of the United States .....	136
Odonata of Hayti .....	435	Uppsater i praktisk entomologi .....	487
On Hemipt. coll. by E. Coues .....	365	Urech, Friedrich.	
On Hemipt. Heteropt. of Grenada .....	370	Exper. ergebnisse der schnürung .....	325
Report upon insects coll. 1875 .....	142	Farbe von insektenschuppen .....	45
Summary of Hemipt. of Japan .....	368	Farbenfelder von Pieris brassica .....	328
See also Riley, C. V. Coll. of insects		Über eigenschaften der schuppenpig-	
made during Death Valley exped. ....	141	mente einiger lepidopteren species. ...	303
Ule, E. Blumengärten der ameisen .....	171	Urrutia, Ignacio Bolivar y. See Bolivar y	
Ulke, Henry. List of beetles of D. C. ....	191	Urrutia, Ignacio.	
Underwood, L. M., ed. See Bollman, C. H.		Uruguay—Departamento de ganaderia y	
Myriap. of N. A. ....	442	agricultura. See Alvarez, Teodoro. Lan-	
Unger, Franz. Fossile insecten .....	28	gosta peregrina .....	289
U. S.—Bureau of foreign commerce. Ser-		Utah—Silk commission. Sericulture .....	111
iculture .....	110	Uzel, Heinrich.	
U. S.—Congress—House—Committee on ag-		Entw. gesch. von Campodea staphyli-	
riculture. Hearings on cotton-boll weevil.	88	nus .....	440
U. S.—Dept. of agriculture.		Monogr. der ordnung Thysanoptera ...	423
Controlling injur. insects .....	77	Studien über apterygoten insecten .....	46
Entomol. prat .....	17	Uzielli, Gustave. Sulfure de carbone .....	129

	Page.		Page.
Vachal, Joseph.		Verson, Enrico.	
Étude sur les Halictus.....	179	Afez. parasit. del filugello.....	133
Hyménopt. rapportés du Japon.....	181	Altre cellule glandulari.....	129
Van den Branden, Constant. <i>See</i> Branden, Constant van den.		Cellule glandulari ipostigmatiche.....	129
Van Duzee, E. P.		Dei segni esterni.....	129
Descr. of N. A. homopt. insects.....	380	Del filugello.....	129
Entomol. writings.....	7	Di una serie di nuovi org. escretori.....	129
List of Hemipt. of Buffalo.....	365	Evol. del tubo intestinale.....	129
Macro-lepidopt. of Buffalo.....	305	Evol. postembr. degli arti cefalici.....	129
Prelim. review of N. A. Delphacida.....	382	Filugello.....	130
Vaney, C. Larves et métamorph. des dip- tères.....	242	Formaz. delle ali.....	130
Vasco, Amedeo.		Manifestaz. rigenerative.....	130
Hyg. antimuscardinique du ver à soie..	133	Meccanismo di chiusura.....	130
Igiene anticainica del filugello.....	133	Postembr. entw. der ausführungs- gänge.....	130
Vaud, Switz. (Canton)—Département de l'agriculture et du commerce. Phyl- loxéra.....	414	Prontuario all' atlante del filugello.....	130
Vayssiére, Albert, joint author. <i>See</i> Joly, Émile. <i>Prosopistoma punctifrons</i> .....	430	Recherches sur la gattine.....	133
Vega (ship). <i>See</i> Sahlberg, John.		Spermatogen. nel Bombyx mori.....	130
Bidr. till Tschuktsch-Halföns insekt- fauna.....	201	Sull' armatura delle zampe spurie.....	130
Coleoptera & Hemiptera på Bering- Ön.....	201	Sull' ufficio della cellola gigante.....	130
Coleoptera & Hemiptera å Berings Sunds Amer. kust.....	201	Sviluppo postembr. degli org. gen.....	130
Vereeniging ter bevordering der bijenteelt in Nederland. Maandschr. voor bijen- teelt.....	105	Sviluppo postembr. degli org. sessuali nella femmina.....	348
Verein der deutscher bienenwirth. <i>See</i> Bienen zeitung.....	104	Sviluppo postembr. degli org. sessuali nel maschio.....	130
Verein für schlesische insectenkunde in Breslau. <i>See</i> Zeitschrift für entomol.....	488	Zur entw. des verdauungschanals.....	130
Verein zur beförderung des seidenbaues für die provinz Brandenburg. Jahresbericht.	487	Zur spermatogen. bei der seidenraupe..	130
Verein zur beförderung des seidenbaues in der mark Brandenburg und Niederlau- sitz.		Very, F. W., joint author. <i>See</i> Langley, S. P. Cheapest form of light.....	54
Erziehung des maulbeerbaums.....	129	Viala, Pierre, joint author. <i>See</i> Mayet, Va- léry. <i>Maladie rouge de la vigne</i> .....	465
Jahresbericht.....	488	Vialla, Louis. <i>Phylloxéra</i> .....	414
Verein zur beförderung des seidenbaues in der provinz Pommern. Statuten.....	129	Victoria, Aus.—Dept. of agriculture.	
Verhooff, C. W.		Codlin moth.....	357
Abdom. körperanhänge bei insecten...	46	Codlin moth exper.....	357
Blumen & insecten der insel Norder- ney.....	33	Papers respecting Phyllox.....	415
Neue gesetze aus der hymenopt. biol...	153	Vignon, L. A. C. <i>La soie</i> .....	131
Physiol. bedeutung des stachelappara- tes.....	46	Vilaró y Diaz, Juan. <i>Are scorpions matri- cides &amp; suicides?</i> .....	461
Segmentanhänge bei insecten.....	46	Villa, Antonio. <i>Degli insetti carniv</i> .....	73
Zur lebensgesch. der gattung Halictus.	179	Villa de Montpascal. <i>See</i> Bonafous, Mat- thieu. <i>Éduc. des vers à soie</i> .....	113
Vermorel, Victor.		Villeneuve, George, joint author. <i>See</i> John- son, W. G. <i>Medico-legal applic. of ento- mol</i> .....	24
Destruction des vers blancs.....	78	Villon, A. M. <i>La soie</i> .....	131
Pièges lumineux.....	78	Vincennes, École d'aïlanticulture annexée à la ferme impériale de. <i>See</i> <i>Revue de sé- riciculture comparée</i> .....	136
joint author. <i>See</i> Crolas. <i>Manuel pratique des sul- furages</i> .....	398	Vine, H. C. A. <i>Enemies of aphides (includ- ing a study of hyper-parasites)</i> .....	393
Gastine, G. <i>Ravages de la pyrale</i> ..	75	Vinson, Auguste. <i>Aranéides de la Réunion</i> ..	456
Vernière, P. <i>Sulfure de calcium</i> .....	414	Viret, Georges. <i>Législation &amp; jurispru- dence</i> .....	79
Vernon, W. H. <i>Cultiv. of mulberry tree</i> ...	111	Virginia—Entomologist and pathologist. Report on San José scale.....	422
Verrall, G. H. <i>British flies</i> .....	248	Virginia—State inspector for the San José scale. Report.....	438
Verrill, A. E., ed. <i>See</i> British association for the advancement of science. <i>Rev.</i> <i>rules of zool. nomencl.</i> .....	22	Vlacovich, G. P., joint author. <i>See</i> Verson, Enrico. <i>Recherches sur la gattine</i> .....	133
		Voeltzkow, A. <i>See</i> Saussure, Henri.	
		Myriapoda.....	444
		Orthoptera.....	283
		Vespidæ.....	176
		Voet, J. E. <i>Cat. syst. coleopterorum</i> .....	186
		Vogler, C. H. <i>Podurelles de la neige rouge</i> ..	441

- Vollenhoven, S. C. Snellen van. Page.  
 Faune entomol. de l'arch. Indo-Néerl. 328  
 Pinacographia 165  
 Schetsen ten gebruike bij de studie der hymenopt 153
- Wachtl, F. A.  
 Beiträge zur kenntn. der nonne 347  
 Weisstannen-triebwickler 357
- Wagner, G. S. Statistics of bee-keeping 103
- Wagner, Max. Das zaidelwesen 103
- Wailly, Alfred.  
 Silk-prod. bombyces reared in 1884. 131  
 Silk-prod. bombyces & other Lepidopt. 131
- Wakker, J. H. De bestrijding der keverlarven 37
- Walckenaer, C. A.  
 Faune parisienne, insectes 149  
 Hist. nat. des aranéides 466  
 Hist. nat. des insectes. Aptères. 17
- Walker, Francis.  
 Cat. of Dermapt. saltatoria 278  
 Cat. of heteropt. Hemipt 370, 371  
 Cat. of neuropt. insects 425  
 Char. of undescr. Hetero. 335  
 Insecta Brit. Diptera 248  
 Insecta Saundersiana 242  
 List of dipterous insects 242  
 List of homopterous insects 380  
 List of hymenopt. insects. Chalcidites. 167  
 List of lepidopt. insects 314  
 Notes on Diptera 243
- Walker, Philip.  
 Silk-culture report 111  
 See also Riley, C. V. How to raise silkworms 109
- Wallace, Alexander.  
 Culture of Japanese silkworm 131  
 Silk culture 131
- Wallace, Robert, ed. See Ormerod, E. A. Eleanor Ormerod 51
- Wallengren, H. D. J.  
 Skand. pyralider 354  
 Tvenne nya pyralider 355
- Walmsley, Thomas. Amer. species of Lampyris 217
- Walsh, B. D.  
 Descr. of N. A. Hymenopt 154  
 Fire-blight 384  
 Insects injurious to vegetation, in Illinois 63  
 List of the Pseudoneuroptera of Illinois 425  
 See also Illinois—State entomologist. Report 480
- Walsingham, T. De G.  
 Asiatic Tortricidæ 358  
 Contrib. to knowledge of Anaphe 347  
 Description of new gen. & spec. of Pyralidæ 355  
 Directions for coll. microlepidopt 50  
 Illus. of typ. spec. of Heteroc. 358  
 New gen. Agdistidæ & Pterophoridæ 361  
 New sp. of Tineidæ 361  
 On micro-lepidopt. of W. I 335  
 On moths coll. at Aden 362  
 On new sp. of Tineidæ 362  
 On N. A. Tineidæ 362
- Walsingham, T. De G.—Continued. Page.  
 Pterophoridæ of Calif. & Oregon 355  
 Revis. of W. I. micro-lepidopt 335  
 Rules for regulating nomencl. 22  
 See also Swinhoe, Charles. Cat. of eastern & Austral. Heterocera 335  
 See also, for bibliography, Durrant, J. H. List of Walsingham's separata 5
- Walter, Alfred. Morphol. der schmetterlinge 323
- Walton, A. B. See Iowa state horticultural society. Entomol. papers 58
- Wan Chü. Cultiv. of mulberry 131
- Wandolleck, Benno.  
 Fühler der cycloraphen dipterenlarven 243  
 Ist die phylogen. der aphanipt. entdeckt? 276
- Warburton, Cecil. Ann. report of zoologist 488
- Wardle, Thomas. Collection illus. of wild silks 131
- Washington, D. C.—Entomological society. Proceedings 488
- Wasmann, Eric.  
 Ameisen- und termitengäste 172  
 Ameisenfang von Theridium triste 171  
 Bemerk. über einige ameisen 172  
 Beutethiere von Polybia scutellaris 176  
 Einige neue myrmecoph. anthiciden 230  
 Formica exsecta 172  
 Haviland's Beobacht. termitophilie 205  
 Os hospedes das formigas 173
- К познавању Босанских мрва и мраволуба 172  
 Krit. verzeichn. der myrmekoph 173  
 Langlebige insecten 55  
 Lasius fuliginosus 172  
 Neue paussiden 206  
 Neue reflextheorie des ameisenlebens 172  
 Neue termitophilen 428  
 Nochmals Thoricetus Foreli als ictoparasit 209  
 Nonne 347  
 Psychisch. fähigkeiten der ameisen 172  
 Reblaus 415  
 Thoricetus Foreli als ictoparasit 209  
 Über ergatoide weibchen bei ameisen 172  
 Zum ende der lonnenplage 347  
 Zur bedeutung der palpen 46  
 Zur biol. der Lomechusa-gruppe 208  
 Zur kenntn. der bosnischen myrmekoph 172  
 Zur kenntniß der myrmekoph 173  
 Zur lebensweise von Thoricetus Foreli 209
- Waterhouse, C. O.  
 Aid to identification of insects 17  
 Cat. of Rhopal. of Austral 323  
 Descr. of new spec. of Buprestidæ 215  
 Descr. of new Coleopt. from Hainan Island 203  
 New spec. of Prionocalus 224  
 See also Biol. cent.-amer. Coleopt. 192-198
- Wattenwyl, Carl Brunner von. See Brunner von Wattenwyl, Carl.
- Weber, Ludw. Ueber missbildungen bei käfern 187

	Page.		Page.
Webster, F. M.		Weismann, August.	
Biol. effects of civiliz. on insect fauna . . . . .	142	Metamorph. of flies . . . . .	243
Brown scale on roses . . . . .	422	Studien zur descendenz-theorie . . . . .	323
Buffalo gnats . . . . .	260	Weny, Johann. tr. See Tömösváry, Ödön.	
Chinch bug . . . . .	375	Kolumbacz mücke . . . . .	260
Chinch bug & Hessian fly . . . . .	375	Wesmael, Constantin. Tent. dispos. meth.	
Food of predaceous beetles . . . . .	187	Ichneumonum Belgii . . . . .	165
Have we more than one spec. of <i>Blissus</i>	375	Western Australia—Bureau of agriculture.	
Hort. entomol . . . . .	63	Fruit fly . . . . .	88
Imported willow curculio . . . . .	235	Western bee journal . . . . .	105
Insect parasites . . . . .	81	Westhoff, Fritz. Käfer Westfalens . . . . .	203
Insects affecting cereal grains . . . . .	88	Westwood, J. O.	
Insects affecting corn crop . . . . .	88	Arcana entomol . . . . .	17
Insects affecting fall wheat . . . . .	88	Brit. butterflies & transformations . . . . .	323
Insects affecting small grains . . . . .	88	Cabinet of oriental entomol . . . . .	143
Longicorn beetle affecting nursery stock	187	Catalogue of Hemipt. in coll. of Hope . . . . .	364
Meteor. influences on Hessian fly . . . . .	254	Characters of <i>Embia</i> . . . . .	429
Observ. on Entomophthoræa . . . . .	37	Contrib. to fossil entomol . . . . .	29
Onion thrips . . . . .	423	Descr. of new exot. moths . . . . .	336
Origin of <i>Blissus leucopterus</i> . . . . .	375	Insects most injur. to cultivators . . . . .	73
Parasites & insecticides . . . . .	81	Introd. to classific. of insects . . . . .	17
Rearing plum curculio . . . . .	235	Matabele land. Entomol . . . . .	138
Rept. of Comm. on entomol . . . . .	63	Monogr. of <i>Castnia</i> . . . . .	336
Rept. on season's observ. . . . .	88	Monogr. of <i>Perga</i> . . . . .	162
Result of applying crude petroleum . . . . .	422	Observ. on two spec. of Ind. butterflies	
San José scale problem in Ohio . . . . .	422	( <i>Papilio Castor</i> & <i>P. pollux</i> ) . . . . .	327
Scale insects . . . . .	422	Observ. on <i>Uraniidæ</i> . . . . .	336
Silent partners in hort. . . . .	63	On metamorph. of insects . . . . .	46
Simulium . . . . .	260	Pear insects . . . . .	88
Some insect immigrants . . . . .	142	Report of decay in wood carvings . . . . .	218
Some insects attacking stems . . . . .	88	Revisio insectorum fam. mantidarum . . . . .	286
Studies of devel. of <i>Fidia viticida</i> . . . . .	228	Rose insects . . . . .	88
Studies of <i>Neocerata rhodophaga</i> . . . . .	254	Thesaurus entomol. oxoniensis . . . . .	17
Studies of new spec. of <i>Oberea</i> . . . . .	224	Two new spec. of <i>Acanthocerus</i> . . . . .	222
Suppression of buffalo gnats . . . . .	260	joint author. Doubleday, Edward.	
Use of arsenate of lead ag. codling moth.	78	Gen. of diurnal Lepidopt . . . . .	318
Value of nursery inspection . . . . .	63	ed. See	
Vegetal parasitism among insects . . . . .	37	Donovan, Edward.	
Weed, C. M.		Nat. hist. of insects of China . . . . .	143
Descr. of N. A. harvest spiders . . . . .	462	Nat. hist. of insects of India . . . . .	143
Descr. cat. of harvest spiders . . . . .	462	Drury, Dru. Illus. of exotic entomol . . . . .	9
Golden-eye or lace-wing fly . . . . .	436	Weygandt, Christian. Beitr. zur förderung	
Harvest spiders of N. A. . . . .	462	der bienenzucht . . . . .	103
Insects & insecticides . . . . .	63	Wheatcroft, W. G. Insects in rel. to flowers . . . . .	33
Life hist. of Amer. insects . . . . .	21	Wheeler, J. H. Invest. du phyllox. en Calif. . . . .	415
Nature biographies . . . . .	21	Wheeler, W. M.	
New Phalangium . . . . .	462	Appendages of first abdom. segment . . . . .	46
Notes on Ill. microgasters . . . . .	165	Formica fusca . . . . .	172
On autumn life-hist. of plant lice . . . . .	393	Gen. of maritime Dolichopodidæ . . . . .	264
Prelim. syn. of harvest spiders . . . . .	462	New spec. of Dolichopodidæ . . . . .	264
Sixth contrib. to knowl. of Aphididæ . . . . .	393	Two cases of insect mimicry . . . . .	47
Spraying crops . . . . .	78	Two new spec. of cecidomyid flies . . . . .	254
Striped harvest spider . . . . .	462	joint author. See Peckham, G. W. Spi-	
Ten N. E. blossoms . . . . .	21	ders of sub-fam. Lyssomanæ . . . . .	459
Weeks, A. C. See Dragon flies vs. mosqui-		See also Biol. cent.-amer. Diptera . . . . .	245
toes . . . . .	255	White, Adam.	
Weeks, H. C. Report sanitary-econ. im-		Cat. of coleopt. insects . . . . .	187
provement . . . . .	258	Insects. ( <i>Erebus</i> & <i>Terror</i> ) . . . . .	144
Weiler, Josef. Schmetterlinge des Taufere-		List of spec. Nomencl. of Anoplura . . . . .	284
thales . . . . .	314	— Nomencl. of Diptera . . . . .	248
Weir, I. R. Treatment for bot-fly . . . . .	272	— Nomencl. of Neuropt . . . . .	426
Weir, J. J. Variations in color of lepidopt.	303	Nomencl. of coleopt. insects . . . . .	187
Weise, Julius.		White, F. B. W.	
Bestimmungs-tab. der europ. coleopt. . . . .	210	On male genital armature . . . . .	323
joint author. See Heyden, Lucas von.		Report on pelagic Hemipt . . . . .	364
Cat. coleopt. Europæ . . . . .	195	Some notes on Brit. <i>Oporabia</i> . . . . .	350
See also Erichson, W. F. Naturgesch.			
der insecten Deutschlands . . . . .	194		



	Page.		Page.
White, J. E., joint author. <i>See</i> Brodie, William. Insects of Canada .....	139	Williamson, E. B. Dragonflies of Burma..	435
Whitehead, Charles.		Williamson, Hugh. On the Ephoron leu- kon .....	430
Ann. rept. of Intelligence dept .....	73	Willis, J. C., joint author. <i>See</i> Green, E. E.	
1st rept. of Agric. adviser .....	78	Instr. for coll. plants & insects .....	49
2d rept. of Agric. adviser .....	78	Williston, S. W.	
3d rept. on insects injur. to crops.....	74	Bibliogr. of N. A. dipterol.....	238
Meth. of preventing attacks of insects..	78	Contrib. to monogr. of N. A. Syrphidæ.	265
Rept. of Commissioners Hessian fly....	254	Dipt. larvæ & use as food.....	267
Rept. on Hessian fly.....	254	Dipt. parasites of butterflies.....	243
Rept. on insects injur. to crops.....	74	Fissicorn Tachinidæ.....	274
Repts. on insects injur. to hop plants..	74	Manual of N. A. Dipt.....	244
Repts. on insects injur. to root crops...	74	N. A. Conopidæ.....	266
Special rept. on diamond-back moth.....	362	Notes of N. A. Tabanidæ .....	262
<i>See also</i> Great Britain—Dept. of agricul- ture. Copies of circulars rel. to Hes- sian fly .....	250	On Apioceridæ.....	262
Whitman, Allen.		Some interesting new Dipt.....	262
Rept. on Rocky Mt. locust.....	297	Syn. of N. A. Diptera.....	244
<i>See also</i> Minnesota—Committee on grasshoppers. Grasshopper .....	298	Syn. of N. A. Syrphidæ.....	265
Wickham, H. F.		Table of fam. of Dipt.....	243
Beetles of S. Ariz.....	191	<i>See also</i>	
Cat. of Coleopt. of Col.....	191	Biol. cent.-amer. Diptera.....	245
Coleopt. of Iowa.....	191	Riley, C. V. Coll. of insects made during Death Valley exped .....	141
Coleopt. of lower Rio Grande.....	191	Wilson, Andrew. Colorado potato beetle..	228
Coll. of Ind. cave beetles .....	23	Wilson, James. Treatise on insects.....	18
Early stages of Carabidæ .....	205	Winnertz, Johan.	
Early stages of N. A. Coleopt.....	187	Beitr. zu monogr. der gallmücken .....	254
Early stages of three N. A. Coleopt.....	187	Beitr. zu monogr. der sciarinen .....	255
Habits of Amer. Cicindelidæ.....	204	Beitr. zu monogr. der pilzmücken .....	254
List of Coleopt. from Lake Superior....	191	Beitr. zur kenntn. der gattung Cerato- pogon .....	258
List of Coleopt. from N. M. & Ariz.....	191	Wise, J. C. <i>See</i> Minnesota—Committee on grasshoppers. Grasshopper .....	293
List of Coleopt. of Iowa City.....	191	Wittmack, Ludewig. Die reblaus.....	415
List of insects coll. in N. W. Ter.....	142	Wize, K., joint author. <i>See</i> Danyez, Jean.	
Notes on Coleopt. of southwest.....	191	Utilisation des muscardines.....	35
On larvæ of Hololepta & Pyrochroa....	187	Wocke, M. <i>See</i>	
On larvæ of Lucidota.....	187	Heinemann, H. von. Schmetterlinge Deutschlands.....	308
Rept. on entomol. reconnaissance.....	191	Staudinger, Otto. Cat. lepidopt. des europ. faunengebiets.....	313
Studies on male tarsus in Coleopt.....	187	Wolcott, R. H.	
joint author. <i>See</i> Brendel, Emil. Psela- phidæ of N. A .....	207	Modification of Birge collecting net....	50
Wiedemann, C. R. W.		New genus of N. A. water mites.....	466
Aussereurop. zweiflügelige insekten ...	243	Wolf, J. J. Bremi-. <i>See</i> Bremi-Wolf, J. J.	
Diptera exotica.....	243	Wolf, J. F. Abbildungen der wanzen.....	371
Monogr. generis midarum .....	263	Wolff, O. I. B. Riechorgan der biene.....	153
<i>See also</i> Schiner, J. R. Wiedemann's asiliden .....	262	Wollaston, T. V.	
Wiener entomologische monatschrift .....	488	Cat. of coleopt. insects of Canaries.....	203
Wiener entomologische zeitung.....	488	Cat. of coleopt. insects of Madeira.....	203
Wilcox, E. V.		Insecta maderensia.....	138
Spermatogen. of Caloptenus femur-rub- rum .....	46	Women's silk culture association of the United States.	
— Further studies.....	46	Ann. rept.....	136
Wilde, O. Pflanzen & raupen Deutsch- lands .....	314	Bulletin .....	137
Wilder, B. G.		Constitution & by-laws.....	137
Habits of Nephila plumipes .....	458	Instr. bk. in art of silk cult.....	111
W. S. Barnard .....	52	Report.....	137
Wildman, Thomas. Management of bees..	103	<i>See also</i> Silk exhibit daily record.....	136
Wilkinson, S. J. Brit. tortrices .....	358	Wood, H. C.	
Willem, Victor. Collemboles & thysanoures.	440	Myriap. of N. A .....	443
Willemot, C. Destr. of noxious insects .....	78	Phalangeæ of U. S.....	462
Williams, Mrs. Carrie. Rearing silkworms.	111	Wood, J. G., ed. <i>See</i>	
Williams, H. T. How to destroy insects...	88	Budgen, L. M. Insect life .....	20
Williams, T. A. Host-plant list of N. A. Aphid .....	398	Rennie, James. Insect architecture ...	54
		Wood-Mason, James. <i>See</i> Mason, James	
		Wood-	

	Page.		Page.
Woodhead, S. A., joint author. <i>See</i> Dawson, Charles. Hexagonal struct. in bees-wax .....	180	Zehntner, Leo—Continued.	
Woods, A. F.		Heteronychus spec .....	222
Stigmonose .....	393	Insecten-plagen bij de cacao-cultuur ...	89
Use of hydrocyanic acid gas .....	78	Levensgeschiedenis van den wāwālan .....	222
Woodworth, C. W.		Levenswijze der boorders .....	88
Jassidæ of Ill .....	384	Mineerlarven van het suikerriet .....	89
Lab. manual for entomol. ....	20	Plantenluizen van het suikerriet .....	89
Wotton, Eduard. Insectorum theatrum ..	18	joint author. <i>See</i>	
Wray, Leonard, jr. Culture of silkworms in Perak .....	131	Saussure, Henri de.	
Wulfen, F. X.: Descr. Capensium insectorum .....	138	Myriop. aus Madagaskar .....	444
Wulp, F. M., van der		Notice sur les gryllotalpiens .....	287
Diptera .....	248	Révis des périsphæriens .....	285
Naamlijst van nederl. diptera .....	249	<i>See also</i> Biol. cent.-amer. Orthoptera ..	230
<i>See also</i> Biol. cent.-amer. Diptera .....	245	Zeitschrift für die entomologie .....	488
Wyneken, B. Zwangs-versicherungs-genossensch .....	415	Zeitschrift für entomologie .....	488
Wytzman, P.		Zeitschrift für systematische hymenoptero-logie und dipterologie .....	488
Cat. syst. des passalides .....	219	Zeitschrift für wissenschaftliche insekten-biologie. <i>See</i> Allgemeine zeitschrift für entomologie .....	474
Gen. insectorum .....	18	Zeller, P. C.	
Xambeu, Vincent. Mœurs & métamorph. d'insectes .....	18	Nordamer. nachfalter .....	335
Yakobson, G. G. <i>See</i> Jakobson, G. G.		joint author. <i>See</i> Stainton, H. T. Nat. hist. Tineina .....	361
Yersin, Alexander.		Zentralverein für bienenzucht in Österreich. <i>See</i> Bienen-vater .....	104
Mue des orthopt. ....	288	Zetterstedt, J. W.	
Pachytylus migratorius .....	297	Dipt. Scand .....	249
Xiphidion brun .....	278	Insecta lapponica .....	149
Yoshida, Tetsutaro. Entw. des seiden-handels .....	131	Ziel, B. Aufhören der reblaus .....	415
Youmans, Eliza A., tr. <i>See</i> Quatrefages de Breau, J. L. A. de. Silk-worms & seric. ..	126	Zimmerman, C. D.	
Yovanovitch, G. P. Entomof. appliquée à la méd. légale .....	24	Entomology .....	63
Yves, Aimé. Ouvrages sci. de E. Olivier ..	7	Entomol. for horticulturist .....	63
Zabriskie, J. L.		Monogr. der carabiden .....	205
Caterpillar fungus .....	38	Zincken, J. L. T. F., called Sommer.	
Unknown aquatic hemipt. larva .....	364	Insecten-fauna von Java .....	143
Zacharewicz, Ed. Ver à soie du mûrier ..	131	ed. <i>See</i> Magazin der ent .....	481
Zaddach, E. G., joint author. <i>See</i> Brischke, C. G. A. Arten der blatt- und holzwespen.	160	Zoubovski, N. N. <i>See</i> Zubovskil, N. N.	
Zehntner, Leo.		Zoufal, Vladimir. Bestimmungs-tab. der Bostrychidæ .....	218
Bestrijding der boorders .....	74	Zubovskil, N. N. Gomphocerus-art aus der Mongolei .....	297
Helopeltisplaag bij de cacao-cultuur ...	375	Zürich, Switz. (canton)—Kantonaler zürcherischer rebbaunkommissär. Bericht ...	488





- No. 43. Accessions to the Department Library, April-June, 1902.
44. Accessions to the Department Library, July-September, 1902.
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  - Report of Director, 1893-1902;
  - Bureau of Plant Industry, Bulletins 1-26, 28-50;
  - Division of Pomology, Bulletins 1-10, Circulars 1-3, Nut Culture, Report of Pomologist, 1886-1900;
  - Section of Seed and Plant Introduction, Inventory 1-8, Circulars 1-2.
11. Cards no. 1438-1812 (1527 omitted), indexing Bureau of Entomology Bulletins 1-33; new series 1-43; technical series 1-9.
12. Cards no. 1813-1911, indexing Bureau of Entomology, Annual Reports, 1863-1903, Bibliography of American economic entomology, pts. 1-7, Circulars, series 2, no. 1-55, 3 miscellaneous reports; U. S. Entomological Commission Reports 1-5; Bulletins 1-7.
13. Cards no. 1912-2405, indexing Office of Experiment Stations, Bulletins 1-140;
  - Miscellaneous Bulletins 1-3.
14. Cards no. 2406-2476, indexing Office of Experiment Stations, Circulars 1-4, 6-8, 11-13, 17-58; Office of Public Road Inquiries, Bulletin 15 (corrected) and 27; Bureau of Plant Industry, Bulletin 27.
15. Cards no. Y 455-531, F B 182-206, indexing Yearbook, 1903; Farmers' Bulletins 178-202.
16. Cards no. 2477-2858, indexing Bureau of Chemistry, Bulletins 1-80, Circulars 1-18, Reports, 1862, 1864-1903.











