

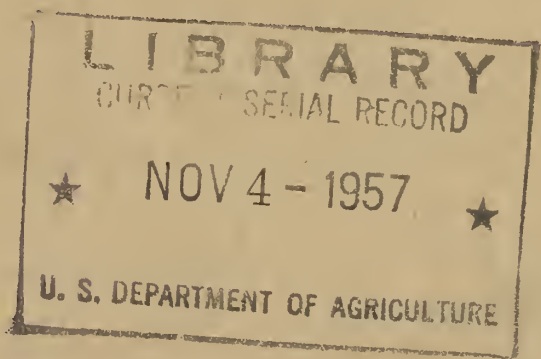
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A SELECTED BIBLIOGRAPHY OF THE COCCOIDEA

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A SELECTED BIBLIOGRAPHY OF THE COCCOIDEA

By HAROLD MORRISON and ALICE V. RENK, *Entomology Research
Division, Agricultural Research Service*

This annotated bibliography of the Coccoidea, or scale insects, has been prepared as a reference base to be used in further treatment, primarily in catalog form, of the information that has been published on the classification of the group. No general bibliography covering coccid literature has been published since 1868, and the last comprehensive coccid catalog appeared more than fifty years ago.

These insects have attracted attention practically from the beginning of recorded biology because of their significance both as forms useful to man and as serious plant pests. As a result, many papers and notes about them have been published all over the world in scientific, technical, and agricultural literature. From this mass of material, comprising thousands of titles, an attempt has been made to select those papers that deal significantly with the recognition and classification of coccids and with their nomenclature. Included also are the few papers that have been published in the fields of anatomy, cytology, histology, noneconomic experimental physiology, biology as such, zoögeography, including regional distributional and host-plant lists, and those on preparation and study techniques and on coccid symbionts.

With occasional exceptions in each category, the following classes of references have been excluded: Utilitarian aspects of the Coccoidea, as lac, cochineal, etc., and the use of coccids in weed control; plant quarantine relations of coccids, such as laws or regulations mentioning them, or lists of coccids taken at ports of entry; all relations of coccids with their parasites and predators; what may be termed the economic biology of the coccids, including their control by insecticidal and related means; numerous restricted or casual notes on distribution, economic importance or control of one or of several coccids, including notes of the sort found in insect pest survey reports; and general zoological and entomological text and reference books.

The primary source for the references included was the author card catalog on the Coccoidea that has been developed in the United States Department of Agriculture by various workers during the past 60 years. Preliminary test selections from this catalog, made by several workers on the basis of the two sets of categories outlined in the preceding paragraphs, showed some diversity of choice. It is therefore possible that the authors have excluded some desirable papers and have included some unnecessary ones in their final selections. The system of presentation used is believed to be sufficiently flexible so that conforming supplementary bibliographies can be issued if needed.

The form of citation and the abbreviations used are those developed by the library of this Department, as presented in the following publications:

List of periodicals currently received in the Library of the United States Department of Agriculture. U. S. Dept. Agr. Misc. Pub. 245, 337 p., June 1, 1936.

Abbreviations used in the Department of Agriculture for titles of publications. U. S. Dept. Agr. Misc. Pub. 337, 278 p., April 1939.

List of serials currently received in the Library of the United States Department of Agriculture. U. S. Dept. Agr. Bibliog. Bul. 12, 329 p., November 1950. Also Bibliog. Bul. 12, Sup. 1, 218 p., July 1953.

Bibliographic style. A manual for use in the Division of Bibliography of the Library. U. S. Dept. Agr. Bibliog. Bul. 16, 30 p., June 1951.

It is intended that the author's name plus the year of publication of each individual paper shall serve as a short reference or code designation for the paper. Where two or more papers have been published by an author in one year, alphabet letters in sequence have been added to the dates for the second and following entries to provide the necessary differentiation for each paper. An effort has been made to arrange the multiple publications of any author during a single year in proper chronological sequence and to ascertain and use the actual year of publication for each paper. Where this date differs from that on the title page of the volume containing the article, the latter date is shown in parentheses following the abbreviated citation. It is not certain that these efforts have always been successful. Any numbers in parentheses at the end of a citation designate each page within a general article on which some reference to coccids has been found. Except for the few

marked (Not seen), all entries have been checked against the original publication.

As this bibliography has been restricted primarily to the field of classification, no papers published before January 1, 1758, have been included. Its closing date is December 31, 1955. The bibliography as restricted includes approximately 3,000 entries.

It is not practical to associate all of the included papers into subject-matter groups as many of the papers include material in several categories; but to assist workers in some of the smaller special fields covered by the bibliography the following groupings of references are supplied:

(a) Papers dealing primarily or extensively with coccid anatomy (internal). BERLESE 1893, 1894, 1895, 1895b, 1896, CHILDS 1914, CLAUS 1860, COLTON 1944, 1948, DOUTT 1949, 1952, DUFOUR 1833, FERRIS 1918, 1928, 1934, FERRIS and MURDOCK 1936, GAVEGLIO 1934, HERBERG 1921, 1922, HERIOT 1934, 1937, HOKE 1921, HOUGH 1925b, HOVASSE 1930a, JOHNSTON 1912, KALUZA 1940, KITAO 1928, KUWANA 1907b, LEYDIG 1854, LIST, J. H. 1886, LUBBOCK 1858, MARK 1876, MAYER 1892, MISRA 1931, 1931a, MOULTON 1907, NEGI 1934, PESSON 1934, 1935, 1936, 1939, 1939a, 1942, 1944, PFLUGFELDER 1936, POISSON and PESSON 1938, SAVAGE 1914, SCHMIDT, O. 1883, SULC 1909, 1936, 1942a, SUTER 1932, TEODORO 1913, 1914, 1915, 1923, WEBER 1928, WITLACZIL 1886.

(b) Papers dealing primarily with coccid cytology. BATTAGLIA 1950, HUGHES-SCHRADER 1925, 1926, 1927, 1930, 1930a, 1931, 1935, 1940, 1942, 1944, 1946, 1948, HUGHES-SCHRADER and RIS 1941, LINDNER 1954, PIERANTONI 1912, 1914, SCHRADER, F. 1921, 1923, 1923a, 1929, 1931, 1944, SCHRADER and HUGHES-SCHRADER 1926, SUOMALAINEN 1940.

(c) Papers dealing primarily or extensively with coccid histology. BERLESE 1893, 1894, 1895, 1895b, 1896, CLAUS 1860, DISSELKAMP 1954, EMEIS 1915, FERRIS 1928, HERBERG 1918, KITAO 1928, KRECKER 1909, LIST 1886, MARSHALL 1929, 1930, 1935, 1935a, MATHESON 1923, MAYER 1892, MISRA 1939, MISRA and RAO 1942, MURDOCK 1928, PESSON 1939, 1939a, 1942a, POLLISTER 1937, ROGOJANU 1935, SULC 1931, TEODORO 1911, 1911a, 1912a, 1921, 1923, VISART 1894, 1895.

(d) Papers including information on the preparation of coccids for study and their preservation in collections. BALACHOWSKY and GOSSELIN 1950, BERRO 1931, BORCHSENIUS 1950d, BRAIN 1915, CHEN 1935, COCKERELL 1897t, COSTA LIMA 1921, CRAW 1899, DIETZ and MORRISON 1916a, ESSIG 1948, FERRIS 1917, GAGE 1919, GOMEZ-MENOR 1927, GREEN 1906, 1914, MARLATT 1908a, NEWSTEAD 1893c,

OSBORN, H. 1903, REYNE 1950, SCHULZE 1915, SUTHERLAND 1932.

(e) Papers on coccid symbionts. BRAIN 1923, BREEST 1914, BRUES and GLASER 1921, BUCHNER 1912 through 1955, CARTER 1935, 1936, 1946, CONTE and FAUCHERON 1907, FINK 1952, FREITAS and CARNEIRO 1949, GRANOVSKY 1929, HOVASSE 1930, KOCH 1930, MAHDIHASSAN 1924a, 1925, 1928, 1929, 1929b, 1931b, 1932a, 1935, 1946, 1947, 1951, DI MARIA 1938, PIERANTONI 1910, 1910a, 1911, 1913, 1936, RAO, S. R. 1942a, RICHTER 1928, SCHRADER 1923b, SCHWARZ 1924, SULC 1906, 1923, TARSIA in CURIA 1938, TEODORO 1917, VEJDOVSKY 1907, WALCZUCH 1932, WEBER 1935.

Although the authors have worked in close association in selecting the material presented in this bibliography, final decisions for or against the inclusion of some of the papers and the context of the brief notes associated with many of the references have been the primary responsibility of the senior author; the junior author has been responsible for the organization of the included material and for the correctness of the bibliographical information presented in each entry. The authors are much indebted to Miss Ruth Ericson of the Insect Identification and Parasite Introduction Laboratories for translations of critical points and for other information useful in the proper presentation of many of the foreign language titles, and to the staff of the Department's library for their untiring assistance in locating rare and obscure papers.

A Selected Bibliography of the Coccoidea

ABRAHAM, E. V.

- 1953 A PEST OF NEW IMPORTANCE ON PINEAPPLE IN WYNAD AREA OF THE MADRAS STATE—THE MEALY BUG, PSEUDOCOCCUS BREVIPIES COCKERELL. So. Indian Hort. 1: 99-104.
Identity, habits, control.

ADACHI, M. S., and FULLAWAY, D. T.

- 1953 TWO NEW DIASPIDID SCALES ON AURACARIA. Hawaii. Ent. Soc. Proc. 15: 87-91, illus.
Pseudoparlatoria giffardi, *Octaspidiotus araucariae*.

ADAMS, C. F.

- 1908 THE SAN JOSE SCALE IN ARKANSAS. Ark. Agr. Expt. Sta. Bul. 102: 221-236, illus.

ADAMSON, A. M. *see* MUMFORD, E. P., and ADAMSON, A. M.

AGRAWAL, N. S.

- 1953 LIFE HISTORY OF PHENACOCCUS INSOLITIS GREEN (THE BRINJAL MEALY BUG). Current Sci. [India] 22: 214.

ALDEN, C. H.

- 1942 APPLE INSECTS AND DISEASES. Ga. Dept. Ent. Bul. 83, 38 p. (11-14, 32), illus.
Life history and control of San Jose scale.

ALDEN, C. H., AND SNAPP, O. I.

- 1924 THE EFFECT OF LOW TEMPERATURES ON THE SAN JOSE SCALE IN GEORGIA. Jour. Econ. Ent. 16 (1923): 552.

ALDRICH, J. M.

- 1899 THE SAN JOSE SCALE IN IDAHO. Idaho Agr. Expt. Sta. Bul. 16, 16 p., illus.

ALEXANDER, W. B.

- 1919 THE PRICKLY PEAR IN AUSTRALIA. Austral. Inst. Sci. and Indus. Bul. 12, 48 p. (33), illus.
Control of tree cactus by coccids.

- 1925 NATURAL ENEMIES OF PRICKLY PEAR AND THEIR INTRODUCTION INTO AUSTRALIA. Austral. Inst. Sci. and Indus. Bul. 29, 80 p. (8, 19, 22, 24, 27-30, 33, 52-61).

Dactylopius tomentosus, *D. confusus*, *D. coccus*, *D. indicus*,
Pseudococcus herbicola, *Diaspis echinocacti* discussed.

ALVARADO, J. A.

- 1937 INSECTOS QUE ATACAN AL CAFETO. Guatemala, Dir. Gen. de Agr. 27 p. (8-16), illus. (Ed. 2, 1941.)
Biology and control of *Pseudococcus citri* and *Saissetia hemisphaerica*.

ALWOOD, W. B.

- 1896 THE SAN JOSE OR PERNICIOUS SCALE (ASPIDIOTUS PERNICIOSUS). Va. Agr. Expt. Sta. Bul. 62: 33-44, illus.
General discussion, with special reference to Virginia.

ALZATE, J. A., DE

- 1795 MEMORIA EN QUE SE TRATA DEL INSECTO GRANA Ó COCHINILLA, DE SU NATURALEZA Y SÉRIE DE SU VIDA, COMO TAMBIÉN DEL MÉTODO PARA PROPAGARLA Y REDUCIRLA AL ESTADO EN QUE FORMA UNO DE LOS RAMOS MAS UTILES DE COMERCIO, ESCRITA EN 1777 POR EL SR. DON JOSÉ ALZATE Y RAMIREZ. Madrid. 10, 226 p., illus. (Not seen.) Reprinted in La Naturaleza 6 (App.): 97-151 (103-110), 1882.

AMERLING, C.

- 1858 EINIGE PHYSIOKRATISCHE BEOBACHTUNGEN AN DEN OBSTBÄUMEN IN DER UMGEGEND VON PRAG. *Lotos* 8: 27-30 (29).
Mentions *Mytillococcus* [sic] without description or included species.
- 1858a NOCH EINIGE PHYSIOKRATISCHE BEOBACHTUNGEN AN DEN OBSTBÄUMEN IN DER UMGEGEND VON PRAG. *Lotos* 8: 99-104 (101, 103).
Brief discussion of *Mytilococcus communis*, *M. ellipticus*; mentions *M. piceae*.
- 1859 [DESCRIBES EXHIBITION OF YOUNG ADULT FEMALES OF LECANIUM AND MYTILOCOCCUS FROM FRUIT AND LINDEN TREES.] Prague, Königl. Böhmisch. Gesell. Wiss. Sitzber., 1859: 62-63.
L. pruni, *L. aversum* mihi, and *Mytilococcus* sp. mentioned.

AMOS, J. M.

- 1933 A LIST OF THE COCCIDAE OF TIPPECANOE COUNTY AND THEIR HOSTS (HOMOPTERA). *Ind. Acad. Sci. Proc.* 42: 205-208.
List of 50 coccids with collection data.
- 1933a DESCRIPTIONS OF COCCIDAE HERETOFORE UNREPORTED FROM INDIANA (HOMOPTERA). *Ind. Acad. Sci. Proc.* 42: 208-211, illus.
Redescribes 5 coccids.

AMYOT, C. J. B.

- 1847 ENTOMOLOGIE FRANÇAISE. RHYNCHOTES. *Soc. Ent de France Ann* (ser. 2) 5: 453-506 (488-503). (European catalogues credit this to 1848; we cannot confirm.)
Presents numerous uninomial designations for Linnaean and other binomial species.

ANDERSON, J.

- 1787 FIVE LETTERS TO SIR JOS. BANKS ON THE COCHINEAL INSECTS, DISCOVERED AT MADRAS. *Madras, Ford.* 13 p., illus. (Not seen.) Also published, with the addition of a sixth letter, in *Der Naturforscher* 25: 189-220, (1791), under the title "Ueber bey Madras entdeckte cochennill-insekten, in briefen an sir joseph banks, bar."
Presumably carries the first publication of the generic name *Chloeoon* for a grass coccid; not established binomially.
- 1788 LETTERS TO SIR JOSEPH BANKS, BARONET, PRESIDENT OF THE ROYAL SOCIETY, ON THE SUBJECT OF COCHINEAL INSECTS, DISCOVERED AT MADRAS. *Madras, Ford.* 26 p., illus.
Proposes *Chloeoon* as a new name; proposes 8 new species names in *Coccus* for Indian or Chinese (1 species) coccids, with obscure descriptive notes on same.
- 1790 A LETTER FROM DOCTOR ANDERSON TO SIR WILLIAM JONES. *Asiatic Researches* 2: 359.
States that "Roxburgh's discovery will bring Lac a genus into the class Hemiptera of Linnaeus."
- 1790a MONOGRAPHIA COCCI CERIFERI. *Madras.* (Not seen.)

ANSARI, A. R.

- 1945 SOME FOOD PLANTS OF PSEUDOCOCCUS FILAMENTOSUS CKLL. AND COCCUS DISCREPENS [sic] GREEN IN THE PUNJAB. *Indian Jour. Ent.* 7: 241-242.
Reports 18 plant hosts for *P. filamentosus* and 10 for *C. discrepans*.
See also Rahman, K. A., and Ansari, A. R.

ARCHANGELSKAIA, A. D. (Archangelskaya, Arkangelskaia, Arkhangelskaya).

- 1923 [CONTRIBUTION] TO THE FAUNA OF HARD OR SOFT SCALES (COCCIDAE) OF TURKESTAN. (In Russian.) *Sci. Soc. Turkestan, Trans.* 1: 259-266.
Physokermes unifasciatus n. sp.; list of 34 other coccids with collection data.
- 1929 LIST OF SCALE INSECTS (COCCIDAE) COLLECTED IN HOTHOUSES OF THE BOTANICAL GARDENS IN MOSCOW AND LENINGRAD IN FEBRUARY 1929. (In Russian.) *Bolezni Rast. (Morbi plantarum)* 18: 188-201.
English summary; discusses 23 coccids with their food plants.

ARCHANGELSKAIA, A. D.—Continued.

- 1930 LIST OF COCCIDS OF TURKMENISTAN. (In Russian.) Ashkabad. Rpt. Sta. Plant Protect. Turkmenistan, 1926-1929: 75-85. (Not seen.)
- 1930a LIST OF THE SCALE INSECTS OF PERSIA COLLECTED BY THE LOCUST CONTROL TURKMENIAN EXPEDITION IN 1926 AND 1929 AND BY OTHER COLLECTORS. (In Russian with English descriptions.) (Not seen.) Ashkabad. Rpt. Sta. Plant Protect. Turkmenistan, 1926-1929: 87-96, illus.
- 1931 NEW SPECIES OF SCALE INSECTS, COCCIDAE, FROM CENTRAL ASIA. (In Russian.) Leningrad Inst. Zashch. Rast. (Lenin Acad. Agr. Sci., U.S.S.R., Inst. Plant Protect.) Plant Protect. 7 (1930): 69-85, illus. Describes 8 new species, 1 new variety.
- 1935 THE CARMINE-PRODUCING COCCIDS (MARGARODES) OF MIDDLE ASIA AND SPECIES OF ALLIED GENUS NEOMARGARODES. (In Russian.) Pub. Com. Sci. Uzbek. SSR. Tashkent. 38 p. English summary; 5 new *Margarodes*, 2 new *Neomargarodes*, keys to 2 genera and included species.
- 1937 THE COCCIDAE OF MIDDLE ASIA. (In Russian.) Pub. Com. Sci. SSR. Tashkent. 158 p., illus. Discusses 120 coccids, with keys and descriptions for 67 that are injurious and collection data for 53; geographic relation shown; host list; 5 new species, 1 new variety.

ARGO, V. N.

- 1939 THE EFFECT OF TEMPERATURE UPON THE OXYGEN REQUIREMENTS OF CERTAIN ADULT INSECTS AND INSECT EGGS. Ent. Soc. Amer. Ann. 32: 147-163 (154-158), illus. Effect on *Pseudococcus citri*.

ARMITAGE, H. M.

- 1924 THE CITROPHILUS MEALY BUG, PSEUDOCOCCUS GAHANI GREEN, AS A MAJOR PEST OF CITRUS IN SOUTHERN CALIFORNIA. Jour. Econ. Ent. 17: 554-561. Also in Gulf Coast Grower 2 (7): 1-4. General description, effect on host, control.

ARMITAGE, H. M., and MCKENZIE, H. L.

- 1952 PRESENT STATUS OF THE OLIVE POLLINIA SCALE POLLINIA POLLINI (COSTA) IN CALIFORNIA. (HOMOPTERA; COCCOIDEA; ASTEROLECANIIDAE) Calif. Dept. Agr. Bul. 41: 115-121, illus. History, descriptive notes, biology, damage.

ARNDT, W.

- 1940 ALS HEILMITTEL GEBRAUCHTE STOFFE (AUSSCHLIESSLICH DER SERA, HORMONE UND INNERSEKRETORISCHEN PRODUKTE). Die Rohstoffe des Tierreichs v. 2, lief. 15: 508-694 (630-631). Brief discussion of medical uses of *Kermes ilicis*, *Dactylopius coccus*, *Ceroplastes ceriferus*, *Llaveia axinus*.

ASHMEAD, W. H.

- 1880 ON THE RED OR CIRCULAR SCALE OF THE ORANGE (CHRYSOMPHALUS FICUS RILEY MS.). Amer. Ent. 3: 267-269 (see also p. 275-276), illus. First description, distribution, hosts, control.
- 1880a ON "THE WHITE SCALE OF THE ORANGE." (CEROPLASTES RUSCI LINN.) Canad. Ent. 12: 252-254, illus. [Actually a discussion of *C. floridensis*.]
- 1888 DESCRIPTION OF A NEW SPECIES OF ORTHESIA FROM CALIFORNIA. Canad. Ent. 20: 202-204. *O. edwardsii* [actually a male *Puto*].
- 1891 A GENERIC SYNOPSIS OF THE COCCIDAE. FAMILY X—COCCIDAE. Amer. Ent. Soc. Trans. 18: 92-102. Synoptic keys to females of 5 subfamilies, 10 tribes, 65 genera; keys to or notes on adult males of 30 genera.

ASTURIAS, F.

- 1940 LA COCHINILLA DEL CAFETO. Inst. de Defensa del Café de Costa Rica Rev. 10 (70): 107-112. Discussion of *Pseudococcus citri*.

ATKINSON, E. T.

- 1886 INSECT PESTS BELONGING TO THE HOMOPTEROUS FAMILY COCCIDAE. Asiatic Soc. Bengal Jour. 55 (Pt. 2, No. 3): 267-298. Abstracted under title "On pests belonging to the homopterous family of Coccidae, which attack tea, cinchona, and coffee trees," in Asiatic Soc. Bengal Proc. No. 7 (1886): 121-122.

Discussion of classification, with several group names presented; some species redescribed.

- 1889 A NEW SPECIES AND GENUS OF COCCIDAE. Asiatic Soc. Bengal Jour. 58 (Pt. 2, No. 1): 3-5, illus.

Pseudopulvinaria sikkimensis.

AUCHINLECK, G.

- 1913 PLANT DISEASES AND PESTS. SCALE INSECTS. In West Indies Imp. Dept. Agr., Rpt. Agr. Dept. Grenada, 1912/13: 8-9.

Lists 24 coccids with hosts recognized from Grenada; 9 other coccids have been reported from island.

AUTRAN, E.

- 1907 LAS COCHINILLAS ARGENTINAS. Argentina Min. de Agr. Bol. 7: 145-200, illus. Also in Mus. de Farmacol. Trab. [Buenos Aires] No. 18, 58 p., illus.

Catalog list of 32 species; special discussion of useful coccids; ground pearl on vine; methods of control.

AZEVEDO MARQUES, L. A. DE

- 1923 PRAGAS DA VIDEIRA. Chacaras e Quintaes 28: 422.

Includes description of *Aonidiella arnaldoi* Costa Lima n. sp.

BAAS, J.

- 1950 GEGENWÄRTIGER STAND DER SAN JOSE-SCHILDLAUS-VERBREITUNG IN HESSEN. Anz. f. Schädlingsk. 23: 69-71.

Detailed report on distribution.

BACHMANN, F.

- 1952 BEITRAG ZUR BIOLOGIE EINHEIMISCHER DECKELSCHILDLÄUSE. Schweiz. Ent. Gesell. Mitt. 25: 144.

Quadraspidiotus schneideri [nom. nud.] and several other coccids mentioned.

- 1952a QUADRASPIDIOTUS SCHNEIDERI N. SP. (HOMOPT. DIASPIDOID.), EINE NEUE SCHILDLAUSART. Schweiz. Ent. Gesell. Mitt. 25: [357].

- 1935 BEITRAG ZUR KENNTNIS DER JUGOSLAVISCHEN SCHILDLAUSFAUNA. Belgrade. Srpska Akad. Nauk. Zbornik Radova 30; Inst. za Ekol. i Biogeog. No. 4 (1952-1953): 175-184, illus.

Lists 37 coccids with collection data, including *Quadraspidiotus pelagijae* n. sp.

- 1953a UNTERSUCHUNGEN AN DEN GELBEN OBSTBAUMSCHILDLÄUSEN QUADRASPIDIOTUS PIRI LICHT. UND QUADRASPIDIOTUS SCHNEIDERI N. SP. Ztschr. f. Angew. Ent. 34: 357-404, illus.

Extended critical study of taxonomy, biology, and control.

- 1955 QUADRASPIDIOTUS SCHNEIDERI BACHMANN—ART ODER RASSE. Ztschr. f. Angew. Ent. 37: 122-124.

Reiterates belief that it is a good species, contrary to opinion expressed by F. Scherney (Ibid 36: 225-231, illus.)

BACHMANN, F., and GEIER, P.

- 1950 EINIGE FÜR DIE SCHWEIZ NEUE ODER WENIG BEKANNTE COCCIDEN AUS DER UNTERFAMILIE DER DIASPIDINAE. Schweiz. Ent. Gesell. Mitt. 23: 117-119.

Reports on 9 coccids.

BAERENSPRUNG, F. v.

- 1849 BEOBACHTUNGEN ÜBER EINIGE EINHEIMISCHE ARTEN AUS DER FAMILIE DER COCCINEN. Ztg. f. Zool., Zoot., und Palaeozool. 1: 165-170, 173-176.

Describes 22 coccids in 6 genera, 8 for the first time, 6 of which are synonyms or not coccids.

BAERG, W. J.

- 1947 THE BIOLOGY OF THE MAPLE LEAF SCALE. Ark. Agr. Expt. Sta. Bul. 470, 14 p., illus.
Discusses *Pulvinaria acericola* in Arkansas.

BAKER, C. F., and ESSIG, E. O.

- 1912 HOST INDEX TO CALIFORNIA COCCIDAE. California State Comn. Hort. Monthly Bul. 1: 740-763; correction on p. 888.
See also Essig, E.O., and Baker, C. F.; Gillette, C. P., and Baker, C. F.

BAKER, H.

- 1933 THE OBSCURE SCALE ON THE PECAN AND ITS CONTROL. U. S. Dept. Agr. Cir. 295, 19 p., illus.
Description, distribution, and life history of *Chrysomphalus obscurus*.

BALACHOWSKY, A.

- 1926 NOTE SUR UNE COCHENILLE NOUVELLE VIVANT SUR ERICA ARBOREA EN ALGÉRIE. Soc. Ent. de France Bul. 19 (1925): 317-320, illus.
Ripersia delassusi.

- 1927 CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE (1^{re} NOTE). Soc. Ent. de France Ann. 96: 175-207, illus.
List of 106 N. African coccids with collection data; description of 5 additional new species.

- 1928 UN NOUVEAU COCCIDE DU SUD TUNISIEN. Soc. d'Hist. Nat. de l'Afrique du Nord 19: 91-93, illus.
Targionia dumonti.

- 1928a CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE (2^e NOTE). Soc. d'Hist. Nat. de l'Afrique du Nord 19: 121-144, illus.
Describes 6 new species, 1 new variety; lists 24 additions to N. African coccids; keys to 9 *Hemiberlesia* and 4 *Leucaspis* species.

- 1928b CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE (3^e NOTE). CHRYSOMPHALUS AONIDUM L.—BIOLOGIE—TRAITEMENT. Soc. d'Hist. Nat. de l'Afrique du Nord 19: 156-180, illus.
Key to 3 *Chrysomphalus* species: hosts, life history, control.

- 1928c CONTRIBUTION À L'ÉTUDE DES COCCIDES D L'AFRIQUE MINEURE (4^e NOTE). NOUVELLE LISTE DE COCCIDES NORD-AFRICAINS AVEC DESCRIPTION D'ESPÈCES NOUVELLES. Soc. Ent. de France Bul. 17: 273-279.
Chionaspis lepineyi, *Aspidiotus halophilus* described; collection notes on 5 additional N. African coccids.

- 1929 CONTRIBUTION À L'ÉTUDE DE LA FAUNE DU CONGO BELGE. DIASPINES NUISIBLES AU CAFÉIER ET AU CACAOYER. Rev. de Path. Veg. et d'Ent. Agr. de France 16: 141-145, illus.
Aspidiotus gracilis n. sp.; discussion of *Diaspis boisduvali*.

- 1929a CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE (6^e NOTE). FAUNE DU HOGGAR. Soc. Ent. de France Ann. 98: 301-322, illus.
Reports on 17 coccids, including 4 new.

- 1930 CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (1^{re} NOTE). FAUNULE DES ILES D'HYÈRES (PORT-CROS ET LEVANT). Soc. Ent. de France Bul. 1929 (No. 20): 311-318, illus.
Reports 18 coccids from these islands, including *Eriococcus henryi* n. sp.

- 1930a CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (3^e NOTE). COCCIDES NOUVEAUX OU PEU CONNUS DE LA FAUNE DE FRANCE. Soc. Ent. de France Bul. 1930 (No. 10): 178-184, illus.
Collection notes on 24 species, including *Ripersia echinata* n. sp.

- 1930b CONTRIBUTION À L'ÉTUDE DES COCCIDES L'AFRIQUE MINEURE (7^{me} NOTE). LES CEROCOCCUS (ASTEROLECANINAE) DU NORD AFRICAIN. Eos 6: 301-319, illus.
C. ruber, *C. intermedius*, n. spp.; key to 5 *Cerococcus*, 3 redescribed.

BALACHOWSKY, A.—Continued.

- 1930c CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE (9^{me} NOTE). ADDITION À LA FAUNE DU NORD-AFRICAÏN AVEC DESCRIPTION DE TROIS ESPÈCES NOUVELLES. Soc. d'Hist. Nat. de l'Afrique du Nord. Bul. 21: 119-125, illus.
Phenacoccus caillardi, *Ripersia sphaerica*, *R. plagiolepicola*, n spp.; 3 other coccids discussed; 3 additional coccids compared with new species.
- 1930d DEUX CHIONASPIS [HEM. COCCIDAE] NOUVEAUX DE L'ABIES PINSAPO ET DU CÉDRE. Soc. Ent. de France Bul. 1930 (No. 17): 266-273, illus.
C. barbeyi and *C. kabyliensis* described; key to 6 species of *Chionaspis* (sens. lat.) infesting conifers.
- 1931 SUR LE COMPORTEMENT DES COCCIDAE APPARTENANT A LA FAUNE UBIQUISTE TROPICALE ACCLIMATÉS EN AFRIQUE DU NORD ET DANS LE BASSIN MÉDITERRANÉEN. Soc. de Biogeog. [Paris] Compt. Rend. 8: 48-52.
Numerous coccids mentioned or listed in discussion.
- 1931a CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (5^e NOTE). FAUNE DE CORSE. Soc. Ent. de France Bul. 1931 (No. 7): 96-102.
Brief notes on 37 coccids.
- 1931b CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE (10^e NOTE). SUR UN NOUVEAU LICHTENSIA DU MAROC SEPTENTRIONAL. Soc. des Sci. Nat. du Maroc Bul. 10 (Dec. 1930): 215-216, illus.
L. rifana.
- 1932 CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE [11^{me} NOTE]. SUR UNE DIASPINE NOUVELLE RÉCOLTÉE PAR M. P. VAYSSIÈRE DANS LE HAUT-ATLAS. Soc. Ent. de France Bul. 37: 18-20, illus.
Aspidiotus (Aonidiella) occidentalis.
- 1932a CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (8^{me} NOTE). SUR UN PSEUDOCOCCUS NOUVEAU DES ILES D'HYÈRES. Soc. Ent. de France Bul. 37: 87-89, illus.
P. lanatus.
- 1932b LA THEORIE DES "PLACES VIDES" ET LE PEUPELEMENT DES VEGETAUX PAR LES COCCIDAE. Soc. Ent. de France, Livre du Centenaire (Paris), p. 517-522.
Mentions 32 coccids in argument against acceptance of theory.
- 1932c CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (9^e NOTE). SUR UN LUZULASPIS NOUVEAU DES ILES D'HYERES. Soc. Ent. de France Bul. 37: 197-200, illus.
L. jahandiezi.
- 1932d ÉTUDE BIOLOGIQUE DES COCCIDES DU BASSIN OCCIDENTAL DE LA MÉDITERRANÉE. Encyc. Ent. (ser. A) v. 15, Paris, Lechevalier. 214, LXVII p., illus.
Biogeographic study; observations on parasitism; catalog of North African coccids; list of French Mediterranean coccids.
- 1932e CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (11^e NOTE). SUPPLÉMENT À LA LISTE DES COCCIDES DES ALPES-MARITIMES ET DU VAR AVEC DESCRIPTION D'UN ERIOCOCCUS NOUVEAU. Soc. Ent. de France Bul. 37: 233-238, illus.
E. rosaceus n. sp.; brief notes on 10 other coccids.
- 1932f CONTRIBUTION À L'ÉTUDE DES COCCIDES DES COLONIES FRANÇAISES (1^{re} NOTE). SUR UNE DIASPINE NOUVELLE DU TIBESTI. Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 23: 228-231, illus.
Aspidiotus (Evaspidiotus) dallonii.
- 1933 CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (15^e NOTE). UN ERIOCOCCUS NOUVEAU DU DÉPARTEMENT DU VAR. Soc. Ent. de France Bul. 38: 36-38, illus. (February).
E. glanduliferus.

BALACHOWSKY, A.—Continued.

1933a CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE. (14^e NOTE). NOUVELLES RECHERCHES SUR LA FAUNE INDIGÈNE DE LA CORSE. Soc. Ent. de France Ann. 102: 35-50, illus. (March).

Eriococcus ammophilus, *Phenacoccus belagnus* n. spp.

Lepidosaphes juniperi redescribed; notes on 10 other coccids.

1933b CONTRIBUTION À L'ÉTUDE DES COCCIDES DE L'AFRIQUE MINEURE (13^e NOTE). SUR UNE NOUVELLE DIASPINE RÉCOLTÉE PAR LE DR. R. MAIRE DANS LE MOYEN-ATLAS. Soc. Ent. de France Bul. 38: 245-248, illus.

Aspidiotus (Evaspidiotus) tubuliferus.

1933c CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD-AFRICAÏN (12^{me} NOTE). DIASPINES RÉCOLTÉE DANS LA RÉGION DE TAMANRASSET (MASSIF DU HOGGAR) PAR. J. LAURIOL. Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 24: 253-254.

Discusses 4 coccids.

1933d SUR LA BIOLOGIE DE "CEROPLASTES FLORIDENSIS COMST." ET SUR LA RÉPARTITION GÉOGRAPHIQUE DES CEROPLASTES DANS LA RÉGION PALÉARCTIQUE (HOM. COCCIDAE). [CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE, 10^e NOTE]. Internatl. Cong. Ent. (Paris 1932) 5(2): 79-87, illus.

Discusses 7 *Ceroplastes* species.

1934 RECHERCHES BIOGÉOGRAPHIQUES SUR LA FAUNE DES COCCIDES DE CORSE. Soc. de Biogéog. [Paris] Compt. Rend. 11: 34-39.

About 31 coccids discussed.

1934a CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE. (17^e NOTE). RECHERCHES COMPLÉMENTAIRES SUR LA FAUNE DE CORSE. Soc. Ent. de France Bul. 39: 67-72, illus.

Ripersia mesnili n. sp.; 7 new Corsican coccid records presented.

1934b CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (18^e NOTE). SUR UN NOUVEL ERIOCOCCUS DE CORSE. Soc. Ent. de France Bul. 39: 98-101, illus.

E. franceschini.

1934c CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (19^e NOTE). DEUX ESPÈCES NOUVELLES POUR LA FAUNE DE FRANCE RÉCOLTÉE DANS LA RÉGION PARISIENNE. Soc. Ent. de France Bul. 39: 130-131.

Lepidosaphes rubri Thiem, *Eriococcus inermis* Green.

1934d LES COCCIDES DU SAHARA CENTRAL. MISSION DU HOGGAR. III (FÉVRIER À MAI 1928). In Seurat, L.-G., Etudes Zoologiques sur le Sahara Central. Soc. d'Hist. Nat. de l'Afrique du Nord, Mem. 4: 145-157, illus.

List of 17 coccids with collection and other notes.

1934e COCHENILLES NOUVELLES ET PEU CONNUES DU MAROC. [CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD AFRICAÏN, 14^e NOTE]. Assoc. Franc. pour l'Avanc. des Sci. Compt. Rend. 58th Sess., p. 160-163, illus.

Hemiberlesea spaerocarpace n. sp.; report on 3 other coccids.

1935 SUR UNE DIASPINE NOUVELLE DU SUD DE L'ESPAGNE. Soc. Ent. de France Bul. 40: 233-236, illus.

Aspidiotus (Evaspidiotus) thymicola; compared with *thymbrae*.

1935a SUR UNE COCHENILLE NOUVELLE DE LA SIERRA NEVADA (ANDALOUSIE). Soc. Ent. de France Bul. 40: 239-242, illus.

Asterolecanium nevadensis.

1935b LES COCHENILLES DE L'ESPAGNE. Rev. de Path. Veg. et d'Ent. Agr. de France 22: 255-269, illus.

List of 65 coccids with collection notes and habitat photographs.

1936 CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (20^e NOTE). SUR UNE NOUVELLE LECANINE HYPOGÉE DU MIDI DE LA FRANCE. Soc. Ent. de France Bul. 41: 56-59, illus.

Eulecanium grassei.

BALACHOWSKY, A.—Continued.

- 1936a NOTE SUR ASPIDIOTUS (HEMIBERLESEA) VUILLETI MARCHAL [HEM. COCCIDAE]. [CONTRIBUTION À L'ÉTUDE DES COCCIDES DES COLONIES FRANÇAISES, 3^e NOTE.] Soc. Ent. de France Bul. 41 97-100, illus.
A redescription.
- 1936b CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE. (22^{me} NOTE). SUR UNE LECANINE NOUVELLE DU MASSIF DE L'ESTEREL. Soc. Ent. de France Bul. 41: 122-125, illus.
Ctenochiton ericae.
- 1936c CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD AFRICAÏN (15^{me} NOTE). SUR DEUX REMARQUABLES PSEUDOCOCCINAE DÉCOUVERTS DANS LE SAHARA MAROCAÏN PAR CH. RUNGS. Soc. Ent. de France Bul. 41: 157-165, illus.
Echinococcus echinatus, n. gen. and sp.; *Micrococcus rungsi* n. sp.; key to *Micrococcus* species.
- 1936d SUR UN NOUVEAU RIPERSIA HYPOGÉ DU MIDI DE LA FRANCE. CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE (25^e NOTE). Rev. Franç. d'Ent. 3: 215-218, illus.
R. parkeri.
- 1937 SUR QUELQUES COCHENILLES RÉCOLTÉES AU COURS DU CONGRÈS D'AVIGNON. [CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE, 21^e NOTE.] Soc. Ent. de France Bul. 41 (1936): 339-340.
Notes on 13 coccids.
- 1937a SUR UNE COCHENILLE NOUVELLE DE LA FORÊT HUMIDE DE MADÈRE. [CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD-AFRICAÏN, 16^e NOTE.] Soc. Ent. de France Bul. 42: 110-112, illus.
Chrysomphalus insularis.
- 1937b SUR UN LUZULASPIS [HEM. COCCIDAE] NOUVEAU DES HAUTES MONTAGNES DE MADÈRE. [CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD DE AFRIQUE, 17^e NOTE.] Soc. Ent. de France Bul. 42: 116-118, illus.
L. cunhii.
- 1937c LES COCHENILLES DE SEINE-ET-OISE. [CONTRIBUTION À L'ÉTUDE DES COCCIDES DE FRANCE, 23^{me} NOTE.] Soc. des Sci. Nat. de Seine-et-Oise Bul. (ser. 3) 5: 1-6.
List of 47 coccids with food plants.
- 1937d LES COCHENILLES DE FRANCE, D'EUROPE, DU NORD DE L'AFRIQUE ET DU BASSIN MÉDITERRANÉEN. I.—CARACTÈRES GÉNÉRAUX DES COCHENILLES. MORPHOLOGIE EXTERNE. Actualités Sci. et Indus., Ent. Appl. 526, 1-68, illus.
- 1937e LES COCHENILLES DE FRANCE D'EUROPE, DU NORD DE L'AFRIQUE ET DU BASSIN MÉDITERRANÉEN. II.—CARACTÈRES GÉNÉRAUX DES COCHENILLES. MORPHOLOGIE INTERNE. Actualités Sci. et Indus., Ent. Appl. 564: 73-129, illus.
- 1938 CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD DE L'AFRIQUE. (18^e NOTE). UN GENRE NOUVEAU ET UNE ESPÈCE NOUVELLE APPARTENANT À LA SOUS-FAMILLE DES ERIOCOCCINAE. Soc. Ent. de France Bul. 43: 37-40, illus.
Bouhelia maroccana n. gen. and sp.
- 1938a LES COCHENILLES DE MADÈRE. I. DIASPIDIDAE—ASTEROLECANIINAE. [CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD AFRICAÏN, 19^e NOTE.] Rev. de Path. Veg. et d'Ent. Agr. de France 25: 144-155, illus.
Collection data for 29 coccids; 16 others mentioned.
- 1939 LES COCHENILLES DE MADÈRE (SECONDE PARTIE). II. LECANIINAE—ERIOCOCCINAE—DACTYLOPINAE—ORTHEZIINAE—MARGARODIDAE. CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD DE L'AFRIQUE (20^e NOTE). Rev. de Path. Veg. et d'Ent. Agr. de France 25 (Oct. 1938): 255-272, illus.
Phenacoccus monieri n. sp. and *Eriococcus tucurinae madeirensis* n. var. described; 27 other coccids discussed, 10 others mentioned.

BALACHOWSKY, A.—Continued.

- 1939a CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD-AFRICAÏN (21^{me} NOTE).
I. UN ACLERDA NOUVEAU VIVANT SUR ALFA EN ALGÉRIE. II. REMARQUES SUR LES ACLERDA PALÉARCTIQUES. Grignon École Natl. d'Agr. Ann (ser. 3) 1: 45-47, illus.
A. pasquieri; the 3 other Palearctic species of *Aclerda* discussed briefly.
- 1939b LES COCHENILLES DE FRANCE, D'EUROPE, DU NORD DE L'AFRIQUE ET DU BASSIN MÉDITERRANÉEN. III.—CARACTÈRES GÉNÉRAUX DES COCHENILLES. REPRODUCTION—DÉVELOPPEMENT EMBRYONNAIRE; DÉVELOPPEMENT POSTEMBRYONNAIRE. Actualités Sci. et Indus., Ent. Appl. 784: 131-239, illus.
- 1940 SUR UN MARGARODES NOUVEAU APPARTENANT À LA FAUNE ALPINE DE LA SIERRA NEVADA (ANDALOUSIE) (HEM. COCC.) Internatl. Cong. Ent. 6, (Madrid, Sept. 1935) Trans. 1: 93-96, illus.
M. bolivari.
- 1941 SUR UN CHORTINASPIS FERRIS NOUVEAU D'ASIE MINEURE [HEM. COCCOIDEA, DIASPIDIDAE.] Soc. Ent. de France Bul. 46: 9-11, illus.
C. iridis; 4 other *Chortinaspis* mentioned.
- 1941a DEUX CEROCOCCUS (HEM. COCCOIDEA, ASTEROLECANIIDAE) NOUVEAUX D'ALGÉRIE. REMARQUES SUR LES CEROCOCCUS PALÉARTIQUES. [CONTRIBUTION À L'ÉTUDE DES COCHENILLES DU NORD DE L'AFRIQUE, 22^e NOTE]. Soc. Zool. de France Bul. 66: 84-94, illus.
C. oranensis, *C. steppicus*; key to 9 *Cerococcus* with collection data on each.
- 1942 ESSAI SUR LA CLASSIFICATION DES COCHENILLES (HOMOPTERA-COCCOIDEA). Grignon École Natl. d'Agr. Ann. (ser. 3) 3: 34-48, illus.
Proposes broad classification of Coccoidea into 3 "phyla" and 14 families; gives keys for recognition of each unit.
- 1946 ÉTUDE BIOGÉOGRAPHIQUE DES COCCOIDEA DES ILES ATLANTIDES (CANARIES ET MADÈRES). In CONTRIBUTION A L'ÉTUDE DU PEUPELEMENT DES ISLES ATLANTIDES. Soc. de Biogéog. [Paris] Mém. 8: 209-218, illus.
Lists known coccids (Canaries 43, Madeira 67) in groups according to their geographic origins.
- 1947 SUR UN RUGASPIDIOTUS NOUVEAU [COCCIDEA-ODONASPIDINI] ASSOCIÉ À SEPTOBASIDIUM XYLOSTROMA HEIM, EN INDO-CHINE. [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DE LA FRANCE D'OUTRE-MER, 4^e NOTE.] Soc. Ent. de France Bul. 52: 21-23, illus.
R. heimi.
- 1948 REMARQUES SUR DEUX COCHENILLES FORESTIÈRES DU GROUPE DE QUADRASPIDIOTUS OSTREAEFORMIS CURTIS NOUVELLES POUR LA FAUNE DE FRANCE. [CONTRIBUTION À L'ÉTUDE DES COCHENILLES EN FRANCE, 26^e NOTE.] Rev. de Path. Veg. et d'Ent. Agr. de France, 27: 14-24, illus.
Redescriptions of *Diaspidiotus distinctus*, *Quadraspidiotus gigas*.
- 1948a SUR LE STATUT ET LA BIOLOGIE DE QUADRASPIDIOTUS OSTREAEFORMIS CURTIS ET DE QUADRASPIDIOTUS PYRI LIGHT. [CONTRIBUTION À L'ÉTUDE DES COCHENILLES DE FRANCE, 27^e NOTE.] Rev. de Path. Veg. et d'Ent. Agr. de France 27: [89]-97, illus.
Descriptive key for separation.
- 1948b LES COCHENILLES DE FRANCE, D'EUROPE, DU NORD DE L'AFRIQUE, ET DU BASSIN MÉDITERRANÉEN. IV.—MONOGRAPHIE DES COCCOIDEA; CLASSIFICATION—DIASPIDINAE (PREMIÈRE PARTIE). Actualités Sci. et Indus., Ent. Appl. 1054: 243-394, illus.
Keys to coccoid higher groups; to 2 diaspid subfamilies, 5 diaspine tribes, and 5 aspidiotine subtribes; keys and full descriptions for 31 aspidiotine coccids in 9 genera.
- 1949 SUR UN RUGASPIDIOTUS (COCCOIDEA-ODONASPIDINI) NOUVEAU D'ORANIE. [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DU NORD-AFRICAÏN, 27^e NOTE.] Soc. d'Hist. Nat. de l'Afrique du Nord Bul. 40: 107-110, illus.
R. numidicus; status of genus discussed.

BALACHOWSKY, A.—Continued.

- 1949a REMARQUES COMPLÉMENTAIRES SUR LE GENRE MURATASPIS BALACHW. ET RICH. (HOM. COCCOIDEA). [CONTRIBUTION À L'ÉTUDE DES COCCIDES DU NORD-AFRICAÏN, 24^e NOTE.] Soc. des Sci. Nat. du Maroc Bul. 25-27: 163-165, illus. (Author lists date of this publication as 1947 In Les Cochenilles 6 (1127): 706, 1951.)
Genus redefined; key to 2 included species.
- 1949b SUR DEUX AONIDIA (HOM. COCCOIDEA) NOUVEAUX DU CYPRES ET DU LAURIER NOBLE DANS LEURS STATIONS SPONTANÉES DU HAUT-ATLAS ET DU MOYEN-ATLAS (MAROC). [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DU NORD-AFRICAÏN, 26^e NOTE.] Rev. de Path. Veg. et d'Ent. Agr. de France 28: 112-117, illus.
A. laticornis, *A. maroccana*.
- 1949c SUR UN GENRE NOUVEAU D'ASPIDIOTINI [HEM. COCCIDAE] DU SUD DE L'ANTI-ATLAS (MAROC MÉRIDIONAL). [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DU NORD DE L'AFRIQUE, 25^e NOTE.] Soc. Ent. de France Bul. 54: 74-76, illus.
Rungaspis trabuti n. gen. and sp.
- 1950 SUR DEUX TACHARDINA CKLL. (COCCOIDEA-LACCIFERINAE) NOUVEAUX DU SAHARA CENTRAL. [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DU NORD AFRICAÏN, 28^e NOTE.] Eos 26: 7-17, illus.
T. lereddei, *T. bernardi*; *Paratachardina* n. gen.; catalog list of 11 other *Tachardina*.
- 1950a SUR UN PARLAGENA (HOM. COCCOIDEA) NOUVEAU DU BELOUTCHISTAN IRANIEN. Rev. de Path. Veg. et d'Ent. Agr. de France 29: 17-20, illus.
P. mckenzei.
- 1950b LES COCHENILLES DE FRANCE, D'EUROPE, DU NORD DE L'AFRIQUE ET DU BASSIN MÉDITERRANÉEN. V.—MONOGRAPHIE DES COCCOIDEA; DIASPIDINAE (DEUXIÈME PARTIE) ASPIDIOTINI. Actualités Sci. et Indus., Ent. Appl. 1087: 397-557, illus.
Aspidiotini (cont.): Keys and full descriptions for 23 *Quadraspidotus*, 14 *Diaspidiotus*, 3 *Aspidaspis*, 1 *Gonaspidotus*; includes 3 n. spp.
- 1950c REMARQUES BIOGÉOGRAPHIQUES SUR L'AIRE DE RÉPARTITION MONDIALE DU G. KERMES [HOM. COCCOIDEA]. Internatl. Cong. Ent. [Stockholm] Proc. 8: 342-346, illus.
Brief discussion of distribution and host relations of 14 Palearctic and 29 Nearctic *Kermes*.
- 1950d LES KERMES (HOM. COCCOIDEA) DES CHÊNES EN EUROPE ET DANS LE BASSIN MÉDITERRANÉEN. Internatl. Cong. Ent. [Stockholm] Proc. 8: 739-754, illus.
Review of 5 species, with key to young larvae.
- 1951 LES COCHENILLES DE FRANCE, D'EUROPE, DU NORD DE L'AFRIQUE ET DU BASSIN MÉDITERRANÉEN. VI.—MONOGRAPHIE DES COCCOIDEA; DIASPIDINAE (TROISIÈME PARTIE) ASPIDIOTINI (FIN). Actualités Sci. et Indus., Ent. Appl. 1127: 561-720, illus.
Aspidiotini (concl.); keys for 20 genera of Aspidiotina and for 10 genera in 4 other subtribes; keys and full descriptions for 37 species; 3 of genera new; *Dynaspidotus greeni* n. sp.
- 1951a SUR UN PSEUDOCOCCINI (HOM. COCCOIDEA) NOUVEAU VIVANT SUR FICUS SALICIFOLIUS VAHL. DANS LE TASSILI N'AJJERS (SAHARA CENTRAL). Rev. de Path. Veg. et d'Ent. Agr. France 30: 197-202, illus.
Planococcus tuaregensis.
- 1952 COCCOIDEA-DIASPIDINAE NOUVEAUX DE GUINÉE FRANÇAISE (A.O.F.) [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DES COLONIES FRANÇAISES, 6^e NOTE.] Rev. de Path. Veg. et d'Ent. Agr. de France 31: 121-132, illus.
Fulaspis n. gen., *F. guilliermi*; *Nimbaspis* n. gen., *N. molaridi*, *N. reticulatus*.

BALACHOWSKY, A.—Continued.

- 1952a SUR DEUX DIASPIDINAE [HOM. COCCOIDAE] NOUVEAUX DE MOYENNE GUINÉE (A.O.F.) [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DE LA FRANCE D'OUTRE-MER, 5^e NOTE.] Soc. Ent. de France Bul. 57: 98-104, illus.
Guineaspis mignardi, n. gen. and sp.; *Aonidiella bruni* n. sp.
- 1952b SUR UN NOUVEAU GENRE DE PSEUDOCOCCINI (HOM. COCCOIDEA) DE LA RÉGION D'ALGER. Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 43 (8-9): 177-180, illus.
Trimerococcus icosianus n. gen. and sp.
- 1953 COMMUNICATIONS. I. SUR UN CENTROCOCCUS (COCCOIDEA-PSEUDOCOCCINI) NOUVEAU DU MAROC ORIENTAL. II. REMARQUES SUR LES PSEUDOCOCCINI SPINULEUX. Soc. des Sci. Nat. du Maroc, Bul. 31 (semes. 2, 1951): 277-285, illus.
I.—*C. lubersaci*; key to 3 species of genus; II.—Discusses Pseudococcini with dorsal spines and proposes new genus *Parapedronia*; gives key to 6 genera.
- 1953a SUR UN NOUVEAU GENRE DE PARLATORINI (HOM.-COCCOIDEA) ORIGINAIRE DU MASSIF DU BÉNA (MOYENNE-GUINÉE) (A.O.F.) [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DE LA FRANCE D'OUTRE MER, 7^e NOTE.] Rev. de Path. Veg. et d'Ent. Agr. de France 32: 19-23, illus.
Benaparlatoria moityi n. gen. and sp.
- 1953b SUR UNE CINQUIÈME ESPÈCE D'AONIDIELLA BERL. ET LEON. (HOM. COCCOIDEA) NOUVELLE DU CONGO BELGE. [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DU CONGO BELGE. III.] Rev. Zool. Bot. Africaines 47: 77-80, illus.
Aonidiella crenata n. sp.
- 1953c SUR UN LINDINGASPIS MACGILL. NOUVEAU DU MASSIF DU BÉNA (MOYENNE-GUINÉE) [HOM. COCCOIDEA]. [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DE LA FRANCE D'OUTRE-MER, 11^e NOTE.] Soc. Ent. de France Bul. 58: 109-112, illus.
L. benaensis n. sp.
- 1953d SUR UN DYSMICOCCUS NOUVEAU (HOM. COCCOIDEA-PSEUDOCOCCINI) NUISIBLE AU CASUARINA EN A.O.F. [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DE LA FRANCE D'OUTRE-MER, 9^e NOTE.] Inst. Franç. d'Afrique Noire Bul. 15: 1046-1050, illus.
D. senegalensis; key to 3 genera.
- 1953e SUR UN MELANASPIS CKLL. NOUVEAU VIVANT SUR PARINARIUM EN MOYENNE GUINÉE. (COCCOIDEA, DIASPIDINAE.) [CONTRIBUTION À L'ÉTUDE DES COCHENILLES DE LA FRANCE D'OUTRE-MER, 10^e NOTE.] Rev. Franç. d'Ent. 20: 146-149, illus.
M. vilardeboi; 5 other species discussed briefly.
- 1953f SUR LES KERMES BOITARD (HOM. COCCOIDEA) DES CHÊNES DU BASSIN ORIENTAL DE LA MÉDITERRANÉE. Rev. de Path. Veg. et d'Ent. Agr. de France 32: 181-189, illus.
K. echinatus, *K. spatulatus*, *K. palestiniensis* n. sp.
- 1953g LES COCHENILLES DE FRANCE, D'EUROPE, DU NORD DE L'AFRIQUE, ET DU BASSIN MÉDITERRANÉEN. VII.—MONOGRAPHIE DES COCCOIDEA; DIASPIDINAE-IV, ODONASPIDINI-PARLATORINI. Actualités Sci. et Indus. Ent. Appl. 1202: 725-929, illus.
Keys and full descriptions for 10 Odonaspini in 4 genera, for 19 Parlatorina in 6 genera, and for 15 Leucaspidina in 5 genera, 2 new.
- 1953h ARCTORTHEZIA CATAPHRACTA OLAFSEN RELIÈVE DE LA TOUNDRA BOREO-ARCTIQUE DES HAUTS SOMMETS ALPINS [COCCOIDEA ORTHEZIIDAE]. L'Entomologiste 9: 93-95.
Discusses distribution in Swedish Lapland, Norway, Alpine regions, and elsewhere.

BALACHOWSKY, A.—Continued.

- 1953i DEUX PSEUDAONIDIA CKLL. (HOM. COCCOIDEA-DIASPIDINAE) NOUVEAUX DU MASSIF DU BÉNA (MOYENNE GUINÉE) A.O.F. Inst. Franç. d'Afrique Noire, Bul. 15: 1512-1522, illus.
P. gigantea, *P. pavettae* n. spp.; several related genera and species mentioned in discussion.
- 1953j I. SUR UN PSEUDOCOCCINI (HOM. COCCOIDEA) NOUVEAU DU CAP BON (TUNISIE). II. PRÉSENCE DE RHIZASPIDIOTUS BIVALVATUS GOUX (COCCOIDEA, DIASPIDINAE) EN AFRIQUE DU NORD. Soc. des Sci. Nat. de Tunisie, Bul. 6 (1952-53): 227-253, illus.
Parapedronia mathisi n. sp.
- 1953k SUR UN HEMIBERLESIA CKLL. NOUVEAU DES MONTAGNES DU CAMÉROUN. (HOMOPTERA; COCCOIDEA). [CONTRIBUTION À L'ÉTUDE DES COCCOIDEA DE LA FRANCE D'OUTRE MER, 8^e NOTE.] Beitr. z. Ent. 3: 111-115, illus.
H. manengoubae; notes on genus and key to 14 species.
- 1953l SUR UN HELIOCOCCUS SULC (COCCOIDEA-PSEUDOCOCCINI) NOUVEAU, VIVANT À 3600 MÈTRES D'ALTITUDE DANS LES ALPES DU DAUPHINÉ ET DU TYROL. Schweiz Ent. Gesell. Mitt. 26: 236-240, illus.
H. nivearum n. sp., *H. n. austriacus* n. subsp.; 19 species of genus discussed very briefly.
- 1953m SUR DEUX PSEUDOCOCCINI HOM. (COCCOIDEA) NOUVEAUX APPARTENANT À LA FAUNE ALPINE D'ALTITUDE. Schweiz. Ent. Gesell. Mitt. 26; 295-300, illus.
Puto janetscheki, *P. alpinus*.
- 1953n SUR LE STATUT DES GENRES PUTO SIGNORET, CEROPUTO SULC., ET MACROCEROCOCCUS LEONARDI. Schweiz. Ent. Gesell. Mitt. 26: 301-304.
Genera defined; synonymy; palearctic inclusions listed.
- 1953o REMARQUES COMPLEMENTAIRES SUR LE STATUT DES GENRES ECHINOCOCCUS BALACHW. ET CENTROCOCCUS BORKHSENIUS (COCCOIDEA-PSEUDOCOCCINI). Soc. des Sci. Nat. du Maroc. Bul. 33 (trimest. 3): 145-147.
Artemicoccus n. gen. for *unispinus*, *bispinus*, and *lubersaci* previously in *Centrocooccus* Borkh.
- 1954 SUR DEUX SELENASPIDUS CKLL. NOUVEAUX (COCCOIDEA-DIASPIDIDAE) DE GUINÉE FRANÇAISE ET DU HAUT CAMEROUN. Rev. de Path. Veg. et d'Ent. Agr. de France 33: 57-63, illus.
S. malzyi, *S. aspidiotiformis*.
- 1954a SUR UNE NOUVELLE ESPÈCE D'ERIOCOCCINI DE LA FORÊT DE FONTAINEBLEAU AVEC CRÉATION D'UN GENRE NOUVEAU. [HOM. COCCOIDEA.] Soc. Ent. de France Bul. 59: 61-64, illus.
Anophococcus gouxi.
- 1954b ÉTUDE COMPARATIVE DES COCHENILLES DU CEDRE AU LIBAN ET EN AFRIQUE DU NORD. Rev. de Path. Veg. et d'Ent. Agr. de France 33: 108-114, illus.
Phenacoccus arambourgi n. sp.; 6 other coccids on cedar discussed.
- 1954c REMARQUES SUR LE G. AFRICONIDIA MCKENZIE (COCCOIDEA-DIASPIDINAE) AVEC DESCRIPTION D'UNE ESPÈCE NOUVELLE DU CAMEROUN MERIDIONAL. Eos 30: 77-80, illus.
Assigns 4 described species to genus and adds *A. carreti* n. sp.
- 1954d SUR DEUX AONIDIELLA BERL. ET LEON. (HOM. COCCOIDEA) NOUVEAUX DU CONGO BELGE. Mus. Roy. du Congo Belge, Tervuren. Ann., (n. s. in -4°) Soc. Sci. Zool. 1: 296-300, illus.
A. rex, *A. schoutedeni*.
- 1954e LES COCHENILLES PALEARCTIC DE LA TRIBU DES DIASPIDINI. Inst. Pasteur [Paris] Mem. Sci., 450 p., illus.
Monographic treatment for 42 genera and 110 species, including 4 new genera and 6 new species.
- 1954f SUR L'ORIGINE ET LE DÉVELOPPEMENT DES INSECTES NUISIBLES AUX PLANTES CULTIVÉES DANS LES OASIS DU SAHARA FRANCAIS. Biology of Deserts, Proc. Symposium Inst. Biol. 1954: 90-103. J. L. Cloudsley-Thompson, ed.
Coccids (about 10) mentioned in discussion.

BALACHOWSKY, A.—Continued.

1954g SUR L'INDIGÉNAT ET LE STATUT DE CATENOCOCCUS LORANTHI STRICKL. (COCCOIDEA-PSEUDOCOCCINI) EN AFRIQUE OCCIDENTALE. Rev. de Path. Veg. et d'Ent. Agr. de France 33: 247-250, illus.

Discusses generic position of *Farinococcus loranthi* Strickland and concludes that it assigns more satisfactorily to *Catenococcus* Ferris; new improved figure presented.

1955 CONTRIBUTIONS A L'ÉTUDE DE LA FAUNE ENTOMOLOGIQUE DU RUANDA-URUNDI (MISSION P. BASILEWSKY 1935) PT. I HOMOPTERA COCCOIDEA. SUR UN ASPIDIOTUS BOÛCHÉ (DIASPIDIDAE-ASPIDIOTINI) NOUVEAU DU RUANDA (CONTRIBUTION A L'ÉTUDE DES COCHENILLES DU CONGO BELGE, 4^e NOTE). Mus. Roy. du Congo Belge, Tervuren, Ann. (ser. in -8°) Sci. Zool. 36: 390-393.

A. ruandensis; lists also the 6 other African members of the group to which this belongs.

See also Picard F., and Balachowsky, A.

BALACHOWSKY, A., and GOSSELIN, M. T.

1950 CONSERVATION ET PRÉPARATION MICROSCOPIQUE DES COCHENILLES ET DES PUCERONS. l'Entomologiste 6: 40-47.

BALACHOWSKY, A., and KAUSSARI, M.

1951 COCCOIDEA-DIASPINAÉ NOUVEAUX DU SUD-EST DE L'IRAN. Soc. Fouad. 1^{er} d'Ent. Bul. 35: 1-15, illus.

Chortinaspis salavatiani, *Pseudotargionia orientalis*, *Salicicola davatchi*.

1953 SUR UN MELANASPIS CKLL. NOUVEAU (COCCOIDEA-DIASPIDINAÉ) VIVANT SUR CHÊNE EN IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 32: 28-31, illus.

M. louristanus.

1955 SUR UN ACANTHOMYTILUS BORK., (DIASPIDINAÉ-LEPIDOSAPHEDINA) NOUVEAU DU SUD DE L'IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 34: 238-240, illus.

A. farsianus.

See also Kaussari, M., and Balachowsky, A.

BALACHOWSKY, A., and RICARDEAU, D.

1942 SUR UN NOUVEAU GENRE DE COCCOIDES VIVANT SUR TAMARIX DANS LE SAHARA NORD-AFRICAINE AVEC DESCRIPTION D'UNE ESPÈCE NOUVELLE. Soc. Ent. de France Bul. 47: 100-103, illus.

Murataspis claviformis.

BALLOU, C. H.

1926 LOS COCCIDOS DE CUBA Y SUS PLÀNTAS HOSPEDERAS. Cuba Estac. Expt. Agron. Bul. 51, 47 p.

List of 79 fully identified and 25 incompletely identified coccids with collection data.

1934 INFORME ANUAL 1933: SECCION DE ENTOMOLOGIA. C.N.A. Cent. Nac. de Agr. [Costa Rica] Bul. 16: 47-56.

Discusses briefly 9 Costa Rican economic coccids in relation to their hosts.

1936 INFORME ANUAL 1934. ENTOMOLOGIA. C.N.A. Cent. Nac. de Agr. [Costa Rica] Bul. 18: 95-142 (coccids on all but 11 p.)

Lists 21 Costa Rican economic coccids under their host associations.

1936a INSECTOS OBSERVADOS DURANTE EL AÑO 1934. C.N.A. Cent. Nac. de Agr. [Costa Rica] Bul. 20, 60 p., illus.

Lists 20 Costa Rican economic coccids under their host associations.

BANKS, C. S.

1906 NEW PHILIPPINE INSECTS. Philippine Jour. Sci. 1: 229-236, illus.

Describes 6 new coccids.

1906a A CHANGE OF NAME IN COCCIDAE. Philippine Jour. Sci. 1: 787.

Chionaspis candida Banks changed to *C. inday* Banks.

BANTI, A.

- 1893 DESCRIZIONE E FIGURE DELLO ASPIDIOTUS CERATONIAE COLV. Riv. di Patol. Veg. 2: 12-21, illus.

BARANYOVITS, F.

- 1953 SOME ASPECTS OF THE BIOLOGY OF ARMoured SCALE INSECTS. Endeavour 12: 202-209, illus. (col.).
Several species mentioned; molting, feeding, and scale formation of *Aonidiella aurantii* described in detail.

BARNES, D. F., see STAFFORD, E. M., and BARNES, D. F.

BASINGER, A. J.

- 1934 REPRODUCTION IN MEALYBUGS. Ent. Soc. Amer. Ann. 27: 17-20.
Report on experiments with *Pseudococcus gahani* and *Phenacoccus gossypii*.

BATTAGLIA, E.

- 1950 SULLA TERMINOLOGIA DEI PROCESSI MEIOTICI. 2.^o CONTRIBUTO: MEIOSI NEI COCCIDI (COCCIDAE-HOMOPTERA). Caryologia 3: 47-71, illus.
English summary. 20 coccids mentioned in discussion of terminology of meiosis.

BAUDYS, E.

- 1924 CONTRIBUTION TO THE DISTRIBUTION OF COCCIDS IN CZECHOSLOVAKIA. (In Czech.) Českoslov. Spolec. Ent. Casopis 21: 18-22.
Czech host and distribution records for 23 coccids.

BAYER, C. G. F. H.

- 1929 OVER DE BIOLOGIE VAN PSEUDOCOCCUS ADONIDUM (LINN.) WESTW. Leiden, Ijdo. 144 p. Thesis (Ph. D.)—Rijks Univ., Leiden.
Detailed report on experiments on behavior under various conditions involving effect of gravity and of white and colored lights.

BAZAN, R., and KOHLER, P.

- 1937 LA COCHINILLA NEOCOELOSTOMA XEROPHILA HEMP. PRODUCTORA DE "LACA". Soc. Cient. Argentina An. 123: 97-112, illus.
Different stages described in detail.

BEAN, J. L., and GODWIN, P. A.

- 1955 DESCRIPTION AND BIONOMICS OF A NEW RED PINE SCALE, MATSUCOCCUS RESINOSAE. Forest Sci. 1: 164-176, illus.
Includes notes on life history and control, and a review of other *Matsucoccus* on pine.

BECCARI,—, see TARGIONI TOZZETTI, A., 1877.

BECK, R.

- 1861 ON THE METAMORPHOSES OF A COCCUS FOUND UPON ORANGES. Micros. Soc. London Trans. (n.s.) 9: 47-49, illus. Also in Zoologist 19 (1861): 7724-7726.
Coccus sp. [*Lepidosaphes beckii* (Newm.)]

BECKMANN, J.

- 1790 I. KERMES. COCHENILLE. Beitr. zur Gesch. der Erfindungen 3: 1-46.
General discussion of dye-producing coccids; uses names *Coccus arborum* for Spanish and French Kermes and *Coccus radicum* for Polish ground pearl.

BEER, R. E. See PRITCHARD, A. E., and BEER, R. E.

BELLIO, G.

- 1928 RIDESCRIZIONE DEL GEN. TSUKUSHIASPIS [HEMIPTERA: COCCIDAE] DELL'ESTREMO ORIENTE. Portici, R. Ist. Super. Agr., Lab. Zool. Gen. e Agr. Bol 21: 302-309, illus.
Suggests relationship to *Lepidosaphes* and *Chionaspis*; detailed description of *T. bambusae*.

BELLIO, G.—Continued.

1929 DESCRIZIONE DI UN NUOVO GENERE DI DIASPINAE (HEMIPTERA: COCCIDAE) DELL' ESTREMO ORIENTE. Portici, R. Ist. Super Agr., Lab. Zool. Gen. e Agr. Bol. 22: 159-165, illus.

Silvestraspis sinensis.

1929a NOTE SU DIASPINAE DELL' ESTREMO ORIENTE CON DESCRIZIONE DI NUOVE SPECIE. (HOMOPTERA: COCCIDAE). Portici R. Ist. Super Agr., Lab. Zool. Gen. e Agr. Bol. 22: 219-243, illus.

Porogymnaspis silvestrii, *Parlatoria (Websteriella) alba*, *P. stigmatisculosa* n. spp.; *Parlatoria pergandei dives* n. var.; 5 other *parlatorias* redescribed.

1929b RISULTATI ZOOLOGICI DELLA MISSIONE INVIATA DALLA R. SOCIETÀ GEOGRAFICA ITALIANA PER L'ESPLORAZIONE DELL' OASI DI GIARABUB (1926-1927). COCCIDAE (HEMIPTERA). Genoa Mus. Civ. Storia Nat. Ann. 53 (1928-30): 187-194, illus.

Extended redescription of *Targionia nigra*.

1929c SULLA VARIABILITÀ DI ALCUNI CARATTERI IN LEUCASPIS RICCAE TARG. (HEMIPTERA: COCCIDAE). Portici, R. Ist. Super. Agr., Lab. di Zool. Gen. e Agr. Bol. 22: 148-158, illus.

Describes variation in pygidial characters.

1939 HEMIPTERA. COCCIDAE. In Missione biologica nel paese dei Borana. Raccolte zoologiche. Roma, R. Accad. d'Ital. 3: 225-239, illus.

Ceroplastes mimosae neghellii n. var.; *Ceroplastodes zavattarii* n. sp.; *Selenaspidus silvaticus* redescribed.

BERG, C.

1899 SUBSTITUCION DE NOMBRES GENERICOS. III. Buenos Aires Mus. Nac. Comunicaciones 1: 77-80 (78).

Proposes *Trionymus* as a new name for *Signoretia* Kraatz, 1888.

BERLESE, A.

1893 LE COCCINIGLIE ITALIANE VIVENTI SUGLI AGRUMI. PARTE I. I. DACTYLOPIUS. Riv. di Patol. Veg. 2: 70-109, 129-193, illus. Also issued as a repaged reprint in *Le Cocciniglie Italiane viventi sugli agrumi*, Pt. 1, p. 1-106, 1893.

A detailed study of the external and internal anatomy and histology of *Dactylopius citri* and *D. longispinus*; other coccids mentioned.

1894 LE COCCINIGLIE ITALIANE VIVENTI SUGLI AGRUMI. PARTE II. I. LECANIUM. Riv. di Patol. Veg. 3: 49-100, illus. (Cont.) Also issued as a repaged reprint in *Le Cocciniglie Italiane viventi sugli agrumi*, Pt. 2, p. 107-158, 1894.

First part of a very detailed study of the external and internal anatomy and histology of *Lecanium hesperidum* and *L. oleae*; other coccids mentioned.

1895 LE COCCINIGLIE ITALIANE VIVENTI SUGLI AGRUMI. PARTE II. I. LECANIUM. Riv. di Patol. Veg. 3: 129-171, illus. Also issued as a repaged reprint in *Le Cocciniglie Italiane viventi sugli agrumi*, Pt. 2, p. 159-201, 1894.

Second and final part of a detailed study of *L. hesperidum* and *L. oleae*.

1895a PICCOLE COMUNICAZIONI: G. DEL GUERCIO—LA COCCINIGLIA DEL PANDANUS UTILIS RONS (BULL. D. R. SOC. TOSCANA DI ORTICULTURA—GUIGNO 1894, NUM. 6). [R. Soc. Toscana di Ort. Bul. 19 (ser. 2, v. 9): 177-183.] Riv. di Patol. Veg. 3: 366-368.

Criticizes proposal of name *Fiorinia pandaniana* by Del Guercio.

1895b LE COCCINIGLIE ITALIANE VIVENTI SUGLI ARGUMI. PARTE III. I. DIASPITI. [CAP. I. NOTE DI SISTEMATICA E DESCRIZIONE DELLE SPECIE.] Riv. di Patol. Veg. 4 (1896): 74-170 illus. (Cont.) Also issued as a repaged reprint in *Le Cocciniglie Italiane viventi sugli agrumi*, Pt. 3, p. 203-308, 1896.

First section of a very detailed study of the classification, external and internal anatomy, and histology of 5 common diaspid coccids attacking citrus; other coccids mentioned.

BERLESE, A.—Continued.

1895c REVIEW OF G. DEL GUERCIO—COCCINIGLIE NUOVO NOTE E POCO NOTE—
(IL NAT. SICILIANO, N. 8, MAY 1894). [Il Nat. Siciliano 13: 141-158,
1894.] Riv. di Patol. Veg. 4 (1896): 185.

Synonymyzes *Aspidiotus pyricola* del G. with *Diaspis ostreaeformis*
and *Aspidiotus targionii* with *Parlatoria proteus*.

1896 LA COCCINIGLIE ITALIANE VIVENTI SUGLI AGRUMI. PARTE III. I. DIASPITI
(CAP. II. OSSERVAZIONI ANATOMICHE. CAP. III. CENNI DI BIOLOGIA E
DANNI CHE I DIASPITI RECANO ARLI AGRUMI.) Riv. di Patol. Veg. 4
(1895-96): 195-292; 5: 3-73, illus. Also issued as a repaged reprint
in *Le Cocciniglie Italiane viventi sugli agrumi*, Pt. 3, p. 309-477,
illus.

Second section of a detailed study of the classification, external and
internal anatomy, and histology of 5 common diaspid coccids attack-
ing citrus; other coccids mentioned.

1903 SOPRA UNA NUOVA SPECIE DI COCCINIGLIA (MYTILASPIS FICIFOLII) CHE
ATTACCA LE FOGLIE DEL FICO. R. Ist. d'Incoragg. di Napoli, Atti. 5
(12): 1-5.

BERLESE, A., and LEONARDI, G.

1895 CHERMOTHECA ITALICA COCCINIGLIE RACCOLTE IN ITALIA.
Fasc. 1 (Nos. 1-25). Portici, Vesuviano.
Printed sheets accompanying 25 samples of Italian coccids.

1895a DIAGNOSI DI COCCINIGLIE NUOVE. (CONT.) Riv. di Patol. Veg. 3: 346.
Parlatoria calianthina n. sp.

1896 DIAGNOSI DI COCCINIGLIE NUOVE. (CONT.) [No additional parts found
under joint authorship. See also Leonardi, G., 1898a and 1906
(titles same as above).] Riv. di Patol. Veg. 4: 345-352, illus.
Describes 2 new genera, 5 new species.

1897 CHERMOTHECA ITALICA COCCINIGLIE RACCOLTE IN ITALIA. Fasc.
2 (Nos. 26-50). Portici, Vesuviano.
Printed sheets accompanying 25 samples of Italian coccids.

1898 CHERMOTHECA ITALICA COCCINIGLIE RACCOLTE IN ITALIA. Fasc. 3
(Nos. 51-75). Portici, Vesuviano.
Printed sheets accompanying 25 samples of Italian coccids.

1898a NOTIZIE INTORNO ALLE COCCINIGLIE AMERICANE CHE MINACCIAANO LA
FRUTTICULTURA EUROPEA. Ann. di Agr. Rome (ser. 2) 142 p., illus.
Also in Riv. di Patol. Veg. 6 (1897): 284-320; 6 (1898): 321-352;
7 (1899): 257-273, illus.

BERLESE, A., and PAOLI, G.

1906 SERIE MASCHILE DELLA "POLLINIA POLLINII" COSTA. Redia 3 (1905):
393-395, illus.
Description of adult male.

BERLESE, A., and SILVESTRI, F.

1906 DESCRIZIONE DI UN NUOVO GENERE E DI UNA NUOVA SPECIE DI "LECAN-
ITE" VIVENTE SULL'OLIVO. Redia 3 (1905): 396-407, illus.
Euphilippia olivina.

BERNARD, J.

1773 [COCCUS CARICAE N. SP.] Mem. Acad. Marseille, p. 89. (Not seen;
citation given on page 156 of Fernald Catalog.)

1782? MÉMOIRE POUR SERVIR A L'HISTOIRE NATURELLE DE L'OLIVIER. [Paris]
xviii, 255 p. (108-110.)
Describes and discusses a "Kermes sur les oliviers" but presents no
Linnean binomial. Fernald (p. 205) lists Mem. d'Hist. Nat. Acad.
Marseille, p. 108, for *Chermes oleae*.

BERRO, J.

1931 TÉCNICA DE LA PREPARACIONES MICROGRÁFICAS PARA EL ESTUDIO DE COC-
CIDOS. Bol. de Patol. Veg. y Ent. Agr. 5 (1930): 38-46, illus.

BETREM, J. G.

1936 DE OECOLOGIE EN EPIDEMIOLOGIE VAN DE WITTE LUIZEN. Arch. v. Koffiecult. Ned. Indie 10 (2): 87-186, illus. (Not seen. Reference from Rev. Applied Ent. 26A: 607.)

English summary.

1937 MORPHOLOGY AND SYSTEMATICS OF SOME OF THE PRINCIPAL MEALY BUG SPECIES OF JAVA. (HOM. COCC.) (In Dutch.) Arch. v. Koffiecult. Nederland Indie 11: 1-118, illus.

English summary. Discussion of mealybug anatomy and biology; keys to 6 coccid subfamilies, 27 pseudococcine genera or species groups, and to 27 *Pseudococcus* species; 16 mealybugs in 6 genera described, 5 as new species.

1940 A NEW RHIZOECUS SPECIES. Treubia 17: 267-270, illus.

R. amorphophalli.

BLANCHARD, C. E.

1840 SEPTIÈME FAMILLE.—COCCINIENS; GALLINSECTES, LATR. Hist. Nat. des Insectes 3: 210-215 (213-215).

Short descriptions of family and of 6 genera and 18 species, with literature citations.

BLANCHARD, R.

1883 LES COCCIDÉS UTILES. Soc. Zool. de France Bul. 8: 217-328, illus.

An extended treatise on useful coccids.

1897 SUR LES COCHENILLES DU GENRE ORTHEZIA BOSCH, 1784. Soc. Ent. de France Ann. 65 (1896): 678-683, illus.

Redescription of *Orthezia urticae* and *O. uva* with indications of synonymy.

BLATTNY, C., and NOVICKY, S.

1926 STUDIES ON LECANIUM CORNI BOUCHÉ. (In Czech.) [Czechoslovakia] Min Zeměděl. Sborn. Vyskumn. Ust. Zeměděl. 17, 96 p., illus. (col.).

German and French summaries. Description, biology, history in Czechoslovakia, economic importance, natural enemies.

BLISS, C. I., and others

1935 PRODUCTIVITY OF THE CAMPHOR SCALE AND THE BIOLOGY OF ITS EGG AND CRAWLER STAGES. Jour. Agr. Res. 50: 243-266.

BODENHEIMER, F. S.

1924 THE COCCIDAE OF PALESTINE. FIRST REPORT ON THIS FAMILY. Palestine Zion Exec. Agr. Expt. Sta., Inst. Agr. and Nat. Hist. Bul., 100 p., illus.

Keys to 7 subfamilies, 27 genera; descriptions of 65 coccids including 6 n. spp.; host list; records for 2 additional coccids.

1926 PREMIÈRE NOTE SUR LES COCHENILLES DE SYRIE. Soc. Ent. de France Bul. 1926 (Nos. 3/4): 41-47, illus.

Kermococcus (Kermes) biblicus n. sp.; also host and distribution records for 28 other coccids.

1926a SECOND NOTE ON THE COCCIDAE OF PALESTINE. Bul. Ent. Res. 17: 189-192, illus.

Pulvinaria pistaciae, *Pseudococcus daganiae* n. spp.; 12 other coccids added to Palestine list.

1927 LES FRONTIÈRES ÉCOLOGIQUES D'UNE COCHENILLE LE GUERINIA SERRATULAE FAB. Soc. Ent. de France Bul. 1927 (No. 12): 195-198.

Geographic distribution and relation of climatic factors to this species.

1927a THIRD NOTE ON THE COCCIDAE OF PALESTINE. Reprinted from Zionist Organ. Agr. Expt. Sta., Inst. Agr. and Nat. Hist., Agr. Rec. 1(2): 177-186, illus.

Trabutina palestina and *Ripersia asphodeli* n. spp. described; notes on 10 other species, including *Kermococcus greeni* nom. nud.

BODENUEIMER, F. S.—Continued.

- 1927b FIRST NOTE ON THE ZOOCCECIDIA OF PALESTINE. Soc. Roy. Ent. d'Egypte Bul., 1926 (Feb. 18): 64-88 (79-81).
Includes list of 10 coccids reported as forming zoocecidia.
- 1929 See BODENHEIMER, F. S., and THEODOR, O. 1929.
- 1930 CONTRIBUTION TO THE KNOWLEDGE OF CITRUS INSECTS IN PALESTINE. III. ON THE ZOOGEOGRAPHY AND ECOLOGY OF CITRUS INSECTS, PARTICULARLY THOSE OF PALESTINE AND MEDITERRANEAN COUNTRIES. Hadar 3: 3-19. [Original contains many errors, all of which have been corrected by author in reprint.]
Numerous coccids listed in discussion.
- 1931 ZUR KENNTNIS DER PALÄARKTISCHEN KERMESÄRTEN (RHY. COCC.) Konowia 10: 241-247, illus.
Kermes nahalali, *K. greeni*, n. spp.; tabular presentation of characteristics of 17 species.
- 1935 STUDIES ON THE ZOOGEOGRAPHY AND ECOLOGY OF PALAEARCTIC COCCIDAE I-III. Eos 10 (1934): 237-271.
Discusses the distribution of 429 coccids into subareas, and of 112 Palestinian coccids in detail.
- 1939 ON THE ZOOGEOGRAPHICAL CHARACTER OF THE COCCID FAUNA OF CENTRAL ASIA. Roy. Ent. Soc. London, Proc., Ser. A: Gen. Ent. 14: 9-12.
Review based on paper by Archangelskaya.
- 1941 SEVEN NEW SPECIES OF COCCIDAE FROM ANATOLIA. Istanbul. Univ. Fac. des Sci. Rev., Ser. B. 6: 65-84, illus.
- 1943 A FIRST SURVEY OF THE COCCOIDEA OF IRAQ. Iraq. Dir.-Gen. Agr. Bul. 28, 33 p., illus.
Archaspis and *Koroneaspis* n. gen.; 17 new coccids out of 60 reported from Iraq; 3 n. spp. from Palestine and Iran.
- 1944 A CONCHASPID FROM KURDISTAN AND ITS IMPORTANCE IN THE PHYLOGENY OF THE DIASPIDAE (HEMIPTERA). Roy. Ent. Soc. London, Proc., Ser. B: Taxonomy 13: 4-5, illus.
Comments on relationship to other coccids of *Archaspis ephedrae*—placed in Conchaspidae.
- 1944a ADDITIONS TO THE COCCOIDEA OF IRAQ, WITH DESCRIPTIONS OF TWO NEW SPECIES [HEMIPTERA-HOMOPTERA]. Soc. Fouad I^{er} d'Ent. Bul. 28: 81-84.
Reports on 22 coccids, including *Pärlatoria morrisoni*, *Aclerda wiltshirei*, n. spp.
- 1944b NOTE ON THE COCCOIDEA OF IRAN, WITH DESCRIPTIONS OF NEW SPECIES [HEMIPTERA-HOMOPTERA]. Soc. Fouad I^{er} d'Ent. Bul. 28: 85-100.
List, with notes, of 62 coccids, including *Filippia gossypii*, *Pseudococcus fathyi*, *Thymaspis salicis*, *Fiorinia afchari*, n. spp.
- 1949 THE COCCOIDEA OF TURKEY. DIASPIDIDAE. A MONOGRAPHIC STUDY. Ankara, Güney. (Pub. Office No. 670.) 264 p. (In Turkish.)
Describes and discusses 32 genera and 65 coccids, including *Genistaspis* n. gen., *G. zelihæ*; *Anatolaspis* n. gen., *A. abidini*; *Forbesaspis anatolica*, *Pinnaspis acantholimoni* n. spp.
- 1951 DESCRIPTION OF SOME NEW GENERA OF COCCIDAE. Ent. Ber. 13 (315): 328-331.
Characterizes 10 new genera; establishes 2 additional genera by reference to previously published characterizations.
- 1952 THE COCCOIDEA OF TURKEY. I. Istanbul. Univ. Facult. des. Sci. Rev. Ser. B. 17: 315-351, illus.
Appears to be reprint in English, with some modifications, of first part (general and 22 species) of Bodenheimer's Monograph of Turkish Diaspididae published in Turkish in 1949.

BODENUEIMER, F. S.—Continued.

1953 THE COCCOIDEA OF TURKEY. II. Istanbul. Univ. Facult. des Sci. Rev., Ser. B., 18: 1-61, illus. (Cont.)

Appears to be a reprint in English, with some modifications, of second part (43 species) of Bodenheimer's Monograph of Turkish Diaspididae published in Turkish in 1949; generic name *Ferrisi* presented without description.

1953a THE COCCOIDEA OF TURKEY. III. Istanbul. Univ. Facult. des Sci. Rev., Ser. B., 18: 91-164, illus. (Concl.)

Dactylopiidae through Ortheziidae of Turkey; 76 coccids considered, including 1 n. gen., 7 n. spp.; keys to groups and genera.

BODENHEIMER, F. S., and THEODOR, O.

1929 ERGEBNISSE DER SINAI-EXPEDITION 1927. Leipzig, Hinrichs. 143 p., illus. Teil I. Reisebericht, p. 1-19 (2,4,5,7,9,10,12,14,18); 21 coccids mentioned in discussion;

Teil II. Allgemein zoologischer Bericht, p. 20-44 (28, 34, 35-37); 16 coccids mentioned in discussion;

Teil III. Über das Tamariskenmanna des Sinai, p. 45-98 (45-75, 79-88) (F. S. Bodenheimer); 5 coccids mentioned or described;

Teil IV. Die Coccidenfauna de Sinai-Halbinsel p. 104-117 (F. S. Bodenheimer); 39 coccids described or listed including 1 n. gen., and 6 n. spp.

All new species were described by Bodenheimer, not both authors.

BODKIN, G. E.

1914 THE SCALE INSECTS OF BRITISH GUIANA. A PRELIMINARY LIST WITH AN ACCOUNT OF THEIR HOST PLANTS, NATURAL ENEMIES AND CONTROLLING AGENCIES. Brit. Guiana Bd. Agr. Jour. 7: 106-124.

1917 NOTES ON THE COCCIDAE OF BRITISH GUIANA. Bul. Ent. Res. 8: 103-109. List of 66 coccids with collection notes.

1922 THE SCALE INSECTS OF BRITISH GUIANA. Brit. Guiana Bd. Agr. Jour. 15: 56-63.

List of 94 coccids, some with collection data.

BOGUE, E. E.

1898 TWO NEW SPECIES OF KERMES FROM KANSAS. Canad. Ent. 30: 172. *K. pubescens* Bogue and *K. concinnulus* Ckll.

1900 A NEW SPECIES OF KERMES. Canad. Ent. 32: 205-206. *K. trinotatus*.

BOISDUVAL, A. M.

1867 ESSAI SUR L'ENTOMOLOGIE HORTICOLE. Paris, Donnaud. 648 p. (33-34, 42-43, 82, 300-358), illus. Section on *Kermes* also in L'Insectologie Agr. 1: 220-224, 309-312; 2: 30-31, 60-64, 84-95, 127, 155-159.

Discusses 32 "*Chermes*" and 10 "*Coccus*" regarded as injurious, including about 15 named for first time.

1868 CONFÉRENCE FAITE LE 18 AOUT PAR LE DR. BOISDUVAL, AU PALAIS DE L'INDUSTRIE, SUR LES INSECTES QUI ONT RAVAGÉ LES PLANTES EXPOSÉES PAR MM. BUREL ET RIVIÈRE. L'Insectologie Agr. 2: 266-283 (279-283).

Discusses 16 coccid species, including *Chermes arecae* apparently first named here.

1868a NOTE SUR DEUX COCCIDES NOUVELLES TROUVÉES PAR M. BUREL DANS LES SERRES CHAUDES À PARIS. L'Insectologie Agr. 2: 301.

Brief descriptions of *Coccus aureus* and *Chermes pandani*.

BOITARD, P.

1828 LES GALLINSECTES. In Manuel d'Entomologie ou Histoire Naturelle des Insectes, v. 2, p. 169-172.

Discusses 18 coccids, none new; has been accepted as first source of coccid genus *Kermes*.

BOLLE, J.

1914 DIE SCHILDLAUS DES MAULBEERBAUMES (DIASPIS PENTAGONA, T. T.) UND DEREN BIOLOGISCHE BEKÄMPFUNG. Ztschr. f. Agnew. Ent. 1: 196-213, illus.

Life history and parasite control.

BOLLOW, H. See BRANDT, H., and BOLLOW, H.

BONDAR, G.

1925 MOLESTIAS E INIMIGOS DO CACAOEIRO NO ESTADO DA BAHIA-BRAZIL. O Cacao [Bahia] pt. 2, 118 p. (55-63).

Describes *Ceroplastodes bahiensis*, *costa-limae*, *melzeri*, *theobromae*, n. spp.

1929 UM NOVO GENERO E NOVA ESPECIE DE PULGOES DA BAHIA. (HOMOPTERA, COCCIDAE, PSEUDOCOCCINAE). Bol. Biol. 16: 59-64, illus.

Limacoccus serratus.

BONNEMAISON, L.

1936 MORPHOLOGIE COMPARÉE DU "POU DE SAN JOSE" (AONIDIELLA PERNICIOSA COMST.) ET DE L'ASPIDIOTUS DES ARBRES FRUITIERS (ASPIDIOTUS OSTREAIFORMIS CURTIS). Rev. de Path. Veg. et d'Ent. Agr. de France 23: 230-243, illus.

Detailed comparison.

BORATYNSKI, K. L.

1928 SUR L'ANATOMIE DE LA FEMELLE DE MARGARODES POLONICUS CKLL. Soc. de Biol. [Paris] Compt. Rend. 99: 1045-1047.

1951 ON THE BIOLOGY OF SOME BRITISH COCCOIDEA. Roy. Ent. Soc., London, Proc., Ser. A.: Gen. Ent. 26: 43-44.

Notes on 4 coccids.

1952 OBSERVATIONS ON MATSUCOCCUS PINI (GREEN) AND A SPECIES OF MATSUCOCCUS CKLL. FROM RUSSIA (HOMOPTERA, COCCOIDEA, MARGARODIDAE). Ann. and Mag. Nat. Hist. (ser. 12) 5: 507-508.

Russian specimens *Matsucoccus* sp., not *M. pini*.

1952a MATSUCOCCUS PINI (GREEN, 1925) (HOMOPTERA, COCCOIDEA: MARGARODIDAE). BIONOMICS AND EXTERNAL ANATOMY WITH REFERENCE TO THE VARIABILITY OF SOME TAXONOMIC CHARACTERS. Roy. Ent. Soc., London, Trans. 103: 285-326, illus.

A thorough study; description of all stages; key to 16 *Matsucoccus*.

1952b SEXUAL DIMORPHISM IN THE SECOND INSTAR OF SOME DIASPIDIDAE (HOMOPTERA: COCCOIDEA). Roy. Ent. Soc., London, Trans. 104: 451-479, illus.

Describes and discusses condition in 7 common European diaspidine coccids.

1955 COCCOIDEA (HEM. HOMOPTERA) FROM THE AUSTRIAN TYROL. Ent. Monthly Mag. 91: 66-67.

Collection notes on 15 coccids, with remarks on the status of various forms of *Carulaspis*.

BORCHSENIUS, N. S. (Borkhsenius, N. S., Borkschenius, N. S., Borkshenius, N. S.)

1934 SURVEY OF THE COCCID FAUNA OF THE BLACK SEA COAST OF THE CAUCASUS. (In Russian.) 37 p.

List of 67 coccids with collection data; includes *Hemisphaerococcus* n. gen., *H. rubi* n. sp. nom. nud., and *Phenacoccus morrisoni* n. sp., nom. nud.

1935 FIVE NEW SPECIES OF SCALES (COCCIDAE) MORPHOLOGICALLY ALLIED TO SAN JOSÉ SCALE (ASPIDIOTUS PERNICIOSUS COMST.) (In Russian). [Leningrad] Inst. Zashch. Rast. (Lenin Acad. Agr. Sci., USSR., Inst. Plant Protect.) Plant Protect. 6: 127-133, illus.

Aspidiotus alma-tensis; *A. caucasicus*, *A. multiglandulatus*, *A. armenicus*; *A. turanicus*.

BORCHSENIUS, N. S.—Continued.

- 1935a OPREDELITEL' SHCHITOVOK GRUPPY ASPIDIOTINI. (DETECTOR OF HARD SCALES OF THE GROUP ASPIDIOTINI.) [Contribution to the systematics of the California hard scale and species related to it which are found in the Caucasus.] Omis, Station Slavonik Azov-Black Sea Territory, 37 p., illus.
Descriptive notes and keys for several common aspidiotine coccids.
- 1936 ZU DER FAUNA DER SCHILDLÄUSE (COCCIDAE) DES KAVKASUS. (In Russian.) Krasnodar Agr. Inst. Proc. 4: 97-139, illus.
List of 112 coccids with collection data and other notes on many; *Phenacoccus gavalovi*, *P. ussuriensis* n. spp.
- 1937 TABLES FOR THE IDENTIFICATION OF COCCIDS (COCCIDAE) INJURIOUS TO CULTIVATED PLANTS AND FORESTS IN THE USSR. (In Russian.) Leningrad. 147 p., illus.
Descriptive keys and illustrations for about 175 coccids; apparently first descriptions for 10 spp.
- 1938 OBSERVATIONS ON THE COCCIDAE (HEM. INSECTA) OF THE FAR EASTERN REGION. (In Russian.) Akad. Nauk S.S.S.R. Izv. (Acad. des Sci. U.R.S.S. Bul.) (Far Eastern Branch) 29: 131-146, illus.
List of 23 coccids with keys and notes; 4 presented as new; English summary of 4 n. spp.
- 1939 SYSTEMATIC CHARACTERISTICS OF SECOND-INSTAR LARVAE OF THE OYS-TERLIKE COCCIDAE OCCURRING IN THE USSR. (In Russian.) Leningrad Quar. Lab., 47 p., illus.
Aspidiotus elaeagni n. sp.; descriptive notes for 35 other species; key to all species discussed.
- 1939a ON THE FAUNA OF COCCIDAE IN THE CAUCASUS. (In Russian). [Leningrad] Inst. Zashch. Rast. (Lenin Acad. Agr. Sci., USSR, Inst. Plant Protect.) Plant. Protect. 18: 43-51, illus.
English summary; 7 n. spp., several others mentioned.
- 1941 SPECIES OF THE MANNA-PRODUCING SCALE INSECTS (TRABUTINA, COCCIDAE, HEMIPTERA) FROM CENTRAL ASIA. (In Russian.) [Leningrad] Inst. Prikl. Zool. i Fitopatol. Trudy. (Inst. de Zool. Appl. et de Phytopath. Bul.) 12 (1913-1938): 123-135, illus.
Trabutina bogdanovi-katjkovi, *T. crassispinosa* n. spp.; 5 species of genus mentioned, key to 3.
- 1941a NEW PEST OF MULBERRY—THE CENTRAL ASIATIC COCHINEAL, HELIOCOCCUS DESTRUCTOR BORCHS. FROM THE REPUBLIC OF MIDDLE ASIA. (In Russian.) Guidebook for Plant Quarantine 1: 6-7, illus. (Not seen.)
- 1945 SUBDIVISION COCCOIDEA. SOFT AND HARD SCALES. INJURIOUS ANIMALS OF CENTRAL ASIA. (REPORT). REPORTS OF SCIENTIFIC OBSERVATIONS FOR THE YEAR 1944. (In Russian.) (Not seen.) Otdel. Biol. Nauk., Akad. Nauk SSSR. (Div. Biol. Sci., Acad. Sci. USSR) Rpt. 116. Moscow.
- 1945a SEVERAL MEALY "CHERMES" CLOSE TO PSEUDOCOCCUS COMSTOCKI KUW. WITH DESCRIPTION OF NEW SPECIES (REPORT). REPORTS OF SCIENTIFIC OBSERVATIONS FOR THE YEAR 1944. (In Russian.) (Not seen.) Otdel. Biol. Nauk., Akad. Nauk SSSR. (Div. Biol. Sci., Acad. Sci. USSR) Rpt. 117. Moscow.
- 1947 TWO NEW GENERA OF MEALY "CHERMES" AND A NEW SP. OF SCALE INSECT (HOMOPTERA-COCCOIDEA) FROM ARMENIA. Akad. Nauk. Dok. SSSR 7: 141-143. (Not seen.)
- 1947a ON THREE NEW GENERA OF ARMORED SCALES (COCCOIDEA, DIASPIDIDAE) FROM CENTRAL ASIA (In Russian.) Akad. Nauk. Dok. SSSR (n.s.) 58: 343-344.
Cryptoparlatoeopsis, *Acanthomytilus*, *Neochionaspis*, *N. kirgisisca* n. sp.

BORCHSENIUS, N. S.—Continued.

- 1947b ON THE TAXONOMIC SIGNIFICANCE OF MORPHOLOGICAL CHARACTERS OF MEALYBUGS (COCCOIDEA, PSEUDOCOCCUS) (In Russian.) Akad. Nauk. Dok. SSSR (Moscow) (n.s.) 58: 2109-2110. (See also Borchsenius—1948d.)
Key to 6 mealybugs related to *P. maritimus*; apparently first mention of *P. columbianus*, *elisae*, *peregrinabundus* [Borkh. n. spp.]
- 1948 ON THE REVISION OF THE GENUS ERIOCOCCUS SIGN. (INSECTA, HOMOPTERA, COCCOIDEA). (In Russian.) Akad. Nauk. Dok. USSR (n.s.) 60: 501-503.
Greenisca, n. gen.; *Neocanthococcus tamaricicola* n. gen. and sp., *Trichococcus filifer* n. gen. and sp.
- 1948a TOWARD A REVISION OF THE GENUS PHENACOCCUS CKLL. (INSECTA, HOMOPTERA, COCCOIDEA). (In Russian.) Akad. Nauk. Dok. USSR (n.s.) 61: 953-956.
Describes 7 new genera, 3 new species.
- 1948b REVIEW OF PALEARCTIC SOFT SCALES OF THE GENUS MACROCEROCOCCUS LEON. (COCCOIDEA, PSEUDOCOCCIDAE). (In Russian.) Ent. Obozr. 30: 31-39, illus.
M. tauricus, *M. kondarensis*, *M. megriensis*, *M. kiritshenkoi*, *M. borealis*, n. spp.; key to 6 species.
- 1948c NEW MEALYBUGS OF THE FAMILY PSEUDOCOCCIDAE FROM CENTRAL ASIA. (In Russian.) Akad. Nauk. Dok. USSR (n.s.) 63: 581-584.
Describes 6 new genera, 6 new species.
- 1948d NOTES ON PSEUDOCOCCUS COMSTOCKI (KUW.) AND SOME ALLIED SPECIES (HOMOPTERA; COCCOIDEA), WITH DESCRIPTIONS OF THREE NEW SPECIES. Bul. Ent. Res. 39: 417-421.
P. elisae, *P. peregrinabundus*, *P. colombianus* n. spp.
- 1948e SUBORDER COCCOIDEA—COCCIDS OR HARD AND SOFT SCALES. (In Russian.) In A Guide to the Insects of European USSR., ed. S. P. Tarbinskij and N. N. Plavil'shchikov, p. 226-245, illus.
Keys to families, genera, and species involving 95 coccids.
- 1949 FAUNA OF USSR. HOMOPTERA, PSEUDOCOCCIDAE. (In Russian.) Akad. Nauk. Zool. Inst. (n.s. 38) 7, 383, p., illus.
A complete classificatory review of the Pseudococcidae of the USSR, involving keys and descriptions for 47 genera and 214 species, 96 new.
- 1949a CEROPLASTES JAPONICUS GREEN (HOMOPTERA, COCCOIDEA)—A PEST OF CITRUS AND OTHER CULTIVATED PLANTS IN GEORGIA. (In Russian.) Acad. Sci. Georgian SSR Rpt. 10: 121-124.
Includes identification key to this species and *C. floridensis*, *rusci*, and *sinensis*.
- 1949b. A NEW GENUS AND NEW SPECIES OF HARD AND SOFT SCALES (HOMOPTERA, COCCOIDEA) OF USSR FAUNA. (In Russian.) Ent. Obozr. 30: 334-353, illus.
Acantholecanium n. gen.; 28 n. spp.
- 1949c NEW GENERA OF SCALE INSECTS FROM THE FAUNA OF CENTRAL ASIA (INSECTA, COCCOIDEA, DIASPIDIDAE) (In Russian.) Akad. Nauk. Dok. USSR (n.s.) 64: 735-738, illus.
Describes 5 new genera, 3 new species.
- 1950 A NEW SPECIES OF SCALE INSECT WITH 8-SHAPED PORES FROM BRAZIL (INSECTA, COCCOIDEA, ASTEROLECANIIDAE). (In Russian.) Akad. Nauk. Dok. USSR 70: 727-728, illus.
Asterolecanium longiflum.
- 1950a TOWARD THE REVISION OF THE GENUS ASTEROLECANIUM (TARG.) SIGN. (INSECTA, HOMOPTERA, COCCOIDEA) (In Russian.) Akad. Nauk. Dok. USSR 71: 781-783, illus.
Trachycoccus n. gen.; *Hyalococcus mali* n. gen. and sp.

BORCHSENIUS, N. S.—Continued.

- 1950b MEALY BUGS AND SCALE INSECTS OF THE USSR (COCCOIDEA) [Translation used in U.S. Dept. Agr. Library.] HARD AND SOFT SCALES OF THE USSR (COCCOIDEA) [Translation by R. Ericson, U.S. Dept. Agr., Bur. Ent. and Plant Quar.] (In Russian.) Akad. Nauk. Zool. Inst., Tableaux Analyt. de la Faune de l'URSS 32, 250 p., illus.

A synoptic review presenting keys, descriptive, host, and distribution information for 8 families, 135 genera, and about 460 species of Russian coccids.

- 1950c LIVING CONDITIONS OF ANIMALS IN THE STEPPES. COCCOIDEA. (In Russian.) Akad. Nauk. Zool. Inst. Zhivotnyi Mir SSSR 3: 366-373, illus.

Numerous coccids mentioned in a general discussion.

- 1950d COLLECTION AND STUDY OF HARD AND SOFT SCALES (In Russian.) Akad. Nauk. Zool. Inst. Zhivotnyi Mir SSSR 4, 30 p., illus.

- 1952 A NEW GENUS AND NEW SPECIES OF HARD SCALES FROM IRAN (HOMOPTERA, COCCOIDEA). (In Russian.) Ent. Obozr. [Leningrad] 32: 261-263, illus.

Pseudomelanaspis minima n. gen. and sp., *Diaspidiotus amygdalicola*, *Targaspidotus anabasidis*, n. spp.

- 1952a NEW GENERA AND SPECIES OF SOFT SCALES OF THE FAMILY COCCIDAE (=LECANIIDAE) OF THE USSR FAUNA AND ADJACENT COUNTRIES (INSECTA, HOMOPTERA, COCCOIDEA). (In Russian.) Akad. Nauk. Zool. Inst. Trudy. USSR 12: 269-316, illus.

Describes 7 new genera, 29 new species; keys to 11 *Luzulaspis*, to 6 *Lecanopsis*, to 13 *Rhizopulvinaria*.

- 1953 NEW GENERA AND SPECIES OF SCALE INSECTS OF THE FAMILY COCCIDAE (HOMOPTERA, COCCOIDEA). (In Russian.) Ent. Obozr. 33: 281-290, illus.

Describes 5 new genera, 9 new species.

- 1955 SUBORDER COCCOIDEA—SCALE INSECTS AND MEALYBUGS. (In Russian.) In Handbook of Forest Pests, v. 2 p. 848-885. Moscow, Akad. Nauk. SSSR.

Catalog of 221 coccids with selected citations and ecological and environmental notes.

- 1955a NEW SPECIES OF FALSE-HARDSCALES (HOMOPTERA, COCCOIDEA, COCCIDAE) OF THE FAUNA OF THE USSR AND ADJACENT COUNTRIES. (In Russian.) Leningrad. Akad. Nauk SSSR. Zool. Inst. Trudy 18: 288-303, illus.

Nemolecanium n. gen.; 15 new species of lecanine coccids.

- 1955b NEW SPECIES OF ARMORED SCALES FROM THE MARITIME REGION OF THE USSR AND NORTHERN KOREA (HOMOPTERA, COCCOIDEA). Leningrad. Akad. Nauk. Zool. Inst. Trudy 21: 247-252, illus.

Aspidiotus pavlovskii, *Rhizaspidotus pavlovskii*, *R. graminis*.

- 1955c NEW SPECIES OF COCCIDS OF THE FAMILY MARGARODIDAE OF THE USSR FAUNA (HOMOPTERA, COCCOIDEA). (In Russian.) Ent. Obozr. 34: 222-226, illus.

Matsucoccus insignis, *Xylococcus betulicola*, *Kuwanina minuta*.

BORCHSENIUS, N. S., and BUSTSHIK, T. N.

- 1955 A NEW SPECIES OF COMMA-HARDSCALE (HOMOPTERA, COCCOIDEA) FROM TURKMENIA. (In Russian.) Leningrad. Akad. Nauk SSSR. Zool. Inst. Trudy 18: 304-307, illus.

Lepidosaphes turkmenica.

BORCHSENIUS, N. S., and HADZIBEJLI, Z. K.

- 1950 HARD SCALES OF THE GENUS KUWANAPIS MACG. (HOMOPTERA, COCCOIDEA) INJURIOUS TO BAMBOO IN THE CAUCASUS AND THE CRIMEA. (In Russian.) Ent. Obozr. 31: 12-17, illus.

K. phyllostachydis n. sp.; key to and notes on this species and *pseudo-leucaspis*.

BORCHSENIUS, N. S., and MATESOVA, G. IA.

- 1955 TWO NEW SPECIES OF COCCIDS (HOMOPTERA, COCCOIDEA) FROM KAZAKHSTAN. (In Russian.) Ent. Obozr. 34: 227-230, illus.
Acanthococcus gracilispinus, *Nilotaspis halimodendronis*.

BORDEN, A. D.

- 1921 A BIOLOGICAL STUDY OF THE RED DATE-PALM SCALE, PHOENICOCOCCUS MARLATTI. Jour. Agr. Res. 21: 659-667, illus.
Description, seasonal history, enemies, control.

BORG, J.

- 1932 SCALE INSECTS OF THE MALTESE ISLANDS. Malta, Govt. Printing Office.
20 p.
Lists 59 coccids with host records.

BORNER, C.

- 1910 PARAMETABOLIE UND NEOTENIE BEI COCCIDEN. (Sci. note.) Zool. Anz. 35: 553-561, illus.
Aulacaspis rosae used as basis for discussion.

BORY DE ST. VINCENT

- 1798 [COCCUS DRAPARNALDI.] Jour. Hist. Nat. Bordeaux 3: 77. (Not seen.
Citation from Fernald Catalog, p. 326.)

[BOSC D'ANTIC, L.A.]

- 1784 DESCRIPTION DE L'ORTHEZIA CHARACIAS. Jour. de Phys. 24 (1): 173, illus.

BOUCHÉ, P. F.

- 1833 NATURGESCHICHTE DER SCHÄDLICHEN UND NÜTZLICHEN GARTENINSEKTEN. Berlin, Nicolai. 176 p. (49-54).
Briefly describes 7 *Coccus* (2 new) and 4 new *Aspidiotus*.
- 1834 NATURGESCHICHTE DER INSEKTEN. Berlin, Nicolai., 216 p. (8-23), illus.
Aspidiotus, n. gen., with 5 new species; 3 new species of *Coccus* (some of these new species published in Bouché 1833).
- 1844 BEITRÄGE ZUR NATURGESCHICHTE DER SCHARLACHLÄUSE (COCCINA). Stettin. Ent. Ztg. 5: 293-302.
Describes 3 new *Aspidiotus*, 7 new *Lecanium*; *L. persicae* redescribed.
- 1851 NEUE ARTEN DER SCHILDLAUS-FAMILIE. Stettin Ent. Ztg. 12: 110-112.
Briefly describes 10 new *Aspidiotus* spp.; 4 new and 1 old *Lecanium* spp.

BOUCHÉ, P. F., Jr.

- 1837 BESCHREIBUNG EINER NEUEN ART SCHILDLAUS COCCUS AMARYLLIDIS BOUCHÉ NEBST MITTHEILUNGEN ZUR VERTILGUNG DIESER UND ANDERER SCHILDLÄUSE ALLG. Gartenztg. 5: 99-101.

BOVEY, P., and GEIER, P.

- 1946 LE POU DE SAN-JOSÉ (QUADRASPIDIOTUS PERNICIOSUS COMST.) MENACE NOS CULTURES FRUITIÈRES. Rev. Hort. Suisse 19: 201-211, illus.
General review of biology and control.

BOYNTON, M. F.

- 1901 TECHNICAL STUDY OF FOUR SPECIES OF ASPIDIOTUS. In Felt, E. P., N. Y. State Mus. Bul. No. 46 (v.9): 343-354, illus. (col.).
A. ancylus, *A. forbesi*, *A. ostreaeformis*, *A. perniciosus*.

BRAIN, C. K.

- 1912 CONTRIBUTION TO THE KNOWLEDGE OF MEALY BUGS, GENUS PSEUDOCOCCUS, IN THE VICINITY OF CAPE TOWN, SOUTH AFRICA. Ent. Soc. Amer. Ann. 5: 177-189, illus.
Pseudococcus capensis, *fragilis*, *lounsburyi*, *muraltae*, *wachendorfae* n. spp.; notes on *P. citri*, *longispinus*.

BRAIN, C. K.—Continued.

- 1915 THE COCCIDAE OF SOUTH AFRICA.—I. Roy. Soc. So. Africa, Cape Town, Trans. 5: 65-194, illus. Also issued as separately paged reprint, pp. 1-130, pl. I-XII.

Introductory review, keys to 10 subfamilies and to 7 pseudococcine genera; descriptions and notes on 65 coccids, including 33 as new, in 15 genera and 5 subfamilies; *Natalensia* n. gen.

- 1918 THE COCCIDAE OF SOUTH AFRICA—II. Bul. Ent. Res. 9: 107-139, illus. Descriptions and notes on 33 coccids, 12 as new, in 13 genera; covers Conchaspinae, part of Aspidiotini, 4 gall-making coccids, including 2 new genera and species; some keys to genera and species.

- 1919 THE COCCIDAE OF SOUTH AFRICA—III. Bul. Ent.-Res. 9: 197-239, illus. Descriptions and notes on 51 coccids, 20 as new, in 15 genera or subgenera of Diaspinae; some keys to subgenera and species.

- 1920 THE COCCIDAE OF SOUTH AFRICA—IV. Bul. Ent. Res. 10: 95-128, illus. Descriptions and notes on 45 coccids, 21 as new, in 10 genera in Diaspinae, Asterolecaniinae, Tachardiinae, and unassigned; *Baccacoccus* n. gen.; some keys to genera and species.

- 1920a COCCIDAE OF SOUTH AFRICA—V. Bul. Ent. Res. 11: 1-41, illus. Key to 18 genera of Lecaniinae; descriptions and notes on 56 coccids (29 new) in 18 genera (4 new).

- 1923 A PRELIMINARY REPORT ON THE INTRACELLULAR SYMBIONTS OF SOUTH AFRICAN COCCIDAE. Stellenbosch Univ., Ann. 1 (sect. A, 2), 48 p., illus.

Review of literature and of symbiont classification; brief descriptions of numerous new symbionts, with listing of coccid hosts.

- 1924 HOST PLANT INDEX OF SOUTH AFRICAN SCALE INSECTS (COCCIDAE) WITH A LIST OF SPECIES FOUND ON EACH PLANT RECORDED. Stellenbosch Univ., Ann. 2 (sect. A, 2): 1-44.

BRAIN, C. K., and KELLY, A. E.

- 1917 THE STATUS OF INTRODUCED COCCIDS IN SOUTH AFRICA IN 1917. Bul. Ent. Res. 8: 181-185.

Distribution and, sometimes, host data on 55 coccids; *Chrysomphalus rossi* var. *greeni* established.

BRÄMI, J., see Breimi-Wolf, J.

BRANDT, H., and BOLLOW, H.

- 1948 SCHIDLÄUSE. BIOLOGIE, BEKÄMPFUNG, UND BESTIMMUNG DER WICHTIGSTEN AN OBSTGEWÄCHSEN UND FRÜCHTEN VORKOMMENDEN ARTEN. Pflanzenschutz 1: 14-18, illus.

Illustrated key for recognition of 23 common coccids.

BRANDT, J. F.

- 1835 NATURHISTORISCHE BEMERKUNGEN ÜBER WURZELCOCHENILLE IM VERGLEICH ZUR MEXICANISCHEN, ALS ZUSATZ ZUR VORSTEHENDEN ABHANDLUNG DES HERRN HAMEL. Acad. Imp. des Sci. St. Peterburg, Mém. (ser. 6) 3 (2): 65-68, illus.

Description of *Porphyrophora hamelii*.

BRANN, J. L., JR.

- 1945 THE BIOLOGY AND CONTROL OF THE SCURFY SCALE, CHIONASPIS FURFURA FITCH. (Abs.) Cornell Univ. Abstracts of Theses (1944), p. 145-148. Summary of 2 years' study in Hudson Valley.

BREEST, F.

- 1914 ZUR KENNTNIS DER SYMBIONTENÜBERTRAGUNG BEI VIVIPAREN COCCIDEN UND BEI PSYLLIDEN. Arch. f. Protistenk. 34: 263-276 (264, 266, 268, 273, 274), illus.

Refers to 4 coccids in discussion.

BREMI, H. (-Breimi-Wolf, J. J. according to Horn and Schenkling)

- 1849 UEBERSICHT DER SCHWEIZERISCHEN RHYNCHOTEN. Naturf. Gesell. in Zürich, Mitt. 1 (34): 325-339.

Brief general discussion of "Coccina" with a reference to a *Diaspis nivea*.

BREMI-WOLF, J. J.

1847 MITTHEILUNGEN ÜBER DIE INSEKTEN DER EICHEN. Naturf. Gesell. in Zürich, Mitt. 1 (14): 1-16.

Proposes *Lecanium gigas*; mentions *L. quercus*.

BREMNER, O. E.

1907 NEW COCCIDAE FROM CALIFORNIA. Canad. Ent. 39: 366-368, illus.

Aspidiotus densiflorae, *A. yulupae*, *Odonaspis graminis*.

BRÉTHES, J.

1912 DESCRIPTION DE UN NUEVO GENERO Y ESPECIE DE COCHINILLA DE LA REPUBLICA ARGENTINA. Buenos Aires Mus. Nac. de Hist. Nat. An. 23: 279-281, illus.

Colobopyga magnani.

1921 DESCRIPTION D'UN CEROPLASTES [HEM. COCCIDAE] DE LA RÉPUBLIQUE ARGENTINE, ET DE SON PARASITE [HYM. CHALCIDIDAE]. Soc. Ent. de France Bul. 1921 (No. 6): 79-81.

C. argentinus n. sp.

See also Massini, P. C., and Bréthes, J.

BRICK, C.

1910 BERICHT ÜBER DIE TÄTIGKEIT DER ABTEILUNG FÜR PFLANZENSCHUTZ FÜR DIE ZEIT VOM 9 JULI 1909 BIS 30 JUNI 1910. Hamburg. Bot. Staatsinst., Abt. f. Pflanzenschutz (1909-10) 12: 1-21 (6-19). Also in Jahrb. der. Hamburg Wiss. Anst. 27 (1909): 499-519. 1910.

Reports interception collections for about 60 coccids, including *Cryptaspidotus austro-africanus* Lindinger n. sp. and *Pseudoparlatoarea antarctica* Lindinger nom. nud.

BRIMBLECOMBE, A. R.

1953 STUDIES OF THE COCCOIDEA. 1. NEW SPECIES OF NEOLEONARDIA. Queensland Jour. Agr. Sci. 10: 161-166, illus. Reprinted in Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 72, 6 p., illus.

N. chitinsa, *N. aliformis*.

1954 STUDIES OF COCCOIDEA. 2. REVISION OF SOME OF THE AUSTRALIAN ASPIDIOTINI DESCRIBED BY MASKELL. Queensland Jour. Agr. Sci. 11: 149-160, illus.

Synonymy, description, Australian distribution of *Neomorgania euca-lypti*, *Pseudotargionia comatus*, *Pseudoaonidia casuarinae*; *Megaspidotus* n. gen. t. *fimbriatus* (Mask.)

1955 STUDIES OF THE COCCOIDEA. 3. THE GENERA CHENTRASPIS, CLAVASPIS, LINDINGASPIS AND MORGANELLA IN QUEENSLAND. Queensland Jour. Agr. Sci. 12: 39-56, illus.

Report on the synonymy, Australian host and distribution records of the 6 species of these genera present in Australia.

BRIMLEY, C. S.

1938 THE INSECTS OF NORTH CAROLINA. Raleigh, N. C. Dept. Agr. 560 p. (108-112).

Lists 65 coccids with State collection data.

1942 SUPPLEMENT TO THE INSECTS OF NORTH CAROLINA. N. C. Dept. Agr., Div. Ent., 39 p. (10).

Chionaspis sylvaticus and *Eriococcus azaleae* added.

BRITTIN, G.

1915 ART. XVIII.—SOME NEW COCCIDAE. New Zeal. Inst. Trans. and Proc. 47: 149-156, illus.

Describes 9 new species.

1915a ART. XIX.—NEW COCCIDAE. New Zeal. Inst. Trans. and Proc. 47: 156-160, illus.

Describes 1 new genus, 4 new species.

1916 ART. XLIV.—NOTES ON SOME COCCIDAE IN THE CANTERBURY MUSEUM, TOGETHER WITH A DESCRIPTION OF A NEW SPECIES. New Zeal. Inst. Trans. and Proc. 48: 423-426.

Odonaspis? leptocarpus n. sp.; notes on 4 others.

BRITTIN, G.—Continued.

- 1926 OBSERVATIONS ON THE NEW ZEALAND SPECIES OF THE GENUS POLIASPIS. New Zeal. Jour. Sci. and Technol. 8: 287-288.
Tabular comparison of *P. media*, *P. argentosis*.
- 1935 NOTES ON THE GENUS COELOSTOMIDIA, WITH DESCRIPTIONS OF ONE SPECIES AND TABLE FOR IDENTIFICATION. Roy. Soc. New Zeal. Trans. and Proc. 65: 63-70, illus.
C. wairoensis redescribed; comparative notes on 3 other species.
- 1936 FURTHER NOTES ON THE GENUS COELOSTOMIDIA COCKERELL. Roy. Soc. New Zeal. Trans. and Proc. 66: 225-229.
Discussion of structural variation in different lots of *Coelostomidia assimile*.
- 1937 NOTES ON THE GENUS LEUCASPIS, WITH DESCRIPTIONS OF THIRTEEN NEW ZEALAND SPECIES AND REDESCRIPTION OF EIGHT FOREIGN SPECIES. Roy. Soc. New Zeal. Trans. and Proc. 67: 281-302, illus.
Describes 7 new species; includes key to 21 *Leucaspis* and descriptive notes on 14 old species.
- 1938 A SYSTEMATIC CLASSIFICATION OF PSEUDOCOCCUS AND SOME RELATED GENERA. PART I. Roy. Soc. New Zeal. Trans. and Proc. 68: 325-348, illus.
Describes 16 new species, 1 new variety of *Trionymus*; descriptive notes on 12 described species; key for identification.
- 1940 THE VALIDITY OF THE COCCID GENUS EULECANIUM COCKERELL. Roy. Soc. New Zeal. Trans. and Proc. 69: 410-412.
A review of some earlier opinions on this genus.
- 1940a THE LIFE HISTORY OF LECANIUM (EULECANIUM) PERSICAE (FABRICIUS), AND DESCRIPTIONS OF THE DIFFERENT INSTARS. Roy. Soc. New Zeal. Trans. and Proc. 69: 413-421.
Description and life history in N. Zealand; *L. (E.) persicae spinosum* n. subsp.

BRITTON, W. E.

- 1920 CHECK-LIST OF THE INSECTS OF CONNECTICUT. Conn. State Geol. and Nat. Hist. Survey Bul. 31, 397 p. (63-66).
Lists 52 coccids for state.
- 1923 THE HEMIPTERA OR SUCKING INSECTS OF CONNECTICUT. Conn. State Geol. and Nat. Hist. Survey Bul. 34, 807 p. (346-382), illus.
Includes keys and brief descriptive and collection records for 86 coccids in 27 genera.
- 1935 THE BEECH SCALE IN CONNECTICUT. CRYPTOCOCCUS FAGI BAERENSPRUNG. Conn. Agr. Expt. Sta. Bul. 368: 220-224, illus.
Description, history, life history, damage, control.

BROWN, K. B.

- 1916 THE SPECIFIC EFFECTS OF CERTAIN LEAF-FEEDING COCCIDAE AND APHIDIDAE UPON THE PINES. Ent. Soc. Amer. Ann. 9: 414-422.
Chionaspis pinifoliae and *Aspidiotus abietis* studied.

BROWN, R. C.

- 1934 NOTES ON THE BEECH SCALE, CRYPTOCOCCUS FAGI (BAER.) DOUGL., IN NEW ENGLAND. Jour. Econ. Ent. 27: 327-334, illus.
Distribution, life history, natural enemies.

BROWNE, E. T.

- 1887 NOTES ON A SPECIES OF ORTHEZIA FOUND IN KEW GARDENS. Quekett Micros. Club. Jour. (ser. 2) 3: 169-172, illus.
First description of *Orthezia insignis*; other orthezias mentioned.

BRUES, C. T. and GLASER, R. W.

- 1921 A SYMBIOTIC FUNGUS OCCURRING IN THE FAT-BODY OF PULVINARIA INNUMERABILIS RATH. Biol. Bul. 40: 299-324, illus.
Discusses previous work and describes symbiont found.

BRUNER, S. C. and others.

- 1945 CATALOGO DE LOS INSECTOS QUE ATACAN A LAS PLANTAS ECONOMICAS DE CUBA. Cuba Estac. Expt. Agron. Bol. 63, 246 p., illus.
About 100 coccids and their host plants listed.

BUCHNER, P.

- 1912 STUDIEN AN INTRACELLULAREN SYMBIONTEN. I. DIE INTRACELLULAREN SYMBIONTEN DER HEMIPTEREN. Archiv. f. Protistenk. 26: 1-116 (16-23, 46-48, 79, 83, 86, 88, 94, 97, 104-105), illus.
Refers to 20 coccids in discussion.
- 1921 TIER UND PFLANZE IN INTRAZELLULARER SYMBIOSE. Berlin, Borntraeger Bros. 462 p. (223-256), illus.
Lists 34 coccids known to have symbionts; discusses coccid symbiosis.
- 1930 TIER UND PFLANZE IN SYMBIOSE. Berlin, Borntraeger Bros. 900 p. (405-450), illus. Ed. 2, rev. and enl.
Considers 41 coccids in discussion.
- 1954 ENDOSYMBIOSESTUDIEN AN SCHILDLÄUSEN. I. STICTOCOCCUS SJOESTEDTI. Ztschr. f. Morph. u. Ökol. der Tiere 43: 262-312.
Several *Stictococcus* spp. and other coccids mentioned in discussion; detailed description of condition in *Stictococcus*.
- 1955 ENDOSYMBIOSESTUDIEN AN SCHILDLÄUSEN. II. STICTOCOCCUS DIVERSISETA. Ztschr. Morph. u. Ökol. der Tiere 43: 397-424, illus.
Description of symbionts and discussion of their relation to the development in both sexes; detailed comparison with condition (quite different) in *S. sjoestedti*.
- 1955a ENDOSYMBIOSESTUDIEN AN SCHILDLÄUSEN. III. MACROCEROCOCCUS UND PUTO ZWEI PRIMITIVE PSEUDOCOCCINEN. Ztschr. f. Morph. u. Ökol. der Tiere 43: 523-577, illus.
Includes detailed description of symbionts of *Macrocerococcus superbus* and *Puto antennata*.

BUCKTON, G. B.

- 1883 RHIZOBIUS JUJUBAE, BUCKTON. In Monograph of the British Aphides, v. 4, p. 181-182.
Appears to be young larva of a *Drosicha*-like monophlebid.
- 1894 A NEW COCCID FROM CEYLON. Indian Mus. Notes 3 (3): 103-104, illus.
Orthezia nacrea described [Is *O. insignis*].
- 1899 NOTES ON TWO NEW SPECIES OF APHIDS. 2. A NEW ROOT-FEEDING APHIS. RHIZOBIUS JUJUBAE N. SP. Indian Mus. Notes. 4: 277-278, illus.
Actually a species of *Drosichini*.

BUEKER, E.

- 1930 PHENACOCCUS WILMATTAE CKLL. Canad. Ent. 62: 93-94, illus.
A redescription.
- 1931 TWO NEW MEALY-BUGS (COCCIDAE) IN NESTS OF ANTS (LASIUS). Amer. Mus. Nat. Hist., Amer. Mus. Novitates 453, 3p., illus.
Cryptoripersia leucocystis, *Ripersia interjecti*.
- 1931a MEALY-BUGS (COCCIDAE) OF NESTS OF ANTS (LASIUS). Colo. Univ. Studies 18: 151-162, illus.
Discusses 20 coccids; keys to 7 mealybug genera, 2 species of *Pseudococcus*, 2 of *Trionymus*, 5 of *Ripersia*.

See also COCKERELL, T. D. A., and BUEKER, E. D.

BUFFA, P.

- 1897 SOPRA UNA COCCINIGLIA NOUVA. Riv. di Patol. Veg. 6: 135-160, illus.
Summary and description by Schenkling, C., in Illustr. Ztschr. Ent. 5 (1900): 92.
Aclerda berlesii.
- 1901 COCCIDEI PARASSITI DELLA VITE. Bol. di Ent. Agr. e Patol. Veg. 8: 249-257. (Cont.)

BUFFA, P.—Continued.

- 1902 COCCIDEI PARASSITI DELLA VITE. Bol. di Ent. Agr. e Patol. Veg. 9: 3-11.
(Cont. by F. Silvestri).
Includes descriptive and bibliographical information on Lecaniinae,
Lecanium, and *L. persicae*.

BUGNION, E., and POPOFF, N.

- 1908 LA CIRE BLANCHE DE CHINE (RECTIFICATION). Soc. Vaud. des Sci. Nat.
Bul. 44: 273-283, illus.
Corrects previous statement that Chinese white wax is produced by a
fulgorid; instead credits production to [*Ericerus pela*] which is
described.

BURCHARDS, E. F., see KRÜNITZ, J. G.

BURGESS, A. F., see WEBSTER, F. M., and BURGESS, A. F.

BURMEISTER, H.

- 1835 SCHARLACHLÄUSE. SCHILDLÄUSE. COCCINA. (GALLINSECTA 1.) In Handb.
der Ent. v. 2., abt. 1, p. 61-83. (Illustrations, Taf. I, II, in separate
unnumbered volume.)
Discusses 6 genera, 20 species; first proposal of *Lecanium*.
1849 BESCHREIBUNG EINES NEUEN COCCUS. Ztg. f. Zool. Zoot. u. Palaeozool.
(1848) 1: 177.
C. pruni.

BUSHNELL, F. R., and KOLTZ, L. J.

- 1938 SEROLOGICAL DIFFERENTIATION OF CITRUS RED SCALE, AONIDIELLA
AURANTII, AND CITRUS YELLOW SCALE, A. CITRINA. (Abs.) Phytopath-
ology 28: 669.
Differentiated by precipitin test.

BUTLER, A. G.

- 1876 PRELIMINARY NOTICE OF NEW SPECIES OF ORTHOPTERA AND HEMIPTERA
COLLECTED IN THE ISLAND OF RODRIGUEZ BY THE NATURALISTS AC-
COMPANYING THE TRANSIT-OF-VENUS-EXPEDITION. Ann. and Mag. Nat.
Hist. (ser. 4) 17: 409-412 (412).
Coccus ceratiformis n. sp. [not hemipterous acc. to Fernald.]

CABIDO GARCIA, R.

- 1949 CONTRIBUICAO PARA O ESTUDO DA SISTEMATICA MORFOLOGIA, BIOLOGIA E
ECOLOGIA DA COCHONILHA AMARELA (*CHRYSOMPHALUS DICTYOSPERMI*,
MORG.) Junta Nacional das Frutas Bol. 9: 374-465, illus.
Reviews the classification, morphology, host relations, and distribution;
considers the ecological conditions favorable to Portuguese develop-
ment.

CAESAR, L.

- 1914 THE SAN JOSE AND OYSTER-SHELL SCALES. Ontario Dept. Agr. Bul. 219,
30 p.
Description, history, Canadian distribution, control.

CALKINS, L.

- 1946 NOTES OF THE JUNIPER MEALYBUG, PSEUDOCOCCUS JUNIPERI EHRHORN.
Kans. Ent. Soc. Jour. 19: 66-69.
Notes on damage, seasonal history, distribution, enemies, control.

CAMPBELL, R. E.

- 1914 A NEW COCCID INFESTING CITRUS TREES IN CALIFORNIA (HEMIP.) Ent.
News 25: 222-224.
Coccus citricola.

CANTO, C. PEREZ, see PEREZ, CANTO C.

CARBONELL, C. S., see RUFFINELLI, A., and CARBONELL, C. S.

CARIMINI, M.

- 1930 UNA VARIETÀ DI "ASPIDIOTUS". ASPIDIOTUS HEDERAE VAR. UNIPECTINATA
CARIMINI. Redia 18: 121-123, illus.

CARMIN, J.

- 1950 CHAFF SCALE IN ISRAEL: *PARLATORIA CAMELLIAE* COMSTOCK. Israel Independ. Biol. Lab. Bul. 5 (4), 10 p., illus.
Description, life history [probably not *camelliae*].

CARMIN, J., and SCHEINKIN, D.

- 1934 RED SCALE IN PALESTINE. (HEMIPTERA: COCCIDAE). Soc. Roy. Ent. de'Egypte Bul. 18: 242-274, illus.
Description, biology, history, and control.

CARNEIRO, H., see FREITAS, A. O., and CARNEIRO, H.

CARNES, E. K.

- 1907 THE COCCIDAE OF CALIFORNIA. Calif. State Comnr. Hort. Bien. Rpt. 2 (1905/06): 155-222, illus.
Lists 132 coccids with host plants; 67 of these discussed or described.

CARTER, W.

- 1932 STUDIES OF POPULATIONS OF *PSEUDOCOCCUS BREVIPES* (CKL.) OCCURRING ON PINEAPPLE PLANTS. Ecology 13: 296-304, illus.
Describes methods of infestation of new plantings.

- 1935 THE SYMBIONTS OF *PSEUDOCOCCUS BREVIPES* (CKL.) Ent. Soc. Amer. Ann. 28: 60-71, illus.

- 1936 THE SYMBIONTS OF *PSEUDOCOCCUS BREVIPES* IN RELATION TO A PHYTO-TOXIC SECRETION OF THE INSECT. Phytopathology 26: 176-183, illus.
Change in host produced permanent disappearance of symbionts associated with green spotting capacity.

- 1942 THE GEOGRAPHICAL DISTRIBUTION OF MEALYBUG WILT WITH NOTES ON SOME OTHER INSECT PESTS OF PINEAPPLE. Jour. Econ. Ent. 35: 10-15, illus.

Refers to *Pseudococcus brevipes* and *Diaspis bromeliae*.

- 1945 THE ORAL SECRETIONS OF THE PINEAPPLE MEALYBUG. Jour. Econ. Ent. 38: 335-338, illus.

- 1946 THE STUDY OF INSECT SYMBIONTS WITH SPECIAL REFERENCE TO THE GENUS *PSEUDOCOCCUS*. [Brazil] Sec. de Agr., Indus. e Com. Bol. 13: 191-194.

Only *P. brevipes* specifically mentioned.

DE CARVALHO, M. B., and R. F.

- 1939 PRIMEIRA CONTRIBUIÇÃO PARA UM CATALOGO DOS INSETOS DE PERNAMBUCO. Inst. de Pesquisas Agron, Arq. 2: 27-60 (29-30).
Lists 18 coccids.

CASAZZA, R.

- 1928 SUI DERMATOENDOZOI, A PROPOSITO DI UN NUOVO PARASSITA. Bol. della Soc. Med.-Chir. 42: 391-425, illus.

Dermolecanium migrans Zavattari, n. gen. and n. sp.; this name given to a larva supposedly found in man and causing the "pseudoscabbia."

CASTEL-BRANCO, A. J. F.

- 1952 DESCRIÇÃO DE TRÊS ESPÉCIES NOVAS DE COCHONILHAS DA ÁFRICA ORIENTAL PORTUGUESA. Lisboa, Min. do Ultramar, Anais [Estudos de Zoologia] 7(3): 23-39, illus.

Crypticerya rodriguesi, *Cerococcus fradei*, *Pulvinaria vayssierei*; from Portuguese East Africa.

CASTRO, A. R.

- 1951 FAUNA ENTOMOLÓGICA DEL OLIVO EN ESPAÑA. ESTUDIO SISTEMÁTICO-BIOLÓGICO DE LAS ESPECIES DE MAYOR IMPORTANCIA ECONÓMICA. II (HEMIPTERA, LEPIDOPTERA Y THYSANÓPTERA). Inst. del Espan. de Ent. Trab., Madrid, 166 p. (12-56), illus.

Principally a discussion of *Saissetia oleae*.

CATCHINGS, T. F., and WHITCOMB, W. D.

- 1924 NOTES ON WINTER MORTALITY OF THE THREE COCCIDS PSEUDAONIDIA DUPLEX (CKLL.), CHRYSOMPHALUS AONIDUM (LINN.), AND CHRYSOMPHALUS DICTYOSPERMI (MORG.), AT NEW ORLEANS, LOUISIANA. Jour. Econ. Ent. (Sci. Note.) 17: 604-606.

CHAFFIN, J.

- 1921 MEALY-BUGS. Fla. State Plant Bd. Quart. Bul. 5: 154-158.
Brief discussion on 10 mealybugs occurring in Florida.
- 1923 TWO NEW SPECIES OF MEALY-BUGS FROM FLORIDA. Fla. State Plant Bd. Quart. Bul. 7: 169-171, illus.
Ericoccus parvispinus, *Lachnodiella acritocera*.
- See also MERRILL, G. B., and CHAFFIN, J.

CHAMBERLIN, J. C.

- 1923 A SYSTEMATIC MONOGRAPH OF THE TACHARDIINAE OR LAC INSECTS (COCCIDAE). Bul. Ent. Res. 14: 147-212, illus.
A complete review of the classification of 48 lac coccids.
- 1925 SUPPLEMENT TO A MONOGRAPH OF THE LACCIFERIDAE (TACHARDIINAE) OR LAC INSECTS (HOMOPT. COCCIDAE). Bul. Ent. Res. 16: 31-41, illus.
Substitutes *Laccifer* for *Tachardia*; key to 8 species, 2 new, of genus; brief discussion of 15 additional Lacciferidae species.
- 1925a A NEW SPECIES OF LEPIDOSAPHES FROM CHINA. Pan-Pacific Ent. 2: 85-87, illus.
L. chinensis.
- 1927 STATUS AND SYNONYMY OF THE DICTYOSPERMUM SCALE. Calif. Dept. Agr. Monthly Bul. 16: 484-491, illus.
A comparative study of this scale and some close relatives.

CHANG, H. S.

- 1929 A PRELIMINARY LIST OF THE COCCIDAE OF CHINA. Natl. Cent. Univ. (Nanking), Col. Agr. Misc. Pub. 16, 24 p.
A list of 58 coccids with bibliographical references and collection data (in Chinese).

CHANNABASAVANNA, G. P., see PUTTARUDRIAH, M., and
CHANNABASAVANNA, G. P.

CHARMOY, D. d'EMMEREZ DE

- 1897 MONOGRAPHIE DES INSECTES NUISIBLES À LA CANNE ET LEURS PARASITES. [Coccid sections only.] Rev. Agr. et Jour. de la Chambre d'Agr. de l'Île Maurice 11: 16-18, 76-78.
Discusses *Pulvinaria iceryi*, *Icerya seychellarum*; describes *Dactylopius sacchari* nobis.
- 1898 DESCRIPTION D'UNE ESPÈCE NOUVELLE D'ASPIDIOTUS (HEMIPT.) Soc. Ent. de France Bul. 1898, No. 14: 278-279, illus.
A. darutyi.
- 1898a LES INSECTES NUISIBLES AU MANGUIER À L'ÎLE MAURICE. Rev. Agr. et Jour. de la Chambre d'Agr. de l'Île Maurice 12 (8): 66-68, illus.
(Original not seen. Page numbers obtained from Aug. 15 issue [p. 82], which states that *Aspidiotus daruyi* on page 67 of July 30 issue should read *A. darutyi*.)
Discusses 6 coccid species on mango, including *Aspidiotus daru[t]yi* de Charmoy.
- 1899 NOTES SUR LES COCHENILLES. Soc. Amicale Sci. Pub. (Mar. 24, 1899). Maurice, The Planters and Commercial Gazette, p. 1-19, illus. (See also Grandpre and Charmoy, 1899, and Mamet, 1953a, p. 149.)
Brief review of coccid classification, control, study procedures.

See also GRANDPRE, A. DARUTY DE, and CHARMOY, D. d'EMMEREZ DE

CHATTERJEE, N. C., and RAMAKRISHNA AYYAR, T. V.

1936 ENTOMOLOGICAL INVESTIGATIONS ON THE SPIKE DISEASE OF SANDAL (26) COCCIDAE (HOMOPT.). Indian Forest Rec., New Ser., Ent. 1 (1935): 233-242.

Limited discussion of 13 coccids found on *Santalum album* (and other hosts).

See also IMMS, A. D., and CHATTERJEE, N. C.

CHATTERJEE, S. N., see RAO, V. P., and CHATTERJEE, S. N.

CHAVANNES, M. A.

1848 NOTICE SUR DEUX COCCUS CÉRIFÈRES DU BRÉSIL. Soc. Ent. de France Ann. (ser. 2) 6: 139-145.

Coccus psidii, *C. cassiae* n. spp.; 3 other species mentioned, but without description, including *C. pe-la*, currently credited to this author.

CHEN, FONG-GE

1935 METHODS FOR COLLECTING AND MOUNTING SCALE INSECTS. (In Chinese.) Ent. and Phytopath. 3: 378-383, illus.

Brief discussion; several coccid genera mentioned.

1936 NOTES ON THE SCALE INSECTS OF CITRUS IN SEVERAL DISTRICTS OF EAST CHEKIANG, WITH DESCRIPTION OF ONE NEW SPECIES. Ent. and Phytopath. 4: 208-228.

Coccus jungi n. sp.; 28 other coccids discussed briefly; field key for adult females.

1936a NOTES ON THE BIOLOGY OF PSEUDOCOCCUS COMSTOCKI (KUWANA) ON CITRUS (HOMOPT.) (Chinese with English summary.) Chekiang, China (Prov.) Bur. Ent. (Hangchow) Year Book 5 (1935): 16-35, illus.

Description, life history, control.

1937 FOUR NEW COCCIDS FROM CHEKIANG. Ent. and Phytopath. 5: 382-388, illus.

Matsucoccus sinensis, *Euphilippia aquifoliae*, *Pseudaulacaspis hwang-yensis*, *Lepidosaphes pinicolous*.

CHEO, MING-TSANG

1935 A PRELIMINARY LIST OF THE INSECTS AND ARACHNIDS INJURIOUS TO ECONOMIC PLANTS IN CHINA. Peking Nat. Hist. Bul. 10: 93-105.

List of 98 coccids, with hosts, detailed Chinese distribution, world distribution.

CHIAROMONTE, A.

1929 NOTA PRELIMINARE SU UNA NUOVA SPECIE DI PSEUDANTONINA DANNOSA ALL'AGAVE SISALANA NELLA COLONIA ERITREA, PSEUDANTONINA AGAVES, N. SP. Agr. Colon. [Italy] 23: 61-67, illus. Also in Soc. Ent. Ital. Bol. 61 (2): 18-24.

CHIESA MOLINARI, O.

1937 COCCIDAE (COCHINILLAS) QUE ATACAN EL OLIVO EN ARGENTINA. Bol. Agr.-Indus. San Juan [Argentina] 3: 166-173, 230-246, illus. Also in Bol. de Agr. y Ganad. [Cordoba] No. 167: 1-21. Sept.-Oct. 1938.

List of 10 Argentine olive coccids; list of 33 olive coccids from world; key and descriptions for 4 common species.

1938 UN NUEVO COCCIDAE (COCHINILLA) PARA NUESTRA OLIVICULTURA (ASPIDIOTUS LATASTEI COCKERELL). Bol. de Agr. y Ganad. [Cordoba] No. 166: 5-13, illus. Also in Bol. Agr.-Indus. San Juan [Argentina] 4: 104-113, illus.

Description, life history, control.

1939 EL PIOJO O COCHINILLA DE SAN JOSÉ (COMSTOCKASPIS PERNICIOSA COMSTOCK). Bol. de Agr. y Ganad. [Cordoba] No. 171: 27-44.

History, distribution, biology, description, control.

CHILDS, L.

1914 THE ANATOMY OF THE DIASPININE SCALE INSECT EPIDIASPIS PIRICOLA (DEL GUER.) Ent. Soc. Amer. Ann. 7: 47-57, illus.

CHOU, I.

- 1938 RIDESCRIZIONE DELL' ASPIDIOTUS DESTRUCTOR SIGN. [HOMOPTERA, COCCIDAE]. [Portici] R. Ist. Super. Agr. Lab. di Zool. Gen. e Agr. Bol. 30: 240-249, illus.
Includes comment on host relations and distribution.
- 1946 DESCRIZIONE DI UN NUOVO CHRYSOMPHALUS (COCCIDAE HOMOPTERA) DELLE CINA. Insecta sinensium, Shensi 1: 3-8, illus.
C. silvestrii.
- 1947 A STUDY ON GEN. CHRYSOMPHALUS OF CHINA (HEMIP., HOMOP., COCCIDAE). [In Chinese with English summary.] Ent. sinica, Shensi 2: 9-24, illus.
- 1949 STUDIO SUR GENERO AULACASPIS (COCCIDAE, HOMOPTERA) EN CINIO. [In Chinese with Esperanto summary.] Ent. sinica, Shensi 3 (1948-1949), 1-14 p., illus.

CHU, JOO-TSO

- 1934 INVESTIGATIONS ON THE BIOLOGY, NATURAL ENEMIES, AND CONTROL OF THE MULBERRY COCCID, DROSICHA CONTRAHENS WALKER. (In Chinese.) Chekiang Prov. Bur. Ent. 1933 Year Book No. 3: 77-92, illus. (col.). [English summary.]
Includes descriptive information and illustrations.
- 1935 A LIST OF THE MULBERRY INSECTS OF CHINA. Chekiang Prov. Bur. Ent. 1934 Year Book No. 4: 152-179.
Includes list of 15 coccids with both Chinese and non-Chinese host and locality data.

CLAUS, C.

- 1860 ZUR KENNTNISS VON COCCUS CACTI. Würzburger Naturw. Ztschr. 1: 150-154.
Observations on internal anatomy and histology.
- 1864 BEOBACHTUNGEN ÜBER DIE BILDUNG DES INSECTENEIES. Ztschr. f. Wiss. Zool. 14: 42-54 (43-46), illus.
Egg formation in *Lecanium hesperidum*, *Aspidiotus nerii*, *Coccus adonidum*.

CLAUSEN, C. P.

- 1915 MEALY BUGS OF CITRUS TREES. Calif. Univ. Col. Agr., Agr. Expt. Sta. Bul. 258: 19-48, illus.
Pseudococcus bakeri, *citri*, *citrophilus*, *longispinus*. Distribution, biology, host relationships, and control discussed in detail.
- 1923 THE CITRICOLA SCALE IN JAPAN AND ITS SYNONYMY. Jour. Econ. Ent. 16: 225-226.
Established identity of *Coccus citricola* with *C. pseudomagnoliarum*.
- 1927 THE CITRUS INSECTS OF JAPAN. U. S. Dept. Agr. Tech. Bul. 15, 14 p. (3-9), illus.
Lists 28 coccids, discusses some briefly.
- 1931 INSECTS INJURIOUS TO AGRICULTURE IN JAPAN. U.S. Dept. Agr. Cir. 168, 115 p. (4, 10-11, 38, 59, 77, 80, 83).
Numerous coccids listed.
- 1933 THE CITRUS INSECTS OF TROPICAL ASIA. U. S. Dept. Agr. Cir. 266, 35 p. (16-17, 20-28).
Lists 69 coccids, discusses about 40 briefly.

COCKERELL, T. D. A.

- 1891 INSTITUTE OF JAMAICA. NOTES FROM THE MUSEUM NO. 2. SOME INTERESTING SCALE INSECTS. (Not seen. Citations from Cockerell ms. note.) Jamaica Post (Dec. 14); Tri-Weekly Budget (Dec. 15).
Includes *Aspidiotus rufescens*, supposed new species.
- 1892 INSTITUTE OF JAMAICA. NOTES FROM THE MUSEUM NO. 5. INSECT PESTS: SCALE-INSECTS OF THE COCONUT. (Not seen. Citations from Cockerell ms. note.) Jamaica Post (Jan. 29); Gleaner (Jan. 29); Tri-Weekly Budget (Jan. 30).
Aspidiotus rapax palmae n. var., and *A. articulatus rufescens* var.

COCKERELL, T. D. A.—Continued.

- 1892a ADDITIONS TO THE MUSEUM. *Inst. Jamaica Jour.* 1: 54-56.
Lists 34 coccids, including several manuscript new species and varieties; none described.
- 1892b LIST OF COCCIDAE OBSERVED IN JAMAICA. *Insect Life* 4: 333-334.
List of 28 coccids with host and locality data; includes several manuscript names and *Neobernardia* n. gen.
- 1892c THE WEST INDIAN RUFIOUS SCALE. (ASPIDIOTUS ARTICULATUS, MORGAN.)
Insect Life 4: 380-382.
Descriptive notes, food plants, distribution, control. Section Articulation of genus *Aspidiotus* proposed.
- 1892d MUSEUM NOTES. *Inst. Jamaica Jour.* 1: 134-137 (136-137).
Pinnaspis n. gen. or subgen., *Pseudoparlatoria* n. gen., *P. ostreata* n. sp., *Diaspis lanatus* n. sp.
- 1892e COCCIDAE, OR SCALE INSECTS. *Jamaica. Bot. Dept. Bul.* 36: 5-9. Reprinted in *Trinidad Field Nat. Club Jour.* June 1893, p. 200-202; Aug. 1893, p. 226.
Brief review of damage, enemies, spread.
- 1893 COCCIDAE IN THE LESSER ANTILLES. *Ent. Monthly Mag.* 29: 17.
Lists 9 coccids, including *Lecanium* n. sp., on *Terminalia*.
- 1893a COCCIDAE OR "SCALE INSECTS." *Agr. Rec. (Trinidad)* (Dec. 1892), p. 174.
Records 14 coccids from Trinidad.
- 1893b THE FOOD-PLANTS OF SOME JAMAICAN COCCIDAE. *Insect Life* 5: 158-160.
Food plants of 18 natural plant orders; includes description of *Pulvinaria cupaniae* n. sp.
- 1893c MUSEUM NOTES. COCCIDAE. *Inst. Jamaica Jour.* 1: 180.
Aulacaspis n. gen.
- 1893d COCCIDAE, OR SCALE INSECTS.—II. *Jamaica. Bot. Dept. Bul.* 40: 7-9.
Reprinted in *Agr. Rec. (Trinidad)* Dec. 1892, p. 192-201 [1893].
Brief review of 23 genera; first proposal *Conchaspis* and *C. angraeci*.
- 1893e WEST INDIAN COCCIDAE. *Ent. Monthly Mag.* 29: 38-41; 80, illus.
Aspidiotus palmae "Morg.," *Diaspis tentaculatus* "Morg.," n. spp. described; notes on 2 other species.
- 1893f THE WEST INDIAN SPECIES OF CEROPLASTES. *Entomologist* 26: 80-83.
C. depressus, *C. plumbaginis*, *C. denudatus*, *C. utilis* n. spp.; 4 other species discussed.
- 1893g NOTES ON LECANIUM, WITH A LIST OF THE WEST INDIAN SPECIES. *Amer. Ent. Soc. Trans.* 20: 49-56.
Mentions 38 lecanine coccids in 6 groups; descriptive or other notes on 10 coccids.
- 1893h A CURIOUS GROUP OF COCCIDAE—THE LECANIODIASPINI. *Sci. Gossip* 29: 76-79, illus.
Asterolecanium palmae, *Planchonia oncidii* n. spp.; 13 other coccids discussed.
- 1893i A NEW SUBSPECIES OF CEROPLASTES FROM MEXICO. *Zoe* 4: 104-105.
C. psidii cistudiformis (Townsend ms.)
- 1893j A LIST OF WEST INDIAN COCCIDAE. *Inst. Jamaica Jour.* 1: 252-256, illus.
Lists 75 coccids, including 7 described as new and 14 as new names without descriptions.
- 1893k COCCIDAE, OR SCALE INSECTS, WHICH LIVE ON ORCHIDS. *Gard. Chron.* 13: 548, illus.
Describes *Conchaspis angraeci* n. gen. and sp., *Planchonia oncidii* n. sp., *Aspidiotus biformis* n. sp.; discusses briefly 15 other coccids.

COCKERELL, T. D. A.—Continued.

- 1893l UNA NUEVA ESPECIE DE LECANIUM DE MEXICO. *La Naturaleza* (ser. 2) 2: 304. Also in *Soc. Zool. de France Bul.* 18: 167-168; *Soc. Cient. "Antonio Alzate" Mem. y Rev.* 6 (1892-1893): 325-326.
Lecanium schini Licht. ms.
- 1893m TWO NEW SPECIES OF PULVINARIA FROM JAMAICA. *Ent. Soc. London, Trans.* 1893 (Pt. 2): 159-163, illus.
P. cupaniae, *P. urbicola*; note on the relationships of *Pulvinaria*.
- 1893n THE WEST INDIAN SPECIES OF DACTYLOPIUS. *Entomologist* 26: 177-179: 266-268, illus.
Descriptive notes on 7 mealybugs, 5 described as new.
- 1893o XIII.—NOTES ON SOME MEXICAN COCCIDAE. *Ann. and Mag. Nat. Hist.* (ser. 6) 12: 47-53, illus.
Aspidiotus scutiformis n. sp., *Dactylopius mexicanus* n. sp., *Pulvinaria lutea* n. sp.; notes on 9 other coccids.
- 1893p THE WEST INDIAN SPECIES OF MYTILASPIS AND PINNASPIS. *Ent. Monthly Mag.* 29: 155-158.
M. crotonis, *M. albus*, *Pinnaspis bambusae* n. spp. described; notes on *Mytilaspis citricola* and *Pinnaspis pandani*.
- 1893q SUR UN NOUVEAU DIASPIDE DU MEXIQUE. *Soc. Zool. de France Bul.* 18: 251-253, illus.
Mytilaspis philococcus.
- 1893r A NEW LAC-INSECT FROM JAMAICA. *Canad. Ent.* 25: 181-183.
Tachardia gemmifera.
- 1893s COCCIDAE, OR SCALE INSECTS—III. Jamaica. *Bot. Dept. Bul.* 46: 2-4. Reprinted in *Trinidad Field-Nat. Club Jour.*, Dec. 1893 [1894], p. 262-268.
Brief notes on 2 *Icerya*, 8 *Dactylopius* [*Pseudococcus*]; key to latter.
- 1893t NOTES ON SOME MEXICAN COCCIDAE. *Ann. and Mag. Nat. Hist.* (ser. 6) 12: 160.
Addenda to paper published in July issue of *Annals*; *Inglisia nivea* n. sp.
- 1893u PRELIMINARY NOTE ON THE COTTONY SCALE OF THE OSAGE ORANGE. *Science* 22: 78-79.
A note on the status of *Pulvinaria macluræ*.
- 1893v PROSOPOPHORA; A GENUS OF SCALE INSECTS NEW TO THE NORTH AMERICAN FAUNA. *Science* 22: 151-152.
P. rufescens n. sp.; 2 other coccids mentioned.
- 1893w A NEW LECANIUM FROM CANADA. *Canad. Ent.* 25: 221-222.
L. fletcheri.
- 1893x [NOTE ON COLLECTION OF COCCIDAE IN CHILE.] *Soc. Sci. du Chili Actes* 3: lxxvii-lxxix.
First list of Chilean coccids (4 species).
- 1893y TWO NEW COCCIDAE FROM NEW MEXICO. *Ann. and Mag. Nat. Hist.* (ser. 6) 12: 403-406, illus.
Orthezia annae, *Bergrothia townsendi*; also list of 20 Coccidae known from New Mexico.
- 1893z THREE NEW COCCIDAE FROM THE ARID REGION OF NORTH AMERICA. *Entomologist* 26: 350-352.
Ceroplastodes n. subg. of *Fairmairia*; *F. nivea*, *Ceroplastes irregularis*, *Pseudococcus helianthi*, n. spp.
- 1893aa A NEW LECANIUM.—LECANIUM RUBELLUM N. SP. *Inst. Jamaica Jour.* 1: 378-379.
- 1893bb ASPIDIOTUS BOWREYI, N. SP. *Inst. Jamaica Jour.* 1: 383.
- 1893cc THE DISTRIBUTION OF COCCIDAE. *Insect Life* 6: 99-103. Also in *Ann. and Mag. Nat. Hist.* (ser. 6) 14: 76-80.
Some tentative synonymy offered; includes list of 18 coccids from Jamaica.

COCKERELL, T. D. A.—Continued.

- 1893dd NOTES ON THE COCHINEAL INSECT. Amer. Nat. 27: 1041-1049.
Descriptive and nomenclatorial notes.
- 1893ee NOTE ON THE GENUS PSEUDOCOCCUS WESTWOOD. Ent. News 4: 317-318.
Phenacoccus, new name proposed for *Pseudococcus* auct. nec Westw.,
to include 17 coccids.
- 1893ff TWO NEW FORMS OF DIASPINAE. Psyche 6: 571-573.
Aspidiotus uvae coloratus n. var., *Mytilaspis albus concolor*, n. var.
- 1894 A CHECK LIST OF NEARCTIC COCCIDAE. Canad. Ent. 26: 31-36.
Lists 121 coccids.
- 1894a DIASPIS LANATUS. Ent. News 5: 43.
First mention of *Chionaspis major*.
- 1894b A NEW SCALE INSECT ON AGAVE. Ent. News 5: 59-60.
Aspidiotus bowreyi.
- 1894c NOTES ON SOME TRINIDAD COCCIDAE. Trinidad Field Nat. Club Jour.
1: 306-310.
Notes on 20 coccids, 4 n. spp., 1 n. subg.
- 1894d A CHECK LIST OF THE COCCIDAE OF THE NEOTROPICAL REGION. Trinidad
Field Nat. Club Jour. 1: 311-312.
List of 117 species names and 11 varietal names; 5 species names,
1 subgenus name presented as new.
- 1894e LISTE DES COCCIDÉS TROUVÉS SUR LES CACTACÉES, AVEC DESCRIPTION
D'UNE SPÈCE NOUVELLE. Soc. Cient. "Antonio Alzate" Mem. y Rev.
7: 461-462.
Mytilaspis philococcus n. sp.; 7 other species and 2 varieties listed.
- 1894f WHAT ARE THE SPECIFIC LIMITS OF ASPIDIOTUS DESTRUCTOR, SIGN.?
Ent. Monthly Mag. 30: 57-60.
Descriptive material; synonymizes *A. cocotis*, *A. fallax*.
- 1894g NOTES ON SOME SCALE INSECTS OF THE SUB-FAMILY DIASPINAE. Canad.
Ent. 26: 127-132.
Four new varieties described; classificatory notes on several other
coccids.
- 1894h A NEW WAX SCALE FOUND IN JAMAICA. Ent. News 5: 157-158.
Ceroplastes albolineatus.
- 1894i COCCIDAE, OR SCALE INSECTS.—IV. Jamaica. Bot. Dept. Bul. (n.s.)
1: 17-19.
Discusses 9 coccids.
- 1894j COCCIDAE, OR SCALE INSECTS.—V. Jamaica. Bot. Dept. Bul. (n.s.)
1: 69-73.
Discusses 6 coccids; key to 13 lecaniums.
- 1894k DESCRIPTIONS OF NEW COCCIDAE. Ent. News 5: 203-204. Reprinted
in Trinidad Field Nat. Club Jour. 2: 219-220, 1895.
Lecanium urichi, *Eriococcus coccineus*.
- 1894l FURTHER NOTES ON SCALE INSECTS. (COCCIDAE). Canad. Ent. 26:
189-191.
Describes 1 new variety; notes on several other diaspine coccids.
- 1894m TWO NEW COCCIDAE FROM THE ARID REGION OF NORTH AMERICA. Ann.
and Mag. Nat. Hist. (ser. 6) 14: 12-15, illus.
Ceroplastodes daleae, *Lecanium phoradendri*.
- 1894n THE TWENTIETH NEOTROPICAL ASPIDIOTUS. Soc. Sci. du Chili, Actes
4: 35-36.
Aspidiotus latastei n. sp., from Chile.
- 1894o ON A LECANIUM INFESTING BLACKBERRY, CONSIDERED IDENTICAL WITH
L. FITCHII SIGN. Insect Life 7: 29-31.
Discusses identity of lecaniums from various hosts in Europe and
America.

COCKERELL, T. D. A.—Continued.

- 1894p A MARITIME SPECIES OF COCCIDAE. *Insect Life* 7: 42-43; appended notes by N. Banks p. 43-44.
Ripersia maritima n. sp.; other *Ripersia* species discussed.
- 1894q DESCRIPTIONS OF NEW COCCIDAE.—II. *Ent. News* 5: 263-264.
Bergrothia steelii Ckll. and Towns.
- 1894r NOTES ON THE GEOGRAPHICAL DISTRIBUTION OF SCALE INSECTS. U. S. Natl. Mus. Proc. 17 (1026): 615-625.
Broad conclusions on limited information.
- 1894s FURTHER NOTES ON SCALE INSECTS (COCCIDAE). *Canad. Ent.* 26: 284-288.
Tachardia cornuta, *Dactylopius solani* n. spp.; notes on other coccids.
- 1894t A CHECK-LIST OF AFRICAN COCCIDAE. *Psyche* 7 (224): 178.
Lists 27 coccids; indicates distribution.
- 1894u ON A LECANIUM FROM ROCHESTER, N. Y. (U.S.A.) CONSIDERED IDENTICAL WITH *L. JUGLANDIS*, BOUCHÉ. *Entomologist* 27: 332-336.
Status of *L. juglandiflex* Fitch discussed; other coccids mentioned.
- 1894v SOME OBSERVATIONS ON THE DISTRIBUTION OF COCCIDAE. *Amer. Nat.* 28: 1050-1054.
Brief general discussion of numerous coccid genera.
- 1895 COCCIDAE OR SCALE INSECTS.—VI. Jamaica. Bot. Dept. Bul. (ser. 2) 2: 5-8.
Discusses 9 *Ceroplastes*; key based on wax covering.
- 1895a COCCIDAE OR SCALE INSECTS.—VII. Jamaica. Bot. Dept. Bul. (ser. 2) 2: 100-102.
Includes 8 coccids in genera *Inglisia*, *Vinsonia*, *Conchaspis*, and *Pulvinaria*.
- 1895b ON A NEW SCALE INSECT FOUND ON PLUM. *Canad. Ent.* 27: 16-19.
Aspidiotus howardi.
- 1895c ON SOME INSECTS COLLECTED IN THE STATE OF CHIHUAHUA, MEXICO. *Ann. and Mag. Nat. Hist.* (ser. 6) 15: 204-210 (209).
Notes on *Ceroplastodes niveus*; *Ceroplastes irregularis*.
- 1895d TWO NEW SPECIES OF LECANIUM FROM BRAZIL. *Amer. Nat.* 29: 174-175.
L. reticulatum and *L. baccharidis*.
- 1895e CANADIAN COCCIDAE. *Canad. Ent.* 27: 33-36; 58-61.
Discussion of Canadian *Chionaspis* and *Lecanium*.
- 1895f THREE NEW SPECIES OF COCCIDAE. *Entomologist* 28: 100-101.
Ceroplastes iheringi, *Kermes gillettei*, *Physokermes coloradensis*.
- 1895g SCIENCE NOTES. THREE NEW SCALE INSECTS. *Inst. Jamaica Jour.* 2 (1894-1899): 167, illus.
Asterolecanium urichi, *Pulvinaria pyriformis*, *Inglisia vitrea*.
- 1895h TWO MORE NEW SPECIES OF LECANIUM. *Amer. Nat.* 29: 381-382.
L. pseudoesperidum Ckll., *L. lintneri* Ckll. and Bennett.
- 1895i THE CHILIAN MARGARODES. *Ent. News* 6: 123.
M. vitis. Reed's name *trilobitum* preceded by *vitis* and *vitium*.
- 1895j A NEW PULVINARIA FOUND ON ORCHIDS. *Canad. Ent.* 27: 135.
Pulvinaria brassiae.
- 1895k THE COTTON SCALE INSECT. *Ent. News* 6: 157.
Questions assignment of *Aspidiotus gossypii* Fitch to *Aleurodidae*.
- 1895l NEW SCALE-INSECTS FROM ARIZONA. *Ariz. Agr. Expt. Sta. Bul.* 14: 56.
Describes 6 new species.
- 1895m A NEW SCALE-INSECT FROM GRENADA. *Trinidad Field Nat. Club Jour.* 2: 194-195.
Lecanium punctatum.

COCKERELL, T. D. A.—Continued.

- 1895n A NEW MEALY-BUG ON SUGAR CANE. *Trinidad Field Nat. Club Jour.* 2: 195.
Dactylopius sacchari.
- 1895o TWO NEW WESTERN COCCIDAE. *Psyche* 7 (230): 254-255, illus.
Lichtensia lycii; *Cerococcus ehrhorni*.
- 1895p NEW FACTS ABOUT SCALE INSECTS.—I. *Garden and Forest* No. 382: 244.
Mentions 9 coccids; first mention of "*Eriococcus neglectus* n. sp."
- 1895q ON SOME COCCIDAE OBTAINED BY MR. C. A. BARBER IN THE ISLAND OF ANTIGUA, W. I. *Ann. and Mag. Nat. Hist.* (ser. 6) 16: 60-62.
Reports 8 coccids, including *Lecanium batatae* n. sp., *Phenacoccus yuccae barberi* n. var., and *Parlatoria pergandei crotonis* n. var.
- 1895r NEW NORTH AMERICAN COCCIDAE. *Psyche* 7 (1894-1896) (sup.): 1-4.
Toumeyella n. subg.; 6 new species from southwestern U. S.
- 1895s ON THE SUBGLOBULAR SPECIES OF LECANIUM. *Canad. Ent.* 27: 201-204.
Pseudokermes n. subg.; *L. pseudosemen*, *L. monile*, *L. nitens* n. spp.; all from Brazil.
- 1895t A NEW SPECIES OF COCCIDAE OF THE GENUS DIASPIS. *Soc. Sci. du Chili, Actes* 5: 6-7.
D. chilensis.
- 1895u CONTRIBUTIONS TO COCCIDOLOGY.—I. *Amer. Nat.* 29: 725-732.
Describes 2 new species of *Orthezia*, and a new variety of *Dactylopius*; collection and other notes on more than 30 other coccids.
- 1895v NOTE ON A DACTYLOPIUS (FAM. COCCIDAE) FOUND ON THE BRANCHES OF THE VINE IN CHILE. *Soc. Sci. du Chili, Actes* 5: 22-23.
[Placed as *Dactylopius vitis* by Lataste].
- 1895w IV. NEW SPECIES OF COCCIDAE. *Psyche* 7 (1894-1896) (sup.): 7-8.
Aspidiotus hartii, *A. sphaerioides*, *Dactylopius aphyllonis*, *Eriococcus neglectus*.
- 1895x MISCELLANEOUS NOTES ON COCCIDAE. *Canad. Ent.* 27: 253-261.
Lecanium caryae canadense n. var.; notes on 21 other coccids.
- 1895y A NEW SCALE INSECT INFESTING YAM ROOTS. *Trinidad, Roy. Bot. Gard. Misc. Inform. Bul.* 2: 85-86.
Aspidiotus hartii.
- 1895z VIII. SOME NEW INSECTS. *Psyche* 7 (1894-1896) (sup.): 15-16.
Crypticeria, *Proticeria* n. subg.; *Icerya rileyi*, *Aspidiotus prosopidis*, *Dactylopius pandani*, n. spp.
- 1896 COCCIDAE OR SCALE INSECTS.—VIII. *Jamaica. Bot. Dept. Bul.* (n.s.) 3: 8-10.
Includes discussion of 7 *Asterolecanium*, 2 *Orthezia*.
- 1896a COCCIDAE OR SCALE INSECTS.—IX. *Jamaica. Bot. Dept. Bul.* (n.s.) 3: 256-259.
Includes species of *Lecanium*, *Howardia*, *Chionaspis*, *Diaspis*, and *Aulacaspis*. *Howardia* restricted to *H. biclavis*.
- 1896b A CHECK LIST OF THE COCCIDAE. *Ill. State Lab. Nat. Hist.* 4: 318-339.
A check list of 773 coccids in about 86 genera including *Comstockiella* n. gen.
- 1896c A NEW SCALE-INSECT INFESTING DATE-PALMS. *Entomologist* 29: 52, illus.
Parlatoria victrix.
- 1896d ON A SMALL COLLECTION OF COCCIDAE FROM THE ISLAND OF GRENADA. *Trinidad Field Nat. Club Jour.* 2: 306-307.
Lists 12 coccids, including *Pulvinaria broadwayi* n. sp.
- 1896e CEROPLASTES EUPHORBIAE, N. SP. *Psyche* 7 (1894-1896) (sup.): 17.

COCKERELL, T. D. A.—Continued.

- 1896f NOTES AND DESCRIPTIONS OF THE NEW COCCIDAE COLLECTED IN MEXICO BY PROF. C. H. T. TOWNSEND. U.S. Dept. Agr., Div. Ent., Tech. Ser. Bul. 4: 31-39.
Describes 8 new species, 1 new variety; discusses 3 other coccids.
- 1896g SOME COCCIDAE FOUND BY MR. ALEX. CRAW IN THE COURSE OF HIS QUARANTINE WORK AT SAN FRANCISCO. U.S. Dept. Agr., Div. Ent., Tech. Ser. Bul. 4: 42-46, illus.
Describes 4 new species, 1 new variety.
- 1896h PRELIMINARY DIAGNOSES OF NEW COCCIDAE. *Psyche* 7 (1894-1896) (sup.): 18-21.
Describes 26 new coccids; *Takahashia* n. subg.
- 1896i SOME NEW SPECIES OF JAPANESE COCCIDAE, WITH NOTES. U.S. Dept. Agr., Div. Ent., Tech. Ser. Bul. 4: 47-56.
Takahashia and *Pseudolecanium* n. subg.; 10 new species, 8 other coccids discussed.
- 1896j A NEW COCCID FROM TEXAS. *Canad. Ent.* 28: 83.
Aulacaspis texensis.
- 1896k ON THE COCCIDAE (SCALE INSECTS) OF TRINIDAD. Trinidad, Roy. Bot. Gard. Misc. Inform. Bul. 2 (6), App. iii-v.
List of 41 coccids with collection notes on many and descriptions of *Lecanium nanum* n. sp., *Aspidiotus hartii luntii* n. var.
- 1896l A GALL-MAKING COCCID IN AMERICA. *Science* (n.s.) 4: 299-300.
Olliffiella cristicola n. gen. and sp. on oak.
- 1896m NEW COCCIDAE FROM MASSACHUSETTS AND NEW MEXICO. *Canad. Ent.* 28: 222-226.
Ripersia kingii, *R. lasii*, *R. flaveola*, *Dactylopius prosopidis*, *Pulvinaria amygdali*, *Aulacaspis montanus*.
- 1896n [DESCRIPTION OF CHIONASPIS CHINENSIS N. SP.] In *Craw*, Calif. State Board of Hort., *Bien. Rpt.* 5 (1895-96): 37, illus.
- 1896o NEW SPECIES OF INSECTS TAKEN ON A TRIP FROM THE MESILLA VALLEY TO THE SACRAMENTO MTS., NEW MEXICO. *N.Y. Ent. Soc. Jour.* 4: 201-207 (201-203).
Describes 3 new species, 1 new variety of coccids.
- 1897 DACTYLOPIUS OR MEALY-BUGS; WITH A NEW SPECIES. *Sci. Gossip* (n.s.) 3: 199-201, illus.
Dactylopius lichtensioides; notes on 28 others.
- 1897a DESCRIPTIVE NOTES ON TWO COCCIDAE. *Entomologist* 30: 12-14.
Lecaniodiaspis celtidis redescribed; *Pulvinaria innumerabilis* var. *occidentalis* described; notes on 5 other coccids.
- 1897b THE PALMETTO SCALE. *Gard. and Forest* No. 464: 19.
Comstockiella sabalis var. *mexicana* nov. from Mexico.
- 1897c SCALE INSECTS: COCCIDAE ASSOCIATED WITH ANTS. *Sci. Gossip* (n.s.) 3: 239-241. (Cont.)
Discusses 14 species, including *Dactylopius kingii* n. sp.
- 1897d NOTES ON NEW COCCIDAE. 1. A NEW COCCID PEST OF GREENHOUSES. 2. A JAPANESE COCCID QUARANTINED AT SAN FRANCISCO. *Psyche* 8: 52-53.
Lecanium flaveolum, *Leucaspis japonicus*, n. spp.
- 1897e THE THIRD AMERICAN KERMES. *Ent. News* 8: 94-95.
K. boguei n. sp.
- 1897f A NEW MEALYBUG (DACTYLOPIUS PSEUDONIPAE). *Sci. Gossip* (n.s.) 3: 302.
- 1897g COCCIDAE, OR SCALE INSECTS.—X. Jamaica. Bot. Dept. Bul. (n.s.) 4: 107-109.
Discusses 7 coccids.
- 1897h NOTE ON LECANIUM TESSELLATUM. Jamaica. Bot. Dept. Bul. (n.s.) 4: 109.
L. tessellatum swainsonae n. var.

COCKERELL, T. D. A.—Continued.

- 1897i THE SAN JOSE SCALE AND ITS NEAREST ALLIES. U.S. Dept. Agr., Div. Ent., Tech. Ser. 6, 31 p., illus.
Includes 6 new subgenera of *Aspidiotus* and an annotated list of the species of *Aspidiotus*.
- 1897j NOTES ON SCALE INSECTS.—2. Calif. Fruit Grower 20 (23): 4-5.
Brief descriptive notes for the following manuscript names: *Aspidiotus andromelas*, *A. crawii*, *A. greenii*, *Chionaspis latissimus*, *Dactylopius edgeworthiae*, *Mytilaspis pallida* var. *maskelli*, *Parlatoria theae* var. *euonymi*.
- 1897k NEW AND LITTLE-KNOWN COCCIDAE FROM FLORIDA. I. DETERMINATIONS AND DESCRIPTIONS, INCLUDING A NEW GENUS. II. BIOLOGICAL OBSERVATIONS (BY A. L. QUAINANCE). Psyche 8: 89-91.
Pseudophilippia n. gen., *P. quaintancii* n. sp., *Lecanium parvicorne* n. sp., notes on 3 other coccids; notes on all these coccids by Quaintance.
- 1897l COCCIDAE OR SCALE INSECTS.—XI. Jamaica. Bot. Dept. Bul. (n.s.) 4: 149-151.
Discusses 8 coccids.
- 1897m THE FOOD-PLANTS OF SCALE INSECTS (COCCIDAE). U.S. Natl. Mus. Proc. 19: 725-785.
Lists of coccid species reported to occur on different plant families.
- 1897n TWO FORMS OF FLUTED SCALE. Psyche 8: 94.
Icerya purchasi maskelli, *I. p. crawii*, n. var.
- 1897o NOTES ON SCALE INSECTS.—3. Calif. Fruit Grower 21 (1): 5.
Lecanium magnoliarum n. sp., *Icerya purchasi crawii* and *maskelli* n. var.; notes on several other coccids.
- 1897p CONTRIBUTIONS TO COCCIDOLOGY.—II. Amer. Nat. 31: 588-592.
Dactylopius edgeworthiae, n. sp., and new varieties of *Asterolecanium* and *Parlatoria*; *Hemichionaspis* n. subg.; notes on 21 other coccids; genus *Erium* noted.
- 1897q [REVIEW OF] THE COCCIDAE OF CEYLON BY E. E. GREEN. Amer. Nat. 31: 701-704.
Critical comment on the new classification and other points in the volume.
- 1897r NOTES ON THE COCCIDAE, A FAMILY OF HOMOPTERA, WITH A TABLE OF THE SPECIES HITHERTO OBSERVED IN BRAZIL. Rev. do Mus. Paulista 2: 65-72, illus.
Keys to 14 genera and to 14 coccids in 4 of the genera.
- 1897s FURTHER NOTES ON COCCIDAE FROM BRAZIL. Rev. do Mus. Paulista 2: 383-384.
Discusses 4 coccids new to Brazil.
- 1897t DIRECTIONS FOR COLLECTING AND PRESERVING SCALE INSECTS (COCCIDAE). U. S. Natl. Mus. Bul. 39 (Pt. L), 9 p.
- 1897u SOME NEW AND LITTLE-KNOWN COCCIDAE COLLECTED BY PROF. C. H. T. TOWNSEND IN MEXICO. Canad. Ent. 29: 265-271.
Describes 8 new coccids, redescribes 1.
- 1897v A NEW LECANIUM ON MAGNOLIA FROM FLORIDA. I. DESCRIPTIVE; BY T. D. A. COCKERELL. II. BIOLOGICAL; BY A. L. QUAINANCE. Psyche 8: 152.
L. turgidum.
- 1897w NEW INSECTS FROM EMBUDO, NEW MEXICO. Ann. and Mag. Nat. Hist. (ser. 6) 20: 510-515 (514-515).
Eriococcus arenosus, *Lecaniodiaspis artemisiae* n. spp.; 5 other coccids reported.
- 1898 A NEW ORTHEZIA. Canad. Ent. 30: 19-20.
O. artemisiae.

COCKERELL, T. D. A.—Continued.

- 1898a COCCIDAE, OR SCALE INSECTS.—XII. Jamaica. Bot. Dept. Bul. (n.s) 5: 40-44.
Discusses 11 coccids.
- 1898b TWO NEW SCALE-INSECTS QUARANTINED AT SAN FRANCISCO. Psyche 8: 190-191.
Diaspis crawii and *Aspidiotus (Odonaspis) bambusarum*.
- 1898c MISCELLANEOUS NOTES. Ent. Soc. Wash. Proc. 4: 64-65 (65).
Reports on 6 coccids from Arizona; states *Lecanium fraternum* Kkll. [nom. nud.] equals *L. begoniae* Dougl.
- 1898d TWO NEW SCALE INSECTS. Entomologist 31: 65-66. Also in A Persuasao [Azores] 1899, p. 1. (Not seen.)
Lecanium perlatum, *Aspidiotus juglans-regiae kafkae*. Description of *L. perlatum*.
- 1898e THREE NEW COCCIDAE OF THE SUBFAMILY DIASPINAE. Psyche 8: 201-202.
Aspidiotus (Diaspidiotus) coniferarum from New Mexico, and *Pseudoparlatoria noacki* and *Mytilaspis perlonga* from Brazil.
- 1898f THE COTTONWOOD SNOW-SCALE OF NEBRASKA. Canad. Ent. 30: 133.
Chionaspis ortholobis bruneri n. subsp.
- 1898g COCCIDAE, OR SCALE INSECTS.—XIII (Concl.) Jamaica. Bot. Dept. Bul. (n.s.) 5: 107-109.
Adds about 14 coccids to the 86 previously discussed from West Indies; synonymical notes on 6.
- 1898h SOME NEW COCCIDAE OF THE SUBFAMILY LECANIINAE. Entomologist 31: 130-132.
Pulvinaria marmorata, *Lecanium impar*, *L. subaustrale*, *L. tubuliferum*, *L. perconvexum*.
- 1898i A NEW SCALE-INSECT OF THE GENUS LECANIUM. Ent. News. 9: 145-146.
L. magnoliarum from California.
- 1898j NEW COCCIDAE FROM MEXICO. Ann. and Mag. Nat. Hist. (ser. 7) 1: 426-440.
Porococcus and *Protodiaspis*, n. gen.; 24 new coccids in 15 genera.
- 1898k SOME NEW COCCIDAE COLLECTED AT CAMPINAS, BRAZIL, BY DR. F. NOACK. Rev. Mus. Paulista 3: 41-42.
Lecanium perconvexum; *Pseudoparlatoria noacki*, *Mytilaspis perlonga*.
- 1898l SOME COCCIDAE COLLECTED BY DR. F. NOACK AT CAMPINAS, BRAZIL. Rev. Mus. Paulista 3: 43-44.
List of 8 coccids including *Mytilaspis argentatus* n. sp.
- 1898m SOME NEW COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 7) 2: 24-27.
Philephedra, n. subg., *Pulvinaria ephedrae*, *Aspidiotus yuccarum*, *A. lilacinus* n. spp.; *A. transparens simillimus* n. subsp.
- 1898n NOTE ON ASPIDIOTUS GREENII. Ent. Monthly Mag. 34: 184-185.
Discusses restriction of name to form described by Green as *A. cydoniae*.
- 1898o SUPPLEMENTARY NOTE [TO EHRHORN'S "NEW COCCIDAE"], AND NOTICE OF A NEW ERIOCOCCUS. Canad. Ent. 30: 246-247.
E. tinsleyi n. sp.; other *Eriococcus* and some *Lecanium* spp. considered.
- 1898p THE COCCID GENUS SOLENOPHORA IN THE UNITED STATES. Psyche 8: 262-263.
S. coloradensis n. sp. from Colorado; *Mytilaspis concolor* also reported.
- 1898q NEW NORTH AMERICAN INSECTS. Ann. and Mag. Nat. Hist. (ser. 7) 2: 321-331 (322-323, 330-331).
Pt. 2, Two new Coccidae from Massachusetts. (*Lecanium (Eulecanium) kingii*, *Aspidiotus fernaldi*.) Pt. 8, Two new species of *Kermes* from the Eastern States. (*K. nivalis*, *K. kingii*.)

COCKERELL, T. D. A.—Continued.

- 1898r THE COCCIDAE OF THE SANDWICH ISLANDS. *Entomologist* 31: 239-240.
Lists 34 coccids, including *Aspidiotus persearum* n. sp.
- 1898s A NEW SCALE INSECT FOUND ON BEARBERRY. *Canad. Ent.* 30: 266-267.
Aspidiotus dearnessi.
- 1898t NEW NORTH AMERICAN INSECTS. *Ann. and Mag. Nat. Hist.* (ser. 7)
2: 401-404 (401-402).
Pt. 9.—Two new Coccidae of the genus *Orthezia*. (*O. garryae*, *O. monticola*.)
- 1898u TWO NEW SPECIES OF LECANIUM FROM CANADA. *Canad. Ent.* 30:
293-294.
L. caryarum, *L. maclurarum*.
- 1898v THE LOWER SONORAN COCHINEAL. *Science* (n.s.) 8, 675.
Coccus tomentosus newsteadi n. subsp.
- 1898w MAIS ALGUMAS COCCIDAE, COLLIGIDAS PELO DR. F. NOACK. *Rev. do Mus.*
Paulista 3: 501-503.
Lecanium rhizophorae n. sp. and *Aulacaspis boisduvalii maculata* n.
var.; notes on 5 others.
- 1898x TWO NEW COCCIDAE FROM LAGOS, W. AFRICA. *Entomologist* 31: 259.
Lecanium strachani n. sp., and *Icerya seychellarum albolutea* n. race.
- 1899 TWO NEW GENERA OF LECANIINE COCCIDAE. *Entomologist* 32: 12-13.
Platinglisia noacki, n. gen. and sp.; *Carpochloroides viridis*, n. gen.
and sp.
- 1899a ARTICLE VII.—FIRST SUPPLEMENT TO THE CHECK-LIST OF THE COCCIDAE.
Ill. Nat. Hist. Survey Bul. 5: 389-398.
Brings list of names accepted as valid to 1119; much synonymy indicated; *Phenacaspis* Cooley and Ckll. proposed.
- 1899b THE ODOUR OF COCCIDAE. [REMARKS ON F. M. WEBSTER'S ARTICLE WITH
SAME TITLE.] *Canad. Ent.* 31: 36.
- 1899c THREE NEW COCCIDAE FROM BRAZIL. *Canad. Ent.* 31: 43-45.
Icerya (Crypticera) hempeli, *Mytilaspis bambusicola*, *M. argentata*.
- 1899d NOTES ON CENTRAL AMERICAN COCCIDAE, WITH DESCRIPTIONS OF THREE
NEW SPECIES. *Ann. and Mag. Nat. Hist.* (ser. 7) 3: 167-170.
Aspidiotus subsimilis, *A. cupressi*, *Chrysomphalus rhizophorae* n.
spp.; collection notes on 13 others.
- 1899e REVIEW OF "COLOUR IN NATURE; A STUDY IN BIOLOGY." BY M. J. NEW-
BIGIN. LONDON, JOHN MURRAY. 1898, 344 p. *Science* (n.s.) 9:
448-449.
Discusses color in secretory covering or body of 4 coccids, noting
changes resulting from various treatments.
- 1899f NOTES ON AUSTRALIAN COCCIDAE. 1.—THE AUSTRALIAN SPECIES OF
MYTILASPIS. 2.—A NEW PULVINARIA. *Victorian Nat.* 16: 13-16.
Mytilaspis lidgetti, Ckll., *Pulvinaria paradelpa* Ckll. and Lidgett,
n. spp.; key to 22 *Mytilaspis*.
- 1899g A NEW WAX-SCALE FROM WEST AFRICA. *Entomologist* 32: 127.
Ceroplastes egbarum.
- 1899h ON THE HABITS AND STRUCTURE OF THE COCCID GENUS MARGARODES.
Amer. Nat. 33: 415-417.
Includes description of *M. hiemalis* n. sp.
- 1899i FOUR NEW DIASPINE COCCIDAE. *Canad. Ent.* 31: 105-107.
Aspidiotus cueroensis; *A. duplex paeoniae*, *Diaspis celtidis*, *D. auran-*
ticolor.
- 1899j SOME NOTES ON COCCIDAE. *Acad. Nat. Sci. Phila. Proc.* 1899: 259-275.
Sphaerococcopsis n. gen.; *Phoenicococcus marlatti* n. gen. and sp.;
Pergandiella americana n. gen. and sp.; *Eriococcus palmeri* n. sp.;
notes on 42 other coccids.

COCKERELL, T. D. A.—Continued.

1899k NOTES ON AUSTRALIAN COCCIDAE. 3.—TWO NEW SPECIES AND A NEW VARIETY. *Victorian Nat.* 16: 88-89.

Ctenochiton cellulosus, *Rhizococcus lidgetti*, n. spp.; *Chrysomphalus rossi victoriae* n. var.

1899l A NEW DACTYLOPIUS (FAM. COCCIDAE) FROM ARIZONA. *Canad. Ent.* 31: 267.

D. hymenocleae; *Lecaniodiaspis rufescens* (Ckll.) mentioned.

1899m TABLES FOR THE DETERMINATION OF THE GENERA OF COCCIDAE. *Canad. Ent.* 31: 273-279, 330-333. (Cont.)

Keys to 8 subfamilies, to tribes, and to 91 genera; *Phenacoleachia*, *Ripersiella* (Tinsley), *Parafairmairia*, *Lagosinia*, and *Schizochlamidia*, all n. gen.

1899n [ALEURODIDAE AND COCCIDAE.] *Biol. Centr. Amer.* 2, Pt. 2: 1-37, illus. Collection and sometimes other notes on 164 coccids, 2 tribes proposed, 2 new genera, 11 new species, 2 subspecies.

1899o A COCCID FROM THE FAR NORTH. *Canad. Ent.* 31: 369-370.

Eriococcus borealis n. sp.

1900 NOTAS SOBRE COCCIDAS BRAZILEIRAS. *Rev. do Mus. Paulista* 4: 363-364. List of 6 coccids from Para, Brazil; *Eriococcus brasiliensis* n. sp.

1900a THE COCCIDAE OF NEW ZEALAND. *Nature* [London] 61: 367-368.

Discusses opinions expressed by Farquhar; offers *Coelostomidia* new name for *Coelostoma* Mask. non Brullé.

1900b NOTE ON THE COCCID GENUS OUDABLIS, SIGNORET. *Entomologist* 33: 85-87.

Discusses status of *Oudablis* and *Tetrura* and of 11 pseudococcid species possibly involved with them.

1900c TABLE OF NORTH AMERICAN KERMES, BASED ON EXTERNAL CHARACTERS. *Psyche* 9: 44-45.

Key to 14 species.

1900d FOUR NEW COCCIDAE FROM ARIZONA. *Canad. Ent.* 32: 129-132.

Dactylopius irishi, *Aspidiotus* (*Hemiberlesia*) *candidulus*, *Xerophilaspis parkinsoniae*, *Diaspis arizonicus*.

1900e A NEW GENUS OF COCCIDAE, INJURING THE ROOTS OF THE GRAPEVINE IN SOUTH AFRICA. *Entomologist* 33: 173-174.

Cryptinglisia lounsbury n. gen. and sp.

1900f SOME COCCIDAE QUARANTINED AT SAN FRANCISCO. *Psyche* 9: 70-72.

Describes 3 new species, 1 new variety; collection notes on 5 other coccids.

1900g THE NAME OF THE COCHINEAL. *Science* (n.s.) 11: 991-992.

Pseudococcus signoreti proposed as new name for the cochineal insect.

1900h NOTE ON CHRYSOMPHALUS DICTYOSPERMI, A SCALE INSECT FROM CANNES. *Ent. Monthly Mag.* 36: 157.

C. dictyospermi var. *pinnulifera* and its synonymy.

1900i A NEW ERIOCOCCUS, WITH REMARKS ON OTHER SPECIES. *Ent. News* 11: 594-596.

E. quercus toumeyii n. subsp.

1901 THE COCCIDAE OF BRAZIL [REVIEW OF HEMPEL'S "AS COCCIDAS BRAZILEIRAS."] *Amer. Nat.* 35: 63-64.

Comment on relationships of some included genera and species.

1901a A NEW CEROPLASTES (FAM. COCCIDAE). *Buenos Aires Mus. Nac. Comun.* 1 (8): 288-289.

C. bergi.

1901b PERGANDIELLA OR TRIONYMUS? *Ent. News* 12: 89.

Debates priority of these genera, both published in summer of 1899.

COCKERELL, T. D. A.—Continued.

- 1901c NOTES ON SOME COCCIDAE OF THE EARLIER WRITERS. *Entomologist* 34: 90-93.
Notes on the identity and classification of about 27 already described coccids.
- 1901d CONTRIBUTIONS FROM THE NEW MEXICO BIOLOGICAL STATION.—XI. NEW AND LITTLE-KNOWN INSECTS FROM NEW MEXICO. *Ann. and Mag. Nat. Hist.* (ser. 7) 7: 333-335.
Aspidiotus graminellus, *Phenacoccus calcitectus* n. spp.; collection notes on 3 others.
- 1901e THE COCCID GENUS SAISSETIA. *Ent. Student* 2: 31-33.
Platysaissetia and *Megasaissetia*, n. subg.; 8 coccids listed as inclusions in *Saissetia*.
- 1901f A NEW COCCID ON ROOTS OF RUBUS. *Psyche* 9: 215.
Phenacoccus rubivorus.
- 1901g THE NEW MEXICO COCCIDAE OF THE GENUS RIPERSIA. *Ann. and Mag. Nat. Hist.* (ser. 7) 8: 51-57.
Describes 9 new species of *Ripersia*; *Phenacoccus wilmattae* n. sp.
- 1901h NEW COCCIDAE FROM NEW MEXICO. *Canad. Ent.* 33: 209-210.
Orthezia lasiorum n. sp., *Dactylopius neomexicanus indecisus*, *Eriococcus tinsleyi cryptus*, n. var.
- 1901i [COMMENTS.] *Ent. Soc. Wash. Proc.* 4: 387.
Considers differences in scale characteristics important.
- 1901j NEW AND LITTLE-KNOWN COCCIDAE. I. RIPERSIELLA AND CEROPUTO. *Biol. Soc. Wash. Proc.* 14: 165-167.
Ripersiella leucosoma, *R. kelloggi*, *Ceroputo lasiorum*, n. spp.
- 1901k THE COCCID GENUS ERIUM IN SOUTH AMERICA. *Rev. Chilena de Hist. Nat.* 5: 180.
Transfers *Eriococcus armatus* to *Erium*.
- 1901l SOUTH AFRICAN COCCIDAE. *Entomologist* 34: 223-227, 248-250.
Describes 1 new genus, 2 new subgenera, 10 new species; discusses 3 other coccids.
- 1902 A NEW GENUS OF SOUTH AFRICAN COCCIDAE. *Entomologist* 35: 15.
Halimococcus lampas n. gen. and sp.
- 1902a NEW GENERA AND SPECIES OF COCCIDAE, WITH NOTES ON KNOWN SPECIES. *Ann. and Mag. Nat. Hist.* (ser. 7) 9: 20-26.
Cissococcus, *Epicoccus* n. gen.; *Luzulaspis* new name, 7 new species, 3 new varieties.
- 1902b NOTE SUR LE GENRE HEMICHIONASPIS [COCCID.] ET DESCRIPTION D'UNE ESPÈCE NOUVELLE. *Soc. Ent. de France Bul.* 1902 (No. 4): 81-82.
H. marchali n. sp.; key to 9 species.
- 1902c A NEW GALL-MAKING COCCID. *Canad. Ent.* 34: 75.
Cryptophyllaspis rübsaameni from Bismarck Archipelago on *Codiaeum*.
- 1902d THE COCCID GENUS AULACASPIS. *Entomologist* 35: 58-59.
A reassignment of 21 *Diaspis* and *Aulacaspis* species on basis of Newstead's definitions; comment on 2 *Parlatoria* species.
- 1902e A NEW SCALE-INSECT ON AGAVE. *Soc. Cient. "Antonio Alzate" Mem. y Rev.* 17: 143. Also in *Bol. de la Comision de Parasitol. Agr. de Mex.* 1: 339, illus. (In Spanish, p. 338-339.)
Neolecanium herrerae.
- 1902f ON A SPECIES OF PSEUDOCOCCUS (FAMILY COCCIDAE), FROM MEXICO. *Soc. Cient. "Antonio Alzate" Mem. y Rev.* 17: 145. Also in *Bol. de la Comision de Parasitol. Agr. de Mex.* 1: 342-343, illus. (In Spanish, p. 341-342.)
P. ephedrae (Coq.) var.

COCKERELL, T. D. A.—Continued.

- 1902g SOUTH AFRICAN COCCIDAE.—II. Entomologist 35: 111-114.
Describes 3 new species, 1 new subspecies; discusses 3 other coccids.
- 1902h THE NOMENCLATURE OF THE COCCIDAE. Entomologist 35: 114.
Presents 5 notes involving new generic or sectional names.
- 1902i NEW COCCIDAE FROM THE ARGENTINE REPUBLIC AND PARAGUAY. Canad. Ent. 34: 88-93.
Akermes n. gen.; 7 new species, 1 new subspecies in 5 genera.
- 1902j THE NOMENCLATURE OF THE MONOPHLEBINE COCCIDAE. Science (n.s.) 15: 717-718.
Comment on about 12 genera and 4 species.
- 1902k A CONTRIBUTION TO THE KNOWLEDGE OF THE COCCIDAE. APPENDIX. SOME BRAZILIAN COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 7) 9: 450-456.
Describes 4 new genera, 1 new species, 1 new subspecies; reassigns 18 lecanine coccids; notes on 4 genera and 5 species.
- 1902l A NEW ASPIDIOTUS FROM PINUS SYLVESTRIS. Ohio Nat. 2: 287-288, illus. A. (*Diaspidiotus*) *glanduliferus*.
- 1902m ADDITIONS TO THE FAUNA OF MEXICO (BEES AND COCCIDAE). Entomologist 35: 177-178 (178).
Discusses *Tachardia cornuta* Ckll., *Lecaniodiaspis rufescens* (Ckll.), and describes *Eulecanium robiniae subsimile* n. var.
- 1902n THE COCCID LECANOPSIS DUGÉSI. Entomologist 35: 194.
A valid species belonging in *Ceroplastodes*.
- 1902o TABLES FOR THE DETERMINATION OF MEXICAN COCCIDAE. I. SUBFAMILY MONOPHLEBINAE. Soc. Cient. "Antonio Alzate" Mem. y Rev. 18: 79-80, 81-82.
Icerya littoralis tonilensis n. var., *I. colimensis* n. sp., *I. rileyi larrae* n. var.; 3 genera, 13 coccids included.
- 1902p A CATALOGUE OF THE COCCIDAE OF SOUTH AMERICA. Rev. Chilena de Hist. Nat. 6: 250-257.
List of 194 coccid names with country of origin. *Calymnatus incisus* King, *Lecanium i[n]solens* King, n. spp., characterized briefly.
- 1902q A CONTRIBUTION TO THE CLASSIFICATION OF THE COCCIDAE. Entomologist 35: 232-233, 257-260.
Brief classification or nomenclature notes on 33 supraspecific and about 116 specific units in Monophlebinae, Margarodinae, Ortheziinae, Phenacoleachiinae.
- 1902r WHAT IS MONOPHLEBUS, LEACH? Entomologist 35: 317-319.
Restricts *Monophlebus*, establishes 4 additional generic units, discusses status of about 25 associated coccids.
- 1902s TWO NEW MEALY-BUGS FROM NEW MEXICO. Canad. Ent. 34: 315-316.
Phenacoccus cevalliae and *Pseudococcus neomexicanus alkalinus*.
- 1902t SOME COCCIDAE FROM MEXICO. Ann. and Mag. Nat. Hist. (ser. 7) 10: 465-472.
Describes 8 new species; collection notes on 15 other coccids.
- 1903 SOME SPECIES OF EULECANIUM (COCCIDAE) FROM FRANCE. Psyche 10: 19-22.
Describes 5 new varieties.
- 1903a NEW AND LITTLE-KNOWN AMERICAN COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 7) 11: 155-165.
Cardiococcus n. gen.; 9 new species, 6 new varieties in 8 genera; collection notes on 6 coccids.
- 1903b FIVE NEW COCCIDAE FROM MEXICO. Entomologist 36: 45-48.
Mytilaspis mimosarum, *M. townsendiana*, *Neolecanium leucaenae*, *Akermes colimae*, *Pseudococcus cualatensis*.
- 1903c TWO REMARKABLE NEW COCCIDAE. Canad. Ent. 35: 64-66.
Stictococcus sjostedti, n. gen. and sp.; *Tachardia aurantiaca* n. sp.

COCKERELL, T. D. A.—Continued.

- 1903d A NEW COCCID OF THE GENUS ASTEROLECANIUM FROM EGYPT. *Entomologist* 36: 112.
A. pustulans sambuci n. var.
- 1903e A NEW COCCID FROM MADEIRA, ALLIED TO COCCUS TUBERCULATUS, BOUCHÉ. *Entomologist* 36: 261-262.
Pulvinaria grabhami.
- 1903f TABLE TO SEPARATE THE COMMONER SCALES (COCCIDAE) OF THE ORANGE. *Soc. Cient. "Antonio Alzate" Mem. y. Rev.* 13: 349-351.
Key to 23 coccids based on scales or gross appearance.
- 1903g A SUMMARY OF THE COCCIDAE. [Review of "Catalogue of the Coccidae of the World" by Mrs. M. E. Fernald.] *Amer. Nat.* 37: 800-806.
A census of the family and distribution of the genera based on Mrs. Fernald's catalogue.
- 1905 A TABLE TO FACILITATE THE DETERMINATION OF THE MEXICAN SCALE-INSECTS OF THE GENUS ASPIDIOTUS (SENS. LATISS.) *Amer. Nat.* 39: 45-46.
Field key to 24 coccids [now in several genera].
- 1905a A NEW LAC-INSECT. *Ent. News* 16: 52.
Tachardia glomerella.
- 1905b TABLES FOR THE IDENTIFICATION OF ROCKY MOUNTAIN COCCIDAE (SCALE INSECTS AND MEALYBUGS). *Colo. Univ. Studies* 2: 189-203.
Keys to 9 subfamilies, 40 genera, and 130 coccids.
- 1905c THREE NEW COCCIDAE FROM COLORADO. *Canad. Ent.* 37: 135-136.
Eriopeltis coloradensis, *Trionymus nanus*, *Orthezia olivacea*.
- 1905d THREE NEW SOUTH AMERICAN COCCIDAE. *Ent. News* 16: 161-163.
Aspidiotus riverae, *Ceroplastes schrottkyi*, *C. sanguineus*.
- 1905e NOTES ON EULECANIUM FOLSOMI KING. *Ent. Soc. Wash. Proc.* 7: 129-130.
Added descriptive information.
- 1905f SOME COCCIDAE FROM THE PHILIPPINE ISLANDS. *Davenport Acad. Sci. Proc.* 10: 127-136.
Describes 10 new species, 1 new subspecies; notes on 17 other coccids.
- 1905g A NEW SCALE-INSECT (FAM. COCCIDAE) ON THE ROSE. *Zool. Anz.* 29: 514-515.
Pulvinaria coulteri.
- 1906 THE COCCID GENUS EULECANIUM. *Canad. Ent.* 38: 83-88.
Key to 67 supposed species of *Eulecanium*.
- 1906a THE SOUTH AMERICAN COCCIDAE OF THE GENUS ERIOCOCCUS. *Ent. Soc. Wash. Proc.* 8: 32.
Key and notes for 3 species.
- 1906b NOTES ON COCCIDAE. *Ent. Soc. Wash. Proc.* 8: 33-35.
Descriptive and other notes on 7 coccids and on 2 coccid genera.
- 1907 THE SCALE INSECTS OF THE DATE PALM. *Ariz. Agr. Expt. Sta. Bul.* 56: 185-192, illus.
A report on the occurrence of *Parlatoria blanchardi* and *Phoenicococcus marlatti* in Arizona.
- 1909 THE JAPANESE COCCIDAE. *Canad. Ent.* 41: 55-56.
Discusses 9 species described by Kuwana; key to 5 margarodid genera.
- 1909a THE COCCID GENUS CEROPUTO. *Entomologist* 42: 100.
Monophlebus trivenosus a *Ceroputo*.
- 1909b A NEW COCCID OF THE GENUS ERIOCOCCUS. *Ent. Soc. Wash. Proc.* 10 (1908): 167-168.
E. quercus gilensis, n. subsp.

COCKERELL, T. D. A.—Continued.

- 1910 A NEW MEALY-BUG (COCCIDAE) FROM SOUTH AMERICA. *Entomologist* 43: 113.
Pseudococcus missionum.
- 1910a A NEW WAX SCALE FROM THE ARGENTINE. *Canad. Ent.* 42: 74-76.
Ceroplastes lahillei n. sp.; *Ceroplastina*, *Ceroplastidia* n. subg.
- 1910b THE COCCIDAE OF BOULDER COUNTY, COLORADO. *Jour. Econ. Ent.* 3: 425-430, illus.
Lists 27 coccids, including *Pulvinaria occidentalis subalpina* n. var.
- 1910c COCCIDAE OF BOULDER COUNTY, COLORADO. *Jour. Econ. Ent.* 3: 481.
Two coccids added to Boulder County list.
- 1911 A NEW COCCID ON LEDUM (HEMIP). *Ent. News* 22: 217.
Pseudococcus ledi.
- 1912 SOME COCCIDAE FROM THE GRAND CANON, ARIZONA. *Canad. Ent.* 44: 301.
Phenacoccus betheli n. sp.; notes on 2 others.
- 1913 TWO NEW COCCIDAE. *Jour. Econ. Ent.* 6: 142-143.
Drosicha lichenoides, *Trionymus violascens*.
- 1914 A NEW COTTON SCALE FROM PANAMA. *Jour. Econ. Ent.* 7: 148.
Icerya zeteki.
- 1914a A NEW COCCID FROM ARIZONA (HEMIP.) *Ent. News* 25: 110.
Palaeococcus morrilli n. sp.
- 1914b DESCRIPTIONS AND RECORDS OF COCCIDAE. II. NON-DIASPINE SUBFAMILIES. *Amer. Mus. Nat. Hist. Bul.* 23: 331-335, illus.
Describes 5 new species; 6 other coccids discussed.
- 1915 A REMARKABLE MONOPHLEBINE COCCID FROM THE PHILIPPINE ISLANDS. *Canad. Ent.* 47: 344.
Llaveia sanguinea n. sp.
- 1916 TWO NEW MONOPHLEBINE COCCIDAE FROM THE PHILIPPINE ISLANDS. *Jour. Econ. Ent.* 9: 235-236.
Llaveia benguetensis and *Drosicha palavanica*.
- 1916a SOME GRASS-FEEDING MEALY-BUGS (COCCIDAE). *Jour. Econ. Ent.* 9: 312-313.
Pseudococcus timberlakei n. sp., *P. neomexicanus utahensis* n. var.; other coccids compared.
- 1919 A NEW COCCID ON THE COCOANUT PALM. *Canad. Ent.* 51: 116, illus.
Furcaspis haematochroa n. sp.
- 1919a A NEW MONOPHLEBINE COCCID FROM BORNEO. *Jour. Econ. Ent.* 12: 272.
Llaveia haematoptera n. sp.; key to 3 *Llaveia* males.
- 1920 A NEW SCALE INSECT ON RHIZOPHORA. *Philippine Jour. Sci.* 15 (Oct. 1919): 385-386, illus.
Targionia merrilli.
- 1922 THE MEALY-BUG CALLED PSEUDOCOCCUS BROMELIAE, AND OTHER COCCIDS. *Science* 56: 308-309.
Synonymy of several species discussed.
- 1924 THE NAME OF THE LAC INSECTS. *Psyche* 31: 47-48.
Name *Laccifer* Oken 1815 has priority over *Tachardia*.
- 1924a THE COCCIDAE (SCALE-INSECTS AND MEALY-BUGS) OF THE MADEIRA ISLANDS. *Nature* 113: 164-165.
Brief discussion of native and introduced species based on Green's identifications.
- 1929 BIOLOGICAL CONTROL OF THE PRICKLY PEAR. *Science* (n.s.) 69: 328-329.
Dactylopius greenii new name for *Coccus confusus capensis* Green 1912, not *Coccus capensis* L. 1766; 6 other coccids discussed.

COCKERELL, T. D. A.—Continued.

- 1929a A NEW MEALY-BUG INFESTING COCONUT IN THE SOLOMON ISLANDS. *Entomologist* 62: 90-91.
Trionymus malaitensis.
- 1929b THE TYPE OF GENUS COCCUS (HOMOPTERA, COCCIDAE). *Science* (n.s.) 70: 150.
Concludes *Coccus* should be applied to oak coccids previously called *Kermes*; describes *C. siamensis* n. sp.
- 1933 THE TYPE OF THE GENUS LECANIUM. *Science* (n.s.) 78: 35.
Notes 1901 designation of type as *hesperidum* L.
- 1940 THE INSECTS OF THE CALIFORNIAN ISLANDS. *Pacific Sci. Cong. 6, Proc. 4*: 282-295 (287-288).
Includes 7 coccids in report.
- 1946 ON THE STATUS OF THE GENERIC NAME ASPIDOPROCTUS NEWSTEAD, 1901 (CLASS INSECTA, ORDER HEMIPTERA). *Bul. Zool. Nomenclature* 1: 171.

See also Cockerell, W. P., and Cockerell, T. D. A.; King, G. B., and Cockerell, T. D. A.; Laing, F., and Cockerell, T. D. A.; Pergande, T., and Cockerell, T. D. A.; Townsend, C. H. T., and Cockerell, T. D. A.; Wheeler, W. M., 1912.

COCKERELL, T. D. A., and BUEKER, E. D.

- 1930 NEW RECORDS OF COCCIDAE (HOMOPTERA). *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 424, 8 p., illus.
Antonina littoralis n. sp., *Loranthaspis microconcha* n. gen. and sp., *Ceroplastes dozieri* n. sp., *Marsipococcus* n. subgen.
- 1930a SOME GEOPHILOUS MEALY-BUGS FROM AUSTRALIA. (HOMOPTERA: COCCOIDEA). *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 441: 1-7, illus.
Pseudococcus hystriocosus, *Trionymus angustus* n. spp.

COCKERELL, T. D. A., and COCKERELL, W. P.

- 1901 A NEW MEALYBUG ON GRASS-ROOTS. *Canad. Ent.* 33: 336-337.
Dactylopius roseotinctus.

COCKERELL, T. D. A., and HELLEMS, F. B. R.

- 1907 A SCIENTIFIC COMEDY OF ERRORS. *Pop. Sci. Monthly* 71: 217-225, illus.
General discussion of early dye coccids; also points out that *Coccus cacti* L. is not the true cochineal.

COCKERELL, T. D. A., and KING, G. B.

- 1898 THE COCCID GENUS SPHAEROCOCCUS IN MASSACHUSETTS. *Canad. Ent.* 30: 326.
S. sylvestris n. sp.
- 1899 AN APPARENTLY NEW LECANIUM FOUND ON WHITE CEDAR. *Psyche* 8: 349-350.
L. pallidior n. sp.; compared with *L. fletcheri*.
- 1901 NOTES ON CRYPTICERYA TOWNSENDI CKLL. *Psyche* 9: 175-177, illus.
Fairly detailed descriptive notes.
- 1901a A NEW LAC-INSECT FROM SOUTH AFRICA. *Entomologist* 34: 342.
Tachardia actinella.

COCKERELL, T. D. A., and PARROTT, P. J.

- 1899 CONTRIBUTION TO THE KNOWLEDGE OF THE COCCIDAE. *Industrialist* 25: 159-165, 227-237, 276-284.
Key to 12 species of *Lecanium* with rudimentary legs, including *L. sonorensis*, n. sp.; key to 14 species of *Saissetia*, including *S. toluacanum* n. sp.; *Gymnococcus ruber* n. sp.; discussion of status of *Cryptes baccatus*.
- 1901 TABLE TO SEPARATE THE GENERA AND SUBGENERA OF COCCIDAE RELATED TO LECANIUM. *Canad. Ent.* 33: 57-58. (Concl. of Lecaniinae.)
Key to 13 genera.

See also Cockerell, T. D. A., 1899n.

COCKERELL, T. D. A., and QUAINANCE, A. L.

1897 A NEW SPECIES OF COCCIDAE OF THE GENUS LECANIODIASPIS. Ent. News 8: 161-163, illus.

L. (Prosopophora) tessellatus [Cockerell]. Biological notes by Quainance.

COCKERELL, T. D. A., and ROBBINS, W. W.

1909 A NEW COCCID FROM NICARAGUA. Canad. Ent. 41: 150.

Mesolecanium perditulum.

1909a SOME NEW AND LITTLE KNOWN COCCIDAE. N. Y. Ent. Soc. Jour. 17: 104-107, illus.

Aspidiotus arctostaphyli n. sp., *Chionaspis sassceri* n. sp.; collection notes on 3 other coccids.

COCKERELL, T. D. A., and ROBINSON, E.

1914 ARTICLE XXV.—DESCRIPTIONS AND RECORDS OF COCCIDAE. I. SUBFAMILY DIASPINAE. Amer. Mus. Nat. Hist. Bul. 33: 327-330, illus.

Describes 3 new species; discusses 4 others.

1915 ARTICLE II.—DESCRIPTIONS AND RECORDS OF COCCIDAE. Amer. Mus. Nat. Hist. Bul. 34: 105-113, illus.

Describes 7 new species; notes on 8 others.

1915a ARTICLE XIII.—DESCRIPTIONS AND RECORDS OF COCCIDAE. Amer. Mus. Nat. Hist. Bul. 34: 423-428, illus.

Describes 2 new genera, 3 new species; collection notes on 20 other coccids.

COCKERELL, T. D. A., and ROHWER, S. A.

1909 A NEW GALL-MAKING COCCID ON ATRIPLEX. Ent. Soc. Wash. Proc. 10 (1908): 169-170.

Atriplicia gallicola n. gen. and sp.

COCKERELL, T. D. A., and TINSLEY, J. D.

1898 ON A NEW WAX-PRODUCING INSECT FOUND IN JAMAICA. Inst. Jamaica Jour. (Sci. Note). 2 (Dec. 1897): 468.

Ceroplastes confluens.

COCKERELL, W. P., and COCKERELL, T. D. A.

1903 [DESCRIPTION OF A NEW COCCID FROM BEULAH, N. MEX.] Amer. Ent. Soc. Trans. 29: 112-113.

Phenacoccus vipersioides [-*ripersioides*].

See also Cockerell, T. D. A., and Cockerell, W. P.

COLEMAN, G. A.

1901 THE REDWOOD MEALY BUG (DACTYLOPIUS SEQUOIAE, SP. NOV.) Calif. Acad. Sci. Proc. (Ser. 3, Zool.) 2: 409-420, illus.

Description and life history.

1903 COCCIDAE OF THE CONIFERAE, WITH THE DESCRIPTIONS OF TEN NEW SPECIES FROM CALIFORNIA. N. Y. Ent. Soc. Jour. 11: 61-85, illus.

Descriptions of 10 new species and 1 new variety; list of 22 coccids obtained from California conifers, including the 11 new; list of 56 other coccids reported from conifers.

1908 COCCIDAE OF THE CONIFERAE. SUPPLEMENT NO. 1. DESCRIPTION OF TWO NEW SPECIES. N. Y. Ent. Soc. Jour. 16: 197-198, illus.

Pseudococcus cupressi, *Xylococcus macrocarpae*.

COLEMAN, L. C., and KANNAN, K. KUNHI

1918 SOME SCALE INSECT PESTS OF COFFEE IN SOUTH INDIA. Mysore Dept. Agr. Ent. Ser. Bul. 4, 67 p., illus.

Detailed description of *Coccus colemani* Kannan n. sp., considered a mutant from *C. viridis*; descriptions and detailed biological data for *Saissetia hemisphaerica*, *Pulvinaria psidii*.

COLIZZA, C.

1933 CONTRIBUTO ALLA CONOSCENZA DELLE COCCINIGLIE DEL MOZAN[M]BICO. (HEMIP. COCCIDAE). Soc. Ent. Ital. Bol. 65: 174-178, illus.
Pseudococcus africanus n. sp.

1934 CONTRIBUTO ALLA CONOSCENZA DELLE COCCINIGLIE DEL MOZAN[M]BICO. Soc. Ent. Ital. Bol. 66: 237-242, illus.
Ferrisiana virgata—synonymy, description of larva and adult female, habitat, natural enemies.

COLLINGE, W. E.

1911 ON THE LOCOMOTION AND LENGTH OF LIFE OF THE YOUNG OF PULVINARIA VITIS VAR. RIBESIAE, SIGN. Jour. Econ. Biol. 6: 139-142.
Will travel 4 to 8 feet according to surface; will remain alive up to 20 days without food.

COLTON, H. S.

1943 LIFE HISTORY AND ECONOMIC POSSIBILITIES OF THE AMERICAN LAC INSECT, TACHARDIELLA LARREA. Plateau 16: 21-32, illus.
One generation annually, young larvae in March; use of native American lac not practicable.

1944 THE ANATOMY OF THE FEMALE AMERICAN LAC INSECT, TACHARDIELLA LARREA. Mus. North. Ariz. Bul. 21, 24 p. illus.

1948 THE ALIMENTARY SYSTEM OF THE AMERICAN LAC INSECT, TACHARDIELLA LARREAE. (Abs.) Colo-Wyo. Acad. Sci. Jour. 3: 66.

COLVÉE, P.

1880 ENSAYO SOBRE UNA NUEVA ENFERMEDAD DEL OLIVO, PRODUCIDA POR UNA NUEVA ESPECIE DEL GENERO ASPIDIOTUS. Spain. Min. de Fomento 14: 21-41 (23, 30-41), 200-210, illus.
Aspidiotus oleae n. sp. [= *A. hederæ*], and *Diaspis oleae* n. sp.; other coccids mentioned.

1881 ESTODIOS SOBRE ALGUNOS INSECTOS DE LA FAMILIA DE LOS COCCIDOS. Valencia, Nicasio Rius Monfort. 40 p., illus.
Discusses 9 coccids, including *Diaspis pyri*, *D. trinacris*, *D. monserrati*, apparently first proposed here.

1881a CEROPLASTES RUSCI. Spain. Min. de Fomento. Gac. Agr. 18: 494-499.
Mentions also *C. radiatus*, *C. testudinatus*, *C. hidates*, and *Mytilaspis ficus*.

1881b [DIASPIIS PYRI N. SP. FROM SPAIN.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 1: li.
Epidiaspis leperii according to Balachowsky 1954.

1881c [CEROPLASTES RUSCI. DESCRIPTION OF MALE.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 1: xii-xiii.

1881d [ASPIDIOTUS JUGLANDIS N. SP.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 1: clxv-clxvi.

1882 NUEVOS ESTUDIOS SOBRE ALGUNOS INSECTOS DE LA FAMILIA DE LOS COCCIDOS. Valencia. 16 p.
Describes and discusses 6 coccids, including *Leucaspis lowi*, *Aspidiotus oleastri* n. spp.

COMSTOCK, J. H.

1881 NOTES ON COCCIDAE. Canad. Ent. 13: 8-9.
Chrysomphalus ficus (Riley) Ashmead, belongs to *Aspidiotus*. *A. citri* n. sp. from California [= *Aonidiella aurantii*].

1881a REPORT OF THE ENTOMOLOGIST. PART II. REPORT ON SCALE INSECTS. In U.S. Dept. Agr., Comnr. Agr. Rpt., 1880: 276-349, illus. Reprinted in Cornell Univ. Agr. Expt. Sta. Bul. 372: 425-500, 22 pl., 1916.
Discusses 48 U. S. species, with 23 described as new.

COMSTOCK, J. H.—Continued.

- 1882 REPORT OF THE ENTOMOLOGIST, UNITED STATES DEPARTMENT OF AGRICULTURE. LAC INSECTS. In U.S. Dept. Agr., Comnr. Agr. Rpt., 1881-1882: 209-214, illus. Reprinted in Cornell Univ. Agr. Expt. Sta. Bul. 372: 501-506, 2 pl., 1916.

Redescribes *Carteria lacca*; describes *C. larreae*, *C. mexicana*, n. spp., *Cerococcus quercus* n. gen. and sp.

- 1883 SECOND REPORT ON SCALE INSECTS. INCLUDING A MONOGRAPH OF THE SUB-FAMILY DIASPINAE OF THE FAMILY COCCIDAE AND A LIST, WITH NOTES, OF THE OTHER SPECIES OF SCALE INSECTS FOUND IN NORTH AMERICA. In Cornell Univ. Agr. Expt. Sta., Dept. Ent. Rpt. 2 (1882-83): 47-142, illus. Reprinted in Cornell Univ. Agr. Expt. Sta. Bul. 372: 507-603, 4 pl., 1916.

Lists or discusses 168 coccids, including 97 from N. America, with 14 new; keys to U. S. *Aspidiotus*, *Diaspis*, *Chionaspis*, *Parlatoria* species.

CONTE, A., and FAUCHERON, L.

- 1907 PRESENCE DE LEVURES DANS LE CORPS ADIPEUX DE DIVERS COCCIDES. [Paris] Acad. des Sci. Compt. Rend. 145: 1223-1225.

Discusses inclusions in the fat body of 4 lecanine coccids.

COOK, A. J.

- 1878 LECANIUM TULIPIFERAE. Canad. Ent. 10: 192-195, illus.

First description, life history, control.

- 1909 THE RED SCALE (CHRYSOMPHALUS AURANTII MASK). Pomona Col. Jour. Ent. 1: 15-21, illus.

Relationships, description, and control in California.

COOKE, M.

- 1881 SCALE INSECTS INJURIOUS TO FRUIT AND OTHER TREES. In his "A TREATISE ON THE INSECTS INJURIOUS TO FRUIT AND FRUIT TREES OF THE STATE OF CALIFORNIA AND REMEDIES RECOMMENDED FOR THEIR EXTERMINATION," p. 28-47, illus. Sacramento, State Office.

Brief general discussion; short detailed treatment of 13 coccids, including "*Uhleria araucariae* Comstock"; section on control procedures.

COOLEY, R. A.

- 1897 NEW SPECIES OF CHIONASPIS. Canad. Ent. 29: 278-282.

C. cockerelli, *C. aucubae*, *C. wistariae*, *C. pinifoliae heterophyllae*, and Cockerell description of *C. latissima* Ckll.

- 1898 NEW SPECIES OF CHIONASPIS AND NOTES ON PREVIOUSLY KNOWN SPECIES. Canad. Ent. 30: 85-90.

C. lintneri betulae n. var., *C. caryae*, *C. lounsburyi*, *C. howardi*, n. spp.; notes on 2 described species.

- 1898a DIASPIS AMYGDALI IN MASSACHUSETTS. Canad. Ent. 30: 232.

Considers *Chionaspis prunicola* synonym of *Diaspis amygdali*.

- 1899 THE COCCID GENERA CHIONASPIS AND HEMICHIONASPIS. Mass. Agr. Expt. Sta. Spec. Bul., 57 p., illus.

Classificatory study; key and descriptions for 16 *Chionaspis* including 4 new; same for 11 *Hemichionaspis*, including 2 new.

- 1903 A NEW DIASPID GENUS. Canad. Ent. 35: 48.

Phenacaspis Cooley and Ckll.

- 1909 PHOTOMICROGRAPHY OF THE DIASPINAE. Jour. Econ. Ent. 2: 95-97.

COQUILLET, D. W.

- 1889 MEALY BUGS OF THE UNITED STATES. West Amer. Sci. 6: 121-123.

Dactylopius ryani, *D. crawii* n. spp; keys to 5 mealybugs.

- 1890 NEW COCCIDS FROM CALIFORNIA AND ONE OF THEIR CHALCID PARASITES. West Amer. Sci. 7: 43-45.

Dactylopius ephedrae, *Pseudococcus yuccae*.

COQUILLET, D. W.—Continued.

1891 A NEW SCALE INSECT FROM CALIFORNIA. *Insect Life* 3: 382-384.
Lecanium pruinorum.

1892 REPORT ON THE SCALE INSECTS OF CALIFORNIA. U. S. Dept. Agr. Div.
Ent. Bul. 26 (old ser.): 13-35.
Biology, host relationships, and control of 11 coccids discussed.

CORY, E. N., see SYMONS, T. B., and CORY, E. N.

COSTA, A.

1857 DEGL' INSETTI CHE ATTACCANO L'ALBERO ED IL FRUTTO LORO DESCRIZIONE E BIOLOGIA DANNI CHE ARRECANO E MEZZI PER DISTRUGGERLI. R. Accad. Sci. di Napoli, (Opera coronata), 197 p. (71-79), illus.

Describes at length *Coccus* [= *Saissetia*] *oleae* and *Coccus* [= *Pollinia*] *pollini* [new].

1866 DI UNA SINGOLARE COCCINIGLIA DELLA FAUNA ITALIANA, E DI ALCUNI ORTOTTERI BLATTIDEI. Accad. delle Sci. Fis. e Mat. Napoli, Atti 3, n. 7, 12 p. (9-12), illus. Also in Accad. delle Sci. Fis. e Mat. Napoli, Rend. 5: 308-310.

Chelonicoccus luteus n. gen. and sp. [chrysalid of lycaenid butterfly according to Silvestri].

1877 DEGL' INSETTI CHE ATTACCANO L'ALBERO ED IL FRUTTO DELL' OLIVO LORO DESCRIZIONE E BIOLOGIA DANNI CHE ARRECANO E MEZZI PER DISTRUGGERLI. Ed. 2, rev. and enl. Napoli, R. Ist. d'Incoraggiamento. 340 p. (114-129), illus.

Redescribes *Philippia oleae*, *Lecanium oleae*, *Cisticoccus pollini*; rejects Targionia's name *Pollinia costae* for *Cisticoccus pollini*.

COSTA, O. G.

1828 DEGLI INSETTI, CHE VIVONO SOPRA L'ULIVO E NELLE OLIVE. ARTICOLO I. DELLA COCCINIGLIA DELL'ULIVO COCCUS OLEAE, FABR. LATR. OLIV.; COCCINIGLIA OLIVINA, ANGELINI. R. Ist. d'Incoragg. di Napoli, Atti. 4: 204-211, 217-218, illus.

This description currently accepted as base for modern species *Filippia oleae* (Costa).

1828a PROSPETTO DI UNA NUOVA DIVISIONE METODICA DEL GENERE COCCUS, LIN. LAM. EC. Napoli, Dalla Tipografia Trani, 8 p.

Proposes, as subdivisions of *Coccus* L., *Calymmata* [for *hesperidum oleae*, *rusci*, etc.], *Diaspis* [for an undescribed coccid on *Nerium* and other hosts], and *Diaprosteci* [for *adonidum*].

1835 FAUNA DEL REGNO DI NAPOLI, FAMIGLIA DE' COCCINIGLIFERI, O DE' GALLINSETTI. Emitteri Napoli. 23 p., illus. (Undated; publication date listed by Fernald and Lindinger accepted.)

Discusses 12 coccids, 9 under new names, mentions several more; proposes *Calypiticus* for *Calymmata*, *Dactylopius* for *Diaprosteci*, and validates *Diaspis*.

COSTA, LIMA, A.

1921 TECHNICA PARA A PREPARAÇÃO E MONTAGEM DE PEQUENOS INSECTOS PARA EXAME MICROSCÓPICO. Arch. da Esc. Super. Agr. e Med. Vet. [Nichteroy, Rio de Janeiro] 5: 123-126.

On the preparation of diaspine coccids for microscope study.

1923 SOBRE UM PIOLHO DA LIXIA. Chacaras e Quintaes 28: 9-10, illus.
Fiorinia nephelii discussed and described.

1923a NOTA SOBRE AS ESPECIES DO GENERO EUCALYMNATUS. Arch. da Esc. Super. Agr. e Med. Vet. [Nichteroy, Rio de Janeiro] 7: 35-44, illus.
Describes 3 new species, 1 new subspecies; key to 7 *Eucalymnatus*.

1924 SOBRE INSECTOS PARASITAS DA VIDEIRA. Almanak Agr. Brasileiro, 1924, p. 135-141 (135), illus.

Lists 12 coccids, describes 4, including *Aonidiella arnaldoi* and *Pseudaonidia marquesi*, n. spp.

COSTA, LIMA, A.—Continued.

- 1924a SOBRE DUAS ESPECIES DE COCCIDEOS DO GENERO "AONIDIELLA" AINDA NAO ASSIGNALADAS NO BRASIL. *Egatea* 9: 195-199.
Aonidiella leivas n. sp.; *A. apicata* redescribed.
- 1927 SEGUNDO CATALOGO SYSTEMATICO DOS INSECTOS QUE VIVEM NAS PLANTAS DO BRASIL E ANSAIO DE BIBLIOGRAPHIA ENTOMOLOGICA BRASILEIRA. *Arch. da Esc. Super. Agr. e Med. Vet. [Nichteroy, Rio de Janeiro.]* 8: 69-301 (101-127).
Lists 202 coccids.
- 1930 SOBRE O PSEUDOCOCCUS CRYPTUS HEMPEL, PRAGA DO CAFEIEIRO E DA LARANJEIRA. (HOMOPTERA: COCCOIDEA). *Inst. Oswaldo Cruz. Mem.* 23: 35-40, illus.
A detailed redescription.
- 1930a SUPPLEMENTO AO 2º CATALOGO SYSTEMATICO DOS INSECTOS QUE VIVEM NAS PLANTAS DO BRASIL E ENSAIO DE BIBLIOGRAPHIA ENTOMOLOGICA BRASILEIRA. *O Campo [Brazil]* 1(8): 84-91 (86-88).
Lists 58 coccids with host and locality data.
- 1930b SEGUNDA NOTA SOBRE ESPECIES DO GENERO EUCALYMNATUS (HOMOPTERA: COCCIDAE). *Inst. Oswaldo Cruz Mem.* 24: 85-87, illus.
E. scutigera n. sp.; mentions several others described in 1923.
- 1934 SOBRE ALGUNS COCCIDEOS. *Inst. de Biol. Veg. Arq.* 1: 131-138, illus.
Lachnodiella? bondari n. sp., *Parlatoria fluggeae brasiliensis* n. var.; list of 16 *Odonaspis*; redescription of *O. ruthae*.
- 1934a UM NOVO COCCIDEO DA CANA DE AÇUCAR. *O Campo* 5 (11): 25.
Aonidiella saccharicola n. sp.
- 1936 TERCEIRO CATALOGO DOS INSECTOS QUE VIVEM NAS PLANTAS DO BRAZIL. Rio de Janeiro. *Dir. de Estat. da Prod.* 460 p. (159-201).
About 260 coccids listed with host and locality data.
- 1939 ESPÉCIES DE PSEUDOCOCCUS OBSERVADAS NO BRASIL. (HOMOPTERA: COCCOIDEA-PSEUDOCOCCIDAE). *Bol. Biol. (n.s.)* 4: 1-10.
Pseudococcus joannesiae n. sp.; key to 14 species, with notes on many.
- 1940 UM NOVO CEROPLASTES GIGANTE (COCCOIDEA: COCCIDAE). [Sao Paulo] *Dept. de Zool. Papéis avulsos* 1: 9-12, illus.
C. lepagei.
- 1942 INSECTOS DO BRASIL. 3 (HOMOPTEROS), 327 p. (191-307), illus.
Brief outline of coccoid characteristics; key to 10 families, 2 subfamilies; descriptive, anatomical, biological, and other notes on numerous species considered as important.
- 1950 NOVA ESPÉCIE DE MARGARODES DO BRASIL (COCCOIDEA, MARGARODIDAE). *Inst. Oswaldo Cruz Mem.* 47 (1949): 241-248, illus.
M. carvalhoi.
- 1951 UMA NOVA ESPÉCIE DE AONIDIELLA (HOMOPTERA, COCCOIDEA, DIASPIDI-DAE). *Inst. Biol. [Sao Paulo] Arq.* 20: 173-176, illus.
A. araucariae.
- COSTANTINO, G.
- 1937 CONTRIBUTO ALLA CONOSCENZA DELLE COCCINIGLIE DELLE ISOLE EOLIE. [Italy] *R. Staz. Sper. di Fruttic. e Agrumic. Ann.* 14: 235-242.
Reports 19 common coccids.
- 1938 COCCINIGLIE RACCOLTE NEL R. ORTO BOTANICO DI CATANIA [Italy] *R. Staz. Sper. di Fruttic. e Agrumic. Ann.* 15: 25-44.
Reports 39 coccids; plant-host list associated.
- 1938a SULLA PRESENZA DEL MASCHIO DELL' ICERYA PURCHASI MASKELL. *Boi. di Zool. [Torino]* 9: 115-123, illus. Also in [Italy] *R. Staz. Sper. di Fruttic. e Agrumic. Ann.* 15: 45-51, illus.
Reports males abundant under conditions studied.
- 1950 ELENCO DELLE COCCINIGLIE OSSERVATE IN SICILIA (HEMIPTERA-HOMOPTERA, FAM.-COCCIDAE). *Bol. di Zool. [Torino]* 17: 1-24.
List of 63 coccids with collection data on each.

COTTIER, W.

- 1936 A RE-DESCRIPTION OF PSEUDOCOCCUS COCOTIS MASKELL, INCLUDING A DESCRIPTION OF THE MALE (HEM.). Roy. Ent. Soc. London, Proc., Ser. B. Taxonomy, 5: 25-31, illus.

CRAIGHEAD, F. C.

- 1950 INSECT ENEMIES OF EASTERN FORESTS. U. S. Dept. Agr. Misc. Pub. 657, 679 p. (12, 57, 139-152, 210, 614, 618), illus.
Mentions or discusses briefly 49 coccids.

CRAW, A.

- 1896 INJURIOUS INSECT PESTS FOUND IN TREES AND PLANTS FROM FOREIGN COUNTRIES. Calif. State Bd. Hort., Bien. Rpt. 5 (1895-96): 33-47, illus.

Descriptive and collection information on 38 coccids, including *Chionaspis chinensis*, *Cockerell*, n. sp.

- 1899 METHODS OF PRESERVING SCALE INSECTS FOR CABINET SPECIMENS. Calif. State Bd. Hort. 1897-98: 114-115, illus.

Describes use of shell vials.

CRESSMAN, A. W.

- 1933 BIOLOGY AND CONTROL OF CHRYSOMPHALUS DICTOSPERMI (MORG.) Jour. Econ. Ent. 26: 696-706.

Includes comment on described varieties.

See also MUNGER, F., and CRESSMAN, A. W.

CRESSMAN, A. W., and KESSELS, L. T.

- 1933 WINTER MORTALITY OF THE CAMPHOR SCALE AND DICTYOSPERMA SCALE IN 1933 AT NEW ORLEANS, LA. Jour. Econ. Ent. 26: 1177-1179.

CRESSMAN, A. W., and PLANK, H. K.

- 1935 THE CAMPHOR SCALE. U.S. Dept. Agr. Cir. 365, 19 p.

Distribution, hosts, brief description, life history, enemies, control.

CRESSMAN, A. W., and others

- 1935 BIOLOGY OF THE CAMPHOR SCALE AND A METHOD FOR PREDICTING THE TIME OF APPEARANCE OF STAGES IN THE FIELD. Jour. Agr. Res. 50: 267-283, illus.

CUMMING, M. E. P.

- 1953 NOTES ON THE LIFE HISTORY AND SEASONAL DEVELOPMENT OF THE PINE NEEDLE SCALE, PHENACASPIS PINIFOLIAE (FITCH) (DIASPIDIDAE: HOMOPTERA). Canad. Ent. 85: 347-352, illus.

[CURTIS, J.] (RURICOLA)

- 1843 THE BLACK TURTLE SCALE. COCCUS TESTUDO (CURTIS). Gard. Chron. No. 26: 443-444.

[Obviously *Saissetia oleae*.]

- 1843a COCCUS PATELLAEFORMIS (CURTIS). THE BROWN LIMPET-SCALE. Gard. Chron. No. 30: 517-518, illus.

[Is *Coccus hesperidum*.]

- 1843b THE SMALL BROWN SCALE, ASPIDIOTUS PROTEUS, NOBIS. Gard. Chron. No. 39: 676.

- 1843c ASPIDIOTUS OSTREAEFORMIS (THE PEAR-TREE OYSTERSCALE). Gard. Chron. No. 46: 805.

CUSCIANNA, N.

- 1931 LA COCCINIGLIA DEL SUSINO (EULECANIUM CORNI) IN PROVINCIA DI TRIESTE. [Portici] R. Ist. Super Agr., Lab. Zool. Gen. e Agr. Bol. 24: 279-298, illus.

Descriptions of all stages, distribution, hosts, damages, control.

DALE, C. W.

- 1892 RIPERSIA TOMLINII, NEWSTEAD. Ent. Monthly Mag. 28: 219.

[Actually discusses *Lecanopsis formicarum* Newst. according to marginal pencil note.]

DALMAN, J. W.

1826 OM NAGRA SVENSKA ARTER AF COCCUS; SAMT DE INUTI DEM FOREKOMMANDE PARASIT-INSECTER. Kongl. Vetensk.-Akad. Handl. f. 1825: 350-374, illus.

Coccus cryptogamus, *purpuratus*, *hordeolum*, *gibber*, *cypraeola*, *hemicryphus*, n. spp.

DARUTY DE GRANDPRÉ, A., see CHARMOY, D. D'EMMEREZ DE.

DAS, G. M., MUKHERJEE, T. D., and SEN GUPTA, N.

1948 BIOLOGY OF THE COMMON MEALYBUG, *FERRISIA VIRGATA* CKLL. (COCCIDAE), A PEST ON JUTE, *CORCHORUS OLITORIUS* L., IN BENGAL. Zool. Soc. Bengal Proc. 1: 109-114, illus.

DAVIS, G. C.

1894 MEALY BUGS AND THEIR ALLIES. *Insect Life* 7: 168-175.

Descriptive and biological information on 4 mealybugs and 1 *Eriococcus*; name *Dactylopius trifolii* [Davis not Forbes] proposed.

DEAN, G. A.

1909. COCCIDAE OF KANSAS. *Kans. Acad. Sci. Trans.* 22: 265-275.

A list of 67 coccids with bibliographical references and host and distribution data for State.

DEFIBAUGH, B. L.

1952. A NEW SCALE INSECT ON ARAUCARIA. *Hawaii. Ent. Soc. Proc.* 14: 348. *Octaspidiotus* n. sp. (det. Ferris) [= *O. araucariae* Fullaway and Adachi 1953].

1952a MEALYBUG NOMENCLATURE. *Hawaii. Ent. Soc. Proc.* 14: 358-359.

Report on Ferris' 1950 rearrangement of species of genus *Pseudococcus*.

DE GEER, C.

1776 HUITIÈME MEMOIRE. DES GALLINSECTES. *In* Memoires pour servir a l'histoire des insectes, v. 6, p. 433-452, illus.

Discusses 2 *Coccus* under trinomials [both = *Lecanium coryli*], a third [believed = *Phenacoccus aceris*], and *C. cacti coccinelliferi* [= *Protortonia cacti*].

1778 DIXIÈME MEMOIRE. SUPPLEMENT AUX MEMOIRES DES VOLUMES PRECEDENS, OU DESCRIPTION DE QUELQUES INSECTES AILES, SUIVIE DE CELLE DE PLUSIEURS INSECTES DU CAP-DE-BONNE ESPERANCE. *In* Memoires pour servis a l'histoire des insectes, v. 7, p. 591-605 (604-605), illus.

Coccus floccosus.

DE GREGORIO, A.

1915 CARATTERI E BIOLOGIA DEL CHRYSOMPHALUS DICTYOSPERMI MORG. AUCTORUM (AN POTIUS ASPIDIOTUS AGRUMINCOLA DE GREG?) E DEL SUO PARASSITA DISTRUTTORE APHELINUS CHRYSOMPHALI GAR. MERC. VAR. SILVESTRII DE GREG. CON CENNI DI DUE RAGNI SUBMICROSCOPICI (LICOSA). *Il Nat. Siciliano* 22 (1914): 125-190, illus.

Establishes *Chrysomphalus agruminicola*, first as a form of *dictyospermi* (p. 136), then as a species (p. 164); extended description.

DEL GUERCIO, G.

1894 COCCINIGLIE NUOVE, NOTE E POCO NOTE. *Il Nat. Siciliano* 13: 141-158, illus.

Description and biology of *Aspidiotus piricola*, *A. targionii* n. spp., and *Diaspis bromeliae*; name *Diaspis tillandsiae* used in one figure illustration; combination *Aspidiotus mespili* mentioned.

1894a LA COCCINIGLIA DEL PANDANUS UTILIS BORY (FIORINIA [=PINNASPIS] BUXI BOUCHÉ) CON UN CENNO SULLO STUDIO MONOGRAFICO DEL GEN FIORINIA TARG. TOZZ. *R. Soc. Toscana di Ort. Bul.* 19 (ser. 2, v. 9): 177-183, illus.

Description of *buxi*; key to 4 species placed in *Fiorinia*; proposes name *Fiorinia pandaniana* for coccid studied.

DEL GUERCIO, G.—Continued.

- 1895 A. BERLESE.—OSSERVAZIONI A DUE RECENTI STUDI SULLE COCCINIGLIE.—RIVISTA DI PATOLOGIA VEGETALE, ANNO III, 1894, ANNO IV, 1895. Soc. Ent. Ital. Bul. 27: 113-116.

Discusses criticisms by Berlese of two articles previously published by author.

- 1900 OSSERVAZIONI INTORNO AD UNA NUOVA COCCINIGLIA NOCIVA AGLI AGRUMI IN ITALIA ED AL MODO DI IMMUNIZZARE LA PARTE LEGNOSA DELLE PIANTE CONTRO LA PUNTURA DELLE COCCINIGLIE IN GENERALE E DI DISTRUGGERLE. Soc. Ent. Ital. Bul. [Firenze] 32: 229-252, illus. *Ceroplastes sinensis* described; several other coccids mentioned.

- 1903 CONTRIBUZIONE ALLO STUDIO DELLE PIÙ IMPORTANTI COCCINIGLIE DELL' OLIVO. R. Staz. di Ent. Agr. di Firenze Nuove Relaz. (ser. 1) 6: 23-55, illus.

Description or notes on 9 coccids, especially *Pollinia pollini*, *Philippia oleae*, *Saissetia oleae*.

- 1903a CONTRIBUZIONE ALLO STUDIO DEI DIASPINI DELL' OLIVO. Soc. Ent. Ital. Bul. 34 (trimes. 3, 1902): 179-188, illus. Also in R. Staz. di Ent. Agr. di Firenze Nuove Relaz. (ser. 1) 6: 106-115, illus.

Proposes name *Howardia lobulata*, and genus name *Rhopaloaspis* for *Leucaspis riccae*.

DEL GUERCIO, G., and MALENOTTI, E.

- 1915 RICERCHE ED ESPERIENZE NUOVE CONTRO LA BIANCA-ROSSA DEGLI AGRUMI IN SICILIA NEL 1914. Redia 11 (1916): 1-127, illus.

Description, biology, importance, control of *Chrysomphalus dictyospermi*.

DEL GUERCIO, G., and MEZZANA, N.

- 1903 LA SERIE MASCHILE DELLE FORME NELLA NUOVA COCCINIGLIA CERIFERA DEGLI AGRUMI (*CEROPLASTES SINENSIS* DEL GUERCIO). R. Staz. di Ent. Agr. di Firenze Nuove Relaz. (ser. 1) 6: 96-105, illus.

DE LOTTO, G.

- 1954 THREE APPARENTLY NEW MEALY BUGS FROM KENYA. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 23 (5-6): 110-114, illus.

Planococcus rotundatus, *P. subukiaensis*, *Spilococcus perforatus*.

- 1954a THREE APPARENTLY NEW COCCIDS (HOMOPT.: COCCOIDEA) FROM ERITREA. Ent. Soc. Southern Africa Jour. 17: 213-218, illus.

Pulvinaria crotonis, *Eriococcus etbaicus*, *E. juniperinus*.

- 1955 THREE NEW COCCIDS (HEMIPT.: COCCOIDEA) ATTACKING COFFEE IN EAST AFRICA. Bul. Ent. Res. 46: 267-273, illus.

Ceroplastes luteolus, *Lecaniodiuspis erratica*, *Pseudococcus latipes*.

DÉPLANCHE, E.

- 1859 ANALYSIS OF A MEMOIR ON A DISEASE OF COFFEE BY M. E. DÉPLANCHE, PRESENTED BY M. EUDES-DESLONGCHAMPS. Soc. Linn. de Normandie, Bul. 4: 203-207.

First available description of *Saissetia coffeae* Deplanche n. gen. and sp.

DICKEL, O.

- 1905 BISHERIGE VERÄNDERUNGEN DER FAUNA MITTELEUROPA DURCH EINWANDERUNG UND VERBREITUNG SCHÄDLICHER INSEKTEN. Ztschr. f. Wiss. Insektenbiol. 1: 445-451 (445-449).

Very brief discussions of 34 potential or actual coccid introductions into Germany.

DICKISON, W.

- 1932 THE GRAPE MEALYBUG (*PSEUDOCOCCUS MARITIMUS* EHRHORN). ORDER: HOMOPTERA. FAMILY: COCCIDAE. Quebec Soc. Protect. Plants Ann. Rpts. 23-24 (1930-32): 97-104.

Life history; 4 other Canadian mealybugs reported, with key for separation of all 5 species.

DICKSON, R. C.

1951 CONSTRUCTION OF THE SCALE COVERING OF AONIDIELLA AURANTII (MASK.) Ent. Soc. Amer. Ann. 44: 596-602.

DIETZ, H. F., and MORRISON, H.

1916 PHENACASPIS SPINICOLA N. SP.; AN APPARENTLY NEW COCCID FROM INDIANA (HEM., HOM.). Ent. News 27: 101-102, illus.

1916a THE COCCIDAE OR SCALE INSECTS OF INDIANA. Ind. State Ent. Ann. Rpt. 8 (1914-1915): 195-321, illus.
Describes, keys, and figures 62 species.

DIGUET, L.

1909 HISTOIRE DE LA COCHENILLE AU MEXIQUE. Soc. des Américanistes de Paris Jour. (n.s.) 6: 75-99, illus. Summary in Soc. Natl. d'Acclim. de France, Bul. 58: 330-334, 1911.

Includes discussion of wild and domestic cochineals and review of current production.

DINGLER, M.

1923 BEITRÄGE ZUR KENNTNIS VON LECANIUM HESPERIDUM L., BESONDERS SEINER BIOLOGIE. Ztschr. f. Angew. Ent. 9: 191-246, illus.
Detailed description and report on biology.

1924 BIOLOGISCHE NOTIZEN ÜBER VERSCHIEDENE COCCIDEN. Ztschr. f. Angew. Ent. 10: 364-386, illus.
Descriptive, life-history, and collection notes on 27 coccids.

1924a EINE NEUE COCCIDE AN DER FICHTE. Ztschr. f. Angew. Ent. 10: 387-389, illus.
Pseudococcus tirolensis.

1924b UBER EINEN EIGENARTIGEN FALL VON VERGESELLSCHAFTUNG BEI COCCIDEN. Ztsch. f. Angew. Ent. 10: 468-469.
Describes intimate association of *Lecanium hesperidum*, *Pseudococcus citri*, and a parasite.

1930 BEITRÄGE ZUR BIOLOGIE VON ICERYA PURCHASI MASK. (COCCIDAE, MONOPHLEBINAE). Biol. Zentbl. 50: 32-49, illus.

VAN DINTHER, J. B. M.

1950 MORPHOLOGIE EN BIOLOGIE VAN DE SCHILDLUIS CHIONASPIS SALICIS. L. Tijdschr. over Plantenziekten 56: 173-252, illus.
General review of external morphology, distribution, food plants, relationships, biology, economic importance, enemies.

DISSELKAMP, C.

1954 DIE SCHILDBILDUNG DER SAN JOSÉ-SCHILDLAUS (QUADRASPIDIOTUS PERNICIOSUS COMST. 1881). Höfchen-Briefe (Bayer Pflanzenschutz-Nachrichten) 7: 109-155, illus. English version, *ibid.* 7: 105-151.
Detailed study of the secretions forming the scale, of the organs forming the secretions, and of the physiology of the coccid under certain controlled conditions.

DOANE, R. W., and FERRIS, G. F.

1916 NOTES ON SAMOAN COCCIDAE WITH DESCRIPTIONS OF THREE NEW SPECIES. Bul. Ent. Res. 6: 399-402, illus.
Chionaspis samoana, *Aspidiotus pangoensis*, *Lepidosaphes moorsi* n. spp.

DOANE, R. W., and HADDEN, E.

1909 COCCIDAE FROM THE SOCIETY ISLANDS. Canad. Ent. 41: 296-300, illus.
Lists 19 coccids, including *Aspidiotus herculeanus*, *Parlatoria cinerea*, n. spp.

DOANE, R. W., and STEINWEDEN, J. B.

1927 A NEW RIPERSIA (HOMOP.) ATTACKING WHEAT. Pan-Pacific Ent. 4: 85-86, illus.
R. arenaria.

DODDS, C. T.

- 1923 A NEW SALT MARSH MEALY BUG (*ERIOCOCCUS PALUSTRIS* N. SP.) Jour. Ent. and Zool. 15: 57-60, illus.

DOTEN, S. B.

- 1908 THE EUROPEAN ELM SCALE (*GOSSYPARIA SPURIA*, MODEER). Nev. Agr. Expt. Sta. Bul. 65, 34 p., illus.
Life history, including much descriptive information, and control.
- 1912 THE EUROPEAN ELM SCALE. (*GOSSYPARIA SPURIA*, MODEER.) Calif. State Comn. Hort., Monthly Bul. 1: 89-100, illus.
Life history, injury, control.

DOUGLAS, J. W.

- 1881 ON THE SPECIES OF THE GENUS *ORTHEZIA*. Ent. Monthly Mag. 17: 172-176, 203-205.
Discusses two species, with indications of synonymy, some apparently incorrect.
- 1881a XVII. OBSERVATIONS ON THE SPECIES OF THE HOMOPTEROUS GENUS *ORTHEZIA*, WITH A DESCRIPTION OF A NEW SPECIES. London Ent. Soc. Trans. 1881 (Pt. 3): 297-303, illus.
O. normani.
- 1881b XXIX. ON THE IDENTITY OF *COCCUS FLOCCOSUS*, DE GEER, AND *ORTHEZIA NORMANI* DOUGLAS. London. Ent. Soc. Trans. 1881 (Pt. 3): 447-448.
- 1884 IV. ON A NEW SPECIES OF THE GENUS *ORTHEZIA*. London Ent. Soc. Trans. 1884 (Pt. 1): 81-86, illus.
O. maenariensis.
- 1884a *LECANIUM AESCULI*. Ent. Monthly Mag. 21: 38. Descriptive note on male.
- 1885 NOTE ON *LECANIUM PRUNASTRI*? Ent. Monthly Mag. 22: 14-15.
Discusses biology and basis for recognition.
- 1885a NOTE ON SOME BRITISH COCCIDAE. [NO. 1]. Ent. Monthly Mag. 22: 157-160.
Rearing males of *Lecanium*; list of 18 lecanine coccids known from Britain; other notes.
- 1886 NOTES ON SOME BRITISH COCCIDAE (NO. 2). Ent. Monthly Mag. 22: 243-250.
Discusses characters of 21 coccid genera associated in 3 groups; host associations of coccids and recent collections.
- 1886a NOTE ON SOME BRITISH COCCIDAE (NO. 3). Ent. Monthly Mag. 23: 25-29.
Discusses several supposed species of *Lecanium* and *Mytilaspis*; presents *Lecanium cerasi*, "Goethe, sp. n.", *L. variegatum* "Goethe sp. n.", and *Mytilaspis vitis* "Goethe sp. n."
- 1886b NOTE ON SOME BRITISH COCCIDAE (NO. 4). Ent. Monthly Mag. 23: 77-82.
Lecanium alienum n. sp.; 8 other *Lecanium* coccids and *Pulvinaria camellicola* discussed.
- 1886c NOTES ON SOME BRITISH COCCIDAE (NO. 5). Ent. Monthly Mag. 23: 150-155.
Descriptive notes and discussion on 5 coccids.
- 1887 NOTE ON SOME BRITISH COCCIDAE (NO. 6). Ent. Monthly Mag. 23: 239-243.
Parlatoria proteus crotonis n. var.; recognition of *Aspidiotus ostreaeformis* and synonymy of *Mytilaspis* discussed.
- 1887a NOTE ON SOME BRITISH COCCIDAE (NO. 7). Ent. Monthly Mag. 24: 21-28, illus.
Ischnaspis filiformis n. gen. and sp.; notes on 9 other coccids.

DOUGLAS, J. W.—Continued.

- 1887b NOTES ON SOME BRITISH COCCIDAE (NO. 8). Ent. Monthly Mag. 24: 95-101; 165-171. (The last 3 pages (169-171), which include a description of *Orthezia insignis* n. sp., are dated January 1888.)
Lecanium beaumontiae, *L. longulum*, *Orthezia insignis*, n. spp.; description and discussion of 5 other lecanine coccids.
- 1888 NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 9). Ent. Monthly Mag. 25: 57-60.
Lecanium clypeatum n. sp.; description and discussion of *L. lauri* and *L. bituberculatum*.
- 1888a NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 10). Ent. Monthly Mag. 25: 86-89, illus.
Ortonia natalensis, *Pseudococcus ulicis*, n. spp.
- 1888b NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 11). Ent. Monthly Mag. 25: 124-125, illus.
Pseudococcus ulmi n. sp.
- 1888c NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 12). Ent. Monthly Mag. 25: 150-153.
Coccus agavium n. sp.; *Vinsonia stellifera* discussed.
- 1889 NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 13). Ent. Monthly Mag. 25: 232-235, illus.
Icerya purchasi and *Ortonia natalensis* discussed.
- 1889a [NOTES ON LECANIUM VIRIDE AND OTHER SPECIES OF LECANIUM.] Ent. Monthly Mag. 25: 250-251.
- 1889b NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 14). Ent. Monthly Mag. 25: 314-317, illus.
Dactylopius theobromae n. sp.; *D. adonidum* redescribed and discussed.
- 1890 NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 15). Ent. Monthly Mag. 26: 79-81, illus.
Crossotosoma aegyptiacum n. gen. and sp.
- 1890a NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 16). Ent. Monthly Mag. 26: 153-155, illus.
Pseudococcus quercus n. sp.; *Cryptococcus* n. gen. for *Coccus fagi*; *Pseudococcus aceris* discussed.
- 1890b NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 17). Ent. Monthly Mag. 26: 238-240, illus.
Pulvinaria ribesiae discussed.
- 1890c NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 18). Ent. Monthly Mag. 26: 318-319, illus.
Lecanium robiniarum n. sp.; *L. fuscum* discussed.
- 1891 NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 19). Ent. Monthly Mag. 27: 65-68, illus.
Lecanium sarothamni, *L. ciliatum*, n. spp.
- 1891a NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 20). Ent. Monthly Mag. 27: 95-100, illus.
Lecanium distinguendum n. sp.; *L. nigrum* and *Pulvinaria betulae* discussed.
- 1891b NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 21). Ent. Monthly Mag. 27: 244-247.
Orthezia occidentalis, *O. praelonga* n. spp. described; *Lecanium lauri* compared with *L. hesperidum*.
- 1891c LECANIUM OLEAE, BERNH. Ent. Monthly Mag. 27: 307-308.
Considers that *L. testudo* = *L. oleae*.
- 1892 NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 22). Ent. Monthly Mag. 28: 105-107, illus.
Lecanium rubi redescribed and discussed.

DOUGLAS, J. W.—Continued.

- 1892a NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 23). Ent. Monthly Mag. 28: 207-209, illus.
Prosopophora n. gen., *P. dendrobii*, *Lecanium begoniae*, n. spp.
- 1892b NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 24). Ent. Monthly Mag. 28: 278-280, illus.
Lecanium capreae redescribed and discussed.
- 1893 NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 25). Ent. Monthly Mag. 29: 55-57, illus.
Pollinia thesii n. sp.
- 1893a NOTES ON SOME BRITISH AND EXOTIC COCCIDAE (NO. 26). Ent. Monthly Mag. 29: 130-131, illus.
Chionaspis sorbi n. sp.
- 1894 COCCUS RUBI OF SCHRANK. Ent. Monthly Mag. 30: 17.
Considers this coccid misidentified by Lichtenstein.

DOUGLASS, B. W.

- 1912 SCALE INSECTS OF INDIANA. Ind. State Ent. Ann. Rpt. 4 (1910-1911): 145-226, illus.
An annotated list of 41 coccids collected in the State, with photographic illustrations of each.

DOUTT, R. L.

- 1949 THE SPERMATOZOON AS A DIAGNOSTIC TOOL IN MEALYBUG TAXONOMY. Jour. Econ Ent. 42: 835.
Describes condition of spermatozoa in *Pseudococcus citri*, *maritimus*, *sequoiae*.
- 1952 A COMPARATIVE STUDY OF SPERMATOZOA IN RELATION TO THE CLASSIFICATION OF MEALYBUGS. Hawaii. Ent. Soc. Proc. 14: 391-397, illus.
Describes spermatozoa for several mealybugs; concludes they have classification significance.

DOZIER, H. L.

- 1925 AN OUTBREAK OF THE RED-STRIPED SUGAR-CANE SCALE. Porto Rico Dept. Agr. Jour. 9: 357-367, illus.
Report on *Pulvinaria iceryi* in Puerto Rico.
- 1931 A NEW GIANT WAX SCALE FROM HAITI. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 495: 1-2, illus.
Ceroplastes giganteus.

DRAPER, W.

- 1907 NOTES ON THE INJURIOUS SCALE INSECTS AND MEALY BUGS OF EGYPT; TOGETHER WITH OTHER INSECT PESTS AND FUNGI. Cairo, National Printing Dept., 28 p. (1-16). (Corrections by Newstead in Liverpool Univ., Inst. Com. Res. in Tropics Quart. Jour. 3 (6): 14, 1908).
Descriptive and ecological notes on 26 coccids; includes Newstead descriptions of *Aonidia glandulosa* and *Sphaerococcus draperi* n. spp. and Newstead list of 27 additional African coccids, of which 4 are nomina nuda.

DUCASSE, G.

- 1938 QUELQUES OBSERVATIONS SUR UNE COCHENILLE MATSUCOCCUS MATSUMURAE KUWANA. Rev. de Zool. Agr. et Appl. 37: 129-133.
[Actually *M. feytaudi*]; several other coccids mentioned.
- 1941 NOTES SUR MATSUCOCCUS FEYTAUDI, SP. [N.] [HOMOPT. COCCID.] Rev. Franç. d'Ent. 8: 217-225, illus.
Detailed description; life history of new species.

DUFOUR, L.

- 1824 DESCRIPTION D'UNE NOUVELLE ESPÈCE DE COCCUS Ann. des Sci. Nat. 2: 203-204.
C. zeaе maidis.

DUFOUR, L.—Continued.

- 1833 RECHERCHES ANATOMIQUES ET PHYSIOLOGIQUES SUR LES HÉMIPTERES. Inst. de France, Acad. des Sci. Mem., Savans Etrang. (ser. 2) 4: 129-461 (236-241, 245-246, 355-359, 417), illus. Also issued as repaged separate. Paris, 1833, 332 p.

Some description of anatomy of *Dorthesia characias*; note on *Coccusalni* L.

- 1864 NOTICE SUR UNE NOUVELLE ESPÈCE DE GALLINSECTE (ASPIDIOTUS? LUZULAE). Soc. Ent. France Ann. (ser. 4) 4: 207-209, illus.
[= *Luzulaspis luzulae*.]

DUGÈS, A.

- 1884 INFORME ACERCA DEL AXE. La Naturaleza 6 (1882-1884): 283-284, 293, illus.

Descriptive information on *Coccus axin*.

- 1884a [REPORTS ON STUDY OF THE AXE OR NI-IN IN YUCATAN.] Trab. de la Sec. de Fomento de la Repub. Mex. sobre el Axe, p. 62-63, 79-83, illus. (The information on p. 79-83 is also in La Naturaleza 6: 378-380, illus.)

A description of *Llaveia axin*.

- 1888 LA LLAVEIA DORSALIS, NOBIS. Naturaleza (ser. 2) 1: 160-161, illus. (col.).

Llaveia axin dorsalis.

DUJARDIN, F.

- 1852 MÉMOIRE SUR LES DORTHESIA ET SUR LES COCCUS EN GÉNÉRAL COMME DEVANT FORMER UN ORDRE PARTICULIER DANS LA CLASSE DES INSECTES. [Paris] Acad. des Sci. Compt. Rend. 34: 510-516.

Argument for establishment of coccids as a separate group; several genera or species mentioned in discussion.

DÜRR, H. J. R.

- 1954 THE MALE OF LECANIUM PUMILUM BRAIN. Ent. Soc. Southern Africa Jour. 17: 90-92, illus.

Detailed description of adult.

DUSKOVÁ, F.

- 1952 VERGLEICH DER MORPHOLOGISCHEN HAUPTMERKMALE DER SCHILDLÄUSE QUADRASPIDIOTUS PIRI (LICHTENSTEIN) UND QUADRASPIDIOTUS MARANI ZAHRADNIK (COCCOIDEA: DIASPIDIDAE). Beitr. z. Ent. 2: 452-455, illus.

- 1953 MORFOLOGIE QUADRASPIDIOTUS PIRI (LICHTENSTEIN) (HOMOPTERA, COCCOIDEA). (In Czech.) Českoslov. Společ. Zool. Věst. . . . Acta 17: 8-36, illus.

German summary, Synonymy, description of all stages, Czech distribution, biology.

- 1953a DIE MORPHOLOGISCHEN MERKMALE UND ÖKOLOGISCHE BEMERKUNGEN ZU DEN WEIBCHEN DER SCHILDLÄUSE QUADRASPIDIOTUS PIRI (LICHT.), Q. MARANI ZHR., Q. OSTREAEFORMIS CURT., UND Q. PERNICIOSUS (COMST.) (HOMOPTERA, COCCOIDEA). (In Czech.) Českoslov. Společ. Zool. Věst. . . . Acta 17: 229-250, illus.

German summary.

EBELING, W.

- 1938 HOST-DETERMINED MORPHOLOGICAL VARIATIONS IN LECANIUM CORNI. Hilgardia 11: 613-631, illus.

Structural modifications due to growth on different hosts described and discussed.

EHRENBERG, C. G.

- 1829 COCCUS MANNIPARUS H. ET E. In Klug and Ehrenberg, Symbolae Physicae, seu icones et descriptiones insectorum, Berlin, Mittler, v. 1: 2 pages (unnumbered), illus. (pl. X) (col.)

Brief history, description; [currently *Trabutina mannipera*].

EHRHORN, E. M.

- 1898 NEW COCCIDAE. *Canad. Ent.* 30: 244-246.
Eriococcus adenostomae, *Lecanium pubescens*, *L. ventrale*, *L. crawii*;
supplemental note by T. D. A. Cockerell.
- 1898a NEW COCCIDAE FROM CALIFORNIA. *Ent. News* 9: 185-186.
Kermes cockerelli, *K. nigropunctatus* Ehrhorn and Cockerell, *Pulvinaria rhois*.
- 1899 FIVE NEW COCCIDAE. *Canad. Ent.* 31: 5-7.
Ripersia arizonensis, *R. villosa*, *Kermes ceriferus*, *Dactylopius formicarii*, *Kermes pettiti*.
- 1899a THREE NEW COCCIDAE. *Canad. Ent.* 31: 103-104.
Nidularia (?) *californica*, *Dactylopius eriogoni*, *Kermes austini*.
- 1900 NEW COCCIDAE FROM CALIFORNIA. *Canad. Ent.* 32: 311-318, illus.
Xylococcus quercus, *Phenacoccus artemisiae*, *P. stachyos*, *P. bahiae*,
Dactylopius quercus, *D. maritimus*.
- 1902 A NEW COCCID FROM CALIFORNIA AT A VERY HIGH ALTITUDE. *Canad. Ent.*
34: 193-194.
Exaeretopus caricis.
- 1906 A FEW NEW COCCIDAE WITH NOTES. *Canad. Ent.* 38: 329-335.
Describes 9 new species.
- 1911 NEW COCCIDAE WITH NOTES ON OTHER SPECIES. *Canad. Ent.* 43: 275-280,
illus.
Kermes shastensis, *Eriococcus eriogoni*, *E. salinus*, *Sphaerococcus cupressi*,
Ceroputo koebelei, *Trionymus californicus*; notes on 3 other species.
- 1912 A FEW NOTES ON COCCIDAE. *Hawaii. Ent. Soc. Proc.* 2: 147-150, illus.
Cissococcus? *oahuensis* n. sp.
- 1916 CONTRIBUTIONS TO THE KNOWLEDGE OF THE DACTYLOPIINAE OF HAWAII.
Hawaii. Ent. Soc. Proc. 3: 231-247.
Describes 2 new genera and 9 new species in the 12 genera and 26
species considered; keys.

EHRlich, J.

- 1932 THE OCCURRENCE IN THE UNITED STATES OF CRYPTOCOCCUS FAGI (BAER.)
Dougl., the insect factor in a menacing disease of beech. *Arnold Arboretum Jour.* 13: 75-80.
- 1934 THE BEECH BARK DISEASE. A NECTRIA DISEASE OF FAGUS, FOLLOWING
CRYPTOCOCCUS FAGI (BAER). *Canad. Jour. Res.* 10 (Spec. No.): 593-
692, illus.
Includes detailed description, discussion of synonymy, and present
occurrence of *C. fagi*.

ELLIOTT, E. A.

- 1933 THE HEMIPTERA OF SUFFOLK. FIRST SUPPLEMENT. *Suffolk Nat. Soc.*
Trans. 2: 134-156 (141-142).
Lists 36 British outdoor coccids, with 8 from Suffolk.

ELLIS, D. E., see McKenzie, H. L., Gill, L. S., and Ellis, D. E.

EMBLETON, A. A.

- 1904 ON THE ANATOMY AND DEVELOPMENT OF COMYS INFELIX, EMBLETON, A
HYMENOPTEROUS PARASITE OF LECANIUM HEMISPHERICUM. *Linn.*
Soc. London, Trans., Zool. (ser. 2) 9: 231-254 (233-237).
Erroneous note concerning preoccupation of *Saissetia* in Mollusca in
1900.

EMEIS, W.

- 1915 ÜBER ENTWICKLUNG BEI DEN COCCIDEN. *Zool. Jahrb. Abt. f. Anat. u.*
Ontog. Tiere 39: 27-78, illus.
Extended discussion based on 4 coccid species.

ESAKI, T.

1939 INJURIOUS INSECTS TO COCONUT PALM IN THE MANDATED SOUTH SEA ISLANDS OF JAPAN. I. FURCASPIS OCEANICUS LINDINGER. (In Japanese.) Oyo-Kontyu 2: 1-13, illus.

A detailed report on this coccid in Micronesia.

1940 A PRELIMINARY REPORT ON THE ENTOMOLOGICAL SURVEY OF THE MICRONESIAN ISLANDS UNDER THE JAPANESE MANDATE, WITH SPECIAL REFERENCE TO THE INSECTS OF ECONOMIC IMPORTANCE. Pacific Sci. Cong. 6, Proc. 4: 407-415 (408-414).

Discusses 35 economic coccids.

See also Kuwana, I., 1930.

ESAKI, T., and others.

1954 ICONOGRAPHIA INSECTORUM JAPONICORUM, ED. 2 (ED. 1, 1932). Tokyo, Hokuryukan, 1736 (356-384), 203 p., illus.

Illustrations and brief descriptions in Japanese for 85 Japanese coccids.

ESSIG, E. O.

1909 NOTES ON CALIFORNIA COCCIDAE II. Pomona Col. Jour. Ent. 1: 31-34, illus.

Descriptive notes on *Coccus longulus*, *Erium lichtensiodes*, and *Parlatoria pergandii*.

1909a THE GENUS PSEUDOCOCCUS IN CALIFORNIA. Pomona Col. Jour. Ent. 1: 35-46, illus.

P. artemisiae, *P. agrifoliae*, *P. obscurus*, *P. ramonae*, n. spp.; key to 17 species.

1909b NOTES ON CALIFORNIA COCCIDAE. Pomona Col. Jour. Ent. 1: 92-97, illus.

Descriptive notes on *Ceroplastes ceriferus* (from Mexico), *Chionaspis quercus*, *Ceroputo yuccae*.

1910 THE GENUS PSEUDOCOCCUS IN CALIFORNIA. Pomona Col. Jour. Ent. 2: 147-148, illus.

Descriptive notes on *Pseudococcus agrifoliae* and *P. ryani*.

1910a NOTES ON CALIFORNIA COCCIDAE V. Pomona Col. Jour. Ent. 2: 209-222, illus.

Ripersia smithii n. sp., and 8 other coccids redescribed.

1910b THE CITRUS MEALY BUG (PSEUDOCOCCUS CITRI) RISSO. Pomona Col. Jour. Ent. 2: 289-320, illus.

Situation in Southern California, life history, description, host list, list of enemies.

1910c A NEW MEALY BUG INFESTING WALNUT, APPLE, AND PEAR TREES. PSEUDOCOCCUS BAKERI, N. SP. Pomona Col. Jour. Ent. 2: 339-345, illus.

Description, hosts, remedies.

1913 THE YERBA SANTA MEALY BUG (PSEUDOCOCCUS YERBASANTAE N. SP.) Jour. Ent. and Zool. 5: 85-87, illus.

1913a A NEW ERIOCOCCUS. Jour. Ent. and Zool. 5: 179-181, illus.

E. Cockerelli.

1914 THE MEALY BUGS OF CALIFORNIA. Calif. State Comn. Hort. Monthly Bul. 3: 97-143, illus.

Descriptive notes, food plants, and economic importance for 22 pseudococcids.

1914a THE SECOND PROTODIASPIS. Jour. Ent. and Zool. 6: 76-80, illus.

P. agrifolia n. sp.

1915 THE ONTARIO MEALY BUG. (PSEUDOCOCCUS SP.) Calif. State Comn. Hort. Monthly Bul. 4: 343-344, illus.

[*Pseudococcus gahani*]; descriptive notes, no name.

ESSIG, E. D.—Continued.

- 1915a INJURIOUS AND BENEFICIAL INSECTS OF CALIFORNIA. ED. 2. Sup. to Calif. State Comn. Hort. Monthly Bul. v. 4, n. 4. Calif. State Printing Office, 541 p., illus. (26, 59, 107-193, 219, 222-230, 324, 348-349, 361-362, 370-380, 471, 491-492, 502-505).
Discusses 80 coccids, giving food plants and descriptive information.
- 1916 THE SOFT BAMBOO SCALE. (ASTEROLECANIUM BAMBUSAE BOISDUVAL). Calif. State Comn. Hort. Monthly Bul. 5: 72-73, illus.
First report from California.
- 1916a TWO NEWLY ESTABLISHED SCALE INSECTS. ORDER—HEMIPTERA. FAMILY—COCCIDAE. Calif. State Comn. Hort. Monthly Bul. 5: 192-197, illus. *Pulvinaria floccifera*, *Chrysomphalus dictyspermi*.
- 1920 THE GRAPE SCALE IN CALIFORNIA. Calif. Dept. Agr. Monthly Bul. 9: 37-39, illus.
First published record of grape scale [*Aspidiotus uvae*] in California; mentions 15 other scales.
- 1929 INSECTS OF WESTERN NORTH AMERICA. Rev. ed., New York, Macmillan. 1035 p. (269-322, and other pages).
Notes, usually brief, on 142 coccids.
- 1948 MOUNTING APHIDS AND OTHER SMALL INSECTS ON MICROSCOPIC SLIDES. Pan-Pacific Ent. 24: 9-22, illus.
See also Baker, C. F., and Essig, E. O.

ESSIG, E. O., and BAKER, C. F.

- 1909 HOST INDEX TO CALIFORNIAN COCCIDAE. Pomona Col. Jour. Ent. 1: 53-70.

FABRICIUS, J. C.

- 1775 SYSTEMA ENTOMOLOGIAE . . . Flensburgi et Lipsiae, Korte. 8, 30, 832 p. (742-745).
Lists 15 coccids; *Coccus serratulae* described.
- 1776 GENERA INSECTORUM. Chilonii, Bartsch. 14, 310 p. (303-304).
Lists or describes 6 coccids, including *Chermes persicae* and *Coccus zosteriae*.
- 1781 SPECIES INSECTORUM v. 2, 494 p. (393-396). Hamburgi et Kilonii, Bohn.
Lists 21 coccids with citations and habitat data.
- 1787 COCCUS. *In* Mantissa Insectorum v. 2, p. 318-319.
Lists 24 coccids; describes *C. ficus*.
- 1794 ENTOMOLOGIA SYSTEMATICA EMENDATA ET AUCTA, v. 4, 472 p. (224-228). Hafniae, Proft.
Lists 27 *Coccus*, including *C. aceris*, *C. dubius*.
- 1798 ENTOMOLOGIAE SYSTEMATICAE. SUPPLEMENTUM. Hafniae, Proft et Storch, 572 p. (546).
Coccus persicae, *C. ceriferus* redescribed.
- 1805 SYSTEMA ANTLIATORUM . . . Brunsvigae, Reichard. 14, 372 p. (46).
Chironomus dubius [a male coccid] described.

FARQUHAR, H.

- 1900 THE NEW ZEALAND ZOOLOGICAL REGION. Nature [London] 61: 246-248 (247).
Discusses zoogeographic significance of the 104 coccids reported by Maskell from New Zealand.

FAUCHERON, L., *see* CONTE, A., and FAUCHERON, L.

FAUVEL, A.

- 1865 [NOTE STATING THAT SAISSETIA COFFEAЕ DEPLANCHE IS IDENTICAL WITH LECANIUM COFFEAЕ.] Soc. Linn. de Normandie Bul. 9: 127.

FEIJAO, M. S. P.

- 1950 BREVE ESTUDO MORFOLÓGICO DO PSEUDOCOCCUS CITRI RISSO. Agron. Angolana No. 4: 159-166, illus.
English summary. An extended description (in Portuguese).

FELT, E. P.

- 1901 SCALE INSECTS OF IMPORTANCE AND LIST OF SPECIES IN NEW YORK STATE. N. Y. State Mus. Bul. No. 46 (v. 9): 289-377, illus. (col.).
Detailed treatment of 9 common diaspine coccids; list, with collection data, of 78 New York coccids.
- 1915 NEW ASIAN GALL MIDGES N. Y. Ent. Soc. Jour. 23: 173-184.
Various coccids given as midge hosts; *Pseudococcus vapor* [nom nudum] presented as one of these.

FELT, E. P., and MORRISON, H.

- 1928 COCCIDAE. In Leonard, M. D., A list of the insects of New York with a list of the spiders and certain other allied groups. Cornell Univ. Agr. Expt. Sta. Mem. 101, p. 193-202.
A list of 126 names with New York State localities and hosts for each coccid.

FERNALD, MRS. C. H., see FERNALD, M. E.

FERNALD, M. E.

- 1902 ON THE GENUS LECANIUM. Canad. Ent. 34: 177-178.
Authorship established; notes on Costa's papers.
- 1902a ON THE TYPE OF THE GENUS COCCUS 1. Canad. Ent. 34: 232-233.
Adopts *hesperidum* Linn. as genotype.
- 1903 NOTES ON THE COCCIDAE. Canad. Ent. 35: 22.
Discussion of names proposed by O. Costa.
- 1903a LEPIDOSAPHEVS VERSUS MYTILASPIS. Canad. Ent. 35: 90.
- 1903b A CATALOGUE OF THE COCCIDAE OF THE WORLD. Mass. Agr. Expt. Sta. Spec. Bul. 88, 360 p.
A very complete systematic catalog disposing of 256 generic or sub-generic and 1993 specific or lower-category coccid names.
- 1906 THE TYPE OF THE GENUS COCCUS. Canad. Ent. 38: 125-126.
C. hesperidum considered to be type.

See also COCKERELL, T.D.A., 1903g.

FERRIS, G. F.

- 1917 METHODS FOR THE STUDY OF MEALY-BUGS. Jour. Econ. Ent. 10: 321-324.
Description of mounting technique.
- 1917a A NEW GENUS AND SPECIES OF COCCIDAE. Canad. Ent. 49: 375-378, illus.
Stomacoccus platani.
- 1918 A NOTE ON THE OCCURRENCE OF ABDOMINAL SPIRACLES IN THE COCCIDAE (HEMIPTERA). Canad. Ent. 50: 85-88.
Discusses occurrence as reported in literature, and adds own observations on various species.
- 1918a NOTES ON COCCIDAE (HEMIPTERA). Canad. Ent. 50: 221-225, illus.
Redescribes *Cryptokermes brasiliensis*.
- 1918b NOTES ON COCCIDAE II. (HEMIPTERA). Canad. Ent. 50: 323-332, illus.
Ehrhornia, *Paludicoccus*, *Callococcus*, *Mycetococcus* n. gen.; *Ehrhornia graminis* n. sp.
- 1918c THE ALLEGED OCCURRENCE OF A SEASONAL DIMORPHISM IN THE FEMALES OF CERTAIN SPECIES OF MEALY BUGS (HEMIPTERA; COCCIDAE). Ent. News 29: 349-352.
Questions validity of various claims.
- 1918d THE CALIFORNIA SPECIES OF MEALY BUGS. Stanford Univ. Pubs., Univ. Ser. 78 p., illus.
Comparative study of available characters; keys and descriptions for 9 genera, 1 new, and 43 species, 4 new.

FERRIS, G. F.—Continued.

- 1919 A REMARKABLE CASE OF LONGEVITY IN INSECTS. (HEM., HOM.) Ent. News 30: 27-28.
Reports evidence of vitality in specimens from tests of *Margarodes vitium* Giard. stored for 17 years.
- 1919a A CONTRIBUTION TO THE KNOWLEDGE OF THE COCCIDAE OF SOUTHWESTERN UNITED STATES. Stanford Univ. Pubs., Univ. Ser. 68 p., illus.
Descriptions, redescrptions, or notes on 61 coccids in 33 genera.
- 1919b NOTES ON COCCIDAE—III (HEMIPTERA). Canad. Ent. 51: 108-113, illus. *Stigmacoccus*, *S. asper*, *Xylococcus*, *X. betulae*, *Kuwanina*, *K. quercus*, *Cissococcus*, *C. fulleri*, all recharacterized.
- 1919c OBSERVATIONS ON SOME MEALY-BUGS (HEMIPTERA; COCCIDAE). Jour. Econ. Ent. 12: 292-299, illus.
Mentions 19 coccids, redescribes 3; synonymy presented for several.
- 1919d NOTES ON COCCIDAE—IV. (HEMIPTERA). Canad. Ent. 51: 249-253, illus. *Eremococcus* n. gen.; redefines genus *Sphaerococcus*; discusses and redescribes *S. casuarinae*, *Amorphococcus leptospermi*, *Kuwanina obscurata*.
- 1919e A NEW SPECIES OF PSEUDODIASPIS (HEMIPTERA: COCCIDAE). Ent. News 30: 275-276, illus.
P. multipora.
- 1920 NOTES ON COCCIDAE—V. (HEMIPTERA). Canad. Ent. 52: 29-32, illus.
Discusses *Protodiaspis*; *P. parvula*, *P. agrifoliae*, *P. lobata*, *P. pulchra*, n. spp.; *Ancepaspis* n. gen.
- 1920a NOTES ON COCCIDAE—VI (HEMIPTERA). Canad. Ent. 52: 61-65, illus.
Redescribes *Porococcus* and *P. tinctorius*; comment on *Cissococcus*, *Howardia*, *Anoplaspis*; synonymy of 4 coccids.
- 1920b SCALE INSECTS OF THE SANTA CRUZ PENINSULA. Stanford Univ. Pubs., Univ. Ser., Biol. Sci. 1: 1-57, illus.
An annotated list of about 88 coccids in 32 genera; many descriptive notes; descriptions of 5 new species included.
- 1921 REPORT UPON A COLLECTION OF COCCIDAE FROM LOWER CALIFORNIA. Stanford Univ. Pubs., Univ. Ser., Biol. Sci. 1: 61-132, illus.
Notes or descriptions for 84 coccids in 34 genera; 2 new genera, 29 new species described.
- 1921a SOME COCCIDAE FROM EASTERN ASIA. Bul. Ent. Res. 12: 211-220, illus. *Pinnaspis simplex* and *Lepidosaphes tubulorum* n. spp., *Pygalataspis miscanthi* n. gen. and sp.; collection notes on 36 other coccids.
- 1922 NOTES ON COCCIDAE—IX. (HEMIPTERA). Canad. Ent. 54: 156-161, illus. *Takahashia*, *T. japonica*, *T. jaliscensis*, *Pseudophillippia*, *P. quaintancii* redescribed, *Cryptostigma ingae* n. gen. and sp.
- 1922a TWO NEW COCCIDAE FROM CYRENAICA. Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 16: 207-210, illus.
Pseudococcus citrioides and *Phenacoccus cyrenaicus*.
- 1925 NOTES ON COCCIDAE—XI (HEMIPTERA). Canad. Ent. 57: 228-234, illus. *Marchalina azteca*, *Pseudococcus adenostomae*, *Phenacoccus serratus*, n. spp.; *Marchalina hellenica*, *Lecanium coryli* redescribed.
- 1928 THE WAX-SECRETING ORGANS OF THE COCCIDAE. Pan-Pacific Ent. 5: 67-70.
Introductory discussion and bibliography.
- 1934 SETAE. Canad. Ent. 66: 145-150, illus.
Setae of 12 coccids discussed or illustrated.
- 1935 SCALE INSECTS (HEMIPTERA: COCCOIDEA) FROM THE MARQUESAS. Pacific Ent. Survey Pub. 8, art. 9 [7 p.], illus. Date of publication 1935(?). (Not seen.) Also in Bernice P. Bishop Mus. Bul. 142, p. 125-131, illus. 1939.
Lepidosaphes marginata n. sp., redescription of *Pseudococcus swezeyi*; notes on 9 other coccids.

FERRIS, G. F.—Continued.

- 1935a AN APPARENTLY UNDESCRIBED MEALYBUG (HEMIPTERA: PSEUDOCOC-
CIDAE) FROM TAHITI. Pacific Ent. Survey Pub. 8, art. 10, [3 p.],
illus. Date of publication 1935(?). (Not seen.) Also in Bernice P.
Bishop Mus. Bul. 142, p. 133-135, illus. 1939.
Pseudococcus perforatus n. sp.; note on *Trionymus sacchari*.
- 1936 CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA).
(CONTRIBUTION NO. 1). Microentomology 1: 1-16, illus.
Redescriptions or notes relating to 15 coccids.
- 1936a CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA).
II. (CONTRIBUTION NO. 2). Microentomology 1: 17-92, illus.
List of diaspidine genera; notes on some; illustrations of 61 genotypes
of the Diaspididae.
- 1937 ATLAS OF THE SCALE INSECTS OF NORTH AMERICA (ser. 1) [v. 1]. Serial
Nos. SI-1 to SI-136, illus. (SI-1, 8 p. plus legend for serial num-
bers; other serial numbers not paged.) Calif., Stanford Univ. Press.
Descriptions and plates of 101 diaspidine coccids, 10 as new species,
in 34 genera, 4 presented as new.
(Note: This volume and volumes 2, 3, and 4 of the Atlas are made up
of sets of independent units given serial numbers. Each unit usually
consists of a title page plus one to three unnumbered pages on which
a genus or species is discussed and illustrated. A few of these units
(e.g. SI-1 Introduction, p. 1-8) include several numbered pages. Each
volume includes an undesignated 1-page list of the serial numbers,
together with the coccid names or other subject matter associated
with each serial number.)
- 1937a CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA).
IV. (CONTRIBUTION NO. 5). Microentomology 2: 1-45, illus.
Illustrations of 26 genotypes of tribe Diaspidini, 8 of tribe Odonas-
pidini, and 1 of tribe Xanthophthalmini.
- 1937b ON CERTAIN WORDS USED IN CONNECTION WITH THE COCCOIDEA (HOM-
OPTERA). Ent. News 48: 141-143.
Discusses and defines 5 terms used in describing coccids.
- 1937c CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA)
V. (CONTRIBUTION NO. 6). Microentomology 2: 47-101, illus.
List of aspidiotine generic names; notes on some of these; illustra-
tions of 42 aspidiotine genotypes.
- 1937d CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA).
VI. (CONTRIBUTION NO. 7). Microentomology 2: 103-122, illus.
Notes on several genera and illustrations of 15 more diaspidine gen-
era.
- 1937e ON NOMENCLATORIAL AND OTHER PROBLEMS IN THE SYSTEMATICS OF
THE COCCOIDEA (INSECTA: HOMOPTERA). Ann. and Mag. Nat. Hist.
(ser. 10) 20: 525-530.
Critical discussion of Lindinger's "Verzeichnis der Schildlaus-Gattun-
gen," 1937.
- 1938 CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA).
VII. (CONTRIBUTION NO. 9). Microentomology 3: 37-56, illus.
Notes on several diaspidine and aspidiotine genera; list of generic
names terminating in "aspis" (A-My); illustrations of 15 genotypes
from both groups.
- 1938a ATLAS OF THE SCALE INSECTS OF NORTH AMERICA (ser. 2) [v. 2].
Serial Nos. SII-1a, SII-2a, and SII-137 to SII-268, illus. Calif.,
Stanford Univ. Press.
Descriptions and plates of 103 coccids, 20 as new, including 14 diaspi-
dine, 15 odonaspine, 1 xanthophthalmine, and 73 aspidiotine in 34
genera, 6 presented as new.
- 1938b CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA)
VIII. (CONTRIBUTION NO. 10). Microentomology 3: 57-75, illus.
Notes on various diaspidine genera; generic names ending in "aspis"
(Myt- Z); illustrations of 13 diaspid genotypes.

FERRIS, G. F.—Continued.

- 1941 CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA) IX. (CONTRIBUTION NO. 24.). *Microentomology* 6: 6-10, illus. Discusses forgotten genus (*Acreagris*) of the family Margarodidae from Baltic amber; points out relationship to *Matsucoccus*.
- 1941a CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA) X. (CONTRIBUTION NO. 25). *Microentomology* 6: 11-24, illus. Notes on 8 diaspidine genera; illustrations of 11 diaspid genotypes.
- 1941b A NEW GENUS IN THE PSEUDOCOCCIDAE (HOMOPTERA: COCCOIDEA). (CONTRIBUTION NO. 26). *Microentomology* 6: 25-28, illus. *Cucullococcus vaccinii* n. gen. and sp.
- 1941c A NEW SPECIES OF STOMACOCCLUS (HOMOPTERA; COCCOIDEA; MARGARODIDAE). (CONTRIBUTION NO. 27). *Microentomology* 6: 29-32, illus. *S. capsulatus*.
- 1941d ATLAS OF THE SCALE INSECTS OF NORTH AMERICA (ser. 3) [v. 3]. Serial Nos. SIII-2b and SIII-269 to SIII-384, illus. Calif., Stanford Univ. Press. Descriptions and plates of 95 coccids, 64 as new, including 45 diaspidine, and 50 aspidiotine in 36 genera, 14 presented as new.
- 1941e THE GENUS ASPIDIOTUS (HOMOPTERA; COCCOIDEA; DIASPIDIDAE) (CONTRIBUTION NO. 28). *Microentomology* 6: 33-69, illus. List of several hundred names used at some time in *Aspidiotus*; list of 10 accepted here, with synonyms; redescriptions or notes for 12; key to 8.
- 1942 ATLAS OF THE SCALE INSECTS OF NORTH AMERICA (ser. 4) [v. 4]. Serial Nos. SIV-2c and SIV-385 to SIV-448 (SIV-445, 11 p.; SIV-446, 70 p.; SIV-447, 4 p.; SIV-448, 7 p.) Calif., Stanford Univ. Press. Descriptions and plates for 52 coccids, 20 as new, including 34 diaspidines, 10 aspidiotines, and 8 phoenicococcines, in 28 genera, 1 presented as new; 2 new generic names proposed; supplementary notes on Diaspidae (11 p.); classification and keys to groups, genera, and species in all 4 vol. (70 p.); index to all 4 vol. (7 p.).
- 1943 ADDITIONS TO THE KNOWLEDGE OF THE DIASPIDIDAE (HOMOPTERA: COCCOIDEA). (CONTRIBUTION NO. 41). *Microentomology* 8: 58-79, illus. *Melanaspis*—6 new species, notes on 4, key to 28 N. American; *Aonidomytilus*—2 new species, notes on 3, key to 11; *Nicholiella*—1 new species, key to 2.
- 1943a THE GENUS TARGIONIA SIGNORET AND SOME OF ITS ALLIES (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). (CONTRIBUTION NO. 42). *Microentomology* 8: 81-111, illus. List of 68 names at some time included in *Targionia*; redescriptions or notes on 8 species retained, and key to 6 species seen by author; redescriptions of 4 European *Quadraspidotus*; list of 7 definite and 3 possible *Rhizaspidotus* inclusions, redescription of 1.
- 1946 INFORMATION CONCERNING THE GENERA CHORTINASPIS AND ASPIDIOTUS (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). (CONTRIBUTION NO. 51). *Microentomology* 11: 37-49, illus. Review of *Chortinaspis* and of 10 included species with key. *C. divaricata* n. sp.; notes on 2 *Aspidiotus*, revised key to 9.
- 1950 REPORT UPON SCALE INSECTS COLLECTED IN CHINA (HOMOPTERA: COCCOIDEA). PART I. (CONTRIBUTION NO. 66). *Microentomology* 15: 1-34, illus. Beesonidae n. fam., *Fulbrightia*, *Sishania* n. gen.; 9 new species, descriptive notes on 5 others.
- 1950a REPORT UPON SCALE INSECTS COLLECTED IN CHINA (HOMOPTERA: COCCOIDEA) PART II. (CONTRIBUTION NO. 68). *Microentomology* 15: 69-97, illus. *Hsuia* n. gen.; 8 new species; descriptive and collection notes on 14 additional coccids.

FERRIS, G. F.—Continued.

- 1950b ATLAS OF THE SCALE INSECTS OF NORTH AMERICA. (ser. 5) [v. 5]. THE PSEUDOCOCCIDAE (PART I). Calif., Stanford Univ. Press, vii, +278 p., illus.
Characterization of family; key to 21 genera; descriptions and keys for 103 coccids, including 18 new species, in 21 genera, 12 presented as new.
- 1952 SOME MISCELLANEOUS COCCOIDEA (INSECTA: HOMOPTERA). (CONTRIBUTION NO. 75). *Microentomology* 17: 2-5, illus.
Myocococcus coperniciae n. gen. and sp.; *Colobopyga coperniciae* n. sp.; notes on associated species; key to 4 *Colobopyga*.
- 1952a REPORT UPON SCALE INSECTS COLLECTED IN CHINA (INSECTA: HOMOPTERA). PART III. (CONTRIBUTION NO. 76). *Microentomology* 17: 6-16, illus.
Sishanaspis quercicola n. gen. and sp.; 5 other new species.
- 1953 REPORT UPON SCALE INSECTS COLLECTED IN CHINA (HOMOPTERA: COCCOIDEA). PART IV. (CONTRIBUTION NO. 84). *Microentomology* 18: 59-84, illus.
Describes 13 new species; key to 7 new *Phenacaspis*, collection and other notes on 15 additional coccids.
- 1953a ATLAS OF THE SCALE INSECTS OF NORTH AMERICA, v. 6, THE PSEUDOCOCCIDAE (PART II). Calif., Stanford Univ. Press, vii, +279-506, illus.
Key to 38 genera treated in vols. 5 and 6; descriptions and keys for 103 coccids, including 22 new species, in 33 genera, 5 presented as new.
- 1954 NEW SPECIES OF DIASPIDIDAE FROM FLORIDA AND THE CARIBBEAN ISLANDS (HOMOPTERA; COCCOIDEA). (CONTRIBUTION NO. 88). *Microentomology* 19: 41-50, illus.
Describes 5 new species.
- 1954a REPORT UPON SCALE INSECTS COLLECTED IN CHINA (HOMOPTERA: COCCOIDEA). PART V. (CONTRIBUTION NO. 89). *Microentomology* 19: 51-66, illus.
Rastrococcus n. gen.; descriptions and notes for 11 mealybugs, 5 new.
- 1955 ON SOME GENERA OF THE PSEUDOCOCCIDAE. (HOMOPTERA: COCCOIDEA). (CONTRIBUTION NO. 90). *Microentomology* 20: 1-19, illus.
Cataenococcus, *Delococcus*, n. gen.; *Lachnodiella mexicana* n. sp.; descriptive and other notes on 5 other genera and 11 species.
- 1955a ATLAS OF THE SCALE INSECTS OF NORTH AMERICA, v. 7, THE FAMILIES ACLERDIDAE, ASTEROLECANIIDAE, CONCHASPIDIDAE DACTYLOPIIDAE AND LACCIFERIDAE. iii, +233 p., illus. Calif., Stanford Univ. Press.
Varied taxonomic treatment for 168 coccids in 21 genera; 4 new genera and 18 new species described.
- 1955b SOME MISCELLANEOUS COCCOIDEA (INSECTA: HOMOPTERA). (CONTRIBUTION NO. 91). *Microentomology* 20: 22-29, illus.
Key to 5 N. American *Nipaecoccus*; 1 new genus, 3 new species; notes on 8 other coccids.
- 1955c REPORT UPON A COLLECTION OF SCALE INSECTS FROM CHINA. VI. (INSECTA: HOMOPTERA). (CONTRIBUTION NO. 92). *Microentomology* 20: 30-40, illus.
Describes 3 new genera, 4 new species; notes on 6 other coccids.
- 1955d THE GENUS PHENACASPIS COOLEY AND COCKERELL, PART I. (INSECTA: HOMOPTERA: COCCOIDEA) (CONTRIBUTION NO. 93). *Microentomology* 20: 41-82, illus.
A consideration of the genus *Chionaspis* Signoret; the first part of a complete review of the genus *Phenacaspis*, including 38 species; *Phenacaspis takahashi* n. sp.

See also DOANE, R. W., and FERRIS, G. F.; RAO, V. P., and FERRIS, G. F.; ZIMMERMAN, E. C. 1948.

FERRIS, G. F., and KELLY, J. B.

- 1923 XIV EXPEDITION OF THE CALIFORNIA ACADEMY OF SCIENCES TO THE GULF OF CALIFORNIA IN 1921. SOME COCCIDAE FROM ABOUT THE GULF OF CALIFORNIA. Calif. Acad. Sci. Proc. (ser. 4) 12: 315-318, illus.
Lecaniodiaspis tapirirae n. sp.; collection records for 11 other coccids.

FERRIS, G. F., and MURDOCK, G. E.

- 1936 CONTRIBUTIONS TO THE KNOWLEDGE OF THE COCCOIDEA (HOMOPTERA). III. (CONTRIBUTION NO. 4). Microentomology 1: 115-121, illus.
Location and histological structure of dorsal ostioles and circulus.

FERRIS, G. F., and RAO, V. P.

- 1947 THE GENUS PINNASPIS COCKERELL (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). (CONTRIBUTION NO. 54). Microentomology 12: 25-58, illus.
Lists 61 names assigned to genus; gives synonymy and descriptions or notes for 19 considered valid; key to 12.

FEYTAUD, J.

- 1916 LES COCHENILLES DE LA VIGNE. Soc. d'Etude et Vulg. Zool. 15: 1-11, 21-27, 43-46, 52-54, 65-74, 88-90, illus.
Lists 19 coccids and describes and discusses some of them.

FIGUEIREDO, E. R. DE, JR., see LEPAGE, H. S., and DE FIGUEIREDO, E. R., JR.

FIGUEROA POTES, A.

- 1946 CATALOGACIN INICIAL DE LAS COCHINILLAS DEL VALLE DEL CAUCA [HOMOPTERA-COCCOIDEA]. Rev. Facult. Nac. de Agron. 6 (23): 196-220.
List of 52 coccids with host and locality data.

- 1952 CATALOGO DE LOS ARTROPODOS DE LAS CLASES ARACHNIDA E INSECTA ENCONTRADOS EN EL HOMBRE, LOS ANIMALES Y LAS PLANTAS DE LA REPUBLICA DE COLOMBIA—II. Acta Agron. 2: 199-223 (204-210).
Lists 50 coccids with brief host and collection notes.

FINK, R.

- 1952 MORPHOLOGISCHE UND PHYSIOLOGISCHE UNTERSUCHUNGEN AN DEN INTRAZELLULAREN SYMBIONTEN VON PSEUDOCOCCUS CITRI RISSO. Ztschr. f. Morph. u. Ökol. der Tiere 41: 78-146, illus.

FITCH, A.

- 1855 THE APPLE BARK-LOUSE, ASPIDIOTUS CONCHIFORMIS, GMELIN; COCCUS ARBORUM LINEARIS, MODEER AND OTHERS; DIASPIS LINEARIS, COSTA. In [First] Rpt. on Noxious, Beneficial, and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 14 (1854): 735-742, illus.

Biology; some discussion of synonymy; proposes *Aspidiotus juglandis* [n. sp.] for coccid on butternut [= *Lepidosaphes ulmi*]; [*Aulacaspis rosae* also mentioned.

- 1855a THE PINE BLIGHT.—COCCUS PINICORTICIS. In [First] Rpt. on Noxious, Beneficial, and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 14 (1854): 870-873, illus.

An aphid.

- 1856 THE PINE-LEAF SCALE INSECT, ASPIDIOTUS PINIFOLIAE, NEW SPECIES. In Second Rpt. on Noxious, Beneficial, and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 15 (1855): 488-494, illus.

Now *Phenacaspis pinifoliae* (Fitch).

- 1857 53.—PEAR BARK-LOUSE, LECANIUM PYRI, SCHRANK. 54.—SCURFY BARK-LOUSE, ASPIDIOTUS FURFURUS, NEW SPECIES. (HOMOPTERA, COCCIDAE). In Third Rpt. on Noxious and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 16 (1856): 352-353.

A. furfurus now *Chionaspis furfura* (Fitch).

- 1857a 74.—CHERRY BARK-LOUSE, LECANIUM CERASIFEX, NEW SPECIES. 75.—CHERRY SCALE INSECT, ASPIDIOTUS CERASI, NEW SPECIES. In Third Rpt. on Noxious and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 16 (1856): 368.

(74) Brief description [= *L. corni* acc. to Sanders]; (75) very brief description [believed to be *Chionaspis furfura*].

FITCH, A.—Continued.

- 1857b 139.—CIRCULAR BARK LOUSE, *ASPIDIOTUS CIRCULARIS*, NEW SPECIES; 140.—CURRANT BARK LOUSE, *LECANIUM RIBIS*, NEW SPECIES. *In* Third Rpt. on Noxious and Other Insects of the State of New York, N.Y. State Agr. Soc. Trans. 16 (1856): 426-427.
(139) Very brief description [possibly same as *A. ancylus*]; (140) brief description [*L. corni* acc. to Sanders].
- 1857c 147.—GOOSEBERRY BARK-LOUSE. *LECANIUM CYNOSBATI*, NEW SPECIES. *In* Third Rpt. on Noxious and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 16 (1856): 436.
Very brief description [*L. corni* acc. to Sanders].
- 1857d 160.—HICKORY BARK-LOUSE, *LECANIUM CARYAE*, NEW SPECIES. *In* Third Rpt. on Noxious and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 16 (1856): 443.
A very brief description.
- 1857e 201.—HAZELNUT BARK-LOUSE, *LECANIUM CORYLIFEX*, NEW SPECIES. *In* Third Rpt. on Noxious and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 16 (1856): 473.
Brief description [*L. corni* acc. to Sanders].
- 1859 307.—WHITE OAK SCALE INSECT, *LECANIUM QUERCIFEX*, NEW SPECIES. 308.—QUERCITRON OAK SCALE INSECT, *LECANIUM QUERCITRONIS*, NEW SPECIES. *In* Fifth Rpt. on Noxious and Other Insects of the State of New York, N. Y. State Agr. Soc. Trans. 18 (1858): 805-806.
Brief descriptions [*L. quercitronis* is *L. quercifex* acc. to Sanders].

FLETCHER, T. B.

- 1914 SOME SOUTH INDIAN INSECTS. Madras, Govt. Press. 565 p. (508-521), illus.
Descriptive, life history, host, and distribution information on 17 coccids.
- 1919 ANNOTATED LIST OF INDIAN CROP-PESTS. Ent. Mtg., 3, Pusa, Rpt. Proc. 1: 33-314 (286-304). Reprinted in Agr. Res. Inst., Pusa, Bul. 100, 246 p. (218-236). 1921.
Lists 108 coccids with Indian hosts and distribution records.
- 1921 ADDITIONS AND CORRECTIONS TO THE LIST OF INDIAN CROP-PESTS. Ent. Mtg., 4, Pusa, Rpt. Proc. p. 14-20 (18-20).
Lists 24 coccids with hosts and localities.

FLORENCE, L.

- 1917 THE PACIFIC COAST SPECIES OF *XYLOCOCCUS* (SCALE INSECTS). Ent. Soc. Amer. Ann. 10: 147-166, illus.
Detailed descriptions of *Xylococcus alni* n. sp., *betulae*, *macrocarpae*, and *quercus*; keys to different stages.

FONSCOLOMBE, E.L.J.H. BOYER DE

- 1834 DESCRIPTION DES KERMES QU'ON TROUVE AUX ENVIRONS D'AIX. Soc. Ent. de France Ann. 3: 201-218.
Describes 9 coccids as new and redescribes 10 others.

FONSECA, J. C. DA

- 1953 CONTRIBUIÇÃO PARA O ESTUDO DO COCCUS HESPERIDUM L. (HEMIPTERA COCCOIDEA). I—ESTUDO SISTEMÁTICO E MORFOLÓGICO. Brotéria 22: 5-53; 97-114, illus.
An extended study, especially on the proper classification, the external morphology, and the synonymy.
- 1954 CONTRIBUIÇÃO PARA O ESTUDO DO COCCUS HESPERIDUM L. (HEMIPTERA: COCCOIDEA) II—SUBSIDIOS PARA O ESTUDO DA SUA BIOLOGIA E ECOLOGIA. (CONT.) Brotéria 23: 53-93, 149-173, illus.
Life cycle; influence of climate; parasites and predators; several other coccids mentioned in discussions.

FONSECA, J. C. DA.—Continued.

1955 CONTRIBUIÇÃO PARA O ESTUDO DO COCCUS HESPERIDUM L. II—SUBSIDIOS PARA O ESTUDO DA SUA BIOLOGIA E ECOLOGIA. (CONT.) Brotéria 24: 38-51, 161-173 illus.

Discusses fungi attacking coccid; plant host list; collection reports for Portugal and Portuguese territories; general distribution.

FONSECA, J. P. DA

1927 UM NOVO COCCIDEO DA JABOTICABEIRA, PENDULARIA PENDENS. Chacaras e Quintaes 36: 268-270, illus. Reprinted under title "Um novo genero de coccideo Lecam[=n]iinae (Hemipt.)" in Rev. Mus. Paulista Sao Paulo, Brazil (State) 16: 849-853, 1929, with different illustrations.

FORBES, S. A.

1885 THE SORGHUM BARK LOUSE. (COCCUS SORGHIELLUS, N. S.). In Ill. State Ent. Ann. Rpt. 14 (1884): 71.

1885a THE CLOVER BARK LOUSE (COCCUS TRIFOLII, N. S.). In Ill. State Ent. Ann. Rpt. 14 (1884): 72-73.

1894 THE SORGHUM MEALY BUG. DACTYLOPIUS SORGHIELLUS, FORBES. In Ill. State Ent. Ann. Rpt. 18 (1891-92): 106-108, illus. Observations on biology; description.

1898 THE SAN JOSE SCALE IN ILLINOIS. (ASPIDIOTUS PERNICIOSUS COMSTOCK.) Ill. State Ent. Ann. Rpt. 20 (1895-96): 1-25, illus. General review, including life history and descriptive information.

FORSTER, A.

1851 UEBER SCHILDLÄUSE. Naturhist. Ver. der Preuss. Rheinlande Verhandl. 8: 551-562.

General discussion of coccid characteristics; mention of several coccid genera and species; *Lecanium vagabundum* proposed as new name for several older ones.

FOUCHÉ, F. A., see MUNRO, H. K., and FOUCHÉ, F. A.

FOURCROY, A. F.

1785 ENTOMOLOGIA PARISIENSIS. Paris. 544 p. (227-231).

Lists 18 *Chermes* [coccid] species, including *roboris*, *sericeum*, and *ulmi* apparently for first time, and 3 *Coccus* species.

FRANCESCHINI, F., see TARGIONI TOZZETTI, A., and FRANCESCHINI, F.

FRANK, A. B., and KRUGER, F.

1898 DIE EUROPÄISCHEN VERWANDTEN DER SAN JOSE SCHILDLAUS. Gartenflora 47: 393-400, illus.

Discusses separation of *Aspidiotus perniciosus*, *A. ostreaeformis* [actually *Epidiaspis piriicola*].

1900 SCHILDLAUSBUCH. BESCHREIBUNG UND BEKÄMPFUNG DER FÜR DEN DEUTSCHEN OBST- UND WEINBAU WICHTIGSTEN SCHILDLÄUSE. Berlin, Parey, 1900, 120 p., illus. (col.).

Discusses or describes 25 coccids in 7 genera.

FRAUENFELD, G. VON

1859 NOTIZEN ÜBER DIE FAUNA HONGKONG'S UND SICHANGHAI'S; GESAMMELT WÄHREND DES AUFENTHALTES SR. MAJESTÄT FREGATTE NOVARA IM SOMMER 1858. K. Akad. der Wiss. [Math.-Naturw. Classe] 35: 247-248, illus.

Discusses *Cecidomyia* sp. [i. e. *Drosicha* sp.],

1868 ZOOLOGISCHE MISCELLEN XV. ASPIDIOTUS ZONATUS n. sp. Zool.-Bot. Gesell. Wien. Verhandl. 18: 888-889, illus. (also a brief description on p. 61).

FREEBORN, S. B.

1931 CITRUS SCALE DISTRIBUTION IN THE MEDITERRANEAN BASIN. Jour. Econ Ent. 24: 1025-1031.

Comment on distribution of 17 coccids.

FREITAS, A. O., and CARNEIRO, H.

1949 OCCORÊNCIA E IMPORTANCIA ECONÔMICA DE ORTHEZIA INSIGNIS DOUGLAS. Pernambuco, Brazil (State) Sec. de Agr., Indus. e Com. Bol. 16: 117-123, illus.

Description, Brazilian distribution, extended host list, discussion of associated symbiotic fungi.

FRENCH, C., JR.

1907 THREE NEW SPECIES OF SCALE INSECTS FROM THE MALLEE. Victorian Nat. 23: 184.

Aspidiotus lectularius, *Mytilaspis beyeriae*, *Lecaniodiaspis frenchii* Green, exhibited. [No description.]

1907a NOTE ON A REMARKABLE SCALE-INSECT. Victorian Nat. 23: 240.

Lecaniodiaspis frenchii Green [nom. nud.].

FROGGATT, W. W.

1893 NOTES ON THE FAMILY BRACHYSCELIDAE, WITH SOME ACCOUNT OF THEIR PARASITES, AND DESCRIPTIONS OF NEW SPECIES. PART I. Linn. Soc. N. S. Wales, Proc. (ser. 2) 7 (1892): 353-378, illus.

Describes 8 new species; redescribes 5 others in *Brachyscelis*.

1894 NOTES ON THE FAMILY BRACHYSCELIDAE, WITH DESCRIPTIONS OF NEW SPECIES. PART II. Linn. Soc. N. S. Wales, Proc. (ser. 2) 8 (1893): 209-214, illus.

Ascelis schraderi, *A. attenuata* n. spp.; 2 others redescribed.

1894a NOTES ON A NEW CLASSIFICATION OF THE BRACHYSCELIDAE. Roy. Soc. So. Austral. Trans. 18: 75-76.

Comments on paper by J. G. O. Tepper, entitled "Descriptions of South Australian Brachyscelid Galls," Roy. Soc. So. Austral. Trans. 17: 265-280, 1893.

1894b NOTES ON THE FAMILY BRACHYSCELIDAE, WITH DESCRIPTIONS OF NEW SPECIES.—PART III. Linn. Soc. N. S. Wales (ser. 2) 8 (1893): 335-348, illus.

Brachyscelis umbellata n. sp. and 8 new species of *Opisthoscelis*.

1895 NOTES ON THE SUB-FAMILY BRACHYSCELINAE WITH DESCRIPTIONS OF NEW SPECIES.—PART IV. Linn. Soc. N. S. Wales, Proc. (ser. 2) 10: 201-205, illus.

Brachyscelis dipsaciformis, *B. sessilis*, *B. rosaeformis*, n. spp.

1898 NOTES ON THE SUBFAMILY BRACHYSCELINAE, WITH DESCRIPTIONS OF NEW SPECIES.—PART V. Linn. Soc. N. S. Wales Proc. 23: 370-379, illus.

Describes 8 coccids, including 3 *Brachyscelis*, 1 *Opisthoscelis*, and 1 *Sphaerococcus* as new.

1899 SCALE INSECTS THAT PRODUCE LAC. WITH A DESCRIPTION OF A NEW AUSTRALIAN SPECIES. Agr. Gaz. N. S. Wales 10: 1159-1163, illus.

Tachardia australis n. sp; notes on *T. decorella*, *T. melaleucae*, *T. acaciae*.

1900 NOTES ON AUSTRALIAN COCCIDAE (SCALE INSECTS). I. GENUS ERIOCOCCUS. Agr. Gaz. N. S. Wales 11: 99-107, illus. Also issued as Dept. Agr.

N. S. Wales Misc. Pub. 358, 9 p., illus.

Descriptive and other notes on 13 species.

1904 THE NUT GRASS COCCID. (ANTONINA AUSTRALIS GREEN). Agr. Gaz. N. S. Wales 15: 407-410, illus.

Description, relationships, biological notes, usefulness.

1906 MEALY BUGS. NO. I—MONOPHLEBINAE. Agr. Gaz. N. S. Wales 17: 770-779, illus.

Descriptive and other notes on 13 margarodid coccids.

1911 DESCRIPTION OF A NEW LAC-COCCID (GENUS TACHARDIA) FROM NEW SOUTH WALES. Linn. Soc. N. S. Wales, Proc. 36: 154.

T. angulata.

FROGGATT, W. W.—Continued.

- 1914 A DESCRIPTIVE CATALOGUE OF THE SCALE INSECTS ("COCCIDAE") OF AUSTRALIA. (PART. I.) Agr. Gaz. N. S. Wales 25: 127-136, 311-319, 599-610, 677-684, 875-882, 983-989, illus. (Cont.) Also issued as N. S. Wales Dept. Agr. Sci. Bul. 14, 64 p., 1915.
Lists and describes briefly 115 coccids, including 17 as new.
- 1915 A DESCRIPTIVE CATALOGUE OF THE SCALE INSECTS ("COCCIDAE") OF AUSTRALIA. (PART II. [In Part]). Agr. Gaz. N. S. Wales 26: 411-423, 511-516, 603-615, 754-764, 1055-1064, illus. (Cont.) Also issued as pages 1-70 of N. S. Wales Dept. Agr. Sci. Bul. 18, 159 p., 1921.
Lists and describes briefly 93 coccids, including 21 as new.
- 1916 A DESCRIPTIVE CATALOGUE OF THE SCALE INSECTS ("COCCIDAE") OF AUSTRALIA. (PART II [In Part]). Agr. Gaz. N. S. Wales 27: 425-430, 568-577, 809-816, 883-888, illus. (Cont.) Also issued as pages 71-105 of N. S. Wales Dept. Agr. Sci. Bul. 18, 159 p., 1921.
Lists and describes briefly 48 coccids, including 11 as new.
- 1917 A DESCRIPTIVE CATALOGUE OF THE SCALE INSECTS ("COCCIDAE") OF AUSTRALIA. (PART II [In Part]). Agr. Gaz. N. S. Wales 28: 134-140, 505-514, illus. Also issued as pages 106-124 of N. S. Wales Dept. Agr. Sci. Bul. 18, 159 p., 1921.
Lists and describes briefly 19 coccids, including 1 as new.
- 1919 A NEW SPECIES OF WAX SCALE (*CEROPLASTES MURRAYI*) FROM NEW GUINEA. Linn. Soc. N. S. Wales, Proc. 44: 439-440, illus.
- 1921 A NEW MEALYBUG ON CITRUS TREES. (*PULVINARIA ORNATA* N. SP.) Agr. Gaz. N. S. Wales 32: 427-428, illus.
- 1921a A DESCRIPTIVE CATALOGUE OF THE SCALE INSECTS ("COCCIDAE") OF AUSTRALIA. (PART II. [Concl.]). N. S. Wales Dept. Agr. Sci. Bul. 18, 159 p., illus. Pages 1-124 of this bulletin were issued previously in the Agr. Gaz. N. S. Wales (*see* Froggatt 1915, 1916, and 1917).
Lists and describes briefly 198 coccids, including 36 as new; 165 of these, including 33 as new, previously published in Agr. Gaz. N. S. Wales, 1915-1917.
- 1921b A DESCRIPTIVE CATALOGUE OF THE SCALE INSECTS ("COCCIDAE") OF AUSTRALIA. (PART III.) N. S. Wales Dept. Agr. Sci. Bul. 19, 43 p., illus.
Lists and describes briefly 49 coccids, including 5 as new, with *Pseudopsylla* n. gen.
- 1925 NOTES ON AUSTRALIAN COCCIDAE WITH DESCRIPTIONS OF NEW SPECIES. Linn. Soc. N. S. Wales, Proc. 50: 378-380, illus.
Lecanium eucalypti, *L. dixonii*, *L. callitris*, n. spp.
- 1929 NOTES ON GALL-MAKING COCCIDS WITH DESCRIPTIONS OF NEW SPECIES. Linn. Soc. N. S. Wales, Proc. 54: 375-378, illus.
Describes 5 new species in *Apiomorpha*, *Opisthoscelis*; notes on 3 described coccids.
- 1930 NOTES ON GALL-MAKING COCCIDS WITH DESCRIPTIONS OF NEW SPECIES. II. Linn. Soc. N. S. Wales, Proc. 55: 468-474, illus.
Notes on 8 described and 5 new species in *Apiomorpha*.
- 1931 A CLASSIFICATION OF THE GALL-MAKING COCCIDS OF THE GENUS *APIOMORPHA*. Linn. Soc. N. S. Wales, Proc. 56: 431-454, illus.
Segregates 9 groups; describes 33 species, including *A withersi* n. sp.
- 1933 THE COCCIDAE OF THE CASUARINAS. Linn. Soc. N. S. Wales, Proc. 58: 363-374, illus.
Casuarinaloma n. gen.; describes 5 new coccids; collection and often descriptive notes on 23 other coccids.

FULLAWAY, D. T.

- 1910 GEOCOCCUS RADICUM GREEN, IN HAWAII. Hawaii. Ent. Soc. Proc. 2: 108-109, illus.
Description, host, and locality notes; replaces paper by Fullaway and Kotinsky describing it as *Ripersiella rhizophilla* n. sp.

FULLAWAY, D. T.—Continued.

1910a DESCRIPTION OF A NEW COCCID SPECIES, CEROPUTO AMBIGUA, WITH NOTES ON ITS LIFE HISTORY AND ANATOMY. Davenport Acad. Sci. Proc. 12: 223-240, illus.

Detailed study.

1923 NOTES ON THE MEALY-BUGS OF ECONOMIC IMPORTANCE IN HAWAII. Hawaii. Ent. Soc. Proc. 5: 305-321, illus.

List, keys to genera and species, and descriptive and other notes for 16 mealybugs in 7 genera; *Ferrisia* n. gen. proposed.

1932 SYNOPSIS OF THE HAWAIIAN DIASPINAE (COCCIDAE). Hawaii. Ent. Soc. Proc. 8: 93-111.

Characterizes 36 coccids in 17 genera, with keys to genera and species; *Phenacaspis eugeniae sandwicensis* n. var.

1946 COCCIDAE OF GUAM. Bernice P. Bishop Mus. Bul. 189: 157-162.

List of 56 coccids with collection data.

See also Adachi, M. S., and Fullaway, D. T.

FULLAWAY, D. T., and KOTINSKY, J.

1910 [RIPERSIELLA RHIZOPHILLA N. SP. (COCCID) NOM. NUD.] Ent. News 21: 49.

[=*Geococcus radicum* according to Hawaii. Ent. Soc. Proc. 2: 108.]

FULLER, C.

1896 FOREST INSECTS. SOME GALL-MAKING COCCIDS. Agr. Gaz. N. S. Wales 7: 209-218, illus. Also issued as separate, 10 p., 1896. Sydney, Potter.

Discussion of *Brachyscelis*, with description of new species *pedunculata*, *crispa*, *nux*, *shraderei*, and *fletcheri*.

1896a PLANT-GALLS FORMED BY INSECTS. NOTES ON SOME PASSIVE MEANS OF DEFENCE. Agr. Gaz. N. S. Wales 7: 695-699 (697-699), illus.

Discusses several *Brachyscelis* coccid galls.

1897 A GALL-MAKING DIASPID. Agr. Gaz. N. S. Wales 8: 579-580, illus. Also issued as Misc. Pub. 177, 2 p.

Maskellia globosa n. gen. and sp.

1897a COCCID LITERATURE. West. Austral. Bur. Agr. Jour. 4: 1342-1343. Also issued as Part II of a privately printed and amended separate, p. 12-15, 1897. Perth, W. Australia.

Comments on 2 new species described by Maskell and on his use of name *Brachyscelis*.

1897b SOME COCCIDAE OF WESTERN AUSTRALIA. West. Austral. Bur. Agr. Jour. 4: 1344-1346. Also issued as Part I of a privately printed and amended separate, p. 1-12, 1897. Perth, W. Australia.

List of 107 species, including 55 species or varieties designated as new and usually very briefly described.

1899 XIV. NOTES AND DESCRIPTIONS OF SOME SPECIES OF WESTERN AUSTRALIAN COCCIDAE. Ent. Soc. London, Trans. 1899: 435-473, illus.

Describes 3 new genera, 55 new species, nearly all previously proposed in 1897 with very brief descriptions or as nomina nuda; notes on 45 other coccids.

GABRITSCHESKY, E.

1923 POSTEMBRYONALE ENTWICKLUNG, PARTHENOGENESE UND "PEDOGAMIE" BEI DEN SCHILDLÄUSEN (COCCIDAE). (In Russian.) Rev. Zool. Russe 3: 295-332, illus.

German summary. Conclusions based on study of *Aspidiotus nerii*.

GAGE, J. H.

1919 THE STAINING OF COCCIDS. (HOMOP.) Ent. News 30: 142-143.

Recommends acid fuchsin stain.

GAMBARO, P.

1947 IL CICLO BIOLOGICO DELL' ASPIDIOTUS PERNICIOSUS COMST. NEL VERONESE. Soc. Ent. Ital. Mem. 26 (Fasc. Sup.): 45-58, illus.

GAMBARO, P.—Continued.

- 1953 NOTE SULLA BIOLOGIA DI PSEUDOCOCCUS CITRI RISSO NEL VENETO. Soc. Ent. Ital. Mem. 32: 41-53, illus.
Life history observations.

GARCIA, R. C.

- 1949 CONTRIBUIÇÃO PARA O ESTUDO DA SISTEMÁTICA MORFOLOGIA, BIOLOGIA E ECOLÓGIA DA COCHONILHA AMARELA. (CHRYSPHOPHALUS DICTYOSPERMI MORG.). Junta Nac. das Frutas Bol. 9: 374-465, illus.
English and French summaries.

GARCIA MERCET, R.

- 1923 CÓCCIDOS DE LA ENCINA. ASTEROLECANIUM ILICICOLA TARGIONI. Rev. de Fitopat. 1: 54-61 (54-58), illus.
Species described; compared with *A. quercicola* and *A. variolosum*.

GAVALOV, I.

- 1927 [CONTRIBUTION] TO THE COCCID FAUNA OF THE STAVROPOL REGION. (In Russian.) Stavropol Plant Protect. Sta. Bul. 3: 209-214.
List of 24 coccids with notes on local distribution and hosts.
- 1928 MATÉRIAUX POUR SERVIR À L'ÉTUDE DES COCCIDES DU CAUCASE OCCIDENTAL ET DE LA CRIMÉE. (In Russian.) Soc. Ent. Stavropol Acta 4: 53-58.
A list including 20 coccids with host notes.
- 1928a MATÉRIAUX POUR SERVIR À L'ÉTUDE DES COCCIDES DE LA TAURIDE. (In Russian.) Soc. Ent. Stavropol Acta 5: 17-31.
A list of 51 coccids with host and locality data.
- 1929 CONTRIBUTIONS TOWARDS THE STUDY OF COCCIDAE OF ABKHASIA. (In Russian.) Subtropics No. 5-6: 166-169.
English summary. A list of 26 coccids with host and locality data.
- 1932 BEITRÄGE ZUR KENNTNIS DER COCCIDEN DES KAUKASISCHEN GEBIETES. (In Russian.) Trudy Sev.-Kavk. Inst. Spetz. i Tekhn. Kultur [Trans. N. Caucasian Inst. Spec. and Tech. Crops] 1(3): 132-151.
List of 56 coccids with host and other data on each; 74-title bibliography.
- 1932a ZUR FAUNA DER COCCIDEN DES DON-GEBIETES. (In Russian.) Trudy Sev.-Kavk. Inst. Spetz. i Tekhn. Kultur [Trans. N. Caucasian Inst. Spec. and Tech. Crops] 1(3): 152-154.
List of 20 coccids, with notes on food plants and local distribution.
- 1935 DIE VORLÄUFIGE ÜBERSICHT DER GARTEN- UND WALDSCHILDLÄUSE (COCCIDAE) DES AZOW-SCHWARZMEERGEBIETES, NORDKAUKASIENS UND DAGHESTAN. (In Russian.) Krasnodar. Agr. Inst., Proc. No. 7, 40 p.
German summary; 62 coccids listed with host, locality, and sometimes additional data; separate host lists included.

GAVEGLIO, E.

- 1934 MONOPHLEBUS SERRATULAE (FABR.) (COCCIDAE MONOPHLERINAE). Mus. di Zool. e di Anat. Compar. Bol. [Torino] (ser. 3) 44: 249-272, illus.
Discussion of anatomy and biology, including host relationships.

GEE, W. P.

- 1912 PRELIMINARY LIST OF THE SCALE INSECTS OF SOUTH CAROLINA WITH SOME NOTES ON THE BEHAVIOR OF LECANIUM QUERCIFEX. Fitch. Jour. Econ. Ent. 5: 484-486.
A list of 26 coccids.

GEIER, P.

- 1949 CONTRIBUTION A L'ÉTUDE DE LA COCHENILLE ROUGE DU POIRER (EPIDIASPIS LEPERII SIGN.) EN SUISSE. Rev. de Path. Veg. et d'Ent. Agr. de France 28: 177-264, illus. Also in Stat. Fed. d'Essai Vit., Arbor. et de Chimie Agr., Lausanne, Pub. 389: 177-266, illus.
A detailed study of the morphology, scale, biology, control.

See also Bachmann, F., and Geier, P.; Bovey, P., and Geier, P.

GENNADIUS, P.

1881 SUR UNE NOUVELLE ESPÈCE DE COCHENILLE DU GENRE ASPIDIOTUS (ASPIDIOTUS COCCINEUS). Soc. Ent. de France Ann. (ser. 6) 1: 189-192.

1883 DESCRIPTIONS DE TROIS NOUVELLES ESPÈCES DE COCHENILLES. Soc. Ent. de France Ann. (ser. 6) 3: 31-32.

Leucaspis epidaurica, *Dactylopius caricus*, *Monophlebus hellenicus* (*fuscipennis*?)

1895 SUR DEUX COCHENILLES DU CAROUBIER DANS L'ÎLE DE CHYPRE (HEM.). Soc. Ent. de France Ann. (Bul des Séances) 64: cclxxvii.

Lecanium ceratoniae, *Mytilaspis ceratoniae*, n. spp.

GEOFFROY, E. L.

1762 HISTOIRE ABRÉGÉE LES INSECTES QUI SE TROUVENT AUX ENVIRONS DE PARIS, v. 1, 523 p. (498-513) (Illus. in v. 2). Paris, Durand.

Discusses a number of coccids described by other early authors; not binomial.

GERHARDT, P. D., and LINDGREN, D. L.

1952 DICTYOSPERUM SCALE IN CALIFORNIA. Jour. Econ. Ent. 45: 874-877.

Life history, host relationships, control.

GERNECK, R., see Thiem, H., and Gerneck, R.

GHESQUIÈRE, J.

1932 QUELQUES COCCIDES CONGOLAIS. Rev. de Zool. et de Bot. Africaines 22 sup. Bul. du Cerc. Zool. Congolais 9: 58-63, illus.

Lists 12 coccids, including 5 new nomina nuda credited to Laing.

1934 NEWSTEADIA COLLARTI N. SP. COCCIDE (ORTHEZIINE) RADICICOLE ET MYCOPHILE DE LA FORÊT DE SOIGNES. Soc. Ent. de Belg. Bul. et Ann. 74: 27-32, illus.

Description, biological notes, key to *Newsteadia* species.

1939 DES COCCIDES REMARQUABLES. Rev. de Zool. et de Bot. Africaines 33(1) sup. Bul. du Cerc. Zool. Congolais 16: 48-49, illus.

Brief discussion of *Aspidoproctus congoensis*; mention of 5 other coccids.

1946 SUR LA REDÉCOUVERTE EN BELGIQUE D'ORTHEZIOLA SIGNORETI (HALL.) (HEM. ORTHEZIIDAE). Soc. Ent. de Belg. Bul. et Ann. 82: 236-238.

Proposes use of this name for *O. vejtdovskyi* Sulc.

1950 SYNONYMIE RELATIVE À ORTHEZIA INSIGNIS BROWNE (HEMIP., COCCOIDEA, ORTHEZIIDAE). Soc. Ent. de Belg. Bul. et Ann. 86: 32.

Orthezia costis Ghesquière a synonym.

GIANNOTTI, O.

1942 DUAS NOVAS ESPECIES DE COCCIDEOS DO BRASIL (HOMOPTERA-COCCOIDEA). Arq. Inst. Biol. 13: 213-216, illus.

Niveaspis lepagei, *Aspidiotus fonscai*.

See also Lepage, H. S., and Giannotti, O.

GIARD, A.

1894 SUR UNE COCHENILLE SOUTERRAINE DES VIGNES DU CHILI (MARGARODES VITIUM NOV. SP.). Soc. de Biol. [Paris] Compt. Rend. (ser. 10, v. 1) 46: 126-128.

Description; some discussion of related forms.

1894a SUR LES TRANSFORMATIONS DE MARGARODES VITIUM GD. Soc. de Biol. [Paris] Compt. Rend. (ser. 10, v. 1) 46: 412-414.

Additional descriptive and biological information; proposes *Sphaeraspis* for *vitium*.

1894b TROISIÈME NOTE SUR LE GENRE MARGARODES. Soc. de Biol. [Paris] Compt. Rend. (ser. 10, v. 1) 46: 710-713.

Additional descriptive and biological information.

GIARD, A.—Continued.

1894c [SOME UNUSUAL COCCIDS.] Soc. Ent. de France Ann. [Bul. Ent.] 62 (1893): cxcix-cc.

Comments on *Lecanium asparagi*, *Diaspis asparagi*, and *Eriopeltis brachypodii*, all Giard names, without describing them; describes *Spermococcus fallax* n. gen. and sp.

1897 SUR DEUX COCHENILLES NOUVELLES ORTHEZIOLA FODIENS NOV. SPEC. ET RHIZOECUS ELOTI NOV. SPEC., PARASITES DES RACINES DU CAFÉIER A LA GUADELOUPE. Soc. de Biol. [Paris] Compt. Rend. (ser. 10) 4: 583-585.

1897a SUR LA DISTRIBUTION GÉOGRAPHIQUE DE COCHENILLES DU GENRE MARGARODES ET SUR DEUX ESPÈCES NOUVELLES DE CE GENRE. Soc. de Biol. [Paris] Compt. Rend. (ser. 10) 4: 683-685.

M. trimeni, *M. (Sphaeraspis) capensis*, n. spp.

1902 SUR LA PRÉSENCE D'ICERYA PALMERI RILEY ET HOWARD DANS LES VIGNES DU CHILI, ET SUR LA FEMELLE ADULTE DE CETTE COCHENILLE [HEMIPT.] Soc. Ent. de France Bul. 1902 (No. 19): 314-315.

First description of adult female.

1903 QU'EST-CE QUE LE DACTYLOPIUS VAGABUNDUS VON SCHILLING? [HÉMIPT.] Soc. Ent. de France Bul. 1903 (No. 14): 232-233.

Offers opinion that *D. vagabundus* is a mixture of 4 previously described coccids.

GILL, L. S., see McKenzie, H. L., Gill, L. S., and Ellis, D. E.

GILLETTE, C. P., and BAKER, C. F.

1895 A PRELIMINARY LIST OF THE HEMIPTERA OF COLORADO. Colo. Agr. Expt. Sta. Bul. 31 (Tech. Ser. 1), 137 p. (125-129), illus.

Lists 31 coccids with collection data; *Chionaspis ortholobis* var. Cockerell described.

GIRAULT, A. A.

1904 STANDARDS OF THE NUMBER OF EGGS LAID BY INSECTS.—II. Ent. News 15: 2-3.

Tabulation of eggs laid by *Chionaspis furfurus*.

1909 STANDARDS OF THE NUMBER OF EGGS LAID BY INSECTS.—VIII. Ent. News 20: 355-357.

Tabulated reports on eggs produced by *Chionaspis americana*, *C. pinifoliae*, *C. salicis-nigrae*, *Lepidosaphes ulmi*.

GISTEL, J.

1848 NATURGESCHICHTE DES THIERREICHS. Stuttgart, Hoffmann. 216 p. (150-151), illus.

Brief discussion on 4 *Coccus*; proposes *Cyphoma* for *characias*.

GLASER, R. W., see Brues, C. T., and Glaser, R. W.

GLASS, E. H.

1944 FEEDING HABITS OF TWO MEALYBUGS, PSEUDOCOCCUS COMSTOCKI (KUW.) AND PHENACOCCUS COLEMANI (EHRH.). Va. Agr. Expt. Sta. Tech. Bul. 95, 16 p., illus.

Description of beak penetration into plant tissue.

Description of beak penetration into plant tissue.

GLENN, P. A.

1915 THE SAN JOSÉ SCALE (ASPIDIOTUS PERNICIOSUS COMSTOCK.) Ill. State Ent. Rpt. 28: 87-106, illus. Condensed Portuguese translation by

José de Campos Novaes in Bol. Agr. [Sao Paulo] 21: 312-330, illus.

General review of origin, distribution, life history, and control.

1920 FORMS OF THE OYSTER-SHELL SCALE IN ILLINOIS. Jour. Econ. Ent. 13: 173-177.

Describes 3 forms observed.

GLOVER, P. M.

1937 LAC CULTIVATION IN INDIA. Namkum, Indian Lac. Res. Inst., 147 p., illus. [Second and revised edition of "A Practical Manual of Lac Cultivation" by same author, published in June 1931.]

A rather detailed discussion of all phases of lac production.

GLOVER, P. M., and others.

- 1932 THE EFFECTS OF TEMPERATURE AND HUMIDITY ON OVIPOSITION, INCUBATION, AND EMERGENCE IN THE LAC INSECT, LACCIFER (TACHARDIA) LACCA, KERR, (COCCIDAE), AND ON THE RESULTING LAC CROP. Indian Lac Res. Inst. Bul. 6, 18 p.

GMELIN, PH. F.

- 1766 COCCUS. Onomatologia Hist. Nat. Completa, v. 3, 1,004 columns (not paged) (columns 22-27, 40-43). Ulm, Stettin.

Discusses cochineal and 8 *Coccus* spp. (2 probably not coccids); first observed use of name *Coccus citri*.

See also Linnaeus, C. 1789.

GODWIN, P. A., see Bean, J. L., and Godwin, P. A.

GOETHE, R.

- 1884 BEOBACHTUNGEN ÜBER SCHILDLÄUSE UND DEREN FEINDE, ANGESTELLT AN OBSTBÄUMEN UND REBEN IM RHEINGAU. Nassau. Ver. f. Naturk. Jahrb. 37: 107-131, illus.

Discusses and describes 19 coccids, including 4 as new.

- 1899 TIERISCHE FEINDE. (BEOBACHTUNGEN ÜBER SCHILDLÄUSE.) Geisenheim, Kgl. Lehranstalt für Obst-, Wein- und Gartenbau, Ber. 1898/99: 16-22, illus.

Proposes *Aspidiotus ostreaeformis* var. *oblongus*? and *A. ostreaeformis magnus*.

GOEZE, J. A. E.

- 1778 HEMIPTERA. Ent. Beiträge zu des ritter linné zwölften ausgabe des natursystems [systema naturae] v. 2, 72, 352 p. (318, 330-346). Leipzig, Weidmanns Erben and Reich.

Lists 22 Linnean and 19 post-Linnean coccids with literature citations for each; associates *Kermes* with *Coccus ilicis*; clearly defines *Coccus* zoologically.

GOGIBERIDZE, A. A.

- 1938 THE COCCIDAE OF THE HUMID SUBTROPICS OF THE GEORGIAN SSR. (In Russian.) Sukhum, Abkhazian Repub. Insp. Plant Quar. and Subtrop. Quar. Lab. 89 p., illus.

English summary. Descriptive information and host and locality data for 91 coccids.

GOMES COSTA, R., and REDAELLI, D. C.

- 1946 COCHONILHAS OU COCCIDEAS DO RIO GRANDE DO SUL. Bol. Agron. [Porto Alegre] 9: 60-62; 10: 119-122, 174-177; 230-233, 300-303. (Cont.) Also in Gomes Costa, R., Rio Grande do Sul, Sec. de Estado dos Negocios da Agr., Indus., e Com., Sec. de Inf. e Pub. Agr. Bol. 152 (ser. C), p. 1-34, illus. (Cont.) 1949.

General discussion, Asterolecaniidae (4 species); Coccidae (18 species).

- 1947 COCHONILHAS OU COCCIDEAS DO RIO GRANDE DO SUL. Rev. Agron. [Porto Alegre] 11: 5-8, 65-68, 123-126, 170-175, 226-230. (Cont.) Also in Gomes Costa, R., Rio Grande do Sul, Sec. de Estado dos Negocios da Agr., Indus., e Com., Sec. de Inf. e Pub. Agr. Bol. 152 (Ser. C), p. 34-77, 1949.

Diaspididae (25 species).

- 1948 COCHONILHAS OU COCCIDEAS DO RIO GRANDE DO SUL. Rev. Agron. [Porto Alegre] 12: 8-13, 61-70, illus. Also in Gomes Costa, R., Rio Grande do Sul, Sec. de Estado dos Negocios da Agr., Indus., e Com., Sec. de Inf. e Pub. Agr. Bol. 152 (ser. C), p. 77-107, illus. 1949.

Diaspididae (cont.) through Pseudococcidae (14 species considered).

GOMEZ CLEMENTE, F.

- 1927 LA "CARPARRETA BLANCA" EN LOS NARANJALES DE CASTELLÓN (CEROPLASTES SINENSIS, DEL GUERCIO.) Bol. de Patol. Veg. y Ent. Agr. 2: 14-21, illus.

Description, biology, enemies, control.

GOMEZ, CLEMENTE, F.—Continued.

- 1943 COCHINILLAS QUE ATACAN A LOS AGRIOS EN LA REGION DE LEVANTE. Bol. de Patol. Veg. y Ent. Agr. 12: 299-328, illus.
Descriptive information on 12 coccids attacking citrus.
- 1946 LAS "SERPETAS" QUE ATACAN A LOS AGRIOS: MYTILOCOCCUS BECKII (NEWMANN) Y MYTILOCOCCUS GLOVERII (PACKARD). Bol. de Patol. Veg. y Ent. Agr. 14: 9-54, illus.
Descriptive information, biology, control.

GÓMEZ-MENOR ORTEGA, J.

- 1927 SOBRE LA PREPARACION MICROGRAFICA DE COCHINILLAS. (CÓCCIDOS.) Bol. de Patol. Veg. y Ent. Agr. 2: 27-29.
- 1927a ALGUNOS CÓCCIDOS NUEVOS DE ESPANA (HEM. COCC.) Eos. 3: 288-298.
Mercetaspis sphaerocarpaceae n. gen. and sp., *Aspidiotus botanicus* n. sp., *Berlesaspis toletanus* n. sp., key to 4 *Berlesaspis*.
- 1928 ESTUDIOS SOBRE COCCIDOS DE ESPANA. Eos 4: 339-362, illus.
Describes 1 new genus, 4 new species; gives detailed descriptions for 2 other coccids.
- 1935 NOTAS ENTOMOLÓGICAS. UN COCCIDO NEUVO DE LA REPÚBLICA DOMINICANA. Rev. de Agr. y Com. [Dominican Repub.] 27: 2152-2153, illus.
Eriococcus amomidis.
- 1937 CÓCCIDOS DE ESPANA. Madrid. Inst. Invest. Agron., Estac. de Fitopat. Agr. de Almeria. 432 p., illus.
An extended taxonomic study of 9 subfamilies, 51 genera, and 125 coccid species known to occur in Spain.
- 1941 COCCIDOS DE LA REPÚBLICA DOMINICANA (HEM. CÓCC.) Eos 16 (1940): 125-143, illus.
A list of 57 coccids with host and locality data, including description of *Eriococcus amomidis* (sic), n. sp.
- 1942 NUEVA ESPECIE DE STICTOCOCCUS DE LA GUINEA ESPANOLA, PARASITO DEL CAFETO. Bol. de Patol. Veg. y Ent. Agr. 11: 131-141, illus.
S. guineensis.
- 1946 ADICIONES A LOS "CÓCCIDOS DE ESPANA." 1ª NOTA. Eos 22: 59-106, illus.
Key to 20 diaspid genera; descriptive or collection notes on 49 coccids, including description of *Lecanopsis nevesi* n. sp.
- 1948 ADICIONES A LOS "CÓCCIDOS DE ESPANA." 2ª NOTA. Eos. 24: 73-121, illus.
Additional records for 23 coccids; descriptive information for 12 other coccids, including 4 new species.
- 1954 ADICIONES A LOS "CÓCCIDOS DE ESPANA." (Tercera nota). Eos 30: 119-148, illus.
Spanish records for 37 coccids; *Chinaspis vellae* n. gen. and sp.; *Quadraspidotus caricis*, *Gymnococcus agenjoi* n. spp.

GOOT, P. VAN DER

- 1912 NAAMLIJST VAN INLANDSCHE COCCIDAE. Ent. Ber. 3: 285-290.
List of 38 coccids occurring in Holland.
- 1917 DE ZWARTE CACAO-MIER (DOLICHODERUS BITUBERCULATUS MAYR.) EN HAAR BETEEKENIS VOOR DE CACAO CULTUUR OP JAVA. Proefsta. Midden-Java, Salatiga, Meded. No. 25, 142 p. (30-34, 64-72, 90-114, 128-134), illus.
"*Gigantococcus degueliae* mihi i. l." nom. nud. presented; *Pseudococcus crotonis* described in detail, 6 other coccids mentioned.

GOSSELIN, M. T., see Balachowsky, A., and Gosselin, M. T.

GOURY, G.

- 1905 NOTES SPÉCIALES ET LOCALES. LECANIUM LIMNANTHEMI. . . ? La Feuille des Jeunes Nat. (ser. 4) 35 (412): 62.
[Probably leech eggmass.]

Goux, L.

- 1931 NOTES SUR LES COCCIDES [HEM. COCCIDAE] DE LA FRANCE I. NOTE PRÉLIMINAIRE: MONOPHLEBINAE, ORTHEZIINAE, DACTYLOPIINAE, ERIOCOCCINAE. Soc. Ent. de France Bul. 1930, No. 20: 330-333 [i. e. 320-323].
Collection notes on 31 species.
- 1931a NOTES SUR LES COCCIDES [HEM. COCCIDAE] DE LA FRANCE. II. CONTRIBUTION A L'ÉTUDE DES ERIOCOCCUS DE LA FRANCE. Soc. Zool. de France Bul. 56: 58-75, illus.
Eriococcus robaris (i. e. *roboris*), *E. socialis*, *E. polyphagus*, n. spp.; notes on 7 other *Eriococcus*.
- 1931b NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (3^e NOTE). DESCRIPTION D'UNE ESPÈCE NOUVELLE. Soc. Ent. de France Bul. 1931, No. 8: 113-118, illus.
Heliooccus raditicola.
- 1932 NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (4^e NOTE). DESCRIPTION DE CEROCOCCUS NOUVEAUX. Soc. Ent. de France Bul. 37: 140-144, illus.
C. cycliger, *C. laniger*.
- 1933 NOTES SUR LES COCCIDES DE LA FRANCE (5^e NOTE). ÉTUDE D'UNE ESPÈCE NOUVELLE CONSTITUANT UN GENRE NOUVEAU. Soc. Ent. de France Bul. 38: 119-123, illus.
Chlamydolecanium conchioides.
- 1934 NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (7^e NOTE). ÉTUDE D'UN FILIPPINA NOUVEAU DE PROVENCE. Soc. Ent. de France Bul. 38 (1933): 321-325, illus.
F. rosmarini; notes on 4 other coccids.
- 1934a NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (8^e NOTE). DESCRIPTION D'UNE RIPERSIA NOUVELLE ET REMARQUES SUR QUELQUES AUTRES ESPÈCES. Soc. Ent. de France Bul. 39: 27-31, illus.
R. interrupta; notes on 5 other coccids.
- 1934b NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE. (9^e NOTE). CONTRIBUTION À L'ÉTUDE DU GENRE HELIOCOCCUS AVEC DESCRIPTION DE DEUX ESPÈCES NOUVELLES. Soc. Ent. de France Bul. 39: 164-171, illus.
H. cinereus, *H. sulcii*.
- 1935 NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE. (10^e NOTE). ÉTUDE D'UNE ESPÈCE NOUVELLE CONSTITUANT UN GENRE NOUVEAU. Soc. Ent. de France Bul. 39 (1934): 291-296, illus.
Rhodania porifera.
- 1935a NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE. (11^e NOTE). DIX ESPÈCES NOUVELLES POUR LA FRANCE ET REMARQUES SUR LE GENRE ANTONINA SIGN. Soc. Ent. de France Bul. 40: 92-96.
Records 10 coccids as new for France; discusses characteristics and relationships of 3 *Antonina* species.
- 1935b NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (12^e NOTE). ÉTUDE D'UNE EHRHORNIA NOUVELLE. Soc. Ent. de France Bul. 40: 254-259, illus.
E. fodiens.
- 1936 NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (13^e NOTE). ÉTUDE D'UNE DEUXIÈME RHODANIA NOUVELLE. Soc. Ent. de France Bul. 41: 35-40, illus.
R. flava.
- 1936a NOTES SUR LES COCCIDES [HEM. COCCIDAE] DE LA FRANCE (14^e NOTE). DEUX ERIOCOCCUS NOUVEAU DES ENVIRONS DE MARSEILLE. Soc. Zool. de France Bul. 61: 344-356, illus.
E. cistacearum, *E. juniperi*.
- 1936b NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE. (15^e NOTE). REMARQUES SUR LES ERIOCOCCUS DU GROUPE E. THYMI (SCHRANK) AVEC DESCRIPTION D'UNE ESPÈCE NOUVELLE. Soc. Ent. de France Bul. 41: 294-299, illus.
E. helichrysi n. sp.; comment on 4 other *Eriococcus*.

Goux, L.—Continued.

- 1937 NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (16^e NOTE). ÉTUDE D'UNE DIASPINE NOUVELLE DU GENRE POLIASPIDOIDES [I. E. POLIASPOIDES] NOUVEAU POUR LA RÉGION HOLARCTIQUE. Soc. Ent. de France Bul. 42: 35-42, illus.
P. massiliensis.
- 1937a NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (18^e NOTE). SIX ESPÈCES NOUVELLES POUR LA FRANCE ET REMARQUES SUR LES GENRES LECANOPSIS, EXAERETOPUS ET LUZULASPIS. Soc. Ent. de France Bul. 42: 93-96, illus.
- 1937b NOTES SUR LES COCCIDES [HEM. COCCIDAE] DE LA FRANCE. (17^e NOTE). CONTRIBUTION À LA CONNAISSANCE DES PHENOCOCCUS [I. E. PHENACOCCUS] DU GROUPE P. CYCLIGER (LEON.) AVEC ÉTUDE DE DEUX ESPÈCES NOUVELLES. Soc. Zool. de France Bul. 62: 221-236, illus.
P. parvicerarius, *P. globulariae* n. spp.; comment on 6 other *Phenacoccus*.
- 1937c NOTES SUR LES COCCIDES [HEM. COCCIDAE] DE LA FRANCE. (19^e NOTE). ÉTUDE D'UN RHIZASPIDIOTUS ET D'UN ASPIDIOTUS NOUVEAUX. Soc. Zool. de France Bul. 62: 341-349, illus.
Rhizaspidiotus bivalvatus, *Aspidiotus ericarum*.
- 1937d NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (20^e NOTE). DIASPINE NOUVELLE CONSTITUANT UN GENRE NOUVEAU. Soc. Ent. de France Bul. 42: 229-231, illus.
Duplaspis fraxini n. gen. and sp.
- 1937e NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE. (21^e NOTE). DESCRIPTION D'UN PHENACOCCUS NOUVEAU GRAMINICOLE ET REMARQUES SUR QUELQUES ESPÈCES DÉCRITES ANTÉRIEUREMENT. Soc. Ent. de France Bul. 42: 253-256, illus.
P. (Heterococcus?) biporus n. sp.; notes on 3 other unrelated coccids.
- 1938 NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (22^e NOTE). DESCRIPTION DE DEUX PSEUDOCOCCINES NOUVELLES. Soc. Zool. de France, Bul. 62: 451-458, illus.
Phenacoccus phyllobius, *Pedronia spinigera*.
- 1938a NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (23^e NOTE). DESCRIPTION D'UN TRIONYMUS NOUVEAU. Soc. Linn. de Lyon, Bul. Mens. 7: 166-169, illus.
T. aberrans.
- 1938b NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE (24^e NOTE). ÉTUDE D'UN PHENACOCCUS INÉDIT DE PROVENCE ET DE CORSE. Soc. Ent. de France Bul. 43: 143-149, illus.
P. parietaricola n. sp.
- 1938c ÉTUDE MORPHOLOGIQUE ET BIOLOGIQUE DE DEUX MARGARODIDAE (HEM.) NOUVEAUX. (NOTES SUR LES COCCIDES (HEM.) DE LA FRANCE (25^e NOTE). Soc. d'Hist. Nat. de l'Afrique du Nord 29: 466-475, illus.
Kuwania rubra, *Margarodes buxtoni crithmi*.
- 1938d NOTES SUR LES COCCIDES [HEM.] DE LA FRANCE. (26^e NOTE). ÉTUDE D'UN ERIOCOCCUS NOUVEAU ET DE SES VARIATIONS. Soc. Zool. de France Bul. 63: 327-337, illus.
E. acutus n. sp., *E. a. echinatus* n. subsp.
- 1938e DESCRIPTION D'UNE RIPERSIA [HEM. COCCIDAE] NOUVELLE DU MAROC. Soc. des Sci. Nat. du Maroc Bul. 18: 199-201, illus.
R. bouhelieri.
- 1939 NOTES SUR LES COCCIDES (HEM. COCCIDAE) DE LA FRANCE. (27^e NOTE). CONTRIBUTION À LA CONNAISSANCE DES LUZULASPIS AVEC DESCRIPTION DE DEUX ESPÈCES NOUVELLES. Soc. Linn. de Provence Bul. 12 (1938): 63-76, illus.
L. (Exaeretopus) intermedius, *L. (E.) latus*, n. spp.

Goux, L.—Continued.

- 1940 REMARQUES SUR LE GENRE RIPERSIA SIGN. ET DESCRIPTION D'UNE RIPERSIA ET D'UN ERIOCOCCUS NOUVEAUX (HEM. COCCIDAE). (NOTES SUR LES COCCIDES DE LA FRANCE 28^e NOTE.) Soc. d'Hist. Nat. l'Afrique du Nord, Bul. 31: 55-65, illus.
Brevennia, *Cintococcus*, and *Lacombia*, all n. subg. of *Ripersia*; *Ripersia* (*Brevennia*) *tetrapora*, *Eriococcus variabilis*, n. spp.
- 1941 CONTRIBUTION A L'ÉTUDE D'UN FAISCEAU D'ESPÈCES CONSTITUANT UN SOUS-GENRE NOUVEAU DU GENRE PSEUDOCOCCUS (HEM. COCCIDAE). (NOTES SUR LES COCCIDES (HEM.) DE LA FRANCE, 29^{me} NOTE). Mus. d'Hist. Nat. Marseille Bul. [n. v. (v. 1?)] (1): 66-83, illus.
Atrococcus n. gen., *A. melanovirens*, *A. suaedae*, *A. labiatarum*, *A. ater*, n. spp.; other inclusions discussed.
- 1941a NOTES SUR LES TRIONYMUS DE LA FRANCE ET SUR QUELQUES ESPÈCES NOUVELLES POUR LA FAUNE FRANÇAISE (HEM. COCCIDAE) (NOTES SUR LES COCCIDES (HEM. COCCIDAE) DE LA FRANCE (30^e NOTE)). Soc. d'Hist. Nat. Afrique du Nord Bul. 32: 31-44, illus.
Describes 2 new species, 5 new subspecies; notes on 9 other coccids; proposes *Metadenopus festuceli* Sulc. nom. nov. for *M. festucae* Sulc.
- 1941b DESCRIPTION D'UN RHIZOECUS NOUVEAU ET DE SA LARVE NÉONATE (!). (NOTE SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE. 31^{me} NOTE.) Mus. d'Hist. Nat. Marseille Bul. [n. v. (v. 1?)] (3): 197-203, illus.
Pararhizoecus n. subg., *Rhizoecus* (*Pararhizoecus*) *petiti* n. sp.
- 1942 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE. (32^{me} NOTE). DESCRIPTION D'UN PHENACOCCUS ET D'UN RHIZOECUS NOUVEAUX. Mus. d'Hist. Nat. Marseille Bul. 2: 33-45, illus.
Phenacoccus asphodeli, *Rhizoecus albidus*.
- 1943 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE (33^{me} NOTE). NOUVELLE CONTRIBUTION À L'ÉTUDE DES PARARHIZOECUS AVEC DESCRIPTION DE DEUX ESPÈCES NOUVELLES ET DE LEUR LARVE NÉONATE. Mus. d'Hist. Nat. Marseille Bul. [n. v. (v. 3?)] (2-3): 41-55, illus.
P. brevipes, *P. ovoides*, n. spp.; *Pararhizoecus* defined and groups of species indicated.
- 1943a SUR LES MÉTAMORPHOSES ET LE DIMORPHISME DES MALES ET DES FEMELLES CHEZ LES MARGARODES (HEM. COCCOIDEA). Soc. de Biol. [Paris] Compt. Rend. 137: 465-466.
- 1943b HIVERNATION ET DIAPAUSE HIVERNALE CHEZ LES COCCIDES DE LA FAUNE FRANÇAISE (HEM. COCCOIDEA), ET REMARQUES SUR LE DÉTERMINISME DE LA DIAPAUSE. Mus. d'Hist. Nat. Marseille, Bul. 3: 126-145.
Numerous coccids mentioned in discussion.
- 1944 CONTRIBUTION A L'ÉTUDE DE LA BIOLOGIE DES ERIOCOCCUS (HEM. COCCIDAE). RÉGIME, SPÉCIFICITÉ ALIMENTAIRE ET RACES BIOLOGIQUES. Mus. d'Hist. Nat. Marseille, Bul. 4: 135-152.
About 35 *Eriococcus* mentioned in discussion.
- 1945 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE (34^{me} NOTE). DESCRIPTION D'UN TRIONYMUS NOUVEAU ET DE SA LARVE NÉONATE ET REMARQUES SUR QUELQUES ESPÈCES NOUVELLES POUR LA FAUNE FRANÇAISE. Mus. d'Hist. Nat. Marseille. Bul. [n. v. (v. 5?)] (1-2): 30-38.
Volvicoccus n. subg.; *T. (V.) volvifer* n. sp., *Ripersia exul allosiana* n. subsp.; other coccids mentioned.
- 1946 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE (35^{me} NOTE). EXISTENCE EN FRANCE DU GENRE ECHINOCOCCUS AVEC DESCRIPTION D'UNE ESPÈCE NOUVELLE ET REMARQUES SUR QUELQUES ESPÈCES PEU CONNUES. Mus. d'Hist. Nat. Marseille Bul. 6: 26-33, illus.
E. splendens n. sp.; 3 other coccids discussed.

GOUX, L.—Continued.

- 1946a LE PROBLÈME DE L'ESPÈCE CHEZ LES COCCIDES (HEM. COCCOIDEA). LES ESPÈCES NAISSANTES OU JOINTIVES CONSTITUANT LE FAISCEAU DE MARGARODES BUXTONI NEWST. (NOTES SUR LES COCCIDES DE LA FRANCE (36^e NOTE).) Mus. d'Hist. Nat. Marseille Bul. [n. v. (v. 6?)] (3-4): 89-97.
M. buxtoni madraguensis n. subsp.; general discussion of the subspecies of *buxtoni*.
- 1946b LES AFFINITÉS RÉELLES DES COCHENILLES DU GENRE KERMOCOCCUS DÉMONTRÉES PAR L'ÉTUDE DU DÉVELOPPEMENT POST-EMBRYONNAIRE. Mus. d'Hist. Nat. Marseille Bul. [n. v. (v. 6?)] (3-4): 98-101.
Discusses relations of the oak kermes-associates with *Eriococcus*.
- 1948 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE. (37^{me} NOTE). ÉTUDE D'UN ERIOCOCCUS NOUVEAU DE CAMARGUE. Mus. d'Hist. Nat. de Marseille, Bul. 8: 5-16, illus.
E. parvispinus n. sp. [preoccupied].
- 1948a LES CARACTÈRES SPÉCIFIQUES CHEZ LES ERIOCOCCUS ET LA SIGNIFICATION DES MICROFILIERES TUBULAIRES (NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE (39^{me} NOTE).) Soc. Linn. de Provence Bul. 16: 66-69, illus.
Recognizes 4 groups in *Eriococcus* based on differences in the microtubular ducts.
- 1948b NOTES SUR LES COCCIDES (HEM.) DE LA FRANCE (38^{me} NOTE). DEUX PHENACOCCUS NOUVEAUX POUR LA FRANCE AVEC ÉTUDE DE LEUR LARVE NÉONATE ET REMARQUES SUR LES PORPHYROPHORA DU BASSIN MÉDITERRANÉEN. Soc. Linn. de Lyon, Bul. Mens. 17: 182-185, illus.
Descriptive notes for *Phenacoccus inermis* Hall and *P. latus* Kir.; remarks on Mediterranean *Porphyrophora*.
- 1949 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE. (40^{me} NOTE). ÉTUDE D'UN QUADRASPIDIOTUS NOUVEAU PARASITE DE L'OLIVIER ET REMARQUES SUR UNE ESPÈCE NOUVELLE POUR LA FAUNE FRANÇAISE. Soc. Linn. de Provence Bul. 17: 27-32, illus.
Q. perieri n. sp.; *Luzulaspis frontalis* new to France.
- 1951 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE (41^e NOTE); ÉTUDE D'UN DIASPIDIOTUS NOUVEAU DES ENVIRONS DE MARSEILLE. Soc. Ent. de France Bul. 56: 10-14, illus.
D. convexus.
- 1953 NOTES SUR LES COCCIDES (HEM. COCCOIDEA) DE LA FRANCE (42^{me} NOTE). ÉTUDE D'UN HELIOCOCCUS NOUVEAU. Soc. Linn. de Lyon, Bul. Mens. 22: 104-109, illus.
H. marginalis; comment on other *Heliococcus* species.

GOWDEY, C. C.

- 1917 A LIST OF UGANDA COCCIDAE, THEIR FOOD-PLANTS AND NATURAL ENEMIES. Bul. Ent. Res. 8: 187-189.
Lists 72 coccids with associated host data.
- 1921 THE COCCIDAE OF JAMAICA. Jamaica Dept. Agr. Ent. Bul. 1, 46 p.
Descriptive list of 84 coccids with host data.
- 1926 CATALOGUS INSECTORUM JAMAICENSIS. Jamaica Dept. Agr. Ent. Bul. 4(1): 114(42-50).
Lists 89 coccids in 36 genera.
- 1928 CATALOGUS INSECTORUM JAMAICENSIS. Jamaica Dept. Agr., Ent. Bul. 4(3), 45 p. (5).
Asterolecanium epidendri, *Cryptostigma inquilans* [sic], *Fiorinia proboscidiaria* added to Jamaica list.

GRAAF, H. W. DE, SIX, G. A., and VOLLENHOVEN, S. C. SNELLEN VAN

- 1862 TWEDE NAAMLIJST VAN INLANDSCHE HEMIPTERA. Tijdschr. v. Ent. 5: 72-96 (93-94).
Lists 10 coccids, including *Lecanium rosarum* described as new by Vollenhoven.

GRAHAM, K., and PREBBLE, M. L.

- 1953 STUDIES OF THE LECANIUM SCALE, EULECANIUM CORYLI (1.), AND ITS PARASITE, BLASTOTHRIX SERICEA (DALM.), IN BRITISH COLUMBIA. *Canad. Ent.* 85: 153-181, illus.
Detailed life history of this coccid in B. C.

GRANDPRE, A., DARUTY DE, and CHARMOY, D. D'EMMEREZ DE

- 1899 LIST RAISONNÉE DES ESPÈCES MAURICIENNES [OF COCCIDS]. *Soc. Amicale Sci. Pub. Maurice, The Planters and Commercial Gazette*, p. 20-49, illus. (See Mamet 1953a, p. 149, for conclusion on authorship of this paper, which is here accepted). Critical review by T. D. A. Cockerell in *Amer. Nat.* 33: 899-901, 1899.
Describes 51 coccids in 15 genera, including 5 new species and 3 new varieties.

GRANOVSKY, A. A.

- 1929 PRELIMINARY STUDIES OF THE INTRACELLULAR SYMBIONTS OF SAISSETIA OLEAE (BERNARD). *Wis. Acad. Sci., Arts, Letters, Trans.* 24: 445-456.

GRAY, J. E.

- 1828 SPICILEGIA ZOOLOGICA; OR ORIGINAL FIGURES AND SHORT SYSTEMATIC DESCRIPTIONS OF NEW AND UNFIGURED ANIMALS. Pt. I. London, Treüttel, Würtz and Co. 12 p. (7), illus.
Describes *Ceroplastes* n. subg. of *Coccus*, *Coccus chilensis*, *C. janeirensis* n. spp.

GREEN, E. E.

- 1886 OBSERVATIONS ON THE GREEN SCALE BUG IN CONNECTION WITH THE CULTIVATION OF COFFEE. *Eton, Pundalu-oya*, 4 p., illus. (col.). Reprinted in *Indian Mus. Notes* 1: 116-122, 1889.
Notes on *Lecanium nigrum*, *L. coffeae*, and *L. viride*.
- 1889 DESCRIPTIONS OF TWO NEW SPECIES OF LECANIUM FROM CEYLON. *Ent. Monthly Mag.* 25: 248-250, illus.
L. viride, *L. mangiferae*.
- 1895 NOTES ON COCCIDS FROM KENT. *Ent. Monthly Mag.* 31: 229-233, illus.
Descriptive notes on 4 species previously described and on mimicry of coccid scale by a leaf miner.
- 1896 CATALOGUE OF COCCIDAE COLLECTED IN CEYLON. *Indian Mus. Notes* 4 (1896-1900): 2-10.
Lists 72 coccids, 48 as new species or new varieties, with very brief descriptions.
- 1896a ON AN INTERMEDIATE "AONIDIFORM" STAGE IN ASPIDIOTUS. *Ent. Monthly Mag.* 32: 84, illus.
Aspidiotus secretus used as an example.
- 1896b ON THE GROUPED ABDOMINAL GLANDS OF THE DIASPINAE. *Ent. Monthly Mag.* 32: 85-86.
- 1896c NEW INDIAN COCCIDS. *Ent. Monthly Mag.* 32: 199-201, illus.
Aspidiotus moorei, *A. artocarpi*.
- 1896d A NEW BRITISH COCCID. *Ent. Rec. and Jour. Variation* 8: 260-261, illus.
Rhizococcus (?) *devoniensis*.
- 1896e THE COCCIDAE OF CEYLON. PART I. p. i-xi, 1-103, illus. (col.). London, Dulau.
Introductory; key to 11 subfamilies; descriptions of Conchaspinae (1 species) and Diaspinae (in part) (29 species), with keys to 12 diaspine genera and 29 species, 10 new.
- 1897 NOTES ON COCCIDAE FROM THE ROYAL GARDENS, KEW. [with additions by R. Newstead.] *Ent. Monthly Mag.* 33: 68-77, illus.
Collection and descriptive notes on 16 coccids.

GREEN, E. E.—Continued.

- 1899 DESCRIPTION OF A NEW SCALE INSECT OF THE GENUS WALKERIANA. Ann. and Mag. Nat. Hist. (ser. 7) 3: 45-47, illus.
W. andreae.
- 1899a THE COCCIDAE OF CEYLON, PART II. p. xiii-xli, 105-169, illus. (col.).
London, Dulau.
Coccid control; descriptions of Diaspinae (cont.) (29 species); keys to 26 *Chionaspis*, 3 *Parlatoria*; 20 new species.
- 1899b OBSERVATIONS ON SOME SPECIES OF COCCIDAE OF THE GENUS CEROPLASTES IN THE COLLECTION OF THE BRITISH MUSEUM. Ann. and Mag. Nat. Hist. (ser. 7) 4: 188-192, illus.
Ceroplastes africanus n. sp. and *C. a. cristatus* n. var.; notes on the identity of 4 older species.
- 1899c OBSERVATIONS ON ASPIDIOTUS LATANIAE, SIGN. Ent. Monthly Mag. 35: 181-183, illus.
Establishes identity of true *A. lataniae* Sign.
- 1899d ON A NEW TEA PEST FROM INDIA. Ent. Monthly Mag. 35: 225-226, illus.
Cerococcus ficoides.
- 1900 NOTE ON CEROPLASTES AFRICANUS (FAMILY COCCIDAE). Ann. and Mag. Nat. Hist. (ser. 7) 5: 158-159.
Reports *C. a.* var. *cristatus* Green is *C. egbarum* Ckll.
- 1900a SUPPLEMENTARY NOTES ON THE COCCIDAE OF CEYLON. Bombay Nat. Hist. Soc. Jour. 13: 66-76, 252-257, illus.
Describes 10 new coccids; descriptive or other notes on 17 other coccids.
- 1900b DESCRIPTIONS OF NEW VICTORIAN COCCIDAE. Victorian Nat. 17: 9-14, illus.
Mytilaspis bicornis Green and Lidgett, *Fiorinia lidgetti*, *Eriochiton* (?) *melaleuca*, *Dactylopius australiensis* [Green and Lidgett].
- 1900c REMARKS ON INDIAN SCALE INSECTS (COCCIDAE), WITH DESCRIPTIONS OF NEW SPECIES. PT. I. Indian Mus. Notes 5: 1-13, illus.
Discusses 15 coccids, including 3 described as new; check list of 37 Indian coccids.
- 1900d DESCRIPTION OF A NEW SPECIES OF RIPERSIA DESTRUCTIVE TO SUGAR-CANE. Indian Mus. Notes 5: 37-38, illus.
R. sacchari.
- 1900e DESCRIPTIONS OF SOME SPECIES OF COCCIDAE COLLECTED BY MR. JAMES LIDGETT IN VICTORIA, AUSTRALIA. Ann. and Mag. Nat. Hist. (ser. 7) 6: 448-452, illus.
Mytilaspis indentata, *Ctenochiton* (?) *araucariae* n. spp.; *Birchippia anomala*, n. gen. and sp.
- 1901 ON SOME NEW SPECIES OF COCCIDAE FROM AUSTRALIA, COLLECTED BY W. W. FROGGATT, F. L. S. Linn. Soc. N. S. Wales, Proc. 25 (1900): 559-562, illus.
Antecerococcus n. gen., *A. punctiferus*, *Rhizococcus viridis*, n. spp.
- 1901a NOTE ON THE GENUS LECANIODIASPIS, TARG. Ent. Monthly Mag. 37: 293-295, illus.
Notes synonymy of *Prosopophora* and *Birchippia* with this genus; redescribes *L. dendrobii*.
- 1902 NOTES ON A SINGULAR COCCID FROM VICTORIA. Victorian Nat. 19: 95-96.
Similar note in Ent. Monthly Mag. 38: 284-285.
Orthezia floccosa reported.
- 1902a MORPHOLOGICAL INTERPRETATION. Zoologist (ser. 4) 6: 437, illus.
Points out error by Distant in crediting male coccids with up to 25 antennal segments instead of maximum of 10.

GREEN, E. E.—Continued.

- 1902b THREE NEW GENERA OF COCCIDAE FROM CEYLON. Ent. Monthly Mag. 38: 260-263, illus.
Anomalococcus cremastogastris, *Amorphococcus mesuae*, *Geococcus radicum*, all n. gen. and n. spp.
- 1903 DESCRIPTION OF A NEW COCCID. Indian Mus. Notes 5: 63, illus.
Chionaspis decurvata.
- 1903a REMARKS ON INDIAN SCALE INSECTS (COCCIDAE). WITH DESCRIPTIONS OF NEW SPECIES. PT. II. Indian Mus. Notes 5: 93-103, illus.
Discusses 16 species, including 6 described as new.
- 1904 DESCRIPTIONS OF SOME NEW VICTORIAN COCCIDAE. Victorian Nat. 21: 65-69, illus.
Aspidiotus immaculatus, *A. subfervens*, *Chionaspis angusta*, *Ctenochiton serratus*, *Eriococcus sordidus*; tabular review of 30 Australian *Eriococcus*.
- 1904a ON SOME JAVANESE COCCIDAE: WITH DESCRIPTIONS OF NEW SPECIES. Ent. Monthly Mag. 40: 204-210, illus. (Cont.)
Describes 4 new species, 3 new varieties; collection notes on 20 other coccids.
- 1904b ON SOME COCCIDAE IN THE COLLECTION OF THE BRITISH MUSEUM. Ann. and Mag. Nat. Hist. (ser. 7) 14: 373-378, illus.
Descriptive notes on 5 Walker species.
- 1904c NOTES ON AUSTRALIAN COCCIDAE, EX COLL. W. W. FROGGATT, WITH DESCRIPTIONS OF NEW SPECIES. NO. I. Linn. Soc. N. S. Wales Proc. 29: 462-465, illus.
Chionaspis formosa, *Antonina australis* n. spp.; brief note on *Mytilaspis spinifera*.
- 1904d THE COCCIDAE OF CEYLON.—PT. III. p. 171-249, illus. (col.). London, Dulau.
Lecaniinae, including key to 29 genera; descriptions of *Lecanium* sens. lat. with key to 33 species; 14 new species, 1 new variety.
- 1905 ON SOME JAVANESE COCCIDAE: WITH DESCRIPTIONS OF NEW SPECIES. Ent. Monthly Mag. 41: 28-33, illus. (Concl.)
Describes 4 new species; presents collection notes on 10 other coccids.
- 1905a SUPPLEMENTARY NOTES ON THE COCCIDAE OF CEYLON. Bombay Nat. Hist. Soc. Jour. 16: 340-357, illus. (Cont.)
Describes 17 new species, 3 new varieties; 10 other coccids discussed.
- 1905b SOME NEW VICTORIAN COCCIDAE. Victorian Nat. 22: 3-8, illus.
Describes 6 new species, 2 new varieties.
- 1906 FORMALIN AS A REAGENT IN THE PREPARATION OF SOME SOFT-BODIED COCCIDAE. Ent. Monthly Mag. 42: 129-130.
Suggests use of formalin to bring out areolations in dorsal derm of Lecaniinae.
- 1907 XII.—NOTES ON THE COCCIDAE COLLECTED BY THE PERCY SLADEN TRUST EXPEDITION TO THE INDIAN OCEAN: SUPPLEMENTED BY A COLLECTION RECEIVED FROM MR. R. DUPONT, DIRECTOR OF AGRICULTURE, SEYCHELLES. Linn. Soc. London, Trans., Zool. 12: 197-207, illus.
Catalog of 62 coccids known from area, including 5 new species.
- 1908 NOTE ON THE GENUS ANTECEROCOCCUS, GREEN. Ent. Monthly Mag. 44: 41-42.
Believes genus must be considered a synonym of *Cerococcus*, as is *Cerococcus* Scott.
- 1908a REMARKS ON INDIAN SCALE INSECTS (COCCIDAE), PART III. WITH A CATALOGUE OF ALL SPECIES HITHERTO RECORDED FROM THE INDIAN CONTINENT. India Dept. Agr. Mem., Ent. Ser. 2: 15-46, illus.
Lefroyia n. gen.; 22 new species or varieties, collection notes on 40 other coccids; catalog of 102 Indian coccids.

GREEN, E. E.—Continued.

- 1909 ON A NEW SPECIES OF KERMES DESTRUCTIVE TO OAK TREES IN NORTH INDIA. *Ent. Monthly Mag.* 45: 10-12, illus.
K. himalayensis.
- 1909a THE COCCIDAE OF CEYLON.—IV., p. 250 (insert)—344, illus., (col.). London, Dulau.
Lecaniinae (concl.) (19 species in 9 genera with keys); Asterolecaniinae, including key to 6 genera (25 species in 6 genera with keys); 17 new species, 1 new variety.
- 1910 ON SOME COCCID PESTS OF ECONOMIC IMPORTANCE. *Jour. Econ. Biol.* 5: 1-8, illus.
Asterolecanium pustulans seychellarum, n. var., *Cerococcus indicus* n. sp.; 3 other coccids discussed.
- 1910a REMARKS ON COCCIDAE FROM UGANDA. *Bul. Ent. Res.* 1: 201-202.
Comment on *Stictococcus dimorphus* and a misidentification of *Aspidiotus transparentis*.
- 1911 ON SOME COCCIDAE AFFECTING RUBBER TREES IN CEYLON, WITH DESCRIPTIONS OF NEW SPECIES. *Jour. Econ. Biol.* 6: 27-37, illus.
Inglisia castilloae, *Mytilaspis fasciata*, *Tachardia albizziae*, *Dactylopius crotonis*, n. spp.; 5 other coccids listed.
- 1911a ON A COCCID NEW TO GREAT BRITAIN: WITH NOTES ON ALLIED SPECIES. *Ent. Monthly Mag.* 22: 179-182, illus.
Ortheziola vej dovskyi redescribed; 2 other ortheziine coccids mentioned.
- 1912 V. NOTES ON THE COLLECTION OF COCCIDAE IN THE INDIAN MUSEUM (CALCUTTA). I.—THE GENUS MARGARODES. *Indian Museum Rec.* 7: 65-76, illus.
M. indicus, *M. papillosus*, *M. niger*, n. spp.; comment on other species and on genus.
- 1912a ON THE CULTIVATED AND WILD FORMS OF COCHINEAL INSECTS. *Jour. Econ. Biol.* 7: 79-93, illus.
Coccus confusus capensis n. sp. described; the other 6 recognized forms redescribed; key.
- 1913 REMARKS ON COCCIDAE COLLECTED BY MR. EDWARD JACOBSON, OF SAMARANG, JAVA, WITH DESCRIPTIONS OF TWO NEW SPECIES. *Tijdschr. v. Ent.* 55 (1912): 311-318, illus.
Notes on 8 species, including descriptions of *Lecanium opimum* and *Icerya jacobsoni*, n. spp.
- 1913a I.—NOTES ON THE COLLECTION OF COCCIDAE IN THE INDIAN MUSEUM. II.—FURTHER OBSERVATIONS ON THE GENUS MARGARODES. *Indian Mus. Rec.* 9: 1-9, illus.
Extended descriptive notes on *Margarodes papillosus* and *M. niger*.
- 1914 ON THE PREPARATION OF COCCIDAE FOR MICROSCOPICAL STUDY. *Ann. Appl. Biol.* 1: 98-106.
Full outline of procedures followed by author.
- 1914a ERNST HARTERT'S EXPEDITION TO THE CENTRAL WESTERN SAHARA. XIX.—RHYNCHOTA. ON A REMARKABLE COCCID, WITH BRANCHED ANTENNAE, FROM THE SAHARA. *Novitates Zool.* 21: 263-264, illus.
Neomargarodes erythrocephala n. gen. and sp.
- 1914b A NEW BRITISH COCCID (KUWANIA BRITANNICA). *Ent. Monthly Mag.* 50: 197-199, illus.
- 1914c REMARKS ON A SMALL COLLECTION OF COCCIDAE FROM NORTHERN AUSTRALIA. *Bul. Ent. Res.* 5: 231-234, illus.
Lecanium pseudexpansum n. sp.; collection or descriptive notes on 10 other coccids.
- 1915 SOME REMARKS ON THE COCCID GENUS LEUCASPIS, WITH DESCRIPTIONS OF TWO NEW SPECIES. *Ent. Soc. London, Trans.* 1914: 459-468, illus.
Discusses species that have been included in genus. Lists 17 considered valid, including *L. perezii* and *L. salicis*, n. spp.

GREEN, E. E.—Continued.

- 1915a OBSERVATIONS ON BRITISH COCCIDAE IN 1914, WITH DESCRIPTIONS OF NEW SPECIES. *Ent. Monthly Mag.* 51: 175-185, illus.
Notes on 22 coccids, including descriptions of 3 new species.
- 1915b ON A NEW SPECIES OF LECANIUM FROM NORTHERN NIGERIA. *Bul. Ent. Res.* 6: 43, illus.
L. catori.
- 1915c NOTES ON COCCIDAE COLLECTED BY F. P. JEPSON, GOVERNMENT ENTOMOLOGIST, FIJI. *Bul. Ent. Res.* 6: 44.
A list of 11 coccids with host data.
- 1915d NEW SPECIES OF COCCIDAE FROM AUSTRALIA. *Bul. Ent. Res.* 6: 45-53, illus.
Describes 9 new species, 2 new varieties, 1 new subspecies.
- 1916 ON TWO NEW BRITISH COCCIDAE, WITH NOTES ON SOME OTHER BRITISH SPECIES. *Ent. Monthly Mag.* 52: 23-31, illus.
Parafaimairia gracilis, *Lecanopsis longicornis*; notes on 11 other coccids.
- 1916a REPORT ON SOME COCCIDAE FROM ZANZIBAR, COLLECTED BY DR. W. M. ADERS. *Bul. Ent. Res.* 6: 375-376.
List of 21 coccids with collection data.
- 1916b ON A NEW COCCID PEST OF CACAO FROM TRINIDAD. *Bul. Ent. Res.* 6: 377-379, illus.
Philephedra theobromae n. sp. (= *Philephedra* [described as *Pulvinaria*] *broadwayi* (Ckll.))
- 1916c ON A COCCID INJURIOUS TO PINE TREES IN THE HIMALAYAS. *Bul. Ent. Res.* 6: 395-397, illus.
Ripersia resinophila n. sp.
- 1916d OBSERVATIONS ON SOME RECENTLY DESCRIBED COCCIDAE. *Bul. Ent. Res.* 7: 51-52.
Critical notes on 7 coccids.
- 1916e REMARKS ON COCCIDAE FROM NORTHERN AUSTRALIA—II. *Bul. Ent. Res.* 7: 53-65.
Discusses 20 coccids, including 9 new species, 1 new variety, *Porogymnaspis* n. gen.
- 1916f NOTES ON COCCIDAE OCCURRING IN THE SEYCHELLES ISLANDS, WITH DESCRIPTIONS OF NEW SPECIES. *Bul. Ent. Res.* 7: 193-196, illus.
Describes 3 new diaspid coccids; collection records for 8 others.
- 1917 A LIST OF COCCIDAE AFFECTING VARIOUS GENERA OF PLANTS. (Cont.) *Ann. Appl. Biol.* 4: 75-89.
Plant genera A through C with names of associated coccids; an occasional manuscript name.
- 1917a OBSERVATIONS ON BRITISH COCCIDAE; WITH DESCRIPTIONS OF NEW SPECIES. *Ent. Monthly Mag.* 53: 201-210, 260-264, 265-269.
Describes 2 new species, 1 new variety; notes on 10 other coccids.
- 1918 A LIST OF COCCIDAE AFFECTING VARIOUS GENERA OF PLANTS. (Cont.) *Ann. Appl. Biol.* 4: 228-239; 5: 143-156.
Plant genera D through P with names of associated coccids; an occasional manuscript name.
- 1918a SOME REMARKS ON MR. KUNHI KANNAN'S PAPER, "AN INSTANCE OF MUTATION." *Ent. Soc. London, Trans.* 1918: 149-154, illus.
Questions conclusions on mutation advanced by Kunhi Kannan.
- 1919 A LIST OF COCCIDAE AFFECTING VARIOUS GENERA OF PLANTS. (Concl.) *Ann. Appl. Biol.* 5: 261-272.
Plant genera Q through Z; an occasional manuscript name.
- 1919a ON A NEW SPECIES OF ANTONINA (COCCIDAE) FROM CEYLON. *Ent. Monthly Mag.* 55: 175-176, illus.
A. zonata.

GREEN, E. E.—Continued.

- 1919b ON A NEW GENUS AND SPECIES OF COCCIDAE FROM NORTH-WESTERN INDIA AND EASTERN PERSIA. *Indian Mus. Rec.* 18: 117-119, illus.
Naiacoccus serpentinus n. gen. and sp., *N. s. minor* n. var.
- 1919c NOTES ON INDIAN COCCIDAE OF THE SUBFAMILY DIASPIDINAE, WITH DESCRIPTIONS OF NEW SPECIES. *Indian Mus. Rec.* 16: 433-449, illus.
Describes 19 new species; descriptive or collection notes on 33 other coccids.
- 1920 OBSERVATIONS ON BRITISH COCCIDAE. NO. V. *Ent. Monthly Mag.* 56: 114-130, illus.
Poliaspis gaultheriae n. sp.; 27 other coccids discussed.
- 1921 OBSERVATIONS ON BRITISH COCCIDAE, WITH DESCRIPTIONS OF NEW SPECIES. NO. VI. *Ent. Monthly Mag.* 57: 146-152, 189-200, illus.
Describes 5 new species; 22 other coccids discussed.
- 1921a OBSERVATIONS ON BRITISH COCCIDAE: WITH DESCRIPTIONS OF NEW SPECIES.—VII. *Ent. Monthly Mag.* 57: 257-259, illus.
Lecanium lichenoides n. sp., *Ceroplastes floridensis japonicus* n. var.
Note on *C. ceriferus*. [= *pseudoceriferus* Green.]
- 1921b ON A NEW GENUS OF COCCIDAE FROM THE INDIAN REGION. *Ann. and Mag. Nat. Hist.* (ser. 9) 8: 639-644, illus.
Cribrolecanium n. gen., *C. formicarum*, *C. radicecola*, n. spp.
- 1922 THE COCCIDAE OF CEYLON. PART V. p. 345-472, illus. (col.) London, Dulau.
Descriptions of Eriococcinae (keys to 6 genera, 7 species); Dactylopiinae (keys to 27 genera; treats 35 coccids in 11 genera, with specific keys); Tachardiinae (key to 4 *Tachardia*); Ortheziinae (key to 4 genera; includes 1 species); Margarodinae (key to 9 genera; includes 1 species); Monophlebinae (key to 8 genera; includes 17 coccids with specific keys); volume contains 4 new genera, 26 new species, 1 new subspecies, 1 new variety; Appendix notes changes in earlier volumes and lists 77 Ceylon coccids described elsewhere.
- 1922a SUPPLEMENTARY NOTES ON THE COCCIDAE OF CEYLON. PART IV. *Bombay Nat. Hist. Soc. Jour.* 28: 1007-1037, illus. (Concl.)
Describes 38 new species, 4 new varieties; 1 n. name; notes on *Inglisia chelonoides* and genus *Cardiococcus*.
- 1923 ON A NEW SPECIES OF COCCOMYTIUS FROM EGYPT. *Egypt Min. Agr. Tech. and Sci. Serv. Bul.* 36: 63, illus.
Lepidosaphes (Coccomytilus) halli.
- 1923a ON A SMALL COLLECTION OF COCCIDAE FROM MESOPOTAMIA, WITH DESCRIPTION OF A NEW SPECIES. *Bul. Ent. Res.* 13: 469-470, illus.
Asterolecanium phoenicis n. sp.; 4 other coccids mentioned.
- 1923b OBSERVATIONS ON THE COCCIDAE OF THE MADEIRA ISLANDS. *Bul. Ent. Res.* 14: 87-99, illus.
Reports 46 coccids, including 6 new species and 1 new variety.
- 1923c ON THE TYPE OF MONOPHLEBUS (DROSICHA) CONTRAHENS (WALK.), WITH DESCRIPTION OF A NEW SPECIES FROM CEYLON. *Ann. and Mag. Nat. Hist.* (ser. 9) 12: 168-171, illus.
Monophlebus (Drosicha) phyllanthi n. sp.
- 1923d OBSERVATIONS ON BRITISH COCCIDAE.—VIII. *Ent. Monthly Mag.* 59: 211-218, illus.
Notes on 15 coccids, including descriptions of *Phenacoccus interruptus*, *Pseudococcus wistariae*, n. spp.
- 1923e NOTE ON GOSSYPARIA MANNIFERA HARDW. *Ann. and Mag. Nat. Hist.* (ser. 9) 12: 697-698.
Excludes this species from Coccoidea.
- 1924 ON THE NEED OF A MORE CAREFUL STUDY OF THE GENUS MONOPHLEBUS, IN INDIA. *Ent. Mtg.*, 5, Pusa, Rpt. of Proc. 1923, 336-338.
Discusses 6 species [actually of *Drosicha*]; key to 4.

GREEN, E. E.—Continued.

- 1924a ON THE MALES OF A SPECIES OF MONOPHLEBUS FROM THE PHILIPPINE ISLANDS. *Notulae Ent.* 4: 1-3, illus.
M. philippinensis n. sp. [Is *M. townsendi*].
- 1924b ON SOME NEW SPECIES OF COCCIDAE FROM VARIOUS SOURCES. *Bul. Ent. Res.* 15: 41-48, illus.
Describes 3 new *Alecanopsis*; key to 4 known species; describes 3 other new species; 1 new name.
- 1925 OBSERVATIONS ON BRITISH COCCIDAE.—IX. *Ent. Monthly Mag.* 61: 34-44, illus.
Describes 4 new species; notes on 7 other coccids.
- 1925a SYNONYMIC NOTE ON MONOPHLEBUS PHILIPPENSIS GREEN. *Notulae Ent.* 5: 31.
Synonym of *M. townsendi*.
- 1925b NOTES ON THE COCCIDAE OF GUERNSEY (CHANNEL ISLAND) WITH DESCRIPTIONS OF SOME NEW SPECIES. *Ann. and Mag. Nat. Hist.* (ser. 9) 16: 516-527, illus.
Catalog of 30 coccids, 3 described as new.
- 1926 ON SOME NEW GENERA AND SPECIES OF COCCIDAE. *Bul. Ent. Res.* 17: 55-65, illus.
Describes 6 new genera and species.
- 1926 OBSERVATIONS ON BRITISH COCCIDAE.—X. *Ent. Monthly Mag.* 62: 172-183, illus.
Describes 5 new species; notes on 6 other coccids; numerous additional collection records.
- 1927 A BRIEF REVIEW OF THE INDIGENOUS COCCIDAE OF THE BRITISH ISLANDS, WITH EMENDATIONS AND ADDITIONS. *Ent. Rec. and Jour. Variation* (n. ser.) 39 (12, sup.): (1)-(4). (Cont.)
Introductory discussion; comment on 10 diaspine coccids included in 4 genera and on *Lecanium persicae*. Revision of article published in 1923 (same title).
- 1927a NOTES ON THE COCCIDAE OF SCOTLAND. *Scot. Nat. No.* 163: 25-30; 164: 54-59.
Annotated list of 21 species.
- 1928 A BRIEF REVIEW OF THE INDIGENOUS COCCIDAE OF THE BRITISH ISLANDS, WITH EMENDATIONS AND ADDITIONS. *Ent. Rec. and Jour. Variation* (n. ser.) 40 (1, sup.): (5)-(8); (2, sup.): (9)-(12); (3, sup.): (13)-(14); illus.
Comment on 58 coccids assigned to 24 genera and 6 sub-families. Revision of article published in 1923 (same title).
- 1928a OBSERVATIONS ON BRITISH COCCIDAE.—XI. WITH DESCRIPTIONS OF NEW SPECIES. *Ent. Monthly Mag.* 64: 20-31, illus.
Describes 3 new species; descriptive and collection notes on several other coccids.
- 1928b NOTE ON THE SYNONYMY OF MYTILASPIS FLAVA, TARG., VAR. HAWAIENSIS MASK. *Ann. and Mag. Nat. Hist.* (ser. 10) 1: 152-153, illus.
Good species with *Lepidosaphes moorsi* a synonym.
- 1928c ON A RACIAL FORM OF ASPIDIOTUS LENTICULARIS, LINDGR. WITH SOME REMARKS UPON THE LEONARDI CLASSIFICATION OF THE ASPIDIOTI. *Ann. and Mag. Nat. Hist.* (ser. 10) 1: 374-376, illus.
A. lenticularis marocanus, n. var.
- 1928d FURTHER OBSERVATIONS ON BEESONIA DIPTEROCARPI GREEN. *Bul. Ent. Res.* 19: 205-207, illus.
Corrects misinterpretations of earlier article.
- 1929 SOME COCCIDAE COLLECTED BY DR. J. G. MYERS IN NEW ZEALAND. *Bul. Ent. Res.* 19: 369-389, illus.
Describes 9 new species, 2 new varieties, *Symeria* n. gen.; descriptive or collection notes on 33 other coccids.

GREEN, E. E.—Continued.

- 1930 OBSERVATIONS ON BRITISH COCCIDAE.—XII. Ent. Monthly Mag. 66: 9-17, illus.
Descriptive or other notes on 16 coccids.
- 1930a A NEW SPECIES OF PHENACOCCLUS (COCCIDAE) FROM THE EASTERN ALPS. Ann. and Mag. Nat. Hist. (ser. 10) 5: 320-322, illus.
P. tomlini.
- 1930b NOTES ON SOME COCCIDAE COLLECTED BY DR. JULIUS MELZER, AT SAO PAULO, BRAZIL. (RHYNCH.) Stettin Ent. Ztg. 91: 214-219, illus.
Melzeria horni n. gen. and sp., *Asterolecanium caudatum* n. sp., *Chrysomphalus paulistus* redescribed; 14 other coccids reported.
- 1930c FAUNA SUMATRENSIS (BIJDRAG NR. 65) COCCIDAE. Tijdschr. v. Ent. 73: 279-297, illus.
Collection notes for 26 species, including 9 described as new.
- 1931 NOTES ON SOME COCCIDAE FROM ICELAND. Ent. Tidskr. 52: 263-269, illus.
Eriococcus granulatus, *Phenacoccus venustus*, *Trionymus thulensis*, *T. incertus*, n. spp.
- 1931a OBSERVATIONS ON BRITISH COCCIDAE.—XIII. Ent. Monthly Mag. 67: 99-106, illus.
Rhizoecus mesembryanthemi n. sp.; notes on 11 other coccids.
- 1931b TWO NEW MEALYBUGS FROM INDIA. Ann. and Mag. Nat. Hist. (ser. 10) 7: 557-560, illus.
Ripersia oryzae, *Rhizoecus cynodontis*.
- 1932 A NOTE ON ICERYA AEGYPTIACA DOUGL. (COCCIDAE), AND SOME NEARLY RELATED SPECIES. Stylops 1: 31-33, illus.
I. zimmermanni n. sp. described; descriptive notes on 3 other *Iceryas*.
- 1933 NOTES ON SOME COCCIDAE FROM SURINAM, DUTCH GUIANA, WITH DESCRIPTIONS OF NEW SPECIES. Stylops 2: 49-58, illus.
Describes 9 new species and *Pseudorhizoecus* n. gen.; descriptive notes on 2 other coccids.
- 1934 ON A REMARKABLE NEW SPECIES OF THE GENUS LEUCASPIS. Soc. Roy. Ent. d'Egypte Bul. 18: 110-111, illus.
L. quadrispinosa.
- 1934a ON A NEW SPECIES OF TARGIONIA (COCCIDAE) FROM RUSSIA. Stylops 3: 95-96, illus.
T. slavonica.
- 1934b DESCRIPTION OF A NEW MEALY-BUG FROM THE SOLOMON ISLANDS. Ann. and Mag. Nat. Hist. (ser. 10) 13: 473-474, illus.
Pseudococcus leverii.
- 1934c NOTE ON A "MEALYBUG" WRONGFULLY ATTRIBUTED TO PSEUDOCOCCUS BROMELIAE, BOUCHÉ. Stylops 3: 162.
P. cannae, new name.
- 1934d OBSERVATIONS ON BRITISH COCCIDAE.—XIV. Ent. Monthly Mag. 70: 108-114, illus.
Descriptive and other notes on 12 coccids; list of 16 reported from Ireland.
- 1934e ON THE TYPE OF ANTONINA PURPUREA SIGN., WITH A DESCRIPTION OF A NEW SPECIES (A. SULCII) FROM MID-EUROPE (INSECTA, COCCIDAE). Zool. Soc. London, Proc. 1934 (Pt. 3): 509-511, illus.
- 1935 ON A SPECIES OF CEROPLASTES (HEM. COCCIDAE), HITHERTO CONFUSED WITH C. CERIFERUS ANDERS. Stylops 4: 180, illus.
C. pseudoceriferus n. sp.
- 1935a ON THREE NEW SPECIES OF CEROPLASTES, FROM SOUTH AMERICA. [BRAZIL AND URUGUAY.] Abr. über Morph. u Taxonom. Ent. 2: 272-275, illus.
C. parvus, *C. quadratus*, *C. immanis*.

GREEN, E. E.—Continued.

- 1937 AN ANNOTATED LIST OF THE COCCIDAE OF CEYLON, WITH EMENDATIONS AND ADDITIONS TO DATE. *Ceylon Jour. Sci., Sect. B., Zool. and Geol. Spolia Zeylanica* 20: 277-341.
A list of 327 coccids in 70 genera.

GREEN, E. E., and LAING, F.

- 1921 COCCIDAE FROM THE SEYCHELLES. *Bul. Ent. Res.* 12: 125-128, illus.
Pseudaonidia iota, *P. aldabraca*, *Aonidia obtusa*, n. spp.; 4 other coccids reported.
- 1923 DESCRIPTIONS OF SOME NEW SPECIES AND SOME NEW RECORDS OF COCCIDAE.—I. DIASPIDINAE. *Bul. Ent. Res.* 14: 123-131, illus.
Reports 13 coccids, including 10 species described as new.
- 1924 DESCRIPTIONS OF SOME APPARENTLY NEW NON-DIASPIDINE COCCIDAE. *Bul. Ent. Res.* 14: 415-419, illus.
Describes 6 new species.

GREEN, E. E., and MAMET, R.

- 1938 A NEW COCCID (HEMIPT., HOMOPT.) FROM MAURITIUS. *Roy. Ent. Soc., London, Proc., Ser. B.*, 7: 126, illus.
Lecanium dorsociliatum.

GREEN, E. E., and MANN, H. H.

- 1907 THE COCCIDAE ATTACKING THE TEA PLANT IN INDIA AND CEYLON. *India Dept. Agr. Mem., Ent. Ser.* 1: 337-355, illus.
I, Introduction; II, List of Coccidae; III, Descriptions of new species (*Chionaspis manni* Green, *Dactylopius theaecola* Green, and *Tachardia decorella theae* Green, n. var.); IV, Distribution and relative importance of scale insects on tea in northern India; V, Distribution and relative importance of scale insects on tea in South India and Ceylon.

GREENWOOD, W.

- 1929 THE FOOD PLANTS OR HOSTS OF SOME FIJIAN INSECTS.—III. *Linn. Soc. N. S. Wales, Proc.* 54: 344-352 (349).
Lists 13 coccids with hosts.
- 1940 THE FOOD-PLANTS OR HOSTS OF SOME FIJIAN INSECTS.—IV. *Linn. Soc. N. S. Wales, Proc.* 65: 211-218 (216-217), illus.
Lists 11 coccids with hosts.

See also Veitch, R., and Greenwood, W.

GRIFFITHS, J. T. JR., and THOMPSON, W. L.

- 1949 A PRELIMINARY REPORT ON THE POSSIBILITIES FOR FORECASTING PERIODS OF OVIPOSITION ACTIVITY FOR PURPLE AND FLORIDA RED SCALES. *Fla. State Hort. Soc. Proc.* 61 (1948): 101-109, illus.
Forecasting considered practical.
- 1949a IDENTIFICATION OF FLORIDA RED AND PURPLE SCALES ON CITRUS TREES IN FLORIDA. *Fla. Agr. Expt. Sta. Cir. S-5*, 13 p., illus.
Describes and illustrates recognition characteristics.

See also Thompson, W. L., and Griffiths, J. T., Jr.

GRISWOLD, G. H.

- 1922 ARE THERE TWO SPECIES OF THE OYSTER-SHELL SCALE? *Ent. Soc. Amer. Ann.* 15: 184-191.
Points out differences in appearance of scales, biological development, and morphological characters.
- 1925 A STUDY OF THE OYSTER-SHELL SCALE, *LEPIDOSAPHES ULMI* (L.), AND ONE OF ITS PARASITES, *APHELINUS MYTILASPIDIS* LE B. *Cornell Univ. Agr. Expt. Sta. Mem.* 93, 67 p., illus.
Pt. 1, biology and morphology of two forms of this scale; Pt. 2, biology of a parasite.

GRUNBERG, A., see Schweig, C., and Grunberg, A.

GUÉRIN-MENEVILLE, F. E.

1827 MONOPHLEBE. MONOPHLEBUS. INS. *In* Dictionnaire Classique d'Histoire Naturelle 11: 99.

Probably first publication of name *Monophlebus*; no species mentioned.

1841 NOTE SUR LE NOUVEAU GENRE CALLIPAPPUS, DANS L'ORDRE DES HÉMIP-
TÈRES, FORMÉ AVEC UN INSECTE QUE L'ON PEUT CONSIDÉRER COMME
UNE D'ORTHESIA GIGANTESQUE. *Rev. Zool.* 4: 129-131.

Callipappus westwoodii n. gen. and sp.

1852 NOTE SUR UNE COCHENILLE INDIGÈNE QUI VIT SUR LA FÈVE DE MARAIS,
ET QUI SEMBLE PROPRE À DONNER UNE MATIÈRE COLORANTE ABONDANTE
ET SUSCEPTIBLE D'ÊTRE EMPLOYÉE DANS L'INDUSTRIE. [Paris] *Acad.*
des Sci. Compt. Rend. 34: 334-335.

Coccus fabae.

1867 [COMMENT ON] M. ED. MORIN ADRESSE UNE LETTRE SUR LES RAVAGES
PRODUITS A L'ILE DE LA RÉUNION PAR DES INSECTES QUI ATTAQUENT LA
CANNE À SUCRE. *Rev. et Mag. Zool.* (ser. 2) 19: 450-451.

Coccus sacchari listed as sugarcane pest.

1868 ÉTUDES SUR LES INSECTES CONSIDÉRÉS COMME LA CAUSE DE LA MALADIE
DES CANNES À SUCRE DANS LES ILES MAURICE ET DE LA RÉUNION. *Soc.*
Imp. et Cent. d'Agr. de France, Bul. de Séances (ser. 3) 30: 245-248.
Also in *Rev. et Mag. de Zool.* (ser. 2) 20: 123-127, 1868; *Soc. Ent.*
de France Ann. (ser. 4) 9: 89-92, 1869.

Lists *Coccus sacchari* Guer.-Men. [nom. nud.], *Gasteralphus iceryi*
"Signoret" [nom. nud.], and *Lecanium guerini* Signoret [unrecog-
nized].

GUILDING, L.

1829 IX.—AN ACCOUNT OF MARGARODES, A NEW GENUS OF INSECTS FOUND IN
THE NEIGHBORHOOD OF ANTS' NESTS. *Linn. Soc. London, Trans.* 16:
115-119, illus.

Margarodes formicarum n. gen. and sp.

HABIB, A.

1943 THE BIOLOGY AND BIONOMICS OF ASTEROLECANIUM PUSTULANS CKLL.
Soc. Fouad I^{er} d'Ent. Bul. 27: 87-111, illus.

Detailed description and discussion of the biology of this coccid.

1955 ON THE SPECIES OF EULECANIUM CKLL. (HOMOPTERA, COCCOIDEA, COC-
CIDAE) ON TAXUS BACCATA L. *Ent. Monthly Mag.* 91: 70-72.

E. taxi n. sp.; tabular comparison with *E. corni*.

HADDEN, E., see Doane, R. W., and Hadden, E.

HADZIBEJLI, Z. K.

1955 A NEW GENUS AND SPECIES OF THE FAMILY LECANIIDAE (HOMOPTERA,
COCCOIDEA) FROM GEORGIA. (In Russian.) *Ent. Obozr.* 34: 231-239,
illus.

Neopulvinaria imeretina.

See also Borchenius, N. S. and Hadzibejli, Z. K.

HAHNEMANN, S.

1793 APOTHEKERLEXIKON, v. 1., pt. 1 (A-E). 280 p. (193). Leipzig, Crusius.
Uses *Coccionella* as a generic name in combination with *polonica*.

HALL, W. J.

1921 THE HIBISCUS MEALY BUG (PHENACOCCLUS HIRSUTUS, GREEN). *Egypt*
Min. Agr. Tech. and Sci. Serv. (Ent. Sect.) Bul. 17, 28, p., illus.
Includes full description, life history.

1922 OBSERVATIONS ON THE COCCIDAE OF EGYPT. *Egypt Min. Agr. Tech. and*
Sci. Serv. Bul. 22, 54 p., illus.

Brief descriptive and collection data discussions for 56 described
coccids; host plant list.

HALL, W. J.—Continued.

- 1923 FURTHER OBSERVATIONS ON THE COCCIDAE OF EGYPT. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 36: 1-61, illus.
Osiraspis n. gen.; 18 new species, 2 new varieties; notes on 10 other coccids newly recognized; added notes on the 56 coccids previously reported; additional host plant list.
- 1924 FOUR NEW SPECIES OF COCCIDAE FROM EGYPT. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 46, 8 p., illus.
Margarodes hirsutissimus, *Trionymus polyporus*, *Lepidosaphes intermittens*, *Pseudococcus variabilis*.
- 1925 NOTES ON EGYPTIAN COCCIDAE WITH DESCRIPTIONS OF NEW SPECIES. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 64, 31 p., illus.
Describes 5 new species, 2 new varieties; added notes on 23 previously recorded species; added host plant list.
- 1926 THE HIBISCUS MEALY BUG (PHENACOCOCCUS HIRSUTUS, GREEN) IN EGYPT IN 1925, WITH NOTES ON THE INTRODUCTION OF CRYPTOLAEMUS MONTROUZIERI, Muls. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 70, 15 p., illus.
- 1926a CONTRIBUTION TO THE KNOWLEDGE OF THE COCCIDAE OF EGYPT. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 72, 41 p., illus.
Describes 14 new species; presents notes on 6 other species new to Egypt and on 25 previously reported; list of coccidae of Egypt (125); added host list.
- 1927 ON A SMALL COLLECTION OF COCCIDAE FROM PALESTINE. Soc. Roy. Ent. d'Egypte Bul., 1926: 107-109.
Collection data and notes on 6 species.
- 1927a ON THE NEWLY HATCHED LARVA OF MONOPHLEBUS GYMNOCARPI HALL. Soc. Roy. Ent. d'Egypte Bul. 1926: 113-117, illus.
Detailed description.
- 1927b NOTES ON THE COCCIDAE OF THE EASTERN DESERT OF EGYPT. Soc. Roy. Ent. d'Egypte Bul., 1926: 118-177.
Briefly describes and discusses status of 42 coccids; 22 considered true desert coccids; host list included.
- 1927c A COCCID NEW TO SCIENCE FROM MECCA AND TWO RECORDS FROM ARABIA. Soc. Roy. Ent. d'Egypte Bul., 1926: 263-266, illus.
Targionia meccae n. sp.; *Parlatoria blanchardii* and *Lecaniodiaspis africana*.
- 1927d MISCELLANEOUS NOTES ON EGYPTIAN COCCIDAE WITH DESCRIPTIONS OF THREE NEW SPECIES. Soc. Roy. Ent. d'Egypte Bul., 1926 (Dec. 15): 267-287, illus.
Phenacoccus gypsophilae n. sp., *P. hirsutus gressae* n. var., *Trionymus euphorbiae* n. sp.; 9 other species discussed; note on "manna".
- 1928 OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—I. Bul. Ent. Res. 19: 271-292, illus.
Describes 15 new species, 2 new varieties; collection notes on 14 other coccids.
- 1929 OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—II. Bul. Ent. Res. 20: 345-358.
Notes on 16 species and varieties of Diaspinae, of which 9 are believed to be new.
- 1929a OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—III. Bul. Ent. Res. 20: 359-376, illus.
Notes on 23 coccids, with 9 species and 5 varieties described as new.
- 1931 OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—[IV.] Ent. Soc. London Trans. 79: 285-303, illus.
Describes 7 new species, 8 new varieties; notes on 7 other coccids; key to 17 African *Ceroplastes*.

HALL, W. J.—Continued.

- 1932 OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—[v.] *Stylops* 4: 185-195, illus.
Describes 4 new species, 1 new variety; notes on 7 other coccids.
- 1935 OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—VI. *Stylops* 4: 73-84, illus.
Describes 6 new species; notes on 10 other coccids.
- 1935a OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—VII. *Stylops* 4: 217-227, illus.
Describes 4 new species, 1 new variety; notes on 6 other coccids.
- 1935b THE GENUS *TACHARDINA* (LACCIFERIDAE, COCCIDAE) IN SOUTHERN AFRICA. *Bul. Ent. Res.* 26: 475-486, illus.
Key and descriptions or notes for 10 tarchardinas, including 3 new species and 2 new varieties.
- 1937 OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—[VIII.] *Roy. Ent. Soc. London, Trans.* 86: 119-134, illus.
Describes 8 new species, 1 new variety; notes on 14 other coccids.
- 1939 A NEW GENUS AND FOUR APPARENTLY NEW SPECIES OF COCCIDAE (HOMOPTERA) FROM THE UNION OF SOUTH AFRICA. *Ent. Soc. South. Africa Jour.* 2: 7-100, illus.
Octococcus n. gen., *O. pentziae*, *Pseudococcus barleriae*, *Selenaspidus portulacariae*, n. spp., *Saissetia monotes pretoriae* n. var.
- 1940 OBSERVATIONS ON THE COCCIDAE OF SOUTHERN RHODESIA.—IX. *Roy. Ent. Soc. London, Trans.* 90: 487-496, illus.
Describes 4 new species; notes on 8 other coccids.
- 1941 ON SOME NEW SPECIES AND TWO NEW GENERA OF COCCIDAE (HOMOPTERA) FROM SOUTHERN RHODESIA. *Ent. Soc. South. Africa Jour.* 4: 221-239, illus.
Bantudiaspis faureae, *Molluscococcus fibrillae*, n. gen. and spp.; 7 other new species.
- 1943 NOTES ON SOME COCCIDAE (HOMOPTERA) FROM SOUTHERN RHODESIA, WITH DESCRIPTIONS OF TWO NEW SPECIES. *Ent. Soc. South. Africa Jour.* 6: 1-6, illus.
Africaspis baphiae, *Poliaspis parinaris* n. spp.; notes on 4 other coccids.
- 1945 THE IDENTITY OF A MEALYBUG VECTOR OF "SWOLLEN SHOOT" VIRUS DISEASE OF CACAO IN WEST AFRICA. *Bul. Ent. Res.* 36: 305-313, illus.
Pseudococcus njalensis redescribed; *P. exitiabilis* a synonym.
- 1945a AN APPARENTLY NEW MARGARODES (COCCOIDEA) INJURIOUS TO GRASS LAWNS IN THE NORTHERN SUDAN. *Roy. Ent. Soc. London, Proc.* 14: 136-140, illus.
M. aureliana.
- 1946 NEW OR LITTLE KNOWN SPECIES OF DIASPIDIDAE (COCCOIDEA) FROM AFRICA. *Roy. Ent. Soc., London, Trans.* 97: 55-73, illus.
Describes 2 new genera, 10 new species; key to 6 African *Melanaspis*.
- 1946a ON THE ETHIOPIAN DIASPIDINI (COCCOIDEA). *Roy. Ent. Soc., London, Trans.* 97: 497-592, illus.
A monographic review involving 215 coccids (4 presented as new) in 72 genera (13 presented as new); keys to genera and species; African host list for included coccids; tables showing history and disposal of genera, species, and lesser forms.

HALLER, G.

- 1880 ENTOMOLOGISCHE NOTIZEN. UEBER DIE LARVE EINES NOCH UNBESCHRIEBENEN ORTHEZIA-ÄHNLICHEN THERES. *Schweiz. Ent. Gessell. Mitt.* 6: 6-9.
Given new name *O. signoreti*.
- 1880a ÜBER DIE REBENSCHILDLAUS COCCUS VITIS. *Ann. der Önologie* 8: 230-238, illus.
Illustrated description of [*Pulvinaria*] *vitis*.

HAMBLETON, E. J.

- 1935 NOTAS SOBRE PSEUDOCOCCINAE DE IMPORTÂNCIA ECONÔMICA NO BRASIL COM A DESCRIÇÃO DE QUATRO ESPÉCIES NOVAS. *Instit. Biol. [Sao Paulo] Arch.* 6: 105-120, illus.
Pseudococcus magnoliae, *P. inamabilis*, *P. tibouchinae*, *P. sociabilis*, n. spp.; notes on 14 other coccids.
- 1946 STUDIES OF HYPOGEOIC MEALYBUGS. *Rev. de Ent.* 17: 1-77, illus.
 A monographic review of group, including 7 genera (4 presented as new—*Brevicoccus*, *Morrisonella*, *Neorhizoecus*, *Radicoccus*) and 53 species (27 presented as new); keys to genera and species.
- 1946a A NEW NAME FOR A MEALYBUG. *Biol. Soc. Wash. Proc.* 59: 177.
Coccidella proposed for *Morrisonella*, preoccupied.

HAMEL, J.

- 1835 ÜBER COCHENILLE AM ARARAT UND ÜBER WURZELCOCHENILLE IM ALLGEMEINEN. *Acad. Imp. des Sci. de St. Petersburg, Mém. (ser. 6)* 3(2): 9-64. Review in *L'Institut* 4: 374, 1836.
 Extended historical notes on [*Porphyrophora hamelii*] and related coccids.

HAMILTON, C. C.

- 1942 THE TAXUS MEALYBUG, PSEUDOCOCCUS CUSPIDATAE RAU. *Jour. Econ. Ent.* 35: 173-175, illus.

HARDWICK, T.

- 1822 DESCRIPTION OF A SUBSTANCE CALLED GEZ OR MANNA, AND THE INSECT PRODUCING IT. *Asiatick Res.* 14: 182-186, illus.
 Description of *Chermes mannifer*; currently considered to be a non-coccid homopteran.

HARRISON, G. H.

- 1944 COCCIDAE FROM THE WESTERN ISLES OF SCOTLAND. *Entomologist* 77: 110-111.
 Lists 19 coccids.

HART, J. H.

- 1896 COCCIDAE, NEW SP. & VAR. Trinidad, Roy. Bot. Gard. Misc. Inform. Bul. 2: 156.
Lecanium nanum Ckll., n. sp.; *Aspidiotus hartii luntii* Ckll., n. var., mentioned without description.
- 1896a NOTES ON COCCIDAE BY J. H. HART. Trinidad, Roy. Bot. Gard. Misc. Inform. Bul. 2(6), App.: vi-vii.
 Collection notes on 18 of the coccids in Cockerell's list of Trinidad Coccidae.

HARTIG, T.

- 1839 JAHRESBERICHTE ÜBER DIE FORTSCHRITTE DER FORTWISSENSCHAFT UND FORSTLICHEN NATURKUNDE NEBST ORIGINAL-ABHANDLUNGEN AUS DEM GEBIETE DIESER WISSENSCHAFTEN, v. 1, h. 4, p. 640-646. (Not seen.)
 Describes *Coccus flavus* and *C. pini*, (acc. to Fernald).

HARTMAN, F. T.

- 1916 LIST OF THE COCCIDAE IN THE COLLECTION OF THE NEW YORK STATE MUSEUM. *N. Y. State Mus. Bul.* 180 (*N. Y. State Univ. Bul.* 606): 92-109.
 List of 173 U. S. and exotic coccids with collection data associated with each; type material indicated.

HARTZELL, A.

- 1921 DISTRIBUTION OF THE EUROPEAN ELM SCALE. *Iowa Acad. Sci. Proc.* 28: 201-205, map.
 Locality records for U. S. and Canada.

HAWORTH, A. H.

1812 XI.—OBSERVATIONS ON THE COCCUS VITIS; WITH REMARKS ON SOME OTHER INSECTS OF THAT DESTRUCTIVE GENUS. Ent. Soc. London, Trans. 1812: 297-309.

Redescriptions of 4 common coccids; *Coccus palmae*, *C. stipulaeformis* described.

HELLEMS, F. B. R., see Cockerell, T. D. A., and Hellems, F. B. R.

HELLÉN, W.

1935 COCCINA. ENUMERATIO INSECTORUM FENNIAE 3 (HEMIPTERA): 13. (Helsingfors, Ent. Bytesförening.)

Check list of 20 coccids assigned to 11 genera.

HEMPEL, A.

1898 NOTAS SOBRE CAPULINIA JABOTICABAE IHERING. Rev. Mus. Paulista [Sao Paulo] 3: 51-61, illus.
Description, control.

1899 TWO NEW COCCIDAE OF THE SUBFAMILY LECANINAE. Canad. Ent. 31: 131-133.

Edwallia rugosa n. gen. and sp.; *Pulvinella* n. subgen., *Pulvinaria* (*Pulvinella*) *pulchella* n. sp.

1900 DESCRIPTIONS OF THREE NEW SPECIES OF COCCIDAE FROM BRAZIL. Canad. Ent. 32: 3-7.

Capulinia crateraformis, *Lecanium silveirai*, *L. obscurum*.

1900a AS COCCIDAS BRAZILEIRAS. Rev. Mus. Paulista [Sao Paulo] 4: 365-537, illus.

Keys to subfamilies and genera; descriptions of 7 new genera and of 131 species, including 63 as new.

1900b DESCRIPTIONS OF BRAZILIAN COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 7) 6: 389-398.

Redescription in English of 8 coccids previously described in Portuguese.

1901 DESCRIPTIONS OF BRAZILIAN COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 7) 7: 110-125, 206-219, 556-561.

Redescription in English of 4 new genera and 35 new species previously described in Portuguese.

1901a DESCRIPTIONS OF BRAZILIAN COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 7) 8: 62-72, 100-111.

Redescription in English of 3 new genera and 22 new species previously described in Portuguese.

1901b ON SOME NEW BRAZILIAN HEMIPTERA. COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 7) 8: 388-391.

Dactylopius subterraneus, *Ceroplastes campinensis*, and *C. bicolor*.

1904 RESULTADO DO EXAME DE DIVERSAS COLEÇÕES DE COCCIDAS ENVIADAS AO INSTITUTO AGRONÓMICO PELO SR. CARLOS MOREIRA. DO MUSEU NACIONAL, RIO DE JANEIRO. Bol. de Agr. [Sao Paulo] (ser. 5) 1: 311-323.

Report on 22 coccids, including 4 described as new.

1911 DESCRIÇÃO DE UM NOVO GÊNERO E UMA NOVA ESPÉCIE DE COCCIDAS. Rev. Mus. Paulista [Sao Paulo] 8: 52-53.

Lachnodiella cecropiae.

1912 CATALOGOS DA FAUNA BRAZILEIRA EDITADOS PELO MUSEU PAULISTA S. PAULO—BRAZIL, V. 3, AS COCCIDAS DE BRAZIL. Sao Paulo, "Diario Oficial", 77 p.

Bibliography, catalog of 169 coccids; descriptions in English and Portuguese of 8 new species.

1918 DESCRIÇÃO DE SETE NOVAS ESPÉCIES DE COCCIDAS. Rev. Mus. Paulista [Sao Paulo] 10: 193-208, illus.

Descriptions of 7 new Brazilian coccids in Portuguese and English.

HEMPEL, A.—Continued.

- 1919 DUAS NOVAS ESPECIES DE COCCIDAS. Rev. Mus. Paulista [Sao Paulo] 11: 451-457, illus.
Eriococcus coffeae; *Diaspis flava*; described in Portuguese and English.
- 1920 COCCIDAS QUE INFESTAM AS NOSSAS ÁRVORES FRUCTÍFERAS. Rev. Mus. Paulista [Sao Paulo] 12, Pt. 2: 109-143, illus.
Redescribes 20 coccids; first description of *Icerya purchasi citriperda*.
- 1920a DESCRIPÇÕES DE COCCIDAS NOVAS E POUCO CONHECIDAS. Rev. Mus. Paulista [Sao Paulo] 12, Pt. 2: 329-354. (English translation p. 355-377).
Describes 16 new coccids, redescribes 1; describes 1 new genus in Portuguese and English.
- 1921 TRES NOVOS COCCIDEOS. Arch. da Esc. Super. Agr. e Med. Vet. [Nitcheroy, Rio de Janeiro] 5: 143-146, illus.
Alecanochiton, n. gen., *A. marquesi*, *Saissetia anonae*, *Tachardia artocarp*, n. spp.
- 1923 HEMIPTERA (HOMOPTERA) FAMILIA COCCIDAE. SUB-FAMILIA MONOPHLEBINAЕ [In supplement to article entitled "A ilha dos Alcatrazes" by Luederwaldt and da Fonseca.] Rev. Mus. Paulista 13: 510-512.
Icerya insulans n. sp.; in Portuguese and English.
- 1927 CEROCOCCUS PARAHYBENSIS N. SP. NOTA PRELIMINAR. Rev. Mus. Paulista [Sao Paulo] 15 (pt. 1) 387-390, illus. (English translation p. 390-391).
- 1928 DESCRIPÇÕES DE NOVAS ESPECIES DE PULGOES (HOMOPTERA, COCCIDAE). Inst. Biol. [Sao Paulo] Arch. 1: 235-237.
Pulvinaria paranensis, *Ceroplastes diospyros* n. spp., *Pseudalichtensia brasiliae* n. gen. and sp.
- 1929 DESCRIPÇÕES DE PULGOES NOVOS E POUCO CONHECIDOS (HOMOPTERA, COCCIDAE) 2ª CONTRIBUIÇÃO. Inst. Biol. [Sao Paulo] Arch. 2: 61-66, illus. (col.).
Toumeyella nectandrae n. sp.; 4 other coccids redescribed.
- 1932 DESCRIPÇÃO DE VINTE E DUAS ESPECIES NOVAS DE COCCIDEOS (HEMIPTERA-HOMOPTERA). Rev. de Ent. 2: 310-339.
Includes descriptions of 3 new genera.
- 1934 DESCRIPÇÃO DE TRES ESPECIES NOVAS, TRES GENEROS NOVOS E UMA SUB-FAMILIA NOVA DE COCCIDEOS (HEMIPTERA, HOMOPTERA). Rev. de Ent. 4: 139-147, illus. (English translation in Arb. über Physiol. u. Angew. Ent. 2: 56-62, 1935.)
Also proposes *Aclerda campinensis* for *A. sacchari* Hemp. preoccupied.
- 1936 COCHONILHA NOVA. Biologico 2: 176.
Note on species to be described as *Tachardiella ourinhensis*. [Described in Inst. Biol. (Sao Paulo) Arch. 8: 8.]
- 1937 NOVAS ESPECIES DE COCCIDEOS (HOMOPTERA) DO BRASIL. Inst. Biol. [Sao Paulo] Arch. 8: 5-36, illus.
Neotectococcus n. gen.; 20 new species.
- 1938 DESCRIPÇÃO DE UMA NOVA ESPECIE DE CEROPLASTES (HOM. COCCIDAE). Rev. de Ent. 8: 263-264.
C. itatiayensis.

See also Cockerell, T. D. A. 1901.

HENRIKSEN, K. L.

- 1921 OVERSICHT OVER DE DANSKE COCCIDAE. Ent. Meddel. 13: 305-317.
A catalog of 16 Danish coccids and of 15 more found in greenhouses in Denmark.
- 1939 A REVISED INDEX OF THE INSECTS OF GRONLAND. Meddel. om Gronland 119 (10), 111 p. (22).
Lists, with collection data, *Orthezia cataphracta*, *Phenacoccus venustus*, *Pulvinaria* sp., *Pseudococcus* spp.

HERBERG, M.

- 1918 DIE SCHILDLAUS ERIOPELTIS LICHTENSTEINI SIGN. Archiv. f. Naturgesch. 82 (Abt. A., h. 10) (1916): 1-107, illus.
A monographic study covering the morphology, biology, anatomy, and histology.
- 1921 COCCIDENSTUDIEN I-III. DIE ENTWICKLUNG DES TRACHEENSYSTEMS. Arch. f. Naturgesch. 87 (Abt. A., h. 10): 243-300, illus.
Discusses 5 coccids.
- 1922 COCCIDENSTUDIEN IV. DAS TRACHEENSYSTEM DER SCHILDLÄUSE. Deut. Ent. Ztschr. 1922: 152-157, illus.
General discussion; 8 coccids considered specifically.

HERBERT, F. B.

- 1919 A NEW SPECIES OF MATSUCOCCUS FROM PINES IN CALIFORNIA (HEMIP.-HOMOP.). Ent. Soc. Wash. Proc. 21: 157-161, illus.
M. fasciculensis.
- 1920 CYPRESS BARK SCALE. U. S. Dept. Agr. Bul. 838, 22 p., illus.
Description, history, biology, control.
- 1921 THE GENUS MATSUCOCCUS WITH A NEW SPECIES. Ent. Soc. Wash. Proc. 23: 15-22, illus.
M. acalyptus n. sp.; *M. fasciculensis*, *M. matsumurae* discussed; key to all three.
- 1924 THE EUROPEAN ELM SCALE IN THE WEST. U. S. Dept. Agr. Bul. 1223, 19 p., illus.
Extended description, history, biology, control.

HERBST, P., see Keiffer, J. J., and Herbst, P.

HERCE, P.

- 1926 UN NUEVO PARÁSITO DEL OLIVO. (LEPIDOSAPHES DESTEFANII LEON.) Estac. Patol. Veg. Bol. 1: 53-54, illus.
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HERIOT, A. D.

- 1931 SOME NOTES ON THE OYSTER SHELL SCALE. Ent. Soc. Brit. Columbia, Proc. No. 28: 6-13.
Descriptive notes on scale formation and life history.
- 1934 THE RENEWAL AND REPLACEMENT OF THE STYLETS OF SUCKING INSECTS DURING EACH STADIUM, AND THE METHOD OF PENETRATION. Canad. Jour. Res. 11: 602-612.
Aspidiotus ostreaeformis and *Lepidosaphes ulmi* mentioned in discussion.
- 1937 THE CRUMENA OF THE COCCIDAE AND THE ADELGES. Ent. Soc. Brit. Columbia Proc. 33 (1936): 22-24.
No species mentioned.

HERRERA, A. L., RANGEL, A. F., BARREDA, L. DE LA, AND OTHERS.

- 1903 EL GUSANO DE LA FRUTA (INSTRYPETAS LUDENS I.D.B.) ETC. Mexico. Comis. de Parasitol. Agr. Bol. 1(1900-1903), 475 p. (5-6, 38, 51 [1900]; 81, 104, 108, 125, 146, 191, 207-208, 222, 229 [1901]; 337-338, 341-343 [1902]; 455-458 [1903]) illus.
Proposes several "formula" generic names, considered invalid according to International Commission of Zoological Nomenclature Opinion 72.

HERRICK, G. W.

- 1910 A NEW SPECIES OF ASPIDIOTUS. Ent. News 21: 22, illus.
A. mori.
- 1910a TARGIONIA CELTIS n. sp. Canad. Ent. 42: 373-374, illus.
- 1911 SOME SCALE INSECTS OF MISSISSIPPI WITH NOTES ON CERTAIN SPECIES FROM TEXAS. Miss. Agr. Expt. Sta. Tech. Bul. 2, 78 p., illus.
List of 47 coccids; redescrptions of 36 diaspid coccids.

HERRICK, G. W.—Continued.

- 1931 THE MAGNOLIA SCALE (*NEOLECANIUM CORNUPARVUM* THRO.) Ent. Soc. Amer. Ann. 24: 302-304, illus.
Descriptive and collection notes.

HESLOP-HARRISON, G.

- 1952 PRELIMINARY NOTES ON THE ANCESTRY, FAMILY RELATIONS, EVOLUTION AND SPECIATION OF THE HOMOPTEROUS PSYLLIDAE—II. Ann. and Mag. Nat. Hist. (ser. 12) 5: 679-696.
Extended discussion of basic relations of coccids to other homopterous groups. Key to groups .

HEWITT, C. G.

- 1914 NOTE ON THE OCCURRENCE OF THE FELTED BEECH COCCUS *CRYPTOCOCCUS FAGI* (BAERENS.) DOUGL. IN NOVA SCOTIA. Canad. Ent. 46: 15-16.
Known history; possibility of natural occurrence in area discussed.

HEYDEN, C. VON

- 1860 AUS MEINEN ENTOMOLOGISCHEN TAGEBÜCHERN. (1. ZUR NATURGESCHICHTE DER COCCINEN.) Correspondenzbl. f. Sammler von Insecten, insbesondere von Schmetterlingen 1: 89-90.
Talla proposed for *Lecanium quercus*. *L. eburneum* described.

HINGSTON, R. W. G.

- 1929 THE LIFE OF A MEALY-BUG (*MONOPHLEBUS STEBBINGI*). Bombay Nat. Hist. Soc. Jour. 33: 880-887, illus.
Detailed account of ecological relationships.

HOCKENYOS, G. L., see METCALF, C. L., and HOCKENYOS, G. L.

HODGKISS, H. E.

- 1904 THE LIFE HISTORY AND TREATMENT OF A COMMON PALM SCALE (*CHRY-SOMPHALUS DICTYOSPERMI* MORGAN.) Mass. Agr. Col. Ann. Rpt. 41 (App.): 97-106, illus.
Greenhouse life history, description, injuries, control.

HOFER, J.

- 1903 BEITRAG ZUR COCCIDEN-FAUNA DER SCHWEIZ. Schweiz. Ent. Gesell. Mitt. 10: 474-483.
Lists and discusses 28 coccids; descriptions of *Pulvinaria simplex* King and *Lecanium hoferi* King, n. spp.

HOFFMAN, W. E.

- 1927 COCCIDAE FROM CHINA, WITH A LIST OF HOST PLANTS. Lingnaam Agr. Rev. 4: 73-76.
Records of coccids supplementary to Kuwana list. (21 species from Lingnan Univ., 40 from U. S. Dept. Agr.)

HOKE, G.

- 1921 OBSERVATIONS ON THE STRUCTURE OF THE ORACERATUBAE AND SOME NEW LEPIDOSAPHINE SCALES (HEMIPTERA). Ent. Soc. Amer. Ann. 14: 337-342, illus.
Lepidosaphes camelliae, *Scobinaspis dentata*, *Mytiella sexspina*, n. spp.
- 1925 A DIASPINE WITH LEGS. Ent. Soc. Wash. Proc. 27: 36-40, illus.
Leucaspis knemion n. sp.
- 1927 SOME UNDESCRIBED DIASPINES FROM MISSISSIPPI. Ent. Soc. Amer. Ann. 20: 349-358, illus.
Aspidiotus socialis, *Crypthemichionaspis ulmi*, *Lepidosaphes ilicis*, *L. solidaginis*, n. spp.
- 1928 SOME UNDESCRIBED DIASPINES FROM MISSISSIPPI, II. (HOMOPTERA: COCCIDAE). Ent. Soc. Amer. Ann. 21: 671-674, illus.
Diaspis dignus, *Protodiaspis varus* n. spp.

See also LOBDELL, G. HOKE

HOLLINGER, A. H.

- 1916 THE SHELL-BARK HICKORY MEALY-BUG. *Canad. Ent.* 48: 411-413.
Pseudococcus jessica n. sp.
- 1917 A NEW SPECIES OF PHENACOCOCCUS (HEMIPTERA, HOMOPTERA). *Canad. Ent.* 49: 281-284, illus.
P. pettiti.
- 1917a TAXONOMIC VALUE OF ANTENNAL SEGMENTS OF CERTAIN COCCIDAE. *Ent. Soc. Amer. Ann.* 10: 264-271, illus.
Pseudococcus shaferi, *Trionymus americana* specifically mentioned; considers antennal formulae useful.
- 1923 SCALE INSECTS OF MISSOURI. *Mo. Agr. Expt. Sta. Res. Bul.* 58, 71 p., illus.
Describes 11 new species; keys, notes, and descriptions for 78 coccids.

HORI, M., see KUWAYAMA, S., and HORI, M.

HORVATH, G.

- 1894 HEMIPTÈRES RECUEILLIS DANS LA RUSSIE MÉRIDIONALE ET EN TRANS-CAUCASIE. *Rev. d'Ent. [France]* 13: 169-189 (180), illus.
Collection notes on *Porphyrophora hamelii* and *Mytilaspis* sp.
- 1897 DESCRIPTION D'HÉMIPTÈRES NOUVEAUX ET NOTES DIVERSES. *Rev. d'Ent [France]* 16: 81-97 (95).
Proposes *Mytilaspis confusus*, new name, for *abietis* Sign. 1870, nec Schrank; *Diaspis fallax*, new name for *D. ostreaeformis* 1869 nec Curtis; synonymizes *Aspidiotus pyri* Licht. 1881 with *A. ostreaeformis*.
- 1900 ORDO. HEMIPTERA. In Paszlavszky, J. [ed.?] *Fauna Regni Hungariae. III. Arthropoda*, Budapest. Regia Soc. Sci. Nat. Hungarica. (Each order paged separately.) 64 p. (63-64).
Includes list of 55 Hungarian coccids.
- 1908 LES RELATIONS ENTRE LES FAUNES HÉMIPTÉROLOGIQUES DE L'EUROPE ET DE L'AMÉRIQUE DU NORD. *Hist.-Nat. Mus. Nat. Hungarici Ann.* 6 (Reprint pages 1-14). (Original not seen.)
Several coccid genera listed in the discussion.

HOSNY, M.

- 1933 ON COCCIDS FOUND ON ROOTS OF PLANTS IN EGYPT. *Egypt Min. Agr., Tech. & Sci. Serv. Bul.* 237, 21 p. illus., (col.).
Descriptive and ecological notes on 26 coccids, including *Phenacoccus* n. sp. [unnamed].
- 1943 COCCIDAE NEW TO EGYPT, WITH NOTES ON SOME OTHER SPECIES. *Soc. Fouad I^{er} d'Ent. Bul.* 27: 113-123.
Adds 7 pest coccids to Egyptian coccid fauna.

See also PRIESNER, H., and HOSNY, M.

HOUGH, W. S.

- 1922 OBSERVATIONS ON TWO MEALY BUGS, TRIONYMUS TRIFOLII FORBES AND PSEUDOCOCCUS MARITIMUS EHRH. (HOM., COCCIDAE). *Ent. News* 33: 171-176.
Many host records; notes on biology.
- 1925 BIOLOGY AND CONTROL OF COMSTOCK'S MEALY BUG ON THE UMBRELLA CATALPA. *Va. Agr. Expt. Sta. Tech. Bul.* 29, 27 p., illus.
A detailed report.
- 1925a THE ANAL LOBE OF PSEUDOCOCCUS COMSTOCKI KUW. (HOMOP.: COCCIDAE). *Ent. News* 36: 52-54, illus.
A study of the variation in this structure.
- 1925b THE INTERNAL ANATOMY OF THE CLOVER ROOT MEALYBUG, TRIONYMUS TRIFOLII, FORBES (HOMOPTERA, COCCIDAE). *Bul. Ent. Res.* 16: 25-29, illus.

HOUSER, J. S.

- 1918 THE COCCIDAE OF CUBA. Ent. Soc. Amer. Ann. 11: 157-172, illus.
Aspidiotus subsimilis anonae n. var., *A. fabernii* n. sp.; 36 other coc-
 cids listed with data and some discussion; keys to species of *Conchas-*
pis, *Pseudischnaspis*.

HOUSSE, R. P. R.

- 1948 LA COCHINILLA DEL CACTO. Acta Zool. Lilloana 5: 19-39.
Dactylopius coccus—a detailed description with biological notes.

HOVASSE, R.

- 1930 UN MODE DE SYMBIOSE NOUVEAU CHEZ LES COCHENILLES. Acad. d'Agr.
 de France. Compt. Rend. 190: 322-324.

Reports a new kind of symbiosis in *Marchalina hellenica*.

- 1930a MARCHALINA HELLENICA. ESSAI DE MONOGRAPHIE D'UNE COCHENILLE.
 Bul. Biol. de la France et Belg. 64: 389-449.

A detailed study of the anatomy and biology of this coccid.

HOWARD, L. O.

- 1889 A NEWLY IMPORTED ELM INSECT. Insect Life 2: 34-41, illus.
Gossyparia ulmi.

- 1894 THE HYMENOPTEROUS PARASITES OF THE CALIFORNIA RED SCALE. Insect
 Life 6: 227-236 (228), illus.

Synonymy of *Aspidiotus citrinus* and *A. aurantii* discussed.

- 1894a THE MAPLE PSEUDOCOCCUS. (PSEUDOCOCCUS ACERIS GEOFF.) Insect Life
 7: 235-240, illus.

Description, life history, control [= *Phenacoccus acericola*.]

- 1895 MARGARODES IN THE UNITED STATES. Insect Life 7: 359.

Reports first specimens recorded from Florida.

- 1895a THE SCALE INSECTS OF ARIZONA. Insect Life 7: 359-360.

Reports 10 known and several unidentified coccids in State.

- 1895b A DESTRUCTIVE SCALE INSECT NEW TO THE UNITED STATES. Insect Life
 7: 430.

Dactylopius virgatus.

- 1895c MAURITIAN SUGAR-CANE COCCIDAE. Insect Life 7: 430.

Icerya sacchari Sign. and *Westwoodia*, n. sp.

- 1896 [EXHIBITION OF SPECIMENS.] Ent. Soc. Wash. Proc. 4: 33-34.

Discussion of *Margarodes* spp. from S. Africa, Jamaica, Florida, and
M. formicarum from St. Vincent.

- 1897 A GALL-MAKING COCCID IN AMERICA. U. S. Dept. Agr., Div. Ent. Bul.
 (n.s.) 7: 76-77, illus.

Olliffiella cristicola Cockerell; figured as *O. cristata* by G. Marx in
 1882 (unpublished).

- 1898 PULVINARIA ACERICOLA (W. & R.) AND P. INNUMERABILIS RATHV. U. S.
 Dept. Agr., Div. Ent. Bul. (n.s.) 17: 57-58.

Notes distinctness of these two species.

- 1900 THE TWO MOST ABUNDANT PULVINARIAS ON MAPLE. U. S. Dept. Agr.,
 Div. Ent. Bul. (n.s.) 22: 7-23, illus.

Includes descriptive and biological information on *Pulvinaria innu-*
merabilis Rathv. and *P. acericola* W. and R.

See also RILEY, C. V., and HOWARD, L. O.

HOWARD, L. O., and MARLATT, C. L.

- 1896 THE 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. U. S. Dept. Agr., Div. Ent. Bul. (n.s.) 3, 80 p., illus.

- 1899 THE ORIGINAL HOME OF THE SAN JOSÉ SCALE. U. S. Dept. Agr., Div.
 Ent. Bul. (n.s.) 20: 36-39.

Hoy, J. M.

1953 FIRST RECORD OF THE OCCURRENCE OF *ERIOCOCCLUS LEPTOSPERMI* MASK. IN NEW ZEALAND. *Ent. Soc. New Zealand* 1(1): 1.
Also reports on *Eriococcus* n. sp. to be described separately.

1954 A NEW SPECIES OF *ERIOCOCCLUS* TARG. (HEMIPTERA, COCCIDAE) ATTACKING *LEPTOSPERMUM* IN NEW ZEALAND. *Roy. Soc. New Zeal. Trans.* 82: 465-474, illus.

E. orariensis; previously published as *E. manukae* nom. nud. (*Ibid* 82 (1): 115-118).

HUBBARD, H. G., AND PERGANDE, T.

1898 A NEW COCCID ON BIRCH. *In* U. S. Dept. Agr., Div. Ent. Bul. (n.s.) 18: 13-26, illus.

Xylococcus betulae Pergande described and life history discussed.

HUERGO, J. M.

1908 EL DIASPIS PENTAGONA EN LA REPÚBLICA ARGENTINA. Buenos Aires Cent. de Estud. Agron. y Vet. Rev. 1(3): 5-16, illus.

Includes descriptive information and mention of several other coccids.

HUGHES-SCHRADER, S.

1925 CYTOLOGY OF HERMAPHRODITISM IN *ICERYA PURCHASI* (COCCIDAE). *Ztschr. f. Zellforsch. und Mikros. Anat.* 2: 264-292, illus.

1926 SPERMATOGENESIS IN *ICERYA PURCHASI*—A CORRECTION. *Science* 63 (1637): 500-501.

1927 ORIGIN AND DIFFERENTIATION OF THE MALE AND FEMALE GERM CELLS IN THE HERMAPHRODITE OF *ICERYA PURCHASI* (COCCIDAE). *Ztschr. f. Zellforsch. und Mikros. Anat.* 6: 509-540, illus.

1930 CONTRIBUTIONS TO THE LIFE HISTORY OF THE ICERYINE COCCIDS, WITH SPECIAL REFERENCE TO PARTHENOGENESIS AND HERMAPHRODITISM. *Ent. Soc. Amer. Ann.* 23: 359-380.

1930a THE CYTOLOGY OF SEVERAL SPECIES OF ICERYINE COCCIDS WITH SPECIAL REFERENCE TO PARTHENOGENESIS AND HAPLOIDY. *Jour. Morph. and Physiol.* 50: 475-495, illus.

1931 A STUDY OF THE CHROMOSOME CYCLE AND THE MEIOTIC DIVISION-FIGURE IN *LLAVEIA BOUVARI*—A PRIMITIVE COCCID. *Ztschr. f. Zellforsch. u. Mikros. Anat.* 13: 742-769, illus.

1935 THE CHROMOSOME CYCLE OF *PHENACOCCLUS* (COCCIDAE). *Biol. Bul.* 49: 462-468, illus.

1940 THE MEIOTIC CHROMOSOMES OF THE MALE *LLAVEIELLA TAENECHINA MORRISON* (COCCIDAE) AND THE QUESTION OF THE TERTIARY SPLIT. *Biol. Bul.* 78: 312-337, illus.

1942 THE CHROMOSOMES OF *NAUTOCOCCLUS SCHRADERAE* VAYS, AND THE MEIOTIC DIVISION FIGURE OF MALE *LLAVEIINE* COCCIDS. *Jour. Morph.* 70: 261-299, illus.

1944 A PRIMITIVE COCCID CHROMOSOME CYCLE IN *PUTO* SP. *Biol. Bul.* 87: 167-176, illus.

1946 A NEW TYPE OF SPERMIOGENESIS IN ICERYINE COCCIDS, WITH LINEAR ALIGNMENT OF CHROMOSOMES IN THE SPERM. *Jour. Morph.* 78: 43-84, illus.

1948 CYTOLOGY OF COCCIDS (COCCOIDEA-HOMOPTERA). *Advances in Genetics* v. 2, p. 127-203, illus.

A critical review of knowledge to date; observations on relation to classification of coccids.

See also SCHRADER, F., and HUGHES-SCHRADER, S.; VAYSSIERE, P., and HUGHES-SCHRADER, S.

HUGHES-SCHRADER, S., and RIS, H.

1941 THE DIFFUSE SPINDLE ATTACHMENT OF COCCIDS, VERIFIED BY THE MITOTIC BEHAVIOR OF INDUCED CHROMOSOME FRAGMENTS. *Jour. Expt. Zool.* 87: 429-456, illus.

HUNTER, S. J.

1899 THE COCCIDAE OF KANSAS. *Kansas Univ. Quart. Ser. A*, 8: 1-15, illus. (Author's edition said to have been published Dec. 17, 1898).
Describes or discusses 15 diaspine coccids, including 1 new species, 2 new subspecies, and 2 unnamed varieties of described species.

1899a THE COCCIDAE OF KANSAS, II. *Kansas Univ. Quart., Ser. A*, 8: 67-77, illus.

Describes or discusses 10 coccids, including 3 new *Lecanium* spp. and 1 new subspecies and 1 new species in *Lecaniodiaspis*.

1900 COCCIDAE OF KANSAS, III. *Kansas Univ. Quart., Ser. A*, 9: 101-107, illus.

Lists 9 coccids with notes, including *Pulvinaria pruni* n. sp.

1902 COCCIDAE OF KANSAS, IV. ADDITIONAL SPECIES, FOOD PLANTS AND BIBLIOGRAPHY OF KANSAS COCCIDAE, WITH APPENDIX ON OTHER SPECIES REPORTED FROM KANSAS. *Kansas Univ. Quart., Ser. A*, 10 (July 1901): 107-145, illus.

HUTCHISON, R. N.

1947 INFLUENCE OF WINTER NIGHT TEMPERATURES ON THE CALIFORNIA RED SCALE. *Jour. Econ. Ent.* 40: 921-922, illus.

Abundance inversely correlated with low temperature.

ICERY, E.

1864 MÉMOIRE SUR LE POU À POCHE BLANCHE. *Chamber of Agr. of Mauritius*. 8 p., illus. (Not seen.) Abridged translation in *Ent. Soc. London Trans.* 2 (ser. 3): 51-55 for 1864 [1865?]

Believed first reference to coccid currently called *Pulvinaria iceryi*.

IHERING, H. VON

1897 OS PIOLHOS VEGETAES (PHYTOPHTHIRE) DO BRAZIL. *Rev. Mus. Paulista* 2: 385-420 (387-390, 401-420).

List of 21 Brazilian coccids, including *Lecanium erythrinae* n. sp.; lists of 12 Chilean and 5 Uruguayan coccids.

IMHOF, O. E.

1900 MULTIOCELLÄRES GEFLÜGELTES INSEKT. *Biol. Centbl.* 20: 527.

Proposes genus name *Pollyocellaria* for 2-winged insect, apparently male coccids; no species named; relationship to "*Orthezia cataphracta*" suggested.

IMMS, A. D., and CHATTERJEE, N. C.

1915 ON THE STRUCTURE AND BIOLOGY OF TACHARDIA LACCA, KERR, WITH OBSERVATIONS ON CERTAIN INSECTS PREDACEOUS OR PARASITIC UPON IT. *Indian Forest Rec.* 3, Pt. 1, 42 p., illus.

Descriptions, life cycle, Indian distribution, and plant hosts.

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE.

1954 OPINIONS AND DECLARATIONS, OPINION NO. 268, 5(29): 397-408.

Acceptance of the generic name *Aspidioproctus* (Class Insecta, Order Hemiptera) as from Newstead 1901.

ISHIHARA, T., and UWAGAWA, M.

1950 ECOLOGICAL NOTES ON ERIOCOCCUS SŌJAE KUWANA. (In Japanese.) *Oyo-Kontyu* 5: 187-192, illus.

English summary.

ISHII, T.

1935 INSECTS OF JEHOLO [V]—ORDERS: LEPIDOPTERA (II) AND HEMIPTERA. FAMILY COCCIDAE. (In Japanese and in English.) *Rpt. First Sci. Exped. to Manchoukuo*, Sect. 5, Div. I, Pt. 9, Art. 32, 5 p., illus.
Eriopeltis stipae n. sp.

ITO, K.

1938 STUDIES ON THE LIFE HISTORY OF THE PINEAPPLE MEALYBUG, PSEUDO-COCCUS BREVIPES (CKLL.) *Jour. Econ. Ent.* 31: 291-298, illus.

Detailed report.

JABLONOWSKI, J.

1916 DIE SCHILDLÄUSE ALS REBENSCHÄDLINGE MIT BEZUG AUF DIE ÜBRIGEN LANDWIRTSCHAFTLICHEN PFLANZEN. Kiserlet. Közlem. 19: 169-288, illus.

Phenacoccus aceris, *Pseudococcus adonidum*, *P. citri*, *Pulvinaria betulae*, *Eulecanium corni*, and *E. persicae* listed as important enemies of the vine in Hungary.

1916a EGY DÉLSZAKI PAIZSTETÜ HAZÁNKBAN. (A TROPICAL SCALE INSECT IN HUNGARY.) Allatt. Közlem. 15: 232-247, illus. (German abstract p. 339). Also issued under title "Ein Beitrag zur näheren Kenntnis der sternförmigen Schmierlaus" in Ztschr. f. Pflanzenkrank. 27: 1-18, illus. 1917.

Detailed description, life history, distribution of *Pseudococcus nipae*.

1917 A RAKOTTHÁTÚ PAIZSTETÜRÖL ÉS HAZAI ELÖFORDULÁSÁRÓL. (ON THE OCCURRENCE OF EUCALYMNATUS TESSELLATUS IN HUNGARY.) Allatt. Közlem. 16: 55-73, illus. (German abstract p. 141-142.)

Detailed redescription; notes on synonymy, biology.

JAKUBSKI, A. W.

1921 KILKA UWAG W SPRAWIE CZERWCA POLSKIEGO (MARGARODES POLONICUS CKLL.). (MITTEILUNG ÜBER MARGARODES POLONICUS CKLL.). Prace Kom. Mat.-Przyr. Tow Przyj. Nauk w. Poznaniu (Soc. Sci. de Poznań, Trav. de la Comm. des Sci. Math et Nat.) (ser. B) 1: 155-182, illus.

German summary. Introductory notes on this coccid intended to precede a monographic study.

1929 ÜBER MORPHOLOGIE UND BIOLOGIE DER POLNISCHEN COCHENILLE (MARGARODES POLONICUS). Cong. Internatl. de Zool., 10, Budapest, 1927, Verhandl. 1076-1096.

1934 THE POLISH COCHINEAL (PORPHYROPHORA POLONICA L.). HISTORICAL STUDY WITH SPECIAL ACCOUNT OF ITS ROLE IN THE HISTORY OF EUROPE AND ITS CULTURE. (In Polish.) Wyd. Kasy im Mianowskiego, Warsaw, v. 1, xvii, 502 p., illus.

1950 THE FIRST MARGARODINE (TRIBE MARGARODINI) COCCID FROM AUSTRALIA. Ann. and Mag. Nat. Hist. (ser. 12) 3: 397-413, illus.

Eumargarodes laingi n. gen. and sp.

JAMES, H. C.

1933 THE BIOLOGY AND CONTROL OF ASTEROLECANIUM COFFEEAE, NEWST., THE FRINGED SCALE OF COFFEE, IN KENYA COLONY. Bul. Ent. Res. 24: 421-427, illus.

Descriptive information included.

1933a TAXONOMIC NOTES ON THE COFFEE MEALYBUGS OF KENYA COLONY. Bul. Ent. Res. 24: 429-436, illus.

Descriptive information on 6 mealybugs, including *Pseudococcus simulator* n. sp.

1934 A NEW MEALYBUG (COCCIDAE) FROM COFFEE IN EAST AFRICA. Stylops 3: 105-107, illus.

Pseudococcus concavocerarii.

1934a A NEW SPECIES OF COCCIDAE (HEM.) FROM KENYA. Stylops 3: 270-272, illus.

Eriococcus kijabensis.

1935 NEW HYPOGEIC MEALYBUGS (COCCIDAE) FROM EAST AFRICA. Bul. Ent. Res. 26: 379-390, illus.

Describes 11 new species in genera *Rhizoecus* and *Ripersia*.

1935a NEW COCCIDAE (HEM.) FROM KENYA. Stylops 4: 233-237, illus.

Paraputo multispinosa, *Pseudococcus kikuyuensis*, *P. erigeroni*, n. spp.

1936 NEW MEALYBUGS FROM EAST AFRICA. Roy. Ent. Soc., London, Trans, 85: 197-216, illus.

Annulococcus n. gen.; describes 16 new species.

JAMES, H. C.—Continued.

- 1937 ON THE PRE-ADULT INSTARS OF PSEUDOCOCCUS LONGISPINUS TARG., WITH SPECIAL REFERENCE TO CHARACTERS OF POSSIBLE GENERIC SIGNIFICANCE (HEM.) Roy. Ent. Soc., London, Trans. 86: 73-84, illus.
- 1937a SEX RATIOS AND THE STATUS OF THE MALE IN PSEUDOCOCCINAE. Bul. Ent. Res. 28: 429-461.
A detailed study demonstrating the need for males in the reproduction of 5 common mealybugs.
- 1938 THE EFFECT OF THE HUMIDITY OF THE ENVIRONMENT ON SEX RATIOS FROM OVER-AGED OVA OF PSEUDOCOCCUS CITRI RISSO (HEMIPT. COCCIDAE). Roy. Ent. Soc. London, Proc., Ser. A.: Gen. Ent. 13: 73-79, illus.
Concludes humidity is not the decisive factor.
- 1939 FURTHER STUDIES ON THE REPRODUCTIVE METHODS OF CERTAIN SPECIES OF COCCIDAE (HOMOPTERA). Roy. Ent. Soc., London, Trans. 89: 569-577, illus.

JANCKE, G. D.

- 1955 ZUR MORPHOLOGIE DER MÄNNLICHEN COCCIDEN. Ztschr. f. Angew. Ent. 37: 265-314, illus.
A study of the morphology of 26 male coccids.

JARVIS, T. D.

- 1908 A PRELIMINARY LIST OF THE SCALE INSECTS OF ONTARIO. Ent. Soc. Ontario Ann. Rpt. 38 (1907): 50-72, illus.
Lists 47 species, a few redescribed; control recommendations.
- 1911 THE COCCIDAE OF CANADA. Ent. Soc. Ontario Ann. Rpt. 41 (1910): 64-77.
Lists 62 species with brief notes on each.

JOHNSON, S. A.

- 1906 THE COTTONY MAPLE SCALE. Colo. Expt. Sta. Bul. 116, 16 p., illus.
Some descriptive information, U. S. distribution, life history, hosts, enemies, control.

JOHNSON, W. G.

- 1896 PRELIMINARY NOTES ON FIVE NEW SPECIES OF SCALE INSECTS. Ent. News 7: 150-152.
Names and some descriptive and ecological notes for *Chionaspis americana*, *Aspidiotus forbesi*, *comstocki*, *ulmi*, *aesculi* [n. spp.]
- 1896a DESCRIPTIONS OF FIVE NEW SPECIES OF SCALE INSECTS, WITH NOTES. Ill. State Lab. Nat. Hist. Bul. 4: 380-395, illus.
Full descriptions for the 5 diaspine coccids first presented in Ent. News.
- 1898 NOTES ON THE EXTERNAL CHARACTERS OF THE SAN JOSE SCALE, CHERRY SCALE, AND PUTNAM'S SCALE. Canad. Ent. 30: 82-83.
Description of gross characters permitting recognition.
- 1899 THE ODOUR OF COCCIDAE. Canad. Ent. 31: 87-88.
Discusses *Aspidiotus perniciosus*, *Chionaspis euonymi*, and *Lecanium nigrofasciatum*.

JOHNSTON, C. E.

- 1912 THE INTERNAL ANATOMY OF ICERYA PURCHASI. Ent. Soc. Amer. Ann. 5: 383-388, illus.

JONES, E. P.

- 1936 THE BIONOMICS AND ECOLOGY OF RED SCALE—AONIDIELLA AURANTII MASK.—IN SOUTHERN RHODESIA. Brit. So. Africa Co. Mazoe Citrus Expt. Sta. Pub. 5: 11-52, illus.
Food plants, detailed life history, parasites, control.

JONES, T. H.

- 1917 A LIST OF THE COCCIDAE OF PORTO RICO. Puerto Rico Bd. Comnrs. Agr. Jour. 1: 1-16.
List of 50 coccids with detailed collection data.

JORGENSEN, D. D.

- 1934 A STUDY OF SOME UTAH COCCIDAE (SCALE INSECTS). Utah Acad. Sci., Arts & Letters, Proc. 11: 273-284, illus.
Treats 21 coccids in identification key incorporating Utah collection records and references to associated illustrations.

JÖRGENSEN, P., *see* KIEFFER, J. J. and JÖRGENSEN, P.

JOUBERT, C. J.

- 1925 FIVE APPARENTLY NEW SPECIES OF SOUTH AFRICAN COCCIDAE. So. African Jour. Nat. Hist. 5: 119-124, illus.
Monophlebus acaciae, *Lichtensia peringueyi*, *Pulvinaria merwei*, *Cerococcus asparagi*, *C. cliffortiae*.

KALICKA-FIJALKOWSKA, J.

- 1926 LE DÉVELOPPEMENT EMBRYONNAIRE DE MARGARODES POLONICUS CKLL. Soc. de Biol. [Paris] Compt. Rend. 99: 1047-1048.

KALTENBACH, J. H.

- 1843 MONOGRAPHIE DER FAMILIEN DER PFLANZENLÄUSE. (PHYTOPHORES). 1. THEIL. DIE BLATT- UND ERDLÄUSE (APHIDINA ET HYPONOMEUTES). 42, 223 p. (208-209), Aachen, Roschütz.
There is a possibility that *Rhizobius subterraneus* Kalt. 1843 is a mealybug.

- 1859 DIE DEUTSCHEN PHYTOPHAGEN AUS DER KLASSE DER INSEKTEN. Naturhist. Ver. der Preuss. Rheinlande Verhandl. 16: 216-299 (218, 241, 277, 292). (Cont.)
Dorthezia urticae and 3 *Lecanium* spp. listed.

- 1860 DIE DEUTSCHEN PHYTOPHAGEN AUS DER KLASSE DER INSEKTEN. Naturhist. Ver. der Preuss. Rheinlande Verhandl. 17: 203-260 (235, 245-246, 252, 254, 259-260). (Cont.)
Chermes fagi Kalt. [is *Cryptococcus fagi*]; *Chermes* (?) [*Fonscolombia*] *fraxini* [n. sp.] described; *Coccus festucae*, *C. fragariae*, *Dorthezia urticae* listed.

KALUZA, G.

- 1940 BEITRÄGE ZUR KENNTNIS DER BIOLOGIE UND ANATOMIE DER FICHTEN-QUIRLSCHILDLAUS PHYSOKERMES PICEAE = LECANIUM HEMICRYPHUM MIT BESONDERER BERÜCKSICHTIGUNG DER BILDUNG DES HONIGTAUES. Zool. Anz. 132: 73-84, illus.
Description of digestive tract.

KANDA, S.

- 1930 A NEW-FOUND MALE OF KUWANIA QUERCUS KUW. (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 42: 106-109, illus.
English summary.

- 1930a LEUCASPIS JAPONICA. (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 42: 196.
Discussion of priority of *Leucaspis* in Chalcididae or Coccidae.

- 1930b GENUS LEUCASPIS. (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 42: 276-277.
Further discussion of *Leucaspis* in Chalcididae and Coccidae.

- 1930c A LIST OF COCCIDAE IN YOKOHAMA. Insect World 34: 413-417.
A check list of 78 coccids.

- 1931 A NEW SPECIES OF JAPANESE COCCIDAE. (In Japanese.) Insect World 35: 25-28, illus.
Phenacoccus viburnae; key to 4 species of Japanese *Phenacoccus*.

KANDA, S.—Continued.

- 1932 A NEW SPECIES OF THE GENUS PSEUDOCOCCUS. Annot. Zool. Jap. 13: 387-390, illus.
P. kaiensis.
- 1932a A NEW SPECIES OF THE GENUS KERMES. Annot. Zool. Jap. 13: 551-557, illus.
K. kuwanae; key to Japanese *Kermes* species.
- 1933 A NEW SPECIES OF THE GENUS ERIOCOCCUS. Insect World 37: 151-153, illus.
E. azumae.
- 1933a TWO NEW SPECIES OF THE GENUS PSEUDOCOCCUS FROM YOKOHAMA AND THE ISLAND OF PALAU. Annot. Zool. Jap. 14: 133-138, illus.
P. seruratus; *P. palauensis*.
- 1934 TWO NEW GENERA OF JAPANESE COCCIDAE. (In Japanese.) Insect World 38: 308-312, illus.
Saliococcus; *Rosanococcus*.
- 1934a A NEW SPECIES OF EULECANIUM (COCCIDAE). Annot. Zool. Jap. 14: 405-408, illus.
E. kuwanai.
- 1935 CLASSIFICATION OF THE GENUS PHENACOCCUS OF JAPAN (PRELIMINARY REPORT). (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 47: 276-288, illus.
Key to species; *P. azaleae*, *P. viburni*, *P. pergandei* discussed.
- 1935a ON THE GENUS HELIOCOCCUS (COCCIDAE). Annot. Zool. Jap. 15: 70-75, illus.
H. takahashii n. sp.; *H. takae* also described.
- 1935b DESCRIPTIONS OF NEW PSEUDOCOCCUS (COCCIDAE) FROM JAPAN. (In Japanese.) Kontyu 9: 83-90, illus.
P. flavidus, *P. matsudoensis*, *P. sasae*.
- 1941 A NEW CHIONASPIS FROM COREA (HOMOPTERA, COCCIDAE). Annot. Zool. Jap. 20: 33-35, illus.
C. nishikigi.
- 1941a STUDIES ON COCCIDAE FROM COREA. Insect World 45: 8-14. (Not seen).
- 1941b A NEW SPECIES OF GENUS CHIONASPIS (HOMOPTERA) FROM COREA. Dobutugaku Zassi (Zool. Mag., Tokyo) 53: 185-186, illus.
Chionaspis hattorii.
- 1941c A NEW SPECIES OF GENUS PHENACASPIS (HOMOPTERA) FROM COREA. Dobutugaku Zassi (Zool. Mag., Tokyo) 53: 220-221, illus.
P. forsythiae.
- 1943 TWO NEW PSEUDOCOCCUS (COCCIDAE) HOMOPTERA FROM NIPPON. Annot. Zool. Jap. 22: 49-53, illus.
P. zaeae, *P. taxi*.
- 1943a ON THE PHENACOCCUS-SPECIES (COCCIDAE) IN THE PALAEARCTIC REGION OF NIPPON. Kansai Ent. Soc. Trans. 12: 42-49, illus.
P. rotundus, *P. elongatus*, n. spp.
- 1943b ON A NEW GENUS NEORIPERSIA (COCCIDAE, HOMOPTERA). Kansai Ent. Soc. Trans. 12: 49-50.
- 1950 SOME SCALE-INSECTS FROM SHANSI, NORTH CHINA. (In Japanese.) Mushi 21: 33-38, illus.
Pulvinaria nerii n. sp. (described in English); notes on 7 other coccids.

See also TAKAHASHI, R., and KANDA, S.

KANNAN, K. KUNHI.

- 1918 AN INSTANCE OF MUTATION: COCCUS VIRIDIS, GREEN, A MUTANT FROM PULVINARIA PSIDII, MASKELL. Ent. Soc. London, Trans. 1918: 130-148, illus. Prior abstract in Asiatic Soc. Bengal Jour. and Proc. (n.s.) 13 (2): clxxxvi-clxxxvii.

Describes *Coccus colemani* n. sp.; discusses possibilities of the mutation suggested; other coccids mentioned.

See also COLEMAN, L. C., and KANNAN, K. KUNHI; GREEN, E. E. 1918a.

KARSCH, F. A. F.

- 1877 REVISION DER GALLMÜCKEN. 57 p. (16-19). Münster in Westfalen, Brunn.

Villigera frauenfeldi n. gen. and sp.; described as eecidomyid; actually *Drosicha* or close.

KASARGODE, R. S.

- 1914 A PRELIMINARY ACCOUNT OF THE COCCIDAE OF WESTERN INDIA. Bombay Nat. Hist. Soc. 23: 133-137.

Notes on 28 coccids, including 4 presented as new species according to Green, but without descriptions.

KAUSSARI, M.

- 1946 CONTRIBUTION À L'ÉTUDE DES COCCIDAE DE L'IRAN. (In Persian.) Iran. Min. de l'Agr. Dept. Gen. de la Protect. Plantes. 48 p.
Lists or discusses 62 coccids.

- 1951 A COCHENILLE NEW TO IRANSHAHR. (In Persian.) Tehran (Iran) Dept. Gen. des Rech. Agron. Ent. et Phytopath. Appl. No. 12-13: [43-47], illus. French summary p. 27-28.
Parlagena mckenzei Balachowsky.

- 1952 SUR UNE COCHENILLE NOUVELLE DU SUD-EST DE L'IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 31: 181-184, illus.
Schizotargionia balachowskyi n. sp.; key to 3 species of *Schizotargionia*.

- 1955 LA PREMIERE LISTE DES COCHENILLES DE L'IRAN. Teheran. Min. de l'Agr. Ent. et Phytopath. Appl. No. 15: 14-20.
List of 85 coccids with brief host and distribution notes for each; duplicated in Iranian [or Persian].

- 1955a SUR TROIS COCCOIDEA DIASPIDINAE NOUVEAUX DE L'IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 34: 229-237, illus.
Balachowskiella salvadorae, n. gen. and sp.; *Parlagena remaudierei*, *Diaspidiotus farahbakhchi*, n. spp.

KAUSSARI, M., and BALACHOWSKY, A.

- 1953 SUR UN DIASPIDIOTUS (HOM. COCCOIDEA) NOUVEAU VIVANT SUR TAMARIX DANS LE SUD DE L'IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 32: 24-26, illus.
D. iranicus.

- 1953a SUR UN ASPIDASPIS FERRIS (COCCOIDEA-ASPIDIOTINI) NOUVEAU DU SUD DE L'IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 32: 99-102, illus.
A. dentilobis.

- 1953b SUR UN NOUVEAU GENRE D'ASPIDIOTINI-TARGIONINA (COCCOIDEA-DIASPIDINAE) DU CENTRE DE L'IRAN. Rev. de Path. Vég. et d'Ent. Agr. de France 32: 276-280, illus.
Fisanotargionia quadrilobata n. gen. and sp.

- 1954 SUR UN GENRE NOUVEAU ET UNE ESPÈCE NOUVELLE DE COCCOIDEA-DIASPIDINI VIVANT SUR ARTEMISIA EN IRAN. Soc. Fouad I^{er} Ent. Bul. 38: 161-164, illus.
Paragadaspis sarkissiani.

See also Balachowsky, A., and Kaussari, M.

KAWALL, J. H.

- 1867 MISCELLANEA ENTOMOLOGICA. [Stettin.] Ent. Ztg. 28: 117-123 (122-123).
Coccus cryptus n. sp. [A hymenopteron according to Fernald catalog.]

KAWECKI, Z.

- 1935 CZERWCE (COCCIDAE) WOJEWÓDZTWA KRAKOWSKIEGO I KIELECKIEGO ZEBRANE W LATACH 1933-1934. (DIE SCHILDLÄUSE (COCCIDAE) DER WOJEWODSCHAFTEN KRAKÓW UND KIELCE, DIE IN DEN JAHREN 1933-1934 GESAMMELT WURDEN.) Krakow. Polska Akad. Umiej. Spraw. Kom. Fizyogr. (Polish Acad. des Sci. et Lettres, Physiograph. Comm.) Ann. Rpt. 68: 73-90.

German summary. List of 26 Polish coccids with detailed collection data.

- 1938 CZERWCE (COCCIDAE) TATR. PRZYCZYNEK DO POZNANIA FAUNY TATRZANSKIEGO PARKU NARODOWEGO. czesc 1. (THE COCCIDAE OF THE TATRA MTS. PART 1.) Krakow. Polska Akad. Umiej. Spraw. Kom. Fizyogr. (Polish Acad. des Sci. et Lettres, Physiograph. Comm.) Ann. Rpt. (1936) 71: 199-208, illus.

English summary. Reports collection of 7 coccids (3 illustrated) in high mountains of Poland.

- 1950 TARCZNIK NISZCZYCIEL (TARCZNIK SAN JOSÉ)—QUADRASPIDIOTUS (ASPIDIOTUS) PERNICIOSUS COMST. W EUROPIE I JEGO POJAWIENIE SIE W POLSCE. (SAN JOSÉ SCALE—QUADRASPIDIOTUS (ASPIDIOTUS) PERNICIOSUS COMST. IN EUROPE AND ITS APPEARANCE IN POLAND.) Krakow. Polska Akad. Umiej. Prace Rolniczo-lesne 55, 54 p., illus. (Col.).

English summary.

- 1954 STUDIES ON THE GENUS LECANIUM BURM. II. THE YEW SCALE, LECANIUM POMERANICUM SP. N., AND SOME RELATED SPECIES (HOMOPTERA, COCCOIDEA, LECANIIDAE). Polska Akad. Nauk. Inst. Zool., Ann. Zool. 16: 9-23, illus.

L. pomeranicum compared with 3 other lecaniums in table.

KELLY, A. E., see BRAIN, C. K., and KELLY, A. E.

KELLY, J. B., see FERRIS, G. F., and KELLY, J. B.

KERNER, J. S.

- 1778 NATURGESCHICHTE DES COCCUS BROMELIAE ODER DES ANANASSCHILDES. Stuttgart, Erhard. 56 p.

Includes a description.

KERR, J.

- 1782 NATURAL HISTORY OF THE INSECT WHICH PRODUCES THE GUM LACCA. Roy. Soc. London, Phil. Trans. 71 (1781) Pt. 2: 374-381, illus. Also in Roy Soc. London, Phil. Trans., Abr. ed., 15 (1781-1785): 124-127, pub. 1809.

Description and biological note for *Coccus lacca*; uses of lac.

KESSELS, L. T., see CRESSMAN, A. W., and KESSELS, L. T.

KICKX, J.

- 1867 FLORE CRYPTOGAMIQUE DES FLANDRES, v. 2, 490 p. (285). Paris, Bailliere. *Psilonia* Fr. (non Cord.) *nivea* Fr. is *Cryptococcus fagi* acc. Ehrlich, Canad. Jour. Res. 10 (Spec. No.): 623, 1934.

KIEFFER, J. J.

- 1898 DESCRIPTION D'UNE COCCIDE PRODUISANT DES GALLES SUR RHAMNUS ALATERNUS ET OLEIDES (HEM.) Soc. Ent. de France Bul. 1898 (No. 10): 214-215, illus.

Asterolecanium rhamni [apparently a psyllid.]

- 1909 DESCRIPTION DE GALLES ET D'INSECTES GALLICOLES D'ASIE. Marcellia 7 (1908): 149-167 (163-165), illus.

Leachia festiva n. sp. [= *Icerya minor* Green acc. to Sanders].

KIEFFER, J. J., and HERBST, P.

1909 UEBER EINIGE NEUE GALLEN UND GALLENERZEUGER AUS CHILE. Centbl. f. Bakt., Parasitenkunde u. Infektionskrank. 23 (Abt. 2): 119-126 (122), illus.

Lecanium resinatum n. sp.

KIEFFER, J. J., and JÖRGENSEN, P.

1910 GALLEN UND GALLENTIERE AUS ARGENTINIEN. Centbl. f. Bakt., Parasitenkunde u. Infektionskrank. 27 (Abt. 2): 362-444 (417), illus.

Opisthoscelis (?) *prosopidis* n. sp.

KING, G. B.

1899 A NEW VARIETY OF CHIONASPIS FURFURUS FITCH, AND NOTES ON OTHER SPECIES. Psyche 8: 334-336.

C. furfurus fulvus.

1899a CONTRIBUTIONS TO THE KNOWLEDGE OF MASSACHUSETTS COCCIDAE.—I. Canad. Ent. 31: 109-112.

Monophlebinae to Asterolecaniinae; an annotated list of 20 coccids.

1899b CONTRIBUTIONS TO THE KNOWLEDGE OF MASSACHUSETTS COCCIDAE.—II. Canad. Ent. 31: 139-143.

Ortheziiane-Lecaniinae; an annotated list of 25 coccids: includes description by Cockerell of unnamed variety of *Saissetia anthurii*.

1899c CONTRIBUTIONS TO THE KNOWLEDGE OF MASSACHUSETTS COCCIDAE.—III. Canad. Ent. 31: 225-229.

Diaspinae; an annotated list of 25 coccids.

1899d CONTRIBUTIONS TO THE KNOWLEDGE OF MASSACHUSETTS COCCIDAE.—IV. Canad. Ent. 31: 251-255.

Diaspinae (concl.); an annotated list of 7 coccids; Lecaniinae additions, 2 coccids; check list of 79 coccids.

1899e A NEW PULVINARIA FROM MASSACHUSETTS. Psyche 8: 417-418, illus.

P. cockerelli n. sp.

1900 THE FIFTH SPECIES OF KERMES FROM MASSACHUSETTS. Psyche 9: 22, illus.

K. andrei n. sp.; 3 other *Kermes* mentioned.

1900a THE GENUS KERMES IN NORTH AMERICA. Psyche 9: 78-84, illus.

Discusses characteristics of 16 *Kermes*, including *perryi* n. sp. and *galliformis cueroensis* n. var.

1900b THE COCCIDAE OF THE IVY. Canad. Ent. 32: 214-215.

Lists 11 coccids from this host.

1900c MISCELLANEOUS NOTES ON COCCIDAE FROM WESTERN MASSACHUSETTS. Psyche 9: 116-118.

Brief collection notes on 22 coccids, including several new to Massachusetts.

1900d A NEW PULVINARIA FROM NEW MEXICO. Canad. Ent. 32: 360.

P. tinsleyi.

1901 LECANIUM CARYAE FITCH. Ent. News 12: 50-51.

Additional descriptive information; collection records; bibliography.

1901a LECANIUM WEBSTERI, CKLL. AND KING, N. SP. WITH NOTES ON ALLIED FORMS. Canad. Ent. 33: 106-109.

1901b COCCIDAE OF THE HARVARD BOTANICAL GARDENS. Psyche 9: 153-154.

List of 19 coccids with host association data, including some species new in Massachusetts.

1901c TWO NEW SPECIES OF PULVINARIA. Canad. Ent. 33: 144-146.

P. hunteri, *P. ehrhorni*.

1901d PULVINARIA INNUMERABILIS RATHV. Psyche 9: 199-203.

A study of antennal and leg characteristics.

1901e THE COCCIDAE OF BRITISH NORTH AMERICA. Canad. Ent. 33: 179-180. (Cont.)

Phenacoccus dearnessi n. sp.; *Eriococcus borealis* listed.

KING, G. B.—Continued.

1901f THE COCCIDAE OF BRITISH NORTH AMERICA. *Canad. Ent.* 33: 193-200.
(Cont.)
List of 43 coccids with notes.

1901g KERMES QUERCUS LINN. *Psyche* 9: 258-259.
A redescription and bibliography.

1901h THE COCCIDAE OF BRITISH NORTH AMERICA. *Canad. Ent.* 33: 314-315.
(Cont.)
List of 9 coccids with notes.

1901i THE GREENHOUSE COCCIDAE, I. *Ent. News* 12: 231-233; 310-314. (Cont.)
Introduction and brief discussion of 9 coccids, *Icerya* through *Dactylopius*.

1901j THE COCCIDAE OF BRITISH NORTH AMERICA. *Canad. Ent.* 33: 333-336.
(Cont.)
Eulecanium guignardi, *E. lymani*, *E. rosae*, *Lecanium pini*, *Pulvinaria viburni*, n. spp.; 9 other coccids listed, with notes.

1902 A NEW SPECIES OF THE GENUS SAISSETIA (COCCIDAE). *Psyche* 9: 296-298,
illus.
S. nigrella [now a synonym of *nigra*]; 4 other saissetias discussed.

1902a SOME NEW COCCIDAE. *Ent. News* 13: 41-43.
Rippersia fimbriatula, *R. cockerellae*, *Phenacoccus simplex*.

1902b FURTHER NOTES ON MASSACHUSETTS COCCIDAE. *Canad. Ent.* 34: 59-63.
Includes bibliography and additional check-list.

1902c THE GREENHOUSE COCCIDAE, II. *Ent. News* 13: 152-156. (Cont.)
Adds 12 diaspine coccids to earlier list.

1902d COCCIDAE OF BRITISH NORTH AMERICA. *Canad. Ent.* 34: 158-161.
(Concl.)
Lists 59 coccids, including *Eulecanium fraxini* n. sp.

1902e THE MAPLE COTTONY PHENACOCCLUS. *Canad. Ent.* 34: 211-212.
P. acericola n. sp.

1902f TWO NEW ANTS'-NEST COCCIDS FROM TEXAS. *Canad. Ent.* 34: 285-286.
Dactylopius wheeleri and *Eriococcus texanus*.

1902g DESCRIPCAO DE DACTYLOPIUS MAGNOLICIDA VON IHERING. *Rev. Mus. Paulista* 5: 616-617.
First description; a new species credited to King.

1903 THE SEVENTEENTH AMERICAN KERMES (COCCIDAE). *Ent. News* 14: 21-22.
K. arizonensis n. sp.; 7 other *Kermes* mentioned in discussion.

1903a THE COCCIDAE OF OHIO. *Ent. News* 14: 204-206.
Critical notes on list of the Coccidae of Ohio by Webster and Burgess.

1906 NOTES ON THE YOUNG LARVAE OF SOME SPECIES OF PULVINARIA. *Canad. Ent.* 38: 325-326.
P. tinsleyi, *occidentalis*, *cockerelli*, *amygdali*, *ehrhorni*, *viburni*.

1913 SEVENTH KERMES (COCCIDAE) FROM CALIFORNIA. *Jour. Ent. and Zool.* 5: 205-206, illus.
K. essigii n. sp.

1913a THE EIGHTH CALIFORNIA KERMES. KERMES OCCIDENTALIS N. SP. *Jour. Ent. and Zool.* 5: 206-207, illus.
K. galliformis and *cockerelli* also discussed.

1914 A NEW SPECIES OF KERMES FROM CONNECTICUT. *Jour. Econ. Ent.* 7: 150-151.
K. waldeni.

1914a A HISTORICAL KERMES (COCCIDAE). THE NINTH FROM CALIFORNIA. *Jour. Ent. and Zool.* 6: 48-49, illus.
K. sassceri n. sp.

1914b KERMES LINDINGERI KING n. sp. *Ent. Rundschau* 31: 34.

KING, G. B.—Continued.

- 1914c THE GENUS PSEUDOKERMES IN MONTANA. Jour. Econ. Ent. 7: 246-247.
P. cooleyi n. sp.
- 1914d THE TENTH CALIFORNIA KERMES. Jour. Ent. and Zool. 6: 100-101, illus.
K. branigani n. sp.
- 1914e THE ELEVENTH KERMES (COCCIDAE) FROM CALIFORNIA. Jour. Ent. and Zool. 6: 133, illus.
K. mirabilis n. sp.

KING, G. B., and COCKERELL, T. D. A.

- 1897 NEW COCCIDAE FOUND ASSOCIATED WITH ANTS. Canad. Ent. 29: 90-93.
Lecanopsis lineolatae, *Phenacoccus americanae*, *Ripersia blanchardii*,
n. spp. described; 4 other coccids compared.
- 1898 A NEW FORM OF PULVINARIA. Psyche 8: 286-287.
P. innumerabilis tiliae n. subsp.

See also Cockerell, T. D. A., and King, G. B.

KING, G. B., and REH, L.

- 1901 UEBER EINIGE EUROPÄISCHE UND AN EINGEFÜHRTEN PFLANZEN GESAM-
MELTE LECANIEN. Jahrb. der Hamburg Wiss. Anst. 18 (Beih. 3)
(1900): 57-65.
Descriptive and collection notes on 15 lecaniums, including *L. rehi*
King n. sp.

KING, G. B., and TINSLEY, J. D.

- 1897 A NEW ANT-NEST COCCID. Psyche 8: 150-151, illus.
Dactylopius claviger n. sp.
- 1898 A NEW ANT-NEST COCCID. Psyche 8: 297-298, illus.
Dactylopius cockerelli n. sp.

See also Tinsley, J. D., and King, G. B.

KIRBY, W. F.

- 1891 CATALOGUE OF THE DESCRIBED HEMIPTERA, HETEROPTERA AND HOMOPTERA
OF CEYLON, BASED ON THE COLLECTION FORMED (CHIEFLY AT PUNDA-
LOYA) BY MR. E. ERNEST GREEN. Linn. Soc. London, Jour. Zool. 24:
72-176, illus.
Reports 7 coccids including *Coccus* (?) *laniger* n. sp.
[=*Walkeriana floriger*].

KIRCHNER, R.

- 1912 ZUR ENTWICKLUNGSGESCHICHTE UND LEBENSWEISE VON ORTHEZIA
URTICAE L. Ver. f. Vaterland. Naturk. in Württemb. Jahresh. 68:
1-17, illus.

KIRITCHENKO, A. N. (Kiricenکو, Kirichenko, Kirinchenko, Kiritschenko,
Kiritshenko.)

- 1928 FAUNA OF COCCIDAE OF THE UKRAINE AND THE CRIMEA. (PRELIMINARY
REPORT). (In Russian.) Jour. Plant Protect. Ukraine No. 3-4 (1927-
28): 112-116. [From repaged separate; original not seen.]
Annotated list of 48 coccids.
- 1928a FIVE TRIBES OF COCCIDS. DETERMINATION OF INSECTS AFTER I. N. PHI-
LIPOEVA, p. 204-219. (Not seen.)
- 1929 A KEY FOR IDENTIFICATION OF SCALES INJURIOUS TO CITRUS. (In Rus-
sian.) Subtropics No. 5-6: 170-174.
Key to 19 citrus coccids.
- 1931 SECOND CONTRIBUTION TO THE COCCID FAUNA OF UKRAINE AND THE
CRIMEA. [Leningrad] Inst. Zashch. Rast. (Lenin Acad. Agr. Sci.,
USSR., Inst. Plant Protect.) Plant Protect. 7 (1930): 307-321.
Collection and biological notes on 60 coccids; 2 new generic and 7
new specific names included without descriptive information.

KIRITCHENKO, A. N.—Continued.

- 1932 DESCRIPTION OF SOME NEW COCCIDAE (HEMIPTERA) FROM TURKESTAN AND UKRAINE. Acad. des Sci. l'URSS, Inst. Zool. Trav., 1932: 135-142, illus.
Describes 6 new species.
- 1935 A NOTE ON THE COCCID FAUNA OF TRANSCAUCASIA. (In Russian.) Bul. Mus. Géorgie 8 (1933-34): 1-5.
An annotated list of 33 coccids.
- 1936 THE DISTRIBUTION OF INSECT SCALES (HOMOPTERA-COCCOIDEA) IN USSR FROM ZOOGEOGRAPHICAL AND ECOLOGICAL POINTS OF VIEW. (In Russian.) [Leningrad] Inst. Zashch. Rast. (Lenin Acad. Agr. Sci., USSR, Inst. Plant Protect.) Plant Protect. 9: 68-75.
A general discussion with many coccids mentioned.
- 1936a SOME NEW PSEUDOCOCCINAE OF THE FAUNA OF USSR (HEMIPTERA, COCCOIDEA). Rev. d'Ent. de l'URSS 26 (1935); 130-159, illus.
Describes 12 new species, 2 new genera.
- 1937 A NEW SPECIES OF COCCID FROM THE UKRAINE. Ann. and Mag. Nat. Hist. (ser. 10) 20: 395-397, illus.
Echinococcus artemisiae.
- 1938 BESCHREIBUNG VON ZWEI NEUEN COCCIDEN AUS DER UKRAINE. (USSR.) Konowia 16: 229-236, illus.
Scythia cranium-equinum n. gen. and sp.; *Antoninella inaudita* n. gen. and sp.
- 1940 THIRD REPORT ON THE COCCID FAUNA OF USSR. [In Russian.] Acad. des Sci. URSS, Trav. de l'Inst. Zool., 1940: 115-137, illus.
Describes 8 new species [in English also]; notes on 50 other coccids.
- 1940a DESCRIPTION OF NEW SPECIES OF PHENACOCCLUS (COCCOIDEA, HOMOPTERA, INSECTA). (Not seen.) (Rpt.) Odessa Univ., Biol. Ser. 4: 187-192. From Borchsenius, N. S., Fauna of USSR, Akad. Nauk. Zool. Inst. (n.s. 38) 7: 208. 1949.
P. cingulatus, *P. turcomanicus*, *P. tubiferus*, *P. colchicus*, *P. solanaceus*, nom. nud. according to Borchsenius.

KIRKALDY, G. W.

- 1902 HEMIPTERA. Fauna Hawaiiensis 3: 93-174 (102-112), illus. List of 48 coccids in 15 genera, with host and locality data.
- 1904 A LIST OF THE COCCIDAE OF THE HAWAIIAN ISLANDS (HEMIPTERA). Entomologist 37: 226-230.
Annotated list of 53 coccids.
- 1904a BIBLIOGRAPHICAL AND NOMENCLATORIAL NOTES ON THE HEMIPTERA.—NO. II. Entomologist 37: 254-258.
Type of *Coccus*; additions to Fernald, etc.
- 1905 BIBLIOGRAPHICAL NOTES ON THE HEMIPTERA [FAM. COCCIDAE]. Entomologist 38:78.
Additions to Fernald.
- 1906 BIBLIOGRAPHICAL AND NOMENCLATORIAL NOTES ON THE HEMIPTERA.—NO. VI. Entomologist 39: 247-249 (249).
Notes priority of *Laccifer* Oken 1815 over *Tachardia* Blanchard 1886.
- 1906a ON THE NOMENCLATURE OF THE GENERA OF THE HEMIPTERA. Entomologist 39: 253-257.
Notes on publication dates and genotypes for about 18 early coccid generic names.

KITAO, Z.

- 1928 NOTES ON THE ANATOMY OF WARAJICOCCUS CORPULENTUS KUWANA, A SCALE INSECT NOXIOUS TO VARIOUS OAKS. Tokyo Imp. Univ., Col. Agr. Jour. 10: 1-20, illus.
Histological studies of various organs and structures.

KLOET, G. S.

- 1944 A NEW GENERIC NAME IN THE COCCIDAE (HEMIPTERA). Ent. Monthly Mag. 80: 86.
Proposes *Ovaticoccus* nom. nov. for *Gymnococcus* Douglas, 1888, nec Zopf, 1884.

KLOTZ, L. J., see Bushnell, F. R., and Klotz, L. J.

KOBAHIDZE, D. N.

- 1937 BIO-ÖKOLOGIE DES PSEUDOCOCCUS GAHANI GREEN. (In Russian.) Rev. d'Ent. de l'URSS 27: 113-123, illus.
German summary.

KOCH, A.

- 1930 ÜBER DAS VORKOMMEN VON MITOCHONDRIEN IN MYCETOCYTEN. Ztschr. f. Morph. u. Okol. der Tiere 19: 259-290 (268-270), illus.
Mycetocyte of *Pseudococcus citri* described.

KÖHLER, P., see Bazan, R., and Köhler, P.

KORONÉOS, J.

- 1934 LES COCCIDAE DE LA GRÈCE SURTOUT DU PÉLION (THESSALIE). I. DIASPI-
NAE. Athens, 95 p., illus.
A study of the characteristics of 56 diaspid coccids in 14 genera known from Greece; 1 new genus, 4 new species, 6 new subspecies described.

KOSZTARAB, M.

- 1955 REVISION UND ERGÄNZUNG DER IN DER "FAUNA REGNI HUNGARIAE"
ANGEFUHRTEN COCCIDEN. Mus. Nat. Hungarici, Ann. Hist.—Nat.
(n. s.) 6: 371-385.
A list of 70 Hungarian coccids with detailed collection and host records.

KOTINSKY, J.

- 1903 THE FIRST NORTH AMERICAN LEAF-GALL DIASPINE. Ent. Soc. Wash.
Proc. 5: 149-150.
Cryptophyllaspis liquidambaris n. sp.
- 1908 SOME COCCIDAE FROM SINGAPORE COLLECTED BY F. MUIR. Hawaii. Ent.
Soc. Proc. 1: 167-171, illus.
Coccus tuberculatus, *Chrysomphalus minutes* n. spp.
- 1915 THE BERMUDA GRASS ODONASPIS. Ent. Soc. Wash. Proc. 17: 101-104,
illus.
O. ruthae n. sp.

See also Fullaway, D. T., and Kotinsky, J.

KRAATZ, G.

- 1888 SIGNORETIA KRAATZ STATT WESTWOODIA SIGN. Deut. Ent. Ztschr.
32: 176.
Signoretia Kraatz [actually already preoccupied] proposed for *Westwoodia* Sign. (preoccupied).
- 1888a SYNONYMISCHE BEMERKUNG. Deut. Ent. Ztschr. 32: 360.
Bergrothia new name [actually already preoccupied] for *Signoretia*
Kraatz (preoccupied).

KRASSILSTSCHIK, J.

- 1893 ZUR ENTWICKLUNGSGESCHICHTE DER PHYTOPHTHIREN. (ÜBER VIVIPARITÄT
MIT GESCHLECHTLICHER FORTPFLANZUNG BEI DEN COCCIDEN.) Zool.
Anz. 16: 69-76, illus.
Discusses viviparity in *Aspidiotus hederæ*, *Coccus hesperidum*.

KRASUCKI, A.

- 1922 MATERJALY DO POZNANIA FAUNY CZERWCOWATYCH (COCCIDAE) ZIEM
POLSKICH. (NOTES ON THE COCCID FAUNA OF POLAND.) Sprawozdanie
Komisji Fizjograficznej 56: 51-65.
List of 15 coccids from Galicia with detailed collection notes.

KRAUSE, G.

1950 ERKENNUNG DER SAN JOSÉ-SCHILDLAUS UND ANDERER DECKELSCHILDLÄUSE AUF EINHEIMISCHEM UND IMPORTIERTEM OBST. Ztschr. f. Pflanzenbau. Pflanzenschutz 1 (45) (separate issue 1), 36 p., illus.

A detailed study of San Jose scale and related coccids, including tabulation of bases for separation.

KRAUSSE, A., and WOLFF, M.

1919 EINE ÜBERSICHT ÜBER DIE BISHER AUFGESTELLTEN FOSSILEN UND REZENTEN INSEKTENORDNUNGEN. Arch. f. Naturgesch. 85 (Abt. A, h. 3): 151-171 (167, 169).

Characterizes as Order 69, Coccoptera, based on the Coccoidea.

KRECKER, F. H.

1909 THE EYES OF DACTYLOPIUS. Ztschr. f. Wiss. Zool. 93: 73-89, illus.

Description of histologic structure of eyes of male *D. destructor* [i. e. *Pseudococcus citri*].

KRUGER, F. see Frank, A. B., and Kruger, F.

KRÜNITZ, J. G.

1768 HERRN ERNST FRIEDR. BURCHARDS, PROF. ZU ROSTOCK, SENDSCHREIBEN AN HERRN RITTER VON LINNÉ, VON DER DEUTSCHEN COCHENILLE ODER DEM SOGENNANTEN JOHANNISBLUTE. Neues Hamburg. Mag. 4 (23): 481-496, 499-528, illus. German translation of original article, which appeared under title "Epistola ad Cl Virum Carol. Linnaeum de *Cocco Polonica*" in Acta Soc. Regiae Scientiarum Upsaliensis 1742 (ed. 1748), p. 53-78, illus.

Life history and description.

KUHLGATZ, (DR.)

1898 SCHILDLÄUSE AUF KAKTEEN NESBST BESCHREIBUNG VON RHIZOCOCCUS MULTISPINOSUS NOV. SPEC. Monatsschr. f. Kakteenkunde 8: 166-170; 185-188, illus.

Briefly mentions 5 other coccids in discussion.

KÜNCKEL D'HERCULAIS, J.

1878 HISTOIRE DE LA COCHENILLE VIVANT SUR LES RACINES DES PALMIERS DE LA SECTION DES SEAFORTHIA. EXPOSÉ DES CARACTÈRES DU GENRE RHIZOECUS. Soc. Ent. de France Ann. (ser. 5) 8: 161-164, illus.

Rhizoecus falcifer, n. gen. and sp.

KÜNOW, G.

1880 ZWEI NEUE SCHILDLÄUSE. Ent. Nachr. 6 (5): 46-47. English translation by J. W. Douglas in Ent. Monthly Mag. 17: 89-90.

Describes *Coccus comari*; other species is an aleyrodid.

KUWANA, I.

1901 NOTES ON NEW AND LITTLE KNOWN CALIFORNIAN COCCIDAE. Calif. Acad. Sci. Proc. (ser. 3, Zool.) 2: 399-408, illus.

Eriococcus artemisiae, *Lecanium adenostomae*, *Ripersia festucae*, n. spp., *Pseudolecanium tokionis* Ckll. redescribed.

1901a ILLUSTRATED TREATISE ON SCALE INSECTS. rev. ed. (In Japanese). Insect World 5, 98 p.

Includes two lists of 76 and 40 coccids known or reported from Japan.

1902 COCCIDAE (SCALE INSECTS) OF JAPAN. Calif. Acad. Sci. Proc. (ser. 3, Zool.) 3: 43-98, illus. Names also in "Illustrated treatise on scale insects" (1901a).

Describes or discusses 76 coccids, including 22 as new; list of 40 additional Japanese coccids presented.

1902a COCCIDAE FROM THE GALAPAGOS ISLANDS. N. Y. Ent. Soc. Jour. 10: 28-33, illus.

Orthezia galapagoensis n. sp.; *Lecanium (Calymnatus) hesperidum pacificum* n. var.; 4 other coccids redescribed.

KUWANA, I.—Continued.

- 1902b A NEW COCCID FROM CALIFORNIA. Ent. News 13: 134-136, illus.
Pseudolescanium disticlum.
- 1904 THE SAN JOSE SCALE IN JAPAN. [Japan.] Imp. Agr. Expt. Sta. Nishigahar, Tokyo, Tokyo Printing Co., 33 p., illus.
Detailed study of distribution and host associations; descriptive material.
- 1905 [A NEW XYLOCOCCUS IN JAPAN.] (In Japanese.) Insect World 9(3) 91-95, illus.
X. matsumurae n. sp.
- 1907 COCCIDAE OF JAPAN, I. A SYNOPTICAL LIST OF COCCIDAE OF JAPAN WITH DESCRIPTIONS OF THIRTEEN NEW SPECIES. [Japan], Imp. Cent. Agr. Expt. Sta. Bul. 1 (2): 177-207, illus. (col.).
Lists 97 coccids.
- 1907a COCCIDAE OF JAPAN, II. A NEW XYLOCOCCUS IN JAPAN. [Japan]. Imp. Cent. Agr. Expt. Sta. Bul. 1(2): 209-212, illus. See also Kuwana 1905.
X. matsumurae.
- 1907b NOTES ON THE LIFE HISTORY AND MORPHOLOGY OF GOSSYPERIA ULMI GEOFF. [Japan] Imp. Cent. Agr. Expt. Sta. Bul. 1 (2): 213-231, illus.
Includes detailed description of internal anatomy.
- 1909 COCCIDAE OF JAPAN (III.) FIRST SUPPLEMENTAL LIST OF JAPANESE COCCIDAE, OR SCALE INSECTS, WITH DESCRIPTION OF EIGHT NEW SPECIES. N. Y. Ent. Soc. Jour. 17: 150-158, illus.
Descriptive and collection notes on 18 coccids, including 8 new species.
- 1909a COCCIDAE OF JAPAN (IV.) A LIST OF COCCIDAE FROM THE BONIN ISLANDS (OGASAWARAJIMA), JAPAN. N. Y. Ent. Soc. Jour. 17: 158-164.
List of 23 coccids, including 7 new species.
- 1911 COCCIDAE OF JAPAN, V. I, 157, 6 p., illus. (col.). (In Japanese.)
Illustrated monograph. Includes redescriptions of 50 diaspid coccids in 9 genera.
- 1914 COCCIDAE OF JAPAN, V. Jour. Ent. and Zool. 6: 1-11, illus.
Describes 8 new species.
- 1916 SOME NEW SCALE INSECTS OF JAPAN. Annot. Zool. Jap. 9: 145-152, illus.
Nipponorthezia n. gen.; 7 new coccids described.
- 1917 COCCIDAE OF JAPAN, V. II, 157 10 p., illus. (col.). (In Japanese.)
Illustrated monograph. Includes redescriptions of 65 nondiaspid coccids in 24 genera.
- 1917a A CHECK LIST OF THE JAPANESE COCCIDAE. Yokohama, 19 p. (In Japanese.) (From separate. Original not seen.) Reprinted from a collection of essays for Mr. Yasushi Nawa, written in commemoration of his sixtieth birthday, Oct. 8, 1917.
A list of 178 coccid names.
- 1917b ON A NEW JAPANESE SCALE INSECT (GENUS ERIOCOCCUS) ATTACKING SOJA BEAN. (In Japanese.) Insect World 21: 136-139, illus.
E. sojae; key to 5 Japanese *Eriococcus*.
- 1918 NEW SCALE INSECT OF QUERCUS GLANDULIFERA. (In Japanese.) Insect World 22: 312-314, illus.
Nidularia japonica.
- 1922 STUDIES ON JAPANESE MONOPHLEBINAE. CONTRIBUTION I: THE GENUS WARAJICOCCUS. [Japan]. Dept. Agr. and Com., Imp. Plant Quar. Sta. Bul. 1, 58 p., illus. (col.).
Detailed study of classification: keys to various stages of 3 species; *Warajicoccus* n. gen. [actually = *Drosicha*]; *W. howardi*, *W. pinicola* n. spp.

KUWANA, I.—Continued.

- 1922a STUDIES ON JAPANESE MONOPHLEBINAE. CONTRIBUTION II: THE GENUS ICERYA. [Japan.] Dept. Agr. and Com., Imp. Plant Quar. Sta. Bul. 2, 43 p., illus. (col.).
Detailed study of *I. purchasi* and *seychellarum* in Japan, with keys to different stages.
- 1923 DESCRIPTIONS AND BIOLOGY OF YANONE-SCALE AND RED WAX SCALE IN JAPAN. (In Japanese), [Japan] Dept. Agr. and Com., Bur. Agr., Injurious Insects and Pests, Ser. No. 10, 70 p., illus.
Detailed descriptive and biological information on *Prontaspis yanonensis* and *Ceroplastes rubens*.
- 1923a THE CHINESE WHITE-WAX SCALE, ERICERUS PELA CHAVANNES. Philippine Jour. Sci. 22: 393-406, illus.
Detailed description; notes on life history.
- 1923b DESCRIPTIONS AND BIOLOGY OF NEW OR LITTLE-KNOWN COCCIDS FROM JAPAN. [Japan] Dept. Agr. and Com., Imp. Plant Quar. Sta. Bul. 3: 1-67, illus.
Descriptions and biology of *Prontaspis yanonensis*, *Ceroplastes rubens*, *C. floridensis*, *C. ceriferus*; 3 new species.
- 1923c ON THE GENUS LEUCASPIS IN JAPAN. Dobutsugaku Zasshi (Zool. Mag.) 35 (417-422): 321-324, illus.
Transfers *L. bambusae* to *Chionaspis*, accepts *L. japonica*.
- 1924 ON THE COCCIDAE OF JAPAN. (In Japanese.) Insect World 28: 3-4, 39-43; 110-119.
Keys to subfamilies, 9 genera, and 25 species of nondiaspid coccids; general discussion of remaining groups.
- 1925 THE DIASPINE COCCIDAE OF JAPAN, I. GENERA POLIASPIS, ISCHNASPIS, AND PARLATORIA. Japan Dept. Agr. and Com., Bur. Agri., Injurious Insects and Pests, Ser. No. 14, 18 p., illus. Also in [Japan] Dept. of Finance, Imp. Plant Quar. Serv. Tech. Bul. 1, 18 p., illus.
Critical redescriptions of 8 coccids in genera *Poliaspis* (1), *Ischnaspis* (1), *Parlatoria* (6).
- 1925a THE DIASPINE COCCIDAE OF JAPAN, II. THE GENUS LEPIDOSAPHES. [Japan] Dept. Finance, Imp. Plant Quar. Serv. Tech. Bul. 2, 42 p., illus.
Descriptions and key for 18 *Lepidosaphes*, 7 new; notes on 5 others.
- 1925b THE DIASPINE COCCIDAE OF JAPAN, III. THE GENUS FIORINIA. [Japan] Dept. Finance Imp. Plant Quar. Serv. Tech. Bul. 3: 1-20, illus.
Descriptions and key for 7 *Fiorinia*; notes on 1 other.
- 1926 THE DIASPINE COCCIDAE OF JAPAN, IV. GENERA CRYPTOPARLATORIA, HOWARDIA, SASAKIASPIS [N. GEN.], DIASPIS, AULACASPIS, PINNASPIS, AND PRONTASPIS. [Japan] Dept. Finance, Imp. Plant Quar. Serv. Tech. Bul. 4, 44 p., illus.
Descriptions and keys for 18 coccids, 2 new.
- 1927 A LIST OF COCCIDAE (SCALE INSECTS) KNOWN FROM CHINA. Lingnaam Agr. Rev. 4: 70-72.
A list of 76 coccids with hosts indicated.
- 1927a A NEW ERIOCOCCUS FROM JAPAN. (In Japanese.) Dobutsugaku Zasshi (Zool. Mag.) 39 (461): 109-113, illus.
English summary; *E. abeliceae*, previously misidentified as *Gossyparia ulmi*.
- 1927b A NEW SPECIES OF THE GENUS FIORINIA FROM JAPAN. Annot. Zool. Jap. 11: 151-155, illus.
F. horii.
- 1928 THE DIASPINE COCCIDAE OF JAPAN, V. GENERA CHIONASPIS, TSUKUSHIASPIS [N. GEN.], LEUCASPIS, NIKKOASPIS [N. GEN.]. [Japan] Min. Agr. and Forestry, Dept. Agr. Sci. Bul. 1: 1-39, illus.
Descriptions and keys for 13 coccids, 5 new; notes on 4 others.

KUWANA, I.—Continued.

- 1930 *In* ESAKI, T. UEBERSICHT ÜBER DIE INSEKTENFAUNA DER BONIN (OGASAWARA)-INSELN, UNTER BESONDERER BERÜCKSICHTIGUNG DER ZOOGEOGRAPHISCHEN FAUNENCHARAKTERE. [Japan] Biogeog. Soc. Bul. 1 (1929-30): 206-226 (210).
List of 22 coccids.
- 1931 THE GENUS KERMES OF JAPAN. [Japan] Min. Agr. and Forestry, Dept. Agr. Sci. Bul. 2: 15-29, illus. (col.).
Redescription of 4 species; *K. mutsurensis* n. sp. described; key to all 5.
- 1931a THE DIASPINE COCCIDAE OF JAPAN, VI. GENUS PHENACASPIS. [Japan] Min. Agr. and Forestry, Dept. Agr. Sci. Bul. 2: 1-14, illus.
Descriptions and key for 6 species, 4 new; 2 others discussed.
- 1931b SCALE INSECTS OF AMAMI-OSHIMA, WITH DESCRIPTIONS OF FOUR NEW SPECIES. (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 43 (508-510): 163-171, illus.
List of 41 coccids; English descriptions for *Eriococcus hemii*, *Aspidiotus miscanthii*, *Lepidosaphes imperatae*, and *Parlatoria itabicola*, all n. spp.
- 1931c ON THE GENUS KERMES IN THE EASTERN ASIA. (In Japanese.) Kontyu 5: 47-51, illus.
K. tomarii n. sp. described in English; notes on 6 others.
- ?1931d ON THE GENUS ACLERDA OF JAPAN. (In Japanese.) Oyo-Dobutsugaku Zasshi 3: [231-?]. (Not seen.) Essentially the same material in Philippine Jour. Sci. 48: 57-66, 1932.
- 1932 TWO NEW CONIFER-INFESTING SCALE INSECTS FROM JAPAN. Philippine Jour. Sci. 48: 51-54, Illus.
Aspidiotus makii and *A. pseudomeyeri*.
- 1932a THE GENUS ACLERDA IN JAPAN, INCLUDING FORMOSA. Philippine Jour. Sci. 48: 57-66, illus.
A. tokionis and *A. biwakoensis* redescribed; *A. takahashii* ms. described for first time.
- 1932b THE GENUS ANTONINA (FAMILY COCCIDAE) OF JAPAN. (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 44: 213-219, illus.
English summary includes brief notes on *A. tobai* n. sp. *A. indica*, and *A. crawi*. Key to species in Japanese.
- 1932c DESCRIPTION OF TWO NEW COCCIDAE FROM JAPAN. (In Japanese and English.) Kontyu 6: 143-148, illus.
Eriococcus tokaedae, *Lepidosaphes ezokihadae*.
- 1933 THE DIASPINE COCCIDAE OF JAPAN, VII. [Japan] Min. Agr. and Forestry, Dept. Agr. Sci. Bul. 3: 1-42, illus.
Descriptions and keys for 30 aspidiotine coccids in 6 genera, including *Odonaspis oshimensis*, *Aonidia yabunikkei* n. spp.; notes on 3 others.
- 1933a KEY TO GENERA OF THE DIASPINE COCCIDAE OF JAPAN. [Japan] Min. Agr. and Forestry, Dept. Agr. Sci. Bul. 3: 43-45.
Key to 23 genera.
- 1933b AN INDEX TO SPECIES OF COCCIDS DESCRIBED IN THE DIASPINE COCCIDAE OF JAPAN, I-VII. [Japan] Min. Agr. and Forestry, Dept. Agr. Sci. Bul. 3: 46-51.
- KUWANA, I., and MURAMATSU, K.
- 1931 A NEW SCALE INSECT OF THE GENUS ASPIDIOTUS FOUND ON CYMBIDIUM FABERI FROM CHINA. (In Japanese.) Nippon Plant Protect. Soc., Jour. Plant Protect. (Byochugai Zasshi) 18: 335-338, illus.
English summary; *A. chinensis*.
- 1931a NEW SCALE INSECTS AND WHITE FLY FOUND UPON PLANTS ENTERING JAPANESE PORTS. (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 43: 647-660, illus.
English summary; 10 new species, all credited to Kuwana.

KUWANA, I.—Continued.

1932 ON SOME SCALE INSECTS OF THE GENUS *PARLATORIA*. (In Japanese.) Nippon Plant Protect. Soc., Jour. Plant Protect. (Byochugai Zasshi) 19: 8-17, illus.

Descriptions of 5 *Parlatoria* species including *P. pseudopyri* Kuwana, n. sp.

1932 THREE NEW SPECIES OF THE DIASPINE COCCIDS FROM JAPAN. (In Japanese.) Nippon Plant Protect. Soc., Jour. Plant Protect. (Byochugai Zasshi) 19: 95-100, illus.

English summary; *Phenacaspis yanagicola*, *Aspidiotus ophiopogonus*, *Aulacaspis kuzunoi*, n. spp., all credited to Kuwana.

KUWANA, I., and NITOBÉ, [I.]

1918 ON A NEW SPECIES OF ERIOCOCCOS FROM JAPAN. (In Japanese.) Insect World 22: 400-403, illus.

E. chabohiba.

KUWANA, I., and TANAKA, K.

1922 A NEW ERIOCOCCUS ON CACTUS FROM JAPAN. (In Japanese.) Insect World 26: 215-221, illus.

E. saboteneus.

KUWANA, I., and TOYODA, T.

1915 PHENACOCCUS SUWAKOENSIS N. SP. (In Japanese with English resume.) Insect World 19: 443-446, illus.

KUWANA, S. I., see KUWANA, I.

(Noted in Japan Dept. Agr. and Com., Imp. Plant Quar. Sta. Bul. 2, Mar. 1922. "Author's name will hereafter be given as Inokichi Kuwana instead of S. I. Kuwana.")

KUWAYAMA, S., and HORI, M.

1930 I. NOTES ON THE COTTONY APPLE SCALE, PHENACOCCUS PERGANDEI COCKERELL, IN HOKKAIDO. (In Japanese.) Hokkaido Agr. Expt. Sta. Rpt. No. 24, p. 1-33, illus.

Extended redescription, "life history" information.

LA FACE, L.

1915 ALCUNE OSSERVAZIONE MORFOLOGICHE E BIOLOGICHE SULL'ACLERDA BERLESEI BUFFA. (Roma) R. Accad. dei Lincei Atti, Rend. (ser. 5) 24: 768-771.

Descriptive notes on larval and adult female stages.

1916 LA METAMORFOSI DELL'ACLERDA BERLESII BUFFA (HEMIPTERA-COCCIDAE). Portici. R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 11: 235-249, illus.

Detailed description.

1921 OSSERVAZIONI MORFOLOGICHE E BIOLOGICHE SULL'ANTONINA PHRAGMITIS MARCHAL. (HEMIPTERA: COCCIDAE). Portici. R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 15: 254-267, illus.

Detailed description.

LAHILLE, F.

1919 NOTA SOBRE UN NUEVO GÉNERO DE "DIASPINAE." Physis 4: 595-599.

Paradiaspis lizerianus n. gen. and sp.

1924 SOBRE UNA NUEVA ESPECIE DE COCHINILLA, ALICHTENSIA ORIENTALIS LAH. Uruguay Defensa Agr., Bol. Mens. 5: 105-108, illus.

LAING, F.

1922 A SYNONYMICAL NOTE ON ORTHEZIA MAENARIENSIS DOUGL. (COCCIDAE). Ent. Monthly Mag. 58: 254-255.

A synonym of *O. urticae*.

1923 APHIDOLOGICAL NOTES. Ent. Monthly Mag. 59: 238-247 (247).

Includes note that *Rhizobius jujubae* is a monophlebine coccid.

LAING, F.—Continued.

- 1925 DESCRIPTIONS OF TWO SPECIES OF COCCIDAE FEEDING ON ROOTS OF COFFEE. *Bul. Ent. Res.* 15: 383-384, illus.
Ortheziopa reynei n. gen. and sp.; *Rhizoecus coffeae*.
- 1925a DESCRIPTIONS OF SOME NEW GENERA AND SPECIES OF COCCIDAE. *Bul. Ent. Res.* 16: 51-66, illus.
Describes 2 new genera, 16 new species from widely separated areas.
- 1927 COCCIDAE, APHIDIDAE AND ALEYRODIDAE. *In* *British Mus. (Nat. Hist.) Insects of Samoa, Pt. 2. Hemiptera*, p. 35-45 (35-42), illus.
List with discussions of 37 coccids, including *Chrysomphalus buxtoni* n. sp.
- 1927a AN INTERESTING APHID AND COCCID FROM THE ARGENTINE REPUBLIC. *Soc. Ent. Argentina Rev.* 1(4-5): 23-27 (24-26), illus.
Fagisuga triloba redescribed.
- 1928 A LIST OF THE COCCIDAE OF SAN THOMÉ. *Entomologist* 61: 214-215.
List of 31 coccids with host data, some named only to genus; *Ctenochiton arborescens* nom. nud. included.
- 1929 REPORT ON AUSTRALIAN COCCIDAE. *Bul. Ent. Res.* 20: 15-37, illus.
Describes 15 new species, 1 new variety; collection and descriptive notes on 14 additional coccids.
- 1929a DESCRIPTIONS OF NEW AND SOME NOTES ON OLD SPECIES OF COCCIDAE. *Ann. and Mag. Nat. Hist. (ser. 10)* 4: 465-501, illus.
Describes 2 new genera, 2 new species, 2 new varieties; discusses 11 other coccids.
- 1930 A NEW GENUS AND TWO NEW SPECIES OF COCCIDAE FROM THE SOLOMON ISLANDS. *Bul. Ent. Res.* 21: 19-21, illus.
Neosimmondsia hirsuta n. gen. and sp.; *Heterococcus painei* n. sp.
- 1931 A NEW COCCID INJURIOUS TO FRUIT TREES IN BALUCHISTAN. *India Dept. Agr. Mem., Ent. Ser.*, 12: 99-100, illus.
Aspidiotus prunorum.
- 1932 ON A SMALL COLLECTION OF COCCIDAE FROM THE BELGIAN CONGO. *Rev. de Zool. et de Bot. Africaines* 23: 61-69, illus.
Describes 4 new species, 1 new variety; discusses 3 other coccids.
- 1933 THE COCCIDAE OF NEW CALEDONIA. *Ann. and Mag. Nat. Hist. (ser. 10)* 11: 675-678, illus.
Aonidia buxtoni n. sp.; 16 other coccids reported.
- 1936 DESCRIPTION OF A NEW SPECIES OF PHENACOCCLUS (COCCIDAE) FOUND IN EGYPT. *Soc. Roy. Ent. d'Égypte* 9: 80-82, illus.
P. priesneri.
- 1944 A NEW INJURIOUS MEALY-BUG FROM THE GOLD COAST. *Bul. Ent. Res.* 35: 91-93, illus.
Pseudococcus exitiabilis; status of generic names *Pseudococcus* and *Lecanium* discussed.

LAING, F., and COCKERELL, T. D. A.

- 1929 A NEW DIASPINE COCCID FROM SOUTH AFRICA. *Amer. Mus. Nat. Hist., Amer. Mus. Novitates* 366: 1-2, illus.
Chionaspis asparagi.

See also Green, E. E., and Laing, F.

LAMARCK, J. B. DE

- 1801 COCHENILLE. COCCUS. *In his Systeme des Animaux sans Vertebres*, p. 298-300.
Defines genus, describes *Coccus mexicanus* n. sp. [*Coccus cacti* of Fabr. 1794] and *C. tomentosus* n. sp. [*Coccus silvestris* of Thiéry].
- 1816 HISTOIRE NATURELLE DES ANIMAUX SANS VERTÈBRES, v 3, 586 p. (457-463). Paris, Verdière.
Characterization of coccid groups; brief redescriptions of 7 *Coccus* and 1 *Dorthezia*.

LANCRY, M.

1791 CACTIER. CACTUS. *In* Encyc. Méthodique. Agriculture, v. 2, 454-529 (484-511).

Includes first proposal of names *Coccus luteus*, *C. silvestris*, *C. sativus*.

LANGFORD, G. S.

1926 THE LIFE HISTORY OF THE WILLOW SCALE (CHIONASPIS SALICIS-NIGRAE WALSH). *In* Colo. State Ent. Cir. 51: 50-58, illus.

LASAROFF, A. W.

1940 UNTERSUCHUNGEN ÜBER DIE ECHTEN SCHILDLÄUSE (DIASPINAE, COCCIDAE) DER OBSTBÄUME IN BULGARIEN. Sofia, 46 p. (Not seen.) Abstract in Ztschr. f. Pflanzenkrank. 52: 428, 1942.

Morphological notes.

LATASTE, F.

1894 SUR LE MARGARODES VITUM A. GIARD (HETERODERA VITIS F. PHILIPPI). Soc. Sci. du Chili, Actes 4: 1-liv.

Quotes Giard description and presents notes on biology.

1894a QUELQUES MOTS DE PLUS SUR LES MARGARODES VITUM A. GIARD. Soc. Sci. du Chili, Actes 4: cxxxii-cxxxv.

Notes on the biology.

1895 LE DACTYLOPIUS VITIS AU CHILI. Soc. Sci. du Chili, Actes 5: 24-30.

Detailed biological notes.

1895a NOUVELLES OBSERVATIONS SUR LE MARGARODES VITUM A. GIARD. Soc. Sci. du Chili, Actes 5: xliii-xlvi.

Report on detailed biological observations.

1896 LE MARGARODES VITUM. EST-IL ORIGINAIRE DU CHILI OU DE LA RÉPUBLIQUE ARGENTINE. Soc. Sci. du Chili, Actes 6: 23-25.

Discussion of probable origin.

1896a NOUVELLES OBSERVATIONS SUR LA ZOOÉTHIQUE DU MARGARODES VITUM GIARD. Soc. Sci. du Chili, Actes 6: 93-105.

Observations on biology.

LATIF, A.

1949 EFFECT OF TEMPERATURE ON THE DEVELOPMENT OF EGGS OF DROSICHA STEBBINGII (GR.), (COCCIDAE: HOMOPTERA). Pakistan Jour. Sci. Res. 1: 77-99, illus.

A detailed study.

1949a THE TAXONOMIC STATUS OF DROSICHA STEBBINGII (GREEN) AND DROSICHA MANGIFERAE (GREEN) (HEM. COCCID.). Bul. Ent. Res. 40: 351-354, illus.

Concludes *D. mangiferae* is a synonym of *D. stebbingi*.

See also Rahman, K. A., and Latif, A.

LATREILLE, P. A.

1798 MEMOIRE SUR UNE NOUVELLE ESPECE DE PSYLLE. KERMES. Bul. des Sci., Soc. Philomath., Paris 1, n. 15: 113.

Describes *Psylla juncorum*, but also involves question of proper application of name *Kermes*.

1802 [GENRE. COCHENILLE; COCCUS.] Hist. Nat. Gén. et Particulière des Crustacés et des Insectes, v. 3, 467 p. (267). Paris, Dufart.

"Example: *Coccus hesperidum* Lin."

1810 CONSIDERATIONS 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 FAMILIES. 444 p. (253, 266, 434). Paris, Schoell.

Characterizes *Dorthisia*, *Coccus*; cites types for each.

1825 GALLINSECTES. GALLINSECTA. *In* his Familles naturelles du règne animal, p. 429-430. Paris, Baillièrè.

Lists genera *Dorthisie*, *Cochenille*, *Monophlèbe* [apparently colloquial names.]

LATREILLE, P. A.—Continued.

1827 GALLINSECTEN (GALLINSECTES), GALLINSECTA. *In his* Natürliche Familien des Thierreichs, p. 428-429. Weimar, Industr. Comp. Apparently his first use of generic name *Monophlebus*; *Coccus* and *Dorthesia* also listed.

1829 LES GALLINSECTES (GALLINSECTA), DONT DE GEER FORME UN ORDRE PARTICULIER. *In* Cuvier, M. le Baron, Le Regne Animal distribué d'après son organisation, v. 5, p. 228-233. Uses name *Monophleba*.

LAWSON, P. B.

1917 SCALE INSECTS INJURIOUS TO FRUIT AND SHADE TREES. THE COCCIDAE OF KANSAS. *Kans. Univ. Bul. (Biol. Ser.)* 18, Pt. 1: 161-279, illus. Keys and descriptions for 75 coccids in 5 subfamilies and 29 genera, including *Orthezia ambrosiae*, *Ceroplastodes deani* n. spp.

LEAL, A. R.

1954 MATERIALES PARA LA BIOLOGIA DE MARGARODES VITIUM GIARD (HOMOP. STERNORRHINCHA) PARASITO RADICULAR DE LA VID EN MENDOZA. *Univ. Nac. de Cuyo, Min. Ed., Bol. Tec. Nos. 7 y 8*, p. 53-86, illus. Detailed study [probably is the Silvestri var. *orientalis*].

LE BARON, W.

1872 THE WILLOW BARK-LOUSE (MYTILASPIS SALICIS N. SP.) Noxious Insects of State of Ill., *Ann. Rpt. 2*: 140, illus. Also in *Ill. State Hort. Soc. Trans.* 1871: 140. *Mytilaspis salicis* n. sp. [is *Chionaspis salicis-nigrae*.]

LEDERMULLER, M. F.

1760 MIKROSKOPISCHER GEMÜTHS-UND AUGEN-ERGÖTZUNG. Nürnberg, de Launoy, 17, 202 p. (55-67; 72-76), illus. (some col.). Describes cochineal, lac, Polish cochineal, oak *Kermes*; some binomials but not consistent; *Coccum* offered as alternative to *Coccus*.

LEJEUNE, R. R., See Rabkin, F. B., and Lejeune, R. R.

LEONARDI, G.

1897 MONOGRAFIA DE GENERE ASPIDIOTUS (NOTA PREVENTIVA). *Riv. di Patol. Veg.* 5 (Nov. 1896-Feb. 1897): 283-286.

Key to 9 genera of Aspidioti, including *Odonaspis*, *Chentraspis*, *Phaulaspis* n. gen.; generic assignment of 51 species.

1897a INTORNO AL GENERE ASPIDIOTUS. *Riv. di Patol. Veg.* 5 (Nov. 1896-Feb. 1897): 375.

First actual publication of 4 subgeneric names proposed as new by Cockerell, U.S. Dept. Agr., Div. Ent. Tech. Bul. 6 (1897); first publication of *Dycryptaspis* Ckll. [in litt.]. *Selenaspis* used instead of *Selenaspidus*.

1897b GENERI E SPECIE DIASPITI. SAGGIO DI SISTEMATICA DEGLI ASPIDIOTUS. *Riv. di Patol. Veg.* 6: 102-134, illus. (Cont.)

Introductory; key to 5 diaspine tribes, to 9 genera of Aspidioti; keys and descriptions for *Chentraspis* n. gen. (2 species), *Spatheaspis* n. gen. (1 species), *Hemiberlesia* (9 species).

1898 MONOGRAFIA DEL GENERE MYTILASPIS. NOTA PREVENTIVA. *Riv. di Patol. Veg.* 6 (1897): 45(205)-47(207).

Key to 1 old genus, 3 new genera, 2 new subgenera; 57 coccids assigned generically; *Anoplaspis* n. gen., nom. nud., type *Mytilaspis metrosideri*; *M. serrifrons* n. sp.

1898a GENERI E SPECIE DIASPITI. SAGGIO DI SISTEMATICA DEGLI ASPIDIOTUS. *Riv. di Patol. Veg.* 6 (1897): 48(208)-78(236), illus. (Cont.)

Aspidiotus, key to 4 subgenera, including 2 new; keys to 33 included species; redescriptions of 11.

1898b DIAGNOSI DI COCCINIGLIE NUOVE. *Riv. di Patol. Veg.* 6 (1897): 115(273)-125(283), illus.

Diaspis gennadii, *Chionaspis berlesii*, *Mytilaspis serrifrons*, *Pulvinara newsteadi*, n. spp.

LEONARDI, G.—Continued.

- 1898c GENERI E SPECIE DI DIASPITI. SAGGIO DI SISTEMATICA DEGLI ASPIDIOTUS. Riv. di Patol. Veg. 7: 38-86, illus. (Cont.)
Redescriptions of 25 aspidiotine coccids.
- 1899 [GENERI E SPECIE DI DIASPITI.] SAGGIO DI SISTEMATICA DEGLI ASPIDIOTUS. Riv. di Patol. Veg. 7: 173-225, illus. (Cont.)
Keys and redescrptions for 27 coccids in *Aspidiotus* (1 species), *Aonidiella* (12 species), *Chrysomphalus* (14 species).
- 1899a SISTEMA DELLE "PARLATORIAE." NOTA PREVENTIVA. Florence Mariani. 7 p. Also in Riv. di Patol. Veg. 8: 203-209. 1900.
Review of previous inclusions; keys to 9 *Parlatoria*, 2 *Gymnaspis*; *Websteriella* n. subgen.
- 1900 [GENERI E SPECIE DI DIASPITI.] SAGGIO DI SISTEMATICA DEGLI ASPIDIOTUS. Riv. di Patol. Veg. 8: 298-363, illus. (Cont.)
Keys and redescrptions for 10 *Targionia*, 7 *Aonidia*; catalog of 40 coccids not treated in monograph; *Froggatiella*, *Cryptoaonidia*, n. subgen.; *Anoplaspis* n. gen., type *A. bambusarum*.
- 1901 UNA NUOVA SPECIE DI MYTILASPIS. Bol. di Ent. Agr. e Patol. Veg. 8: 120.
M. ritzemae-bosi.
- 1903 GENERI E SPECIE DI DIASPITI. SAGGIO DI SISTEMATICA DELLE MYTIL-ASPIDES. Portici. R. Scuola Super. Agr. Ann. (ser. 2) 5 (1904), 114 p., illus. Also issued as a separate under same title. Portici, Vesuviano, 114 p., illus. 1903.
Keys and descriptions for 8 genera, 2 new, and 47 species, 2 new; list of 12 others not discussed.
- 1903a GENERI E SPECIE DI DIASPITI. SAGGIO DI SISTEMATICA DELLE PARLATORIAE. Portici. R. Scuola Super. Agr. Ann. (ser. 2) 5 (1904), 59 p., illus. Also issued as a separate under same title. Portici, Vesuviano. 59 p., illus. 1903.
Tabular comparison of 5 diaspine tribes; keys and descriptions for 2 genera, 2 subgenera, 1 new; redescrptions for 17 coccids.
- 1903b SULLA LEUCASPIS RICCAE TARG. Portici. R. Scuola Super. Agr. Ann. (ser. 2) 5 (1904), 19 p. Also issued as a separate under same title. Portici, Vesuviano. 19 p., 1903. Introductory 3 pages also presented in Bol. di Ent. Agr. e Patol. Veg. Bol. 10: 76-77. 1903.
A detailed description with comments on relationships.
- 1906 DIAGNOSI DI COCCINGLIE NUOVE. Redia 3 (1905): 1-7, illus.
Aonidiella taxus, *Hemichionaspis orlandi*, *Aonidia picea*.
- 1906a DUE NUOVE SPECIE DI COCCINIGLIE. Portici. R. Scuola Super. Agri. Ann. (ser. 2) 6, 5 p., illus. Reprinted in Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 1: 65-67, illus. 1907.
Aonidia pinicola, *Leucaspis affinis*, n. spp.
- 1906b GENERI E SPECIE DI DIASPITI. SAGGIO DI SISTEMATICA DELLA LEUC-ASPIDES. Portici. R. Scuola Super. Agr. Ann. (ser. 2) 6, 32 p., illus. Reprinted in Portici. R. Scuola Super. Agr. Lab. Zool. Gen e Agr. Bol. 1: 68-96, illus. 1907.
Actenaspis, *Anamaspis* n. subgen.; redescrbes 9 species, lists 5 as uncertain; keys.
- 1906c GENERI E SPECIE DI DIASPITI. SAGGIO DI SISTEMATICA DELLE FIORINIAE. Redia 3 (1905): 16-65, illus.
Trulliflorinia, *Anameflorinia*, and *Adiscoflorinia*, all new subgenera; geographical distribution of the Fiorinae. 32 species discussed, 6 new; keys to genera and species.
- 1907 NOTIZIE SOPRA ALCUNE COCCINIGLIE DELL'ISOLA DI GIAYA RACCOLTE DAL PROF. O. PENZIG. Portici. R. Scuola Super. Agr. Ann. (ser. 2) 7, 22 p. Also in Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 1: 97-116, illus.
Describes 7 new species; note on 1.

LEONARDI, G.—Continued.

- 1907a NOTIZIE SOPRA UNA COCCINIGLIA DEGLI AGRUMI NUOVA PER L'ITALIA (AONIDIELLA AURANTII MASK.) Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 1: 117-134, illus. Also in Portici. R. Scuola Super. Agr. Ann. (ser. 2) 7, 20 p., 1907.
Detailed redescription of *A. aurantii*, comparison with *A. taxus*; some discussion of several other common species.
- 1907b CONTRIBUZIONE ALLA CONOSCENZA DELLE COCCINIGLIE ITALIANE. Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 1: 135-169, illus. Also in Portici. R. Scuola Super. Agr. Ann. (ser. 2) 7, 37 p., 1907.
Macrocerococcus, *Micrococcus* n. gen., 6 new species, 2 new varieties, notes on 2 described coccids.
- 1908 ALTRE NOTIZIE INTORNO ALLA DIASPIS PENTAGONA TARG. ED AL MODO DI COMBATTERLA. Portici. R. Scuola Super. Agr., Lab. di Zool. Gen. e Agr. Bol. 3: 12-21. Also published in Portici. R. Scuola Super. Agr. Ann. 8, 12 p. 1908.
Includes study of variations in numbers of perivulvar pores.
- 1908a SECONDA CONTRIBUZIONE ALLA CONOSCENZA DELLA COCCINIGLIE ITALIANE. Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 3: 150-191, illus. Also in Portici. R. Scuola Super. Agr. Ann. (ser. 2) 8, 44 p., illus. [4th paper].
Describes 15 new species, 1 new variety; notes on 19 other coccids.
- 1908b CHERMOTHECA ITALICA . . . COCCINIGLIE RACCOLTE IN ITALIA. Fasc. 4 (Nos. 76-100). Portici, Della Torre.
- 1909 CHERMOTHECA ITALICA . . . COCCINIGLIE RACCOLTE IN ITALIA. Fasc. 5 (Nos. 101-125). Portici, Vesuviano.
- 1911 CONTRIBUTO ALLA CONOSCENZA DELLE COCCINIGLIE DELLA REPUBBLICA ARGENTINA. Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 5: 237-284, illus. Also in Portici. R. Scuola Super. Agr. Ann. (ser. 2) 10: 3-50. 1911.
Describes 2 new genera, 25 new species.
- 1913 COCCINIGLIA DANNOSA AL TABACCO. R. Ist. Sper. per le Coltiv. dei Tabacchi, Bol. Tec. 12: 76-80, illus.
Pseudococcus nicotianae n. sp.
- 1913a CONTRIBUZIONE ALLO STUDIO DELLE COCCINIGLIE DELL'ERITREA (AFRICA ORIENTALE). Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 7: 27-38, illus.
Describes 4 new species.
- 1913b NUOVE SPECIE DI COCCINIGLIE RACCOLTE IN ITALIA. Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 7: 59-65, illus.
Pseudococcus grassii, *Aspidiotus viticola*, *Aonidiella inopinata*.
- 1913c NUOVE SPECIE DI DIASPITI VIVENTI SULL'OLIVO. Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 7: 66-71, illus.
Aonidia oleae, *Lepidosaphes olivina*, *Aspidiotus* sp.
- 1914 CONTRIBUTO ALLA CONOSCENZA DELLE COCCINIGLIE DELL'AFRICA OCCIDENTALE E MERIDIONALE. Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 8: 187-224, illus.
Describes 17 new species, 1 new variety; notes on 18 other coccids.
- 1918 TERZA CONTRIBUZIONE ALLA CONOSCENZA DELLE COCCINIGLIE ITALIANE. Portici. R. Scuola Super. Agr. Lab. Zool. Gen. e Agr. Bol. 12: 188-216, illus.
Describes 6 new species; notes on 19 other coccids; list of 147 Italian coccids in 49 genera, with hosts.
- 1920 MONOGRAFIA DELLE COCCINIGLIE ITALIANE. Portici, Della Torre. 555 p., illus. Appendix by F. Silvestri, p. 501-539. (Posthumous work edited by Silvestri.) Reviewed by G. F. Ferris, Ent. News 32: 157.
Introductory keys and descriptions for 8 subfamilies, 51 genera, and 144 coccids, including *Trabutina leonardi* Silvestri, n. sp. (p. 451-456); detailed descriptions of 3 lecanine coccids.

See also Berlese, A., and Leonardi, G.

LEPAGE, H. S.

- 1935 UMA ESPECIE NOVA DO GENERO CHIONASPIS (HOMOPTERA-COCCOIDEA). Inst. Biol. [Sao Paulo] Arch. 6: 167-170, illus.
C. hemepli.
- 1937 O NOVO GENERO DIASPINEO "COSTALIMASPIS" COM TRES ESPECIES NOVAS (HOM.-COCCOIDEA). Inst. Biol. [Sao Paulo] Arch. 8: 239-248, illus.
C. eugeniae, *C. cheloniformes*, *C. atibaiensis*.
- 1938 CATALOGO DOS COCCIDEOS DO BRASIL. Rev. de Mus. Paulista, 23: 327-491.
Catalog of 336 coccids in 107 genera; detailed species and host indices.
- 1939 DUAS NOVAS ESPÉCIES DE COCCIDEOS DO BRASIL (HOMOPTERA-COCCOIDEA). Inst. Biol. [Sao Paulo] Arq. 10: 313-318, illus.
Niveaspis insularis, *Conchaspis baiensis*.
- 1940 NOTAS SOBRE COCCOIDEOS DO BRASIL (COM DESCRICAO DE ESPECIE NOVA) (HOMOPTERA-COCCOIDEA). [Sao Paulo] Sec. da Agr. Papéis Avulsos do Dept. Zool. 1: 69-71, illus.
Asterolecanium bondari n. sp.; notes on 2 other coccids.
- 1941 DESCRICAO DE UM NOVO GENERO E NOVA ESPÉCIE DE COCCIDEO PRODUTOR DE GALHAS (HOMOPTERA-COCCOIDEA). Inst. Biol. [Sao Paulo] Arq. 12: 141-145, illus.
Aculeococcus morrisoni n. gen. and sp.
- 1942 DESCRICAO DE ONZE ESPÉCIES NOVAS DE COCCIDEOS DO BRASIL (HOMOPTERA-COCCOIDEA). Inst. Biol. [Sao Paulo] Arq. 13: 173-189, illus.

LEPAGE, H. S., and DE FIGUEIREDO, E. R., JR.

- 1947 AS PRAGAS DAS ORQUIDÁCEAS. Inst. Biol. (Sao Paulo), Ostrensky. 49 p. (35-44), illus. (col.).
Describes 11 coccids on orchids and illustrates 7.

LEPAGE, H. S., and GIANNOTTI, O.

- 1942 CONTRIBUICAO PARA O LEVANTAMENTO FITOSSANITARIO DO NORDESTE BRASILEIRO. COCCOIDEOS ASSINALADOS NOS ESTADOS DO CEARA, PARAIBA DO NORTE E RIO GRANDE DO NORTE. Soc. Brasil de Agron. Bol. 5: 444-458, illus.
Melanaspis oliveirai n. sp.; reports on 97 coccid collections.
- 1943 NOTAS COCCIDOLOGICAS (HOMOPTERA-COCCOIDEA). Inst. Biol. [Sao Paulo] Arq. 14: 331-350, illus.
Redescriptions or notes for 10 coccids, with 6 generic transfers; 2 new species.
- 1944 ALGUMAS ESPÉCIES NOVAS DE COCCÍDEOS DO BRASIL. (HOMOPTERA-COCCOIDEA). Inst. Biol. [Sao Paulo] Arq. 15: 299-306, illus.
Mycetaspis juveninae, *Melanaspis aristotelesi*, *Luzulaspis saueri*.
- 1946 CONTRIBUICAO PARA O CONHECIMENTO DOS COCCIDEOS DO BRASIL (HOMOPTERA-COCCOIDEA). Inst. Biol. [Sao Paulo] Arq. 17: 37-46, illus.
Describes 5 new species.

LEPAGE, H. S., and PIZA, M. T.

- 1941 REDESCRICAO DO "NEOLECANIUM SILVEIRAI (HEMPEL)" (HOMOPTERA-COCCOIDEA), SÉRIA PRAGA DA VIDEIRA, E SEU CONTROLE. Inst. Biol. [Sao Paulo] Arq. 12: 21-26, illus.

LE PELLEY, R. H.

- 1935 THE COMMON COFFEE MEALY-BUG OF KENYA (HEM. COCCIDAE). Stylops 4: 185-188, illus.
Pseudococcus kenya n. sp.
- 1943 AN ORIENTAL MEALYBUG (PSEUDOCOCCUS LILACINUS CKLL.) (HEMIPTERA) AND ITS INSECT ENEMIES. Roy. Ent. Soc. London, Trans. 93: 73-93, illus.
Discussion of synonymy and misidentifications of this mealy-bug and its distribution and host associations.

LE PELLEY, R. H.—Continued.

1952 VARIATION IN A CHARACTER IN SOME SPECIES OF PSEUDOCOCCUS (HEMIPTERA: COCCIDAE). Roy. Ent. Soc. London, Proc. Ser. B, 21: 83-85.

Reports on variation in numbers of multilocular disk pores in 5 mealybugs.

LEPESME, P.

1947 LES INSECTES DES PALMIERS. Paris, André, 903 p. (74, 76-92, 94-95, 100, 102, 104-105, 136, 181-268, 667-668, 671, 803, 806), illus.

A compilation listing or discussing nearly 200 coccids in 8 families.

LEPINEY, J. DE, and MIMEUR, J. M.

1931 LES COCCIDES DU MAROC. Rev. de Path. Veg. et d'Ent. Agr. de France 18: 243-255.

Lists 79 coccids with host and locality notes.

LEUCKART, R. (i.e. K.G.F.R.)

1858 ZUR KENNTNISS DES GENERATIONS WECHSELS UND DER PARTHENOGENESIS BEI DEN INSECTEN. Frankfurt, Meidinger. 112 p., illus. (36-45).

Lecanium (sic) *hesperidum*, *Coccus adonidum*, *Aspidiotus* spp. considered in discussion of coccid parthenogenesis.

LEVER, R. A.

1933 ENTOMOLOGISTS ANNUAL REPORT FOR THE YEAR 1931-1932. Brit. Solomon Isl. Agr. Com., Agr. Gaz. 1: 3-6. (Not seen.)

Phenacoccus horridus Green ms., *Pseudococcus leverii* Green ms.

LEVER, R. J. A. W.

1945 AN ANNOTATED CHECK LIST OF THE MEALYBUGS AND SCALE INSECTS OF FIJI. Agr. Jour. [Fiji] 16 (2): 41-44.

A list of 51 coccids.

LEWIS, R. T.

1889 NOTE ON THE MALE OF ICERYA PURCHASI, FROM NATAL. Quekett Micros. Club. Jour. (ser. 2) 4: 29-31, illus.

Descriptive notes with figure.

LEYDIG, F.

1854 ZUR ANATOMIE VON COCCUS HESPERIDUM. Ztschr. f. Wiss. Zool. 5: 1-12, illus.

Description of various internal organs.

LI, FENG-SWEN, and MA, TSING-CHAO.

1935 A LIST OF COTTON INSECTS OF THE WORLD. Chekiang Prov. Bur. Ent. 1934 Year Book 4: 245-271.

Lists 25 coccids; indicates distribution on host.

LICHTENSTEIN, J.

1875 COMMUNICATIONS. Soc. Ent. de France Ann. (Bul. Ent.) (ser. 5) 5: lxxv-lxxvi.

Notes existence of wingless male in *Coccus ulmi*.

1877 APTEROUS MALES IN THE COCCIDAE. Soc. Ent. de France Ann. (Bul. Ent.) (ser. 5) 7: cviii. Also in Ent. Monthly Mag. 14: 34-35.

Describes male and female of coccid named *Fonscolombia graminis* n. gen. and sp.

1877a QUELQUES FEUILLETS DE MON JOURNAL. Schweiz. Ent. Gesell. Mitt. 5: 297-303 (299-300, 302).

Proposes *Laboulbenia brachypodii* n. gen. and sp.; later in same paper, synonymyzes with *Antonina purpurea*; mentions *Rupertsia* Sign., an apparent lapsus for *Ripersia*.

1879 RITSEMIA PUIPHERA, EINE NEUE SCHILDLAUS, BESCHRIEBEN VON JULES LICHTENSTEIN (MONTPELLIER). Stettin Ent. Ztg. 40: 387-389.

1879a LES COCHENILLES DE L'ORMEAU; UN GENRE NOUVEAU, RITSEMIA PUIPHERA. Acad. des Sci., Paris, Compt. Rend. 88: 870-871. Also in Ann. and Mag. Nat. Hist. (ser. 5) 3: 455-457 (English translation).

LICHTENSTEIN, J.—Continued.

- 1879b LES PUCERONS DES ORMEAUX (APHIDES—COCCIDES) AVEC DESCRIPTION DE DEUX INSECTES NOUVEAUX (PEMPHIGUS ULMI—RITSEMIA PUPIFERA). COCCIDIENS. Feuille des Jeunes Nat. 10: 22-24.
Descriptive and biological notes on 5 coccids; keys to females and males.
- 1880 [NOTES ON COCCIDS.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 5) 10: xlv-xlvi.
Planchonia hederæ n. sp.; 4 other coccids on *Hedera* mentioned.
- 1881 [ASPIDIOTUS PYRI LICHT.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 1: li-lii.
Named as new; compared to *A. ostreaeformis* Curt.
- 1881a [NOTES.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 1: cxiv-cxvi.
Boisduvalia parietariae n. sp.; notes on several other coccids.
- 1882 UN NOUVEAU MALE APTERE CHEZ LES COCCIDIENS (ACANTHOCOCCUS ACERIS SIGN.) Le Naturaliste 4: 58. Also in [Paris] Acad. des Sci. Compt. Rend. 94: 499-501; Ent. Monthly Mag. 18: 250-251; Ann. and Mag. Nat. Hist. (ser. 5) 9: 404-405; [Stettin] Ent. Ztg. 43: 345-347.
Apterous male described; *Gossyparia spuria*; *Ritsemia pupifera* also mentioned.
- 1882a BEMERKUNGEN ZU COCCUS RUBI SCHRANK. Wien. Ent. Ztg. 1: 124.
Descriptive information; erects genus *Tetrura* for the species.
- 1882b RECTIFICATIONS CONCERNING HOMOPTERA. Ent. Monthly Mag. 18: 275.
Notes that *Coccus lataniae* Bdv. is an aphid; proposes genus name *Tetrura* for *Coccus rubi* Schrank.
- 1882c [NOTE ON BOISDUVALIA LATANIAE SIGN.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 2: xvi. Essentially the same note in Acad. des Sci. Paris Compt. Rend. 94: 1062-1063 (1882) and in Le Naturaliste 4: 28-29, 106-107 (1882).
First transfer of *Coccus lataniae* Bdv., an aphid, to *Cerataphis*.
- 1882d [NOTES ON VARIOUS COCCIDS.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 2: xxxvi-xxxviii.
Diaspis coccois Licht. proposed as a new name.
- 1882e [REMARKS ON AN APHID AND SOME COCCIDS.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 2: lxxiv-lxxv.
Proposes *Tetrura* for *Coccus rubi* Schrank; proposes name *Planchonia valloti* in place of *P. hederæ* Licht.; mentions 3 other coccids.
- 1882f LES MALES DE QUELQUES COCCIDIENS. Soc. Ent. Ital. Bul. 14: 329-330.
Brief mention of 10 coccids; *Tetrura* n. gen. for *Coccus rubi*.
- 1884 NOTE ON COCCIDS FROM MEXICO. Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 4: cv-cvi.
Claims *Coccus tomentosus* of Targioni is an *Eriococcus*; other notes.
- 1885 [CEROPLASTES DUGESII.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 5: cxli.
- LICHTENSTEIN, [J.], and SIGNORET, V.
1886 [LECANOPSIS (OR LECANODIOPSIS (SIC)) DUGESII N. SP.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 6) 6: xxxix.
Ceroplastodes dugesii of current usage.
- LIDGETT, J.
1898 NOTES AND OBSERVATIONS ON SOME VICTORIAN COCCIDAE. Wombat 3 (4): 80-95, illus.
Brief review of classification; lists of subfamilies and genera; brief discussion of 16 coccids in 5 subfamilies; *Dactylopius similans* n. sp.
- 1899 A CATALOGUE OF AUSTRALIAN COCCIDAE. Wombat 4 (3): 37-64.
Catalog of 229 coccids in 41 genera, with citations and host and locality data for each; *Brachyscelis turbinata*, *Mytilaspis lidgetti*, *Pulvinaria paradelpha* nomina nuda.

LIDGETT, J.—Continued.

- 1901 A NEW SCALE-INSECT PEST. Austral. Farm and Home, p. 228-230, illus.
Redescription of *Dactylopius australiensis*.
- 1091a AUSTRALIAN GALL-COCCIDAE. Sci. Gossip (n.s.) 8: 77-78, illus.
Brachyscelis turbinata, n. sp., *B. munita elongata*, n. var.
- 1901b A NEW VICTORIAN COCCID. Victorian Nat. 18: 59.
Lecanium australis.

LINDEMAN, K.

- 1886 BARLEY LOUSE (WESTWOODIA HORDEI LINDEMAN), AN INJURIOUS INSECT OF SOUTH RUSSIA. (In Russian.) From No. 8 "Notes" Imp. Obschch. Sel. Khoz., S. Russia, 6 p., illus.

LINDGREN, D. L., see GERHARDT, P. D., and LINDGREN, D. L.

LINDINGER, L.

- 1905 ZWEI NEUE ARTEN DER COCCIDENGATTUNG LEUCASPIS. Zool. Anz. 29: 252-254.
L. corsa, *L. kermanensis*.
- 1905a ZWEI NEUE SCHILDLÄUSE AUS ASIEN. Insekten Börse 22: 131-132.
Parlatoria pseudaspidotus, *Cryptoparlatoria leucaspis*, n. gen. and spp.; changes *Parlatoria* to *Parlatoria*.
- 1906 DIE SCHILDLAUSGATTUNG LEUCASPIS. Jahrb. der Hamburg. Wiss. Anst. 23 (1905) Beih. 3: 60 p., illus. Also published as Hamburg. Bot. Staatsinst., Abt. f. Pflanzenschutz 8 (1905/06), 60 p. (Independently paged.)
A monograph covering generic relationships, keys, and descriptions for 2 sections and 9 species; literature catalog; new section names *Eulecaspis* and *Salicicola*.
- 1906a LECANIUM SERICEUM N. SP. Insekten Börse 23: 147; 152, illus.
- 1906b DIE WACHOLDERSCHILDLAUS, DIASPIS JUNIPERI (BOUCHÉ). Naturw. Ztschr. f. Land- u. Forstwirtschaft. 4: 478-485, illus.
History, description, synonymy, hosts, distribution.
- 1907 BESTIMMUNGSTAFEL DER DEUTSCHEN DIASPINEN. Ent. Bl. 3: 4-6. Also in Hamburg. Bot. Staatsinst., Abt. f. Pflanzenschutz 10 (1907/08), 2 p. (Separate No. 3.)
Key to 15 coccids based, in part, on host associations.
- 1907a BETRACHTUNGEN ÜBER DIE COCCIDEN-NOMENKLATUR. Ent. Wochenblatt 24 (5): 19-20; (6): 22-23.
Numerous changes in coccid names on ground of incorrect formation.
- 1907b FRÄNKISCHE COCCIDEN. Ent. Bl. 3: 113-117; 136-139. Also in Hamburg Bot. Staatsinst., Abt. f. Pflanzenschutz 9 (1906/07), 8 p. (Independently paged.)
Annotated list of 28 Franconian coccids with host and collection data; *Globulicoccus*, n. subgen.
- 1908 NOMENKLATURBETRACHTUNGEN. Berlin Ent. Ztschr. 52 (1907): 83-95, illus.
Observations on application of various rules to coccid names.
- 1908a DIE GEOGRAPHISCHE VERBREITUNG DER SCHILDLÄUSE IM DIENSTE DER PFLANZENGEOGRAPHIE. EINE ZOOLOGISCHE BITTE AN DIE BOTANIKER. Allg. Bot. Ztschr. 14: 37-40.
Brief discussion of the close relations between coccids and plants and the possible use of these relations in plant geography.
- 1908b COCCIDENSTUDIEN. I. ZUR SYSTEMATIK DER DIASPINEN. II. KRITISCHE NOTIZEN. Berlin. Ent. Ztschr. 52 (1907): 96-106.
Proposes a new grouping of diaspine genera; comments on various old names; *Furcaspis* n. gen., *Chrysomphalus barbuzano*, n. sp.; miscellaneous notes on coccid literature.

LINDINGER, L.—Continued.

- 1908c EINE BERICHTIGUNG ZU MEINER ZUSAMMENSTELLUNG "FRÄNKISCHER COCCIDEN". Ent. Bl. 4: 181.
Substitutes *Lecanium franconicum* Ldgr. for *L. rubellum* Ldgr., preoccupied.
- 1908d EIN NEUER ORCHIDEEN-SCHÄDLING, LEUCODIASPIS COCKERELLI (DE CHARM.) GREEN. Jahrb. der Hamburg. Wiss. Anst. 25 (1907) Beih. 3: 121-124, illus.
Full description.
- 1908e LITERATUR-REFERATE.—MARLATT, C. L. NEW SPECIES OF DIASPINE SCALE INSECTS. Ent. Bl. 4: 240-241.
A critical review; synonyms given for *Parlatoria mangiferae* Marl. and for *Aspidiotus cocotiphagus* Marl.
- 1909 DIE SCHILDLAUSGATTUNG GYMNASPIS. Deut. Ent. Ztschr., 1909: 148-153, illus.
G. clusiae n. sp.; redescription of genus and genotype.
- 1909a ZWEI LORBERSCHÄDLINGE AUS DER FAMILIE DER SCHILDLÄUSE. Ztschr. f. Pflanzenkrank. 18 (1908): 321-336, illus.
Discusses especially *Aspidiotus britannicus*, *Aonidia lauri*; other coccids mentioned; key to 5 species.
- 1909b BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE UND IHRER VERBREITUNG. Ztschr. f. Wiss. Insektenbiol. 5: 105-110; 147-152; 220-226, illus.
Collection and other notes for 67 coccids, including 1 new genus and 3 new species; some generic reassignments.
- 1909c [BEMERKENSWERTE SCHILDLÄUSE AUF DEN IM BERICHTSJAHRE UNTERSUCHTEN PFLANZEN.] In Brick, Jahrb. der Hamburg. Wiss. Anst. 26 (1908): 448-451, 464-466.
Aspidiotus corticis-pini n. sp.; *Asterolecanium lineare* n. sp.; 53 other species listed.
- 1909d DIE SCHILDLAUSGATTUNG SELENASPIDUS. Jahrb. der Hamburg. Wiss. Anst. 26 (1908) Beih. 3: 1-12, illus. Also in Hamburg. Bot. Staatsinst. Abt. f. Pflanzenschutz 11 (1908/1909): 1-12, illus. 1909. (Independently paged.)
Keys and description for 7 *Selenaspis*.
- 1909e AFRIKANISCHE SCHILDLÄUSE. I. (DIASPINEN AUS KAMERUN.) UND II. (EINE DER SAN-JOSE SCHILDLAUS ÄHNLICHE SÜDAFRIKANISCHE DIASPINE.) Jahrb. der Hamburg. Wiss. Anst. 26 (1908) Beih. 3: 13-46, illus. Also in Hamburg. Bot. Staatsinst. Abt. f. Pflanzenschutz 11 (1908/1909): 13-46, illus. 1909. (Independently paged.)
Describes 1 new genus, 21 new species; notes on 2 other coccids.
- 1910 DIE COCCIDEN-LITERATUR DES JAHRES 1908. Ztschr. f. Wiss. Insektenbiol. 6: 123-124, 151-156, 190-192, 258-262, 323-330.
Reviews of published papers; occasional critical notes on synonymy or identity; 4 new genera, 1 new species proposed.
- 1910a DIE SCHILDLAUSGATTUNG GYMNASPIS. (HEMIPT.) II. Deut. Ent. Ztschr. 4: 437-440, illus.
G. aberemoae n. sp.; discussion of relationships.
- 1910b AFRIKANISCHE SCHILDLÄUSE. III. (COCCIDEN DES OSTLICHEN AFRIKAS.) Jahrb. der Hamburg. Wiss. Anst. 27 Beih. 3: 33-48a, illus. Also in Hamburg. Bot. Staatsinst. Abt. f. Pflanzenschutz 12, 16 p. (Independently paged.)
Discusses 33 coccids, including 11 named as new. Reports synonymy (48a) of *Chionaspis unita* Ldgr. with *Hemichionaspis chionaspiformis* (Newst.), but claims name should stand *chionaspitiformis* with Green as author.
- 1910c BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE UND IHRER VERBREITUNG II. [in part.] Ztschr. f. Wiss. Insektenbiol. 6: 371-376, 437-441, illus.
Collection and other notes for about 70 coccids, including 1 new genus, 15 new species.

LINDINGER, L.—Continued.

- 1911 BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE UND IHRER VERBREITUNG II. [in part.] Ztschr. f. Wiss. Insektenbiol. 7: 9-12, 86-90, 126-130, 172-177, 244-247, 353-358, 378-383, illus.
Collection data for numerous coccids received from all parts of the world; 16 new species described; *Crypthemichionaspis* n. gen.
- 1911a AFRIKANISCHE SCHILDLÄUSE. IV. (KANARISCHE COCCIDEN, EIN BEITRAG ZUR FAUNA DER KANARISCHEN INSELN.) Jahrb. der Hamburg. Wiss. Anst. 28 (1910) Beih. 3: 1-38, illus. Also in Hamburg. Bot. Staatsinst. Abt. f. Pflanzenschutz 12 (1909/1910): 38 p. (Independently paged.)
Discusses 39 coccids, including 12 described as new; gives host-coccid tabulation.
- 1912 NACHTRAG ZU DEN BEITRÄGEN ZUR KENNTNIS DER SCHILDLÄUSE USW. II. Ztschr. f. Wiss. Insektenbiol. 8: 31.
Aspidiotus bavaricus n. sp.
- 1912a EINE WEITVERBREITETE GALLENERZEUGENDE SCHILDLAUS. Marcellia 11: 3-6.
Discusses synonymy, distribution, and hosts of *Asterolecanium fimbriatum*.
- 1912b DIE SCHILDLÄUSE (COCCIDAE) EUROPAS, NORDAFRIKAS, UND VORDERASIENS, EINSCHLIESSLICH DER AZOREN, DER KANAREN UND MADEIRAS. Stuttgart, Ulmer. 388 p., illus.
Survey of coccid classification; alphabetical generic plant host list with key to infesting coccids under each, every coccid record numbered serially; coccid geographical distribution by country, based on reference to serial numbers; list of coccid synonyms; list of 241 valid coccid names with serial numbers to show plant associations.
- 1913 AFRIKANISCHE SCHILDLÄUSE. V. (DIE SCHILDLÄUSE DEUTSCHOSTAFRIKAS.) Jahrb. der Hamburg. Wiss. Anst. 30 (1912) Beih. 3: 59-95, illus.
Also in Hamburg. Bot. Staatsinst. Abt. f. Pflanzenschutz 15 (1912/1913): 1-37. (Independently paged.)
Key to 8 subfamilies and 25 genera; lists or discusses 89 coccids, including 8 described as new; gives host list.
- 1913a COCCIDAE. In Michaelsen, W., and Hartmeyer, R. Die fauna Südwest-Australiens 4: 345-348.
List of 9 coccids in 6 genera with collection data; includes *Aclerda sella-hispanica* n. sp.
- 1913b EINIGE COCCIDEN AUS DEM AUSSERDEUTSCHEN OSTAFRIKA. [SUPPLEMENT TO AFRIKANISCHE SCHILDLÄUSE V.] Jahrb. der Hamburg. Wiss. Anst. 30 (1912), Beih. 3: 96-100, illus. Also in Hamburg. Bot. Staatsinst. Abt. f. Pflanzenschutz 15 (1912/1913): 38-42. (Independently paged.)
Discusses 9 coccids, including 4 described as new.
- 1914 DIE COCCIDEN-LITERATUR DES JAHRES 1909. Ztschr. f. Wiss. Insektenbiol. 10: 114-120, 155-160, 243-249.
Reviews of published papers; *Jaapia* new genus proposed; some synonymy indicated.
- 1918 CATÁLOGO DE LES CÓCCIDOS (HEM. HOM.) DE LAS ISLAS CANARIAS. Soc. Ent. de Espana Bol. 1: 51-52.
Check list of 34 coccids.
- 1919 OBSERVATIONS AND SCIENTIFIC INVESTIGATIONS IN THE CANARY ISLANDS (VIII). A NEW COCCIDAE OF THE GENUS PALAEOCOCCUS. (Not seen). Eco del Magisterio Canario 5 (237): 2-3.
P. tabaybae.
- 1921 TÄTIGKEITSBERICHT DER SCHÄDLINGSABTEILUNG DES INSTITUTS FÜR ANGEWANDTE BOTANIK ZU HAMBURG FÜR DIE ZEIT VOM 14. FEBRUAR BIS ZUM 30. JUNI 1920. Ztschr. f. Angew. Ent. 7: 424-440 (426-429, 432-436, 439-440).
Gives locality and host records for numerous coccids and nomenclatorial comment on some.

LINDINGER, L.—Continued.

- 1921a **RANDBEMERKUNGEN**. Ent. Rundschau 38: 9; 11-12.
Miscellaneous notes: *Kermes lindingeri* King is *K. quercus*.
- 1923 **EINFÜHRUNG IN DIE KENNTNIS DER DEUTSCHEN SCHILDLÄUSE**. Ent. Jahrb. 32: 138-152, illus.
General discussion; keys to 8 subfamilies and 32 genera; list of species under each genus.
- 1924/25 **DIE SCHILDLÄUSE DER MITTELEUROPÄISCHEN GEWÄCHSHÄUSER**. Ent. Jahrb. 33/34: 167-191.
Review of 47 European greenhouse coccids with identification keys and notes on distribution and hosts.
- 1928 **BERICHT ÜBER DIE TÄTIGKEIT DER ABTEILUNG FÜR PFLANZENSCHUTZ . . . A. überwachung der ein- und ausfuhr von obst und pflanzen (amtliche pflanzenbeschau.)** Hamburg. Inst. f. Angew. Bot. Jahresber. 1924/26: 94-110 (94-107).
Lists 80 coccids as interceptions; 51 coccid names reassigned or misidentification corrected [sometimes erroneously].
- 1930 **BERICHT ÜBER DIE TÄTIGKEIT DER ABTEILUNG FÜR PFLANZENSCHUTZ . . . A. DIE ÜBERWACHUNG DER EIN- UND AUSFUHR VON OBST, PFLANZEN UND PFLANZENTEILEN (AMTLICHE PFLANZENBESCHAU)**. Hamburg. Inst. f. Angew. Bot. Jahresber. f. 1929: 88-111 (89, 90, 92, 93, 96, 97-111).
Collection records for about 75 coccids; *Lepidosaphoides* new genus proposed.
- 1931 **BERICHT ÜBER DIE TÄTIGKEIT DER ABTEILUNG FÜR PFLANZENSCHUTZ . . . A. die überwachung der ein- und ausfuhr von obst, pflanzen und pflanzenteilen (amtliche pflanzenbeschau)**. Hamburg. Inst. f. Angew. Bot. Jahresber. f. 1930: 102-125 (103, 104, 106, 114-125).
Collection records for 75 coccids; 2 pages name changes for previous reports.
- 1931a **BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE III**. Ent. Rundschau 48: 8-10, 19-21, 26-28, 43-44, 68, 79-80, 89-92, 113-115, 122-123, 180. (Cont.)
Citations for Lindinger new genera, new species, and new varieties; numerous changes in generic assignments; synonymy.
- 1932 **DIE SYNONYMIE VON WALKERS COCCIDEN (HEM.)** Deut. Ent. Gesell. Mitt. 3: 26-27.
Pseudischnaspis anassarum n. sp.; lists opinion of synonymy of 29 coccids treated by Walker.
- 1932a **BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE III. (hemipt. cocc.)** Ent. Rundschau 49: 79. (Concl.)
Reassigns 8 coccids to new generic position or synonymy.
- 1932b **BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). DER GATTUNGSNAME LEUCASPIS IST UNGILTIG**. Ent. Ztschr. 46: 106-107.
Substitutes *Leucodiaspis*.
- 1932c **BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). WISSENSCHAFTL. BALLAST: MS-NAMEN OHNE BESCHREIBUNG U. DGL**. Ent. Rundschau 49: 203-205.
Comment on 15 inadequately proposed coccid names.
- 1932d **BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (HEM.-HOM., COCC.) EINIGE VERSCHOLLENE SCHILDLAUS-BESCHREIBUNGEN**. Deut. Ent. Gesell. Mitt. 3: 125-126.
Comment on authorships and identity of several coccids.
- 1932e **RANDBEMERKUNGEN**. Ent. Rundschau 49: 222-223.
Considers *Coccus asari* Frank 1801 an aleurodid.
- 1932f **BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE**. Konowia 11: 177-205.
Variaspis, *Leucaspidopsis* n. gen.; several new names; numerous opinions on identity of old records, generic reassignments, name changes.

LINDINGER, L.—Continued.

- 1932g BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (HEMIPTERA-HOMOPTERA, COCCIDAE). Wien. Ent. Ztg. 49: 217-225.
Miscellaneous critical notes involving authorship, synonymy, identity.
- 1933 BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE. DIE GATTUNG PSEUDOCHERMES NITSCHKE 1895. Ent. Rundschau 50: 31-32, 50.
Status of genus and inclusions; notes and changes for several other coccids.
- 1933a BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (HEMIPT.-HOMOPT. COCCID.). Ent. Anz. 13: 77-78, 107-108, 116-117, 143, 159-160, 165-166. (Cont.)
Proposes changes in status of species of *Eriococcus*, *Kermes*, *Physokermes*, *Phenacaspis*.
- 1933b BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). TACHARDIA ODER LACCIFER? Ent. Ztschr. 46: 228.
Restores *Tachardia* to use on grounds that Oken's proposal of *Laccifer* is not binary.
- 1933c EINE FÜR DEUTSCHLAND NEUE SCHILDLAUS, LEPIDOSAPHES CONCHIFORMIS. Ztschr. f. Pflanzenkrank. u. Pflanzenschutz. 43: 167-169.
Considers *L. rubri* Thiem a synonym.
- 1933d NACHTRAG ZU MEINEM AUFSATZ ÜBER TACHARDIA. Ent. Ztschr. 47: 39.
Indicates necessity for use of combinations *Tachardia lacca* and *Lepidosaphes conchiformis*.
- 1933e BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). DIE RICHTIGE BENENNUNG VON ASPIDIOTUS NIGER SIGN. UND TARGIONIA NIGRA SIGN. Ent. Ztschr. 47: 68.
Concludes these names should stand as *Targionia nigra* and *T. kermoides*.
- 1934 BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (HEMIPT.-HOMOPT., COCCID.). Ent. Anz. 14: 15-16, 26-27, 36-37, 62-64. (Cont.)
Validates *Apteronidia* and catalogs 16 inclusions transferred from other genera; further notes on *Paleolecanium* and miscellaneous genera.
- 1934a WAS IST DER RICHTIGE NAMEN VON LECANIUM CORNI MARCHAL? Ztschr. f. Pflanzenkrank. 44: 76-80.
Proposes *Palaeolecanium xylostei* (Schr.) comb. nov. as correct name; catalogs synonyms.
- 1934b UEBER SCHILDLÄUSE. Deut. Dendrol. Gesell. Mitt. n. 46: 169-175, illus.
Brief mention or listing of numerous species, with some discussion on distribution and hosts.
- 1934c MELANASPIS EUGENIAE SP. NOV. AUS PORTO RICO. (HOMOPT. COCCOIDEA). Ent. Rundschau 51: 45-46.
- 1934d EINE VERGESSENE SCHILDLAUS-BESCHREIBUNG P. BOUCHÉS. Ztschr. f. Pflanzenkrank. 44: 585-588.
Redescribes *Coccus amaryllidis* Bouché in *Trionymus*; catalogs its synonyms and literature.
- 1934e DIE SCHILDLAUS-ARTEN P. FR. BOUCHE'S UNE IHRE DEUTUNG. Ent. Jahrb. 43: 153-169.
Reviews 38 coccids described by Bouché, and assigns each in proper place in present-day system.
- 1935 DIE NUNMEHR GILTIGEN NAMEN DER ARTEN IN MEINEM "SCHILDLAUS-BUCH" UND IN DEN "SCHILDLÄUSEN DER MITTELEUROPÄISCHEN GEWACHSHÄUSER." Ent. Jahrb. 44: 127-149.
Lists the 241 valid names of "Die Schildläuse" and indicates current view of validity, synonymy, etc. of each; same for 47 coccids in greenhouse coccid paper.
- 1935a NEUE BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). Ent. Ztschr. 49: 121-123. (Cont.)
Substitutes *Erium* for *Trionymus*, etc., and lists inclusions; discusses *Myzolecanium*.

LINDINGER, L.—Continued.

- 1935b NEUE BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). *Lecanium hemisphaericum* Targioni = *saissetia palmae* (Haworth) Fern. Ent. Ztschr. 49: 135. (Cont.)
- 1936 NEUE BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). Ent. Jahrb. 45: 148-167. (Cont.)
Resurrects *Mytilococcus*; notes on 2 coccids; additions (added species and distribution) to material in "Die Schildläuse" (304 notes).
- 1936a NEUE BEITRÄGE ZUR KENNTNIS DER SCHILDLÄUSE (COCCIDAE). Ent. Ztschr. 49: 444 (Concl.)
Proposes name *fagisuga* nov. for *Coccus fagi* Baer. 1849, nec Roemer 1789 [actually Sulzer 1776].
- 1936b WIE NEUE SCHILDLAUS-ARTEN GEMACHT WERDEN. Ent Ztschr. 50: 285-286.
Notes on 6 coccid name changes resulting from transcription errors.
- 1936c ÜBER EINIGE SCHILDLÄUSE DES BERLINER BOTANISCHEN GARTENS. (coccidae). Arb. über Physiol. u. Angew. Ent. 3: 153-155.
List of 17 coccids collected, with host records.
- 1937 VERZEICHNIS DER SCHILDLAUS-GATTUNGEN. (HOMOPTERA-COCCOIDEA HANDLIRSCH 1903). Ent. Jahrl. 46: 178-198. (Lindinger 1955 states "appeared 1936.")
Alphabetical list of 657 coccid generic names with indication of Lindinger synonymy; genotypes indicated for 302 considered valid.
- 1938 VERZEICHNIS DER AUS NORDWEST-DEUTSCHLAND, INSBESONDERE AUS GROSS-HAMBURG GEMELDETEN SCHILDLÄUSE (HOMOPTERA-COCCOIDEA). Hamburg, Ver. f. Naturw. Heimatforsch. Verh. 26 (1937): 1-15.
A list of 74 coccids with their food-plants from northwest Germany, particularly Hamburg.
- 1939 NACHTRAG ZUR SCHILDLAUS-FAUNA NORDWESTDEUTSCHLANDS. Bombus 10: 37-38.
Pseudoaonidia tricuspadata n. sp. described; 20 additional coccids listed.
- 1942 COCCOIDEA (HOMOPT.) In Titschack, Beiträge zur Fauna Perus Bd. 2. (Not seen; destroyed in war.) Reprinted in 1952 as Beiträge zur Fauna Perus, Bd. 3 [not 2], p. 112-122.
Lists 53 coccids from Peru, including *Ceroplastes titschacki* n. sp. *Phaenococcus herbarum* n. name. [These species found on pages 120 and 122 in the 1942 edition and on pages 113 and 115 in the 1952 edition.]
- 1943 DIE UNTERSCHIEDE DER NORDWESTDEUTSCHEN "LECANIUM"—GATTUNGEN UND ARTEN. Bombus 25: 113-114.
Note on the recognition and proper designation of northwest German lecanine coccids; corrected names for 16 previously reported.
- 1943a DIE SCHILDLAUSNAMEN IN FULMEKS WIRTSINDEX 1943. Arb. über Morph. u. Taxonom. Ent. 10: 145-152.
Critical comment on coccid names used, with numerous corrections.
- 1943b VERZEICHNIS DER SCHILDLAUS-GATTUNGEN. I. NACHTRAG. (HOMOPTERA COCCOIDEA). Ztschr. der Wein. Ent. Gesell. 28: 205-208, 217-224, 264-265.
A wide variety of notes, new names, transfers, synonymy, etc. arranged alphabetically by genus.
- 1943c BEMERKUNGEN ZUR SCHILDLAUS-NOMENKLATUR. Arb. über Morphol. und Taxonom. Ent. 10: 248-252.
Proposes *Dactylopius sativus* and *silvestris* for cultivated and wild cochineal; substitutes *Tychea* Koch for *Ripersia* et al., and lists inclusions.
- 1944 BERICHTIGUNG ZU DEN "BEMERKUNGEN ZUR SCHILDLAUSNOMENKLATUR". Arb. über Morph. u. Taxon. Ent. 11: 18.
Comment on *Talla* vs. *Kermes* and on placement of *Coccus zeae-maydis*.

LINDINGER, L.—Continued.

- 1949 EINIGE MITTEILUNGEN ÜBER SCHILDLÄUSE (HOMOPT., COCCOIDEA). Ent. Internatl. Ztschr. f. die Gesam. Insektenkunde 1: 210-213.
Nomenclatorial and other notes on about 15 coccids.
- 1954 NEUE BEITRÄGE ZUR SCHILDLAUS-NOMENKLATUR UND ANDERES (HOMOPTERA: COCCIDAE). Beitr. z. Ent. 4: 614-620.
Rejects superfamily Coccoidea; *Coccionella* Hahn. 1793 for *Porphyrophora* and *Margarodes*; *Leucanium* Schaum 1850 for *Lecanium* Burm. partim; other bibliographical notes.
- 1955 SCHRIFTENNACHWEIS DER MITTELAMERIKANISCHEN SCHILDLÄUSE AUS DER GATTUNG LLAVEA [SIC] SIGN. UND IHRER VERWANDTEN (COCCOIDEA: COCCIONELLINAE (MARGARODINAE AUT.)) Beitr. z. Ent. 5: 541-546.
Notes on common names, synonymy etc. of *Llaveia axin*, *L. bouvari*, *L. mexicanorum*, *L. oaxacoensis*, *L. ? uhleri*, *L. taenechina*. Author indicates his opinion of proper assignment of all other species placed in *Llaveia*.

LINDNER, G.

- 1954 ZUR ZYTOLOGIE VON ASPIDIOTUS PERNICIOSUS COMST. (HOMOPTERA-COCCIDAE). Biol. Zentbl. 73: 456-458, illus.
A brief description; 2 other coccids mentioned in discussion.

LINNAEUS, C. (Linné, C. von)

- 1758 INSECTA HEMIPTERA. COCCUS. Systema Nat. (Ed. 10) 1: 455-457.
Includes 17 *Coccus* species.
- 1761 INSECTA HEMIPTERA. COCCUS. In Fauna Suecica, Ed. 2, Stockholmiae, Laur. Salvii. 46 p. (without page numbers), 578 p. (264-266, 548).
Lists 12 coccids.
- 1762 SCHWEDISCHE COCHENILLE. Königl. Schwedischen Akad. der Wiss. Abhandl. (1759) 21: 28-31.
Discussion of cochineal and *Coccus polonica*.
- 1767 INSECTA HEMIPTERA. COCCUS. Systema Nat. (Ed. 12) 1: 739-743.
Includes 22 *Coccus* species.
- 1789 INSECTA HEMIPTERA. COCCUS. Systema Nat. (Ed. 13) 1: 2215-2222.
(Horn gives 1790). (Gmelin, J. F., ed.)
Includes 43 *Coccus* species.

LIST, G. M.

- 1920 THE EUROPEAN ELM SCALE (GOSSYPARIA SPURIA, MODEER). Colo. State Ent. Cir. 29, 12 p., illus.
Description, life history, control measures.

LIST, J. H.

- 1886 ORTHEZIA CATAPHRACTA SHAW. EINE MONOGRAPHIE. Ztschr. Wiss. Zool. 45: 1-85, illus. Reprinted in Zool. Inst. zu Graz, Arb. 1: 201-286, illus. 1887.
A detailed anatomical and histological study.

- 1886a UEBER DIE ENTSTEHUNG DER DOTTER- UND EIZELLEN BEI ORTHEZIA CATAPHRACTA SHAW. Biol. Centbl. 6: 485-488.

LIZER, C. (Lizer y Trelles, C. A.)

- 1916 UNA NUEVA SUBSPECIE DE "CEROPLASTES" (COCCIDAE) DE LA REPÚBLICA ARGENTINA (CEROPLASTES GRANDIS HEMP. SUBSP. HEMPELI NOV.) Soc. Argentina de Cein. Nat., Primera Reunión Nac., Tucumán (Zool. Secc.): 381-382, illus.
- 1917 UNE NOUVELLE COCCIDOCECIDIE DE L'ARGENTINE ET DESCRIPTION DU CÉCIDOZOAIRE QUI LA PRODUIT. (MESOLECANIUM DELTAE). Brotéria (Ser. Zool.) 15: 103-107, illus.
[*M. deltae* same as *Coccus perlatus* Ckll.]
- 1917a DESCRIPTION DU MÂLE DE L'"ICERYA SUBANDINA" LEON. Physis 3: 245-247, illus.

LINDINGER, L.—Continued.

1917b UNE NOUVELLE VARIÉTÉ DE "CHRYSOMPHALUS OBSCURUS" COMST., (Coccidae) ("CHRYSOMPHALUS OBSCURUS VAR. LAHILLEI" NOV.) Physis 3: 242-244, illus.

1918 PRINCIPALES CÓCCIDOS QUE ATACAN A LAS PLANTAS CULTIVADAS EN LA REPÚBLICA ARGENTINA. Buenos Aires Cent. de Estud. Agr. y Med. Vet. Rev. 11 (95): 201-223, illus. Also in repaged separate, same title, p. 1-25 (Buenos Aires, Corrientes), illus. 1920.

General discussion of coccid family and its relationships.

1919 PRINCIPALES CÓCCIDOS QUE ATACAN A LAS PLANTAS CULTIVADAS EN LA REPÚBLICA ARGENTINA. Buenos Aires Cent. de Estud. Agr. y Med. Vet. Rev. 12 (96): p. ? (not seen); (97): 15-52. In repaged separate, same title, p. 25-83, 1920.

General discussion of coccid family and its relationships; key to 5 subfamilies and to some genera and species; descriptive and other information on 32 coccids mostly introduced.

1922 NOTAS SOBRE TRES ESPECIES DEL GENERO "DACTYLOPIUS" (COCCIDAE) HALLADAS EN EL PAIS. Physis 6: 106-111, illus.

Descriptive notes on *Dactylopius indicus*; comment on *D. tomentosus* and *D. confusus*.

1938 COCHINILLAS EXÓTICAS INTRODUCIDAS EN LA REPUBLICA ARGENTINA Y DAÑOS QUE CAUSAN. Jornadas Agron. y Vet., 1937, p. 341-362.

Discusses Argentine status of 56 introduced coccids placed in 38 genera.

1939 CATALOGO SISTEMATICO RAZONADO DE LOS COCCIDOS (HOM. STERNOR.) VERNACULOS DE LA ARGENTINA. Physis 17 (49): 157-210.

Observations on 84 coccids considered indigenous, with comment on their geographical affinities.

1942 LA COLECCIÓN COCCIDOLÓGICA DE PEDRO JORGENSEN. La Plata Univ. Nac. Inst. Mus. Notas 7 (Zool. 56): 69-80, illus.

Eudinaspis jorgenseni n. gen. and sp.; notes on 34 other coccids.

1942a APUNTACIONES COCCIDOLOGICAS. I. Soc. Ent. Argentina Rev. 11: 319-335, illus.

Adds 4 coccids to Argentine fauna; notes on *Alichtensia*, with key to 3 species, and on 3 other coccids; comparison of *Pseudococcus citri* and *P. vitis*.

1942b PEDRONIA FESTERIANA N. SP. (HOM. COCC. PSEUDOCOC.). Buenos Aires Univ. Nac. Facult. de Agron. y Vet. Rev. 10: 24-28, illus.

1942c COCHINILLAS HALLADAS POR PRIMERA VEZ EN LA ARGENTINA (HOM. STERNOR.) Soc. Ent. Argentina Rev. 11: 230-236.

Reports 12 additions to the Argentine coccid fauna.

1954 A NEW SPECIES OF DUPLASPIDIOTUS (HOM., COCCOIDEA) FOUND IN SOUTH AMERICA. Ent. Monthly Mag. 90 (1084): 192-193, illus.

D. köhleri.

1955 DESCRIPTION D'UNE NOUVELLE ET BIZARRE COCHENILLE DE LA REGION NEOTROPICALE (HOM. ERIOCOCCIDAE). Soc. Ent. de France Bul. 60: 37-38, illus.

Macracanthopyga verganianus n. gen. and sp.

LLAVE, P. DE LA

1832 REGISTRO TRIMESTRE O COLLECTION DE MEMORIAS DE HISTORIA LITERATURA CIENCIAS Y ARTES 1: 147-152. (Not seen.) Apparent translation in Rev. et Mag. de Zool. (ser. 2) 13: 374-379.

Coccus axin n. sp.; discussion of wax obtained from it.

LLOYD, D. C.

1952 PARTHENOGENESIS IN THE MEALYBUG, PHENACCOCCUS SOLANI FERRIS. Canad. Ent. 84: 308-310.

Description of experimental demonstration; several other mealybugs mentioned in discussion.

LOBDELL, G. HOKE

1929 TWO NEW SPECIES OF ERIOCOCCUS FROM MISSISSIPPI. (HOMOPTERA: COCCOIDEA). Ent. Soc. Amer. Ann. 22: 762-767, illus.
E. pilosus, *E. smithi*.

1930 TWELVE NEW MEALYBUGS FROM MISSISSIPPI. (HOMOPTERA: COCCOIDEA). Ent. Soc. Amer. Ann. 23: 209-236, illus.
Phenacoccus (1 species), *Pseudantonina* (2 species), *Pseudococcus* (4 species), *Trionymus* (5 species).

1937 TWO-SEGMENTED TARSI IN COCCIDS; OTHER NOTES (HOMOPTERA). Ent. Soc. Amer. Ann. 30: 75-80.
List of 101 male coccids with 2-segmented tarsi; discussion.

See also Hoke, G.

LOCHHEAD, W.

1900 THE SAN JOSÉ AND OTHER SCALE INSECTS. Ontario Dept. Agr. Bul. [unnumbered]. Toronto, Warwick Bros. & Rutter, 48 p., illus.
Descriptive information on 8 common eastern North American coccids; field key to 7; control recommendations.

LOMBARDI, D.

1938 OSSERVAZIONI SULLA MORFOLOGIA E BIOLOGIA DELLA TARGIONIA VITIS SIGN. Bologna Univ. Ist. di Ent. Bol. 10: 117-138, illus.

LOUNSBURY, C. P.

1895 A NEW GREENHOUSE PEST. Mass. Agr. Col. Ann. Rpt. 32: 111-132, illus.
Orthezia insignis; detailed description and key, and quoted descriptions for all known species of *Orthezia*.

1908 MAMMOTH SCALE ON SALISBURY KOPJE. Rhodesian Agr. Jour. 6: 32-41, illus.
First description of *Aspidoproctus maximus*.

Löw, F.

1872 UEBER DIASPIS VISCI SCHRANK, EINE AUF DER MISTEL LEBENDE SCHILD-LAUS. Zool.-Bot. Gesell. Wien, Verhandl. 22. 273-278, illus.
Full description.

1882 ZUR NATURGESCHICHTE DES ACANTHOCOCCUS ACERIS SIGN. Wien. Ent. Ztg. 1: 81-85.
Life history and descriptive information.

1882a ZUR KENNTNISS DER NADELHOLZ-COCCIDEN. Wien. Ent. Ztg. 1: 270-275.
Redescription and critical comment on *Aspidiotus abietis* and *Leucaspis pini*.

1882b EINE NEUE COCCIDEN-ART (XYLOCOCCUS FILIFERUS). Zool.-Bot. Gesell. Wien, Verhandl. 32: 271-278, illus.
New genus and new species; notes on life history.

1882c DER SCHILD DER DIASPIDEN. Zool.-Bot. Gesell. Wien, Verhandl. 32: 513-522.
Discussion of scale differences; key to 9 genera based on their scales.

1883 UEBER EINE NEUE NADELHOLZ-COCCIDE UND DEN DIMORPHISMUS DER COCCIDEN-MÄNNCHEN. Wien. Ent. Ztg. 2: 3-7.
Leucaspis pusilla n. sp. compared with *L. pini*; notes on males of *Acanthococcus aceris*, *Chionaspis salicis*, *Gossyparia ulmi*.

1883a EINE NEUE COCCIDE. Wien. Ent. Ztg. 2: 115-117.
Pulvinaria ericae.

1883b EINE NEUE FICHTEN-SCHILD-LAUS. Wein Ent. Ztg. 2: 267-269.
Boisduvalia piceae.

1884 EIN BEITRÄG ZUR KENNTNISS DER ORTHEZIA URTICAE LIN. Wien, Ent. Ztg. 3: 11-16.
Detailed notes on life history; description of male.

LUBBOCK, J.

- 1858 ON THE DIGESTIVE AND NERVOUS SYSTEM OF COCCUS HESPERIDUM. Roy. Soc. London Proc. 9: 480-486, illus. Also in Ann. and Mag. Nat. Hist. (ser. 3) 3: 306-311, illus.

LUCAS, H.

- 1853 [COCCUS ZIZIPHI.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 3) 1: xxviii-xxix.
Very briefly characterized.
- 1855 [COCCUS ZAMIAE.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 3) 3: cvii.
Very briefly characterized.

LUFF, W. A.

- 1904 THE COCCIDAE OF GUERNSEY. Guernsey Soc. Nat. Sci., Rpt. and Trans. 1903: 272-277.
Lists 15 coccids with collection data; incidental comment on several other common coccids.

LULL, R. S.

- 1899 A NEW SPECIES OF PULVINARIA. Ent. News 10: 237-242, illus.
P. phaiiae.

LUPO, V.

- 1936 REVISIONE DELLE SPECIE DI AONIDIELLA BERL. ET LEON. DEL GRUPPO A. AURANTII (MASK.). Portici. R. Ist. Super. Agr. Lab. Zool. Gen. e Agr. Bol. 29: 249-261, illus.
Detailed redescrptions and key for 3 Italian *Aonidiella*.
- 1938 REVISIONE DELLE COCCINIGLIE ITALIANE, I. Portici. R. Ist. Super. Agr. Lab. Zool. Gen. e Agr. Bol. 30: 121-162, illus.
Extended descriptive treatment and key for 8 coccids assigned to genus *Diaspis*.
- 1938a REVISIONE DELLE COCCINIGLIE ITALIANE, II. (HOWARDIA, ADISCODIASPIS, CHIONASPIS, PINNASPIS, FIORINIA, KUWANASPIS). Portici. R. Ist. Super. Agr. Lab. Zool. Gen. e Agr. Bol. 30: 255-322, illus.
Extended descriptive treatment and keys for 12 coccids, including *Chionaspis graminis sicula* n. var.
- 1939 REVISIONE DELLE COCCINIGLIE ITALIANE, III. MYTILOCOCCUS. Portici. R. Ist. Super. Agr. Lab. Zool. Gen. e Agr. Bol. 31: 69-136, illus.
Key and detailed description for 12 Italian *Mytilococcus* (i.e. *Lepidosaphes*).
- 1943 IL MYTILOCOCCUS FICIFOLIAE (BERLESE) E UNA FORMA ESTIVA DEL M. CONCHIFORMIS (GMELIN). Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr. Bol. 5: 196-205, illus.
Establishes that apparent differences are due to development on different parts of host.
- 1944 REVISIONE DELLE COCCINIGLIE ITALIANE, IV. (GEN. LEUCASPIS TARGIONI) Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr. Bol. 5: 206-242, illus.
Detailed redescrptions and key for 5 *Leucaspis*.
- 1947 REVISIONE DELLE COCCINIGLIE ITALIANE, V. (PSEUDOPARLATORIA, PARLATORIA). Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr. Bol. 8 (1948): 33-79, illus.
Detailed redescrptions of 1 *Pseudoparlatoria*, 6 *Parlatoria*, with key.
- 1948 REVISIONE DELLE COCCINIGLIE ITALIANE, VI. (ASPIDIOTUS, QUADRASPIDIOTUS, DIASPIDIOTUS, RHIZASPIDIOTUS, NUCULASPIS). Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr. Bol. 8: 137-208, illus.
Detailed redescrptions and keys for 14 coccids in these genera.
- 1953 REVISIONE DELLE COCCINIGLIE ITALIANE, VII. (GEN. PSEUDAONIDIA, CHRYSOMPHALUS, ASPIDIOTUS). Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr., "Filippo Silvestri," Bol. 12: 16-44, illus.
Detailed descriptions for *P. paeoniae*, *C. aonidum*, *C. dictyospermi*, *A. degeneratus*; revised key for Italian *Aspidiotus*.

LUPO, V.—Continued.

1953a REVISIONE DELLE COCCINIGLIE ITALIANE. VIII. DIASPINAE. GEN. HEMBERLESIA COCKERELL. Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr., "Filippo Silvestri," Bol. 12: 74-97, illus.

Key to detailed descriptions of *H. cecconi*, *H. ephedrarum*, *H. rapax*, *H. salicis*.

1954 REVISIONE DELLE COCCINIGLIE ITALIANE. IX. (SEPARASPIS, GONASPIDIOTUS, CHORIZASPIDIOTUS) Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr., "Filippo Silvestri," Bol. 13: 1-33, illus.

Redescribes in detail 6 species in 3 genera.

1954a REVISIONE DELLE COCCINIGLIE ITALIANE. X. (PELOMPHALA, AONIDIELLA, COMSTOCKIASPIS) Portici. R. Ist. Super. Agr. R. Lab. di Ent. Agr., "Filippo Silvestri," Bol. 13: 34-63, illus.

Redescribes in detail 4 coccids in 3 genera.

MA, TSING-CHAO, *see* Li, Feng-Swen, and Ma, Tsing-Chao

MACFIE, J. W. S.

1913 ON A NEW AFRICAN SPECIES OF COCCIDAE. Bul. Ent. Res. 4: 31-34, illus.
Ceronema africana n. sp.

MACGILLIVRAY, A. D.

1921 THE COCCIDAE, Urbana, Ill. Scarab, 502 p.

A synoptic classification of the coccidae, presenting 17 subfamilies and many new genera; subfamily, generic, and, in many instances, specific keys; especially detailed treatment of Diaspidinae; based primarily on a study of coccid literature, not specimens; no illustrations.

MACGREGOR, L. R.

1952 NOTA SOBRE LOS PSEUDOCOCCIDAE (HOM. COCCOIDEA) DE MEXICO. Fitofilo 6 (5): 19-22.

List of 37 Mexican pseudococcids; no data associated.

MACKIE, D. B.

1931 A REPORT OF THE COCCIDS INFESTING AVOCADOS IN CALIFORNIA WITH SPECIAL REFERENCE TO CHRYSOMPHALUS DICTYOSPERMI (MORG.) Calif. Dept. Agr. Monthly Bul. 20: 419-441, illus. Reprinted in the Calavo Growers of Calif. Ann. Rpt. 8 (Ybk. 1931), 21 p.

Reports survey results on 13 coccids; detailed discussion, including full host lists for *Chrysomphalus dictyospermi*, *Aspidiotus lataniae*.

MACQUART, J.

1847 [COCCUS SALICIS.] Soc. Ent. de France Ann. (Bul. Ent.) (ser. 2) 7: lxxv.

Amyot read a note from Macquart about a new species that he named *C. salicis*.

1849 NOTICE SUR UNE NOUVELLE ESPECE DE GALLINSECTES. Soc. Ent. de France Ann. (ser. 2) 7: 47-50, illus.

Coccus salicis.

MAGNIN, J.

1952 NOTE PRÉLIMINAIRE AU SUJET DES PSEUDOCOCCINAE DE LA CÔTE D'IVOIRE. L'Agron. Trop. 7: 289-291, illus.

Discusses the utilization of spermatozoa for classification along lines suggested by Doutt and results as applied to several species.

1953 DÉVELOPPEMENT ET MODE DE REPRODUCTION DE PSEUDOCOCCUS NJALENSIS LAING. L'Agron. Trop. 8: 292-293, illus.

Description and figures of early stages.

1955 DESCRIPTION D'UN NOUVEAU PSEUDOCOCCIDAE DE CÔTE D'IVOIRE. L'Agron. Trop. 10: 238-240.

Pseudococcus bingervillensis n. sp.; compared with *P. njalensis* and *Tylococcus westwoodi*.

MAHDIHASSAN, S.

- 1923 CLASSIFICATION OF LAC INSECTS FROM A PHYSIOLOGICAL STANDPOINT. Vizianagaram, India, Maharajah's Col. Sci. Assoc. Jour. 1: 47-99. Detailed discussion of various phases of the classification of the lac insects; proposes new genus *Lakshadia* and new specific names *L. indica nagolensis*, *sindica*, *chinensis*, *mysorensis*, *communis*.
- 1923a OBSERVATIONS ON THE LIFE-CYCLES OF SOUTH INDIAN LAC INSECTS. Indian Forester 49: 653-663. Life cycle notes on 2 *Lakshadia* and 2 *Tachardia* species.
- 1924 SIGNIFICANCE OF SEX-DIFFERENTIATION AMONG LAC INSECTS. Indian Inst. Sci. Jour. 7: 136-141. Mentions 5 *Lakshadia* species in discussion.
- 1924a SYMBIOTIC CONSTITUTION OF LAC ASSOCIATION. [PART I.] (Abs.) Indian Sci. Cong. (Bangalore, 1924) Proc. 11: 93-94. Diagrammatic representation.
- 1925 SYMBIOTIC CONSTITUTION OF LAC INSECTS. PART II. (Abs.) Indian Sci. Cong. (Benares, 1925) Proc. 12: 41. Brief descriptions of some lac symbionts and their behavior.
- 1926 CONTRIBUTIONS TO THE SCIENTIFIC STUDY OF THE LAC INDUSTRY. PART XI. early recognition of sex among lac insects. Indian Inst. Sci. Jour. 9A (1): 1-24, illus.
- 1927 AN EXPERIMENTAL STUDY OF THE LIFE CYCLES OF LAC INSECTS. Vizianagaram, India. Maharajah's Col. Sci. Assoc. Jour. 3 (2-4): 69-112.
- 1928 SYMBIONTS SPECIFIC OF WAX AND PSEUDO LAC INSECTS. Arch. f. Protistenk. 63: 18-22, illus. (col.).
- 1929 SPECIFIC SYMBIOTES OF A FEW INDIAN SCALE-INSECTS. Zentbl. f. Bakt., Parasitenk. und Infektionskrank. Abt. 2, 78: 254-259, illus. Description of symbiotes found in 7 Indian Coccinae.
- 1929a THE FIRST STAGE LARVA OF LAC INSECTS. Bul. Ent. Res. 20: 241-243, illus. Descriptive notes on male and female first-stage *Lakshadia (Laccifer) communis*.
- 1929b THE MICROORGANISMS OF RED AND YELLOW LAC INSECTS. Arch. f. Protistenk. 68: 613-624, illus.
- 1930 THE PROBABLE OCCURRENCE OF SEX-REVERSAL AMONG LAC INSECTS. Ztschr. f. Angew. Ent. 16: 527-545, illus.
- 1931 THE METAMORPHOSIS OF THE MALE LAC INSECT. Českoslov. Společ. Ent. Casopis 28: 5-15, illus. Detailed description of larval stages based on 4 *Lakshadia* species.
- 1931a THE FIRST ECDYSIS OF THE LAC INSECT. (COCCID.) Deut. Ent. Ztschr. 4 (1930): 223-234, illus. A detailed study of morphology and secretions of first- and second-stage *Lakshadia communis* and *L. mysorensis*.
- 1931b THE SYMBIOTES OF SOME IMPORTANT LAC INSECTS. Arch. f. Protistenk. 73: 164-178, illus. (col.).
- 1931c THE MALES OF LAC AND PSEUDO-LAC INSECTS. Ztschr. f. Wiss. Zool. 138: 371-385, illus. Descriptive information on various stages of male *Lakshadia communis* and *Tachardina lobata* and *silvestrii*.
- 1931d DAS ZWEITE LARVENSTADIUM DER WEIBLICHEN LACKSCHILDLAUS. Zool. Anz. 94: 289-304, illus. Detailed description of this stage for *Lackshadia communis*, *L. mysorensis*, *L. nagolensis*.
- 1931e THE LAST TWO MOULTS OF THE LAC INSECT. Tijdschr. v. Ent. 74: 230-244, illus. Detailed description of last molts of *Lakshadia communis*, *L. nagoliensis*.

MAHDIHASSAN, S.—Continued.

- 1931f EARLY SEXUAL AND OTHER DIMORPHISMS AMONG LAC INSECTS. *Biol. Gen.* 7: 517-530, illus.
Detailed descriptive notes on *Lakshadia communis*, *L. mysorensis*, *L. nagoliensis*.
- 1932 THE THIRD STAGE LARVA OF THE FEMALE LAC INSECT. (HEM. COCC.) *Eos* 8: 11-28, illus.
- 1932a THE SYMBIOTE OF LAKSHADIA COMMUNIS. *Arch. f. protistenk.* 78: 514-521, illus. (col.).
- 1933 CRYPTOGAMIE—SUR LES DIFFERENTS SYMBIOTES DES COCHENILLES PRODUCTRICES OU NON PRODUCTRICES DE CIRE. [Paris] *Acad. des Sci. Compt. Rend.* 196: 560-562, illus.
Coriococcus n. gen.; *Ceroplastodes guilliermondi* n. sp.
- 1933a SEX-RATIO VARIABILITY AND THE PROBLEMS OF REPRODUCTION AMONG LAC-INSECTS. *K. Akad. van Wetensch. te Amsterdam. Proc.* 36: 343-350.
- 1935 FURTHER STUDIES ON THE SYMBIOTES OF SCALE INSECTS. *Arch. f. Protistenk.* 85: 61-73, illus.
Describes and illustrates the symbionts of several coccids.
- 1935a ON THE NOMENCLATURE OF LAC INSECTS. *Current Sci.* [India] 3: 365-366.
Suggests that *Laesha* was first generic name proposed for the lac insect, but substitutes *Lakshadia* as more appropriate.
- 1936 THE DORSAL SPINE OF THE LAC INSECT AND ITS FUNCTION. *Current Sci.* [India] 5: 205-206, illus.
- 1937 PHOTOTROPISMUS BEI LACKINSEKTEN. *Deut. Zool. Gesell. Verhandl. (Zool. Anz., Sup. 10)* 39: 293-298, illus.
Mentions 4 *Lakshadia* species in discussion.
- 1939 SEXUAL DIMORPHISM AMONG LAC INSECTS. *Internatl. Congr. Ent., 7, (Berlin, 1938) Verhandl.* 2: 1232-1240, illus.
A detailed study.
- 1941 THE ARCHITECTURE OF THE LAC-CELL. *Jour. Osmania Univ. (Sci. Faculty)* 9: 91-121, illus.
- 1946 TWO VARIETIES OF TACHARDINA LOBATA. *Current Sci.* [India] 15: 135-136.
Names 2 new varieties on basis of differences in symbionts.
- 1946a COLOUR DIMORPHISM IN CERIOCOCCUS HIBISCI GREEN. *Current Sci.* [India] 15: 197-198.
Several other coccids mentioned in brief discussion.
- 1947 BACTERIAL SYMBIOSIS IN A MARGARODES SP. *Current Sci.* [India] 16: 379-380, illus.
Critical note on previous work by Sulc.
- 1947a THE SPECIES OF LAC INSECT STUDIED BY COMSTOCK. *Ent. Soc. Amer. Ann.* 40: 604-609, illus.
Discusses probable identity of the commercial lac studied by Comstock in 1882.
- 1948 ON TWO SPECIES OF LAC INSECTS, AND A CONFIRMATION OF SWAGERMAN'S OBSERVATIONS. *Tijdschr. v. Ent.* 89 [f. 1896]: 77-82, illus.
Shows specific characters of *Lakshadia nagoliensis* and *L. communis*, and discusses paper by Swagerman, 1780.
- 1948a ON THE CHINESE LAC INSECT. *Eos* 24: 441-457, illus.
Detailed description of *Lakshadia chinensis*, *L. rangoonensis* placed in synonymy.
- 1951 THE ROLE OF SYMBIOSIS IN THE GENUS CORIOCOCCUS, COCCIDAE. *Ztschr. f. Agnew. Ent.* 33: 108-110, illus. (col.).
Discusses *Coriococcus* [= *Cerococcus*] *ornatus* and *hibisci*. Mentions *Lakshadia fici* Green.

MAHDIHASSAN, S.—Continued.

- 1953 ON LAKSHADIA FICI, GREEN, WITH ITS RED AND YELLOW FORMS. Indian Forester 79: 366-368.
Several lac species discussed.

MÄKEL, M.

- 1942 METAMORPHOSE UND MORPHOLOGIE DES PSEUDOCOCCUSMÄNNCHENS MIT BESONDERER BERÜCKSICHTIGUNG DES SKELETTMUSKELSYSTEMS. Zool. Jahrb. Abt. f. Anat. u. Ontog. Tiere 67: 461-512, illus.
Males of *P. adonidum*, *P. citri*, and *P. longispinus* [!] used for this detailed study.

MALENOTTI, E.

- 1916 SPECIE NOUVE E CRITICHE DI DIASPITI. Redia 11: 309-321, illus.
Adiscodiaspis tamaricicola, *Chrysomphalus calami* n. spp.; status of 3 other species discussed.
- 1916a DIASPITI RACCOLTI NELLA SOMALIA ITALIANA MERIDIONALE. Redia 11: 321-358, illus.
Discusses or describes 17 forms of which 10 are new species or varieties.
- 1916b NUOVI DIASPITI. Redia 12 (1917): 183-194.
Lepidosaphes tuberculata, *L. diaspidiformis*, *Dinaspis annae*, n. spp.
Key to 12 *Dinaspis*.
- 1916c SULLE PRETESE VARIETÀ DEL "CHRYSOMPHALUS DICTYOSPERMI" (Morg.) Leon. Redia 12 (1917): 109-123, illus.
Considers 5 proposed varieties invalid.
- 1927 IL VALORE PRATICO DEI FOLLICOLI NELLA DIAGNOSI DEI COMUNI DIASPITI. Ital. Agr. 64: 52-55.
Differences in exuviae described and figured for 5 coccids.
- 1928 SULLA SISTEMATICA DELLA PSEUDOCOCCUS VITIS NIEDL. E SUI RAPPORTI BIOLOGICI TRA SIMAETHIS NEMORANA, HÜBN. E PSEUDOCOCCUS CITRI, RISSO E LORO IMPORTANZA IN VITICOLTURA. Accad. di Agr. Sci. e Let. di Verona, Atti e Mem. (ser. 5) 5 (1929): 51-62, illus. German version in Anz. f. Schädlingsk. 6: 79-83; 91-94, illus. 1930.
Notes on the recognition of *Pseudococcus vitis* in comparison with *P. citri* and other mealybugs.

See also Del Guercio, G., and Malenotti, E.

MAMET, R.

- 1936 NEW SPECIES OF COCCIDAE (HEMIPT. HOMOPT.) FROM MAURITIUS. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 5: 90-96, illus.
Describes 6 new species.
- 1936a NOTE SUR LES COCHENILLES DE L'ILE D'AGALÉGA. Rev. Agr. de l'île Maurice No. 88: 152-153.
List of 15 coccids with collection data.
- 1937 NEW SPECIES OF COCCIDAE (HEMIPT. HOMOPT.) FROM MAURITIUS. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 6: 173-176, illus.
Pedronia greeni, *Lepidosaphes vermiculus*, *Asterolecanium morini*, n. spp.
- 1939 ON TWO COCCIDS RECENTLY DESCRIBED FROM MAURITIUS (HEM.) Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 8: 238-239, illus.
Additional descriptive data for *Lecanium dorsociliatum*; *Asterolecanium morini* a synonym of *A. pustulans seychellarum*.
- 1939a CONTRIBUTION À L'ÉTUDE DU GENRE PEDRONIA GREEN (HEM. COCCIDAE) AVEC DESCRIPTION D'UNE NOUVELLE ESPÈCE DE L'ILE MAURICE. [Lyon] Soc. Linn. Bul. Mens. 8: 214-217, illus.
P. mauritiana n. sp.; key to 5 species.
- 1939b SOME NEW GENERA AND SPECIES OF COCCIDAE (HEMIPT. HOMOPT.) FROM MAURITIUS. Roy. Ent. Soc., London, Trans. 89: 579-589, illus.
Describes 3 new genera, 7 new species.

MAMET, R.—Continued.

- 1940 A NEW GENUS AND FIVE NEW SPECIES OF COCCIDAE (HEMIPT. HOMOPT.) FROM MAURITIUS. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 9: 65-72, illus.
Mascarenococcus pandani, n. gen. and sp.; 4 other new species.
- 1941 ON SOME COCCIDAE (HEMIPT. HOMOPT.) DESCRIBED FROM MAURITIUS BY DE CHARMOY. Mauritius Inst. Bul. 2: 23-37, illus.
Emmereziaspis n. gen.; discusses recognition and proper assignment of 11 coccids.
- 1941a REPORT ON A FEW COCCIDAE (HOMOPT.) COLLECTED BY MR. P. O. WIEHE IN THE CHAGOS ARCHIPELAGO. Mauritius Inst. Bul. 2: 38.
List of 6 common coccids identified.
- 1941b A NEW MEALY BUG ATTACKING PINEAPPLE PLANTS IN MAURITIUS. Bul. Ent. Res. 32: 57-59, illus.
Pseudococcus pseudobrevipes.
- 1942 ON A FEW COCCIDAE (HOMOPT.) RECENTLY DESCRIBED FROM MAURITIUS. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 11: 35-37, illus.
Corrective notes on 6 coccids; *Aspidiella zingiberi* new name, *Mimusaspis* n. gen.
- 1942a NEW PSEUDOCOCCIDS FROM MAURITIUS (HOMOPTERA, COCCOIDEA). Roy. Ent. Soc., London, Proc., Ser. B: Taxonomy 11: 79-86, illus.
Pedrococcus n. gen., *P. longipes*, *P. longisetosus* n. spp.; *P. greeni* (Mamet), *P. mauritianus* (Mamet) redescribed.
- 1942b PEDRONIA STROBILANTHIS GREEN REDESCRIBED (HOMOPTERA, COCCOIDEA: PSEUDOCOCCIDAE). Roy. Ent. Soc., London, Proc., Ser. B: Taxonomy 11: 149-152, illus.
Also a generic diagnosis of *Pedronia*.
- 1943 NEW SPECIES OF COCCOIDEA (HOMOPTERA) FROM MAURITIUS. Bul. Ent. Res. 34: 117-128, illus.
Describes 6 new species.
- 1943a A REVISED LIST OF THE COCCOIDEA OF THE ISLANDS OF THE WESTERN INDIAN OCEAN, SOUTH OF THE EQUATOR. Mauritius Inst. Bul. 2: 137-170.
List of 156 coccids in 64 genera with collection data; 4 manuscript names presented.
- 1946 ON SOME SPECIES OF COCCOIDEA RECORDED BY DE CHARMOY FROM MAURITIUS. Mauritius Inst. Bul. 2: 241-246, illus.
Corrects 5 coccid misidentifications of de Charmoy.
- 1947 ANOTHER NEW SPECIES OF NEWSTEADIA GREEN (HOMOPTERA, COCCOIDEA) FROM MAURITIUS. Roy. Ent. Soc., London, Proc., Ser. B: Taxonomy 16: 31-32, illus.
N. montana.
- 1947a ON THE PROBABLE CENTRE OF DISPERSION OF THE GENUS NEWSTEADIA GREEN (HOMOPTERA, COCCOIDEA). Roy. Ent. Soc., London, Proc. Ser. A: Gen. Ent. 22: 49-51.
Suggests that probable origin was in tropics.
- 1950 NOTES ON THE COCCOIDEA OF MADAGASCAR.-I. Inst. Sci. de Madagascar Mem., Ser. A. 4: 17-38, illus.
Lists the 20 coccids already reported from island; adds 22 coccids to this list, including 7 new species; *Madagaspis* n. gen.
- 1950a A NEW SPECIES OF CEROCOCCUS COMSTOCK (HOMOPTERA: COCCOIDEA) FROM MAURITIUS. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 19: 35-38, illus.
C. pileae.
- 1951 NOTES ON THE COCCOIDEA OF MADAGASCAR.-II. Inst. Sci. Madagascar Mem., Ser. A, 5: 213-254, illus.
Adds 38 coccids to list already known from island, including 10 new species; *Euvoraspis* n. gen.

MAMET, R.—Continued.

1952 ON SOME COCCOIDEA COLLECTED BY MR. J. R. WILLIAMS IN REUNION ISLAND. (HEMIPTERA.) Roy. Ent. Soc., London, Proc., Ser. B: Taxonomy, 21: 170-172.

List of 22 coccids with collection data, 20 recorded for first time.

1953 REMARQUES BIOGÉOGRAPHIQUES SUR LA FAUNE COCCIDOLOGIQUE DE MADAGASCAR. Roy. Soc. Arts & Sci. Mauritius, Proc. 1: 249-252.

Briefly mentions 9 families, 19 genera, and 4 coccid species in discussion.

1953a THE AUTHORSHIP OF THE SPECIES OF COCCOIDEA (HEMIPTERA) DESCRIBED FROM MAURITIUS IN 1899. Roy. Ent. Soc., London, Proc. Ser. A: Gen. Ent. 28: 149-152, illus.

Considers that coccid species previously credited to de Charmoy ought to be credited to Grandpré and Charmoy.

1954 NOTES ON THE COCCOIDEA OF MADAGASCAR.—III. Inst. Sci. de Madagascar, Mem. 4 (1953) (Ser. E. Ent.): 1-86, illus.

Report on 51 coccids, including descriptions of 6 new genera and 32 new species.

1954a MISCELLANEOUS NOTES ON THE COCCOIDEA (HOMOPTERA) OF THE MASCARENE ISLANDS AND OF THE CHAGOS ARCHIPELAGO. Mauritius Inst. Bul. 3: 260-265.

Distributional and some synonymical notes on 27 coccids.

1954b A MONOGRAPH OF THE CONCHASPIDIDAE GREEN (HEMIPTERA: COCCOIDEA). Roy. Ent. Soc., London, Trans. 105 (11): 189-239, illus.

A classification including redescriptions of 12 coccids and descriptions of 6 new species; new synonymy.

See also Green, E. E., and Mamet, R.

MANGIN, L., and VIALA, P.

1903 LA PHTHIROSE DE LA VIGNE. Paris, Bureaux de la "Revue de Viticulture." 110 p., illus. Brief summary in [Paris] Acad. des Sci. Compt. Rend. 136: 397-399.

A study of the relation between *Dactylopius vitis* and a fungus producing damage on grape; detailed description of the mealybug.

MANN, H., see Green, E. E., and Mann, H. H.

MANN, W. M.

1922 NOTES ON A COLLECTION OF WEST AFRICAN MYRMECOPHILES. Amer. Mus. Nat. Hist. Bul. 45: 623-630 (629-630).

Lists *Pseudococcus citri* var. *congoënsis* Newst. nom. nud., *Pseudococcus crassipes* Newst., nom. nud., *Lecanium (Saissetia) barberiae* Newst. nom. nud., and *Stictococcus formicarius*.

MARAIS, S. J. S., see Pettey, F. W., and Marais, S. J. S.

MARCHAL, P.

1904 SUR LA BIOLOGIE DU CHRYSOMPHALUS DICTYOSPERMI VAR. MINOR BERLESE, ET SUR L'EXTENSION DE CETTE COCHENILLE DANS LE BASSIN MÉDITERRANÉEN. Soc. Ent. de France Bul. 16: 246-249.

1904a SUR UNE COCHENILLE NOUVELLE. Soc. Ent. de France Ann. 73: 557-561, illus.

Amelococcus alluaudi n. gen. and sp.

1904b SUR QUELQUES COCHENILLES NOUVELLES. Paris Mus. d'Hist. Nat. Bul. 10: 448-457, illus.

Trabutina elastica n. gen. and sp.; *Chionaspis (Phenacaspis) ceratoniae* n. sp., *C. bupleuri* n. sp.; *Asterolecanium greeni* n. sp.

1906 SUR DEUX ESPÈCES DE COCHENILLES NOUVELLES [HEM. HOM.] RÉCOLTÉES EN ALGÉRIE. Soc. Ent. de France Bul. 9: 143-145.

Stotzia striata n. gen. and sp.; *Fiorinia hirsuta* n. sp.

MARCHAL, P.—Continued.

- 1908 NOTES SUR LES COCHENILLES DE L'EUROPE ET DU NORD DE L'AFRIQUE (1^{re} PARTIE). Soc. Ent. de France Ann. 77: 223-309, illus. (1 col.). Critical studies on the classification, synonymy, morphology, and biology of 20 European coccids, including *Phenacoccus*, *chołodkovskiyi* n. sp.
- 1909 SUR LES COCHENILLES DU MIDI DE LA FRANCE ET DE LA CORSE. Acad. des Sci. [Paris] Compt. Rend. 148: 871-872.
Describes 4 new species; collection notes on 4 additional species.
- 1909a SUR LES COCHENILLES DE L'AFRIQUE OCCIDENTALE. Soc. de Biol. [Paris] Compt. Rend. 66: 586-588.
Houardia troglodytes n. gen. and sp.; *Aspidiotus vUILLETTI* n. sp.
- 1909b SUR DEUX COCHENILLES NOUVELLES SUR LES EPHEDRA. Soc. Zool. de France Bul. 34: 59-60.
Aspidiotus (Hemiberlesia) trabuti, *Leucaspis ephedrae* n. spp.
- 1909c COCHENILLES NOUVELLES DE L'AFRIQUE OCCIDENTALE. Soc. Zool. de France Bul. 34: 68-69.
Briefly describes 4 new species, 1 new variety.
- 1909d CONTRIBUTION A L'ÉTUDE DES COCCIDES D L'AFRIQUE OCCIDENTALE. Zool. Soc. de France Mém. 22: 165-182, illus.
Detailed descriptions of 1 genus and 7 coccids briefly described elsewhere; notes on 3 other coccids.
- 1910 SUR DEUX COCHENILLES DE L'OLIVIER EN TUNISIE (HEM. COCCIDAE). Soc. Ent. de France Bul. 13: 244-246.
Phenacoccus oleae n. sp.; 7 other coccids discussed.
- 1911 SUR UNE COCHENILLE NOUVELLE D'ALGÉRIE (HEM. COCCIDAE). Soc. Ent. de France Bul. 4: 71.
Aspidiotus (Hemiberlesia) seurati n. sp.
- 1911a SUR UNE NOUVELLE COCHENILLE CÉCIDOGÈNE. Soc. Zool. de France Bul. 36: 150.
Aspidiotus (Hemiberlesia) nitrariae n. sp.
- 1922 LA MÉTAMORPHOSE DES FEMELLES ET L'HYPERMÉTAMORPHOSE DES MALES CHEZ LES COCCIDES DU GROUPE DES MARGARODES. Acad. des Sci. [Paris] Compt. Rend. 174: 1091-1096.
Neomargarodes trabuti n. sp.

DI MARIA, G.

- 1938 NUOVE RICERCHE SULLA ATTIVITÀ VITAMINICA DEL SIMBIONTE D'ICERYA PURCHASI MASK. Bol. di Zool. [Torino] 9: 41-47.

MARK, E. L.

- 1876 BEITRÄGE ZUR ANATOMIE UND HISTOLOGIE DER PFLANZENLÄUSE, INSBESONDERE DER COCCIDEN. Bonn, Georgi, 58 p., illus.
Principally a description of the coccid digestive tract with its appendages; previous literature reviewed.

MARLATT, C. L.

- 1899 FITCH'S COTTON SCALE INSECT. Ent. News 10: 146.
Aspidiotus gossypii Fitch, an aleurcid.
- 1899a SOME COMMON SOURCES OF ERROR IN RECENT WORK ON COCCIDAE. Science (n.s.) 9: 835-837.
Criticizes the tendency toward creation of coccid names on trivial characters; 3 coccids mentioned.
- 1899b ASPIDIOTUS CONVEXUS, COMST.—A CORRECTION. Canad. Ent. 31: 208-211.
In part = *A. camelliae* Sign.; in part = *A. ancylus* Putn.
- 1899c. TEMPERATURE CONTROL OF SCALE INSECTS. U. S. Dept. Agr., Div. Ent., Bul. (n.s.) 20: 73-76.
Mentions 11 coccids in relation to temperature effects.

MARLATT, C. L.—Continued.

- 1899d AN ACCOUNT OF ASPIDIOTUS OSTREAIFORMIS. U. S. Dept. Agri., Div. Ent., Bul. (n.s.) 20: 76-82, illus.
- 1899e RECENT WORK ON COCCIDAE. Science (n.s.) 10: 657-660.
Critical comment on Prof. T. D. A. Cockerell's work on supposed species of *Aspidiotus*; quotes Cockerell manuscript key to 6 of these.
- 1900 ASPIDIOTUS DIFFINIS. ANOTHER SCALE INSECT OF PROBABLE EUROPEAN ORIGIN RECENTLY FOUND IN NORTH AMERICA. Ent. News 11: 425-427.
Indicates synonymy of 2 other *Aspidiotus* with this species.
- 1900a THE EUROPEAN PEAR SCALE, DIASPIS PIRICOLA (DEL GUERCIO) SACCARDO, 1895. Ent. News 11: 590-594.
Discusses confusion in proper naming of this coccid.
- 1902 RÉSUMÉ OF THE SEARCH FOR THE NATIVE HOME OF THE SAN JOSE SCALE IN JAPAN AND CHINA. U. S. Dept. Agr., Div. Ent., Bul. (n.s.) 37: 65-78.
Four coccids mentioned in this report; concludes China is home of San Jose scale.
- 1906 THE SAN JOSE OR CHINESE SCALE. U. S. Dept. Agr., Bur. Ent., Bul. 62, 89 p., illus.
Origin, spread, life history, description, control.
- 1908 THE GENUS PSEUDAONIDIA. Ent. Soc. Wash. Proc. 9 (1907): 131-141, illus.
P. greeni, *P. lounsburyi* n. spp.; key and annotated list to 15 coccids.
- 1908a THE NATIONAL COLLECTION OF COCCIDAE. U. S. Dept. Agr., Bur. Ent., Tech. Ser. 16: 1-10.
Current status; plans for development.
- 1908b ASPIDIOTUS ANCYLUS PUTNAM VS. CIRCULARIS FITCH. Ent. News 19: 309-311.
- 1908c NEW SPECIES OF DIASPINE SCALE INSECTS. U. S. Dept. Agr., Bur. Ent., Tech. Ser. 16: 11-32, illus.
Describes 17 new species.
- 1911 A NEWLY IMPORTED SCALE-PEST ON JAPANESE HEMLOCK (RHYNCH.) Ent. News 22: 385-387, illus.
Aspidiotus (Diaspidiotus) tsugae n. sp.

See also Howard, L. O. and Marlatt, C. L.

MARSHALL, W. S.

- 1929 THE HYPODERMAL GLANDS OF THE BLACK SCALE, SAISSETIA OLEAE (BERNARD). I. THE DORSAL GLANDS. Wis. Acad. Sci., Arts, Letters, Trans. 24: 427-443, illus.
Describes histological structure.
- 1930 THE HYPODERMAL GLANDS OF THE BLACK SCALE, SAISSETIA OLEAE (BERNARD). II. THE VENTRAL GLANDS. Wis. Acad. Sci., Arts, Letters, Trans. 25: 255-272, illus.
A histological study.
- 1935 THE DEVELOPMENT AND STRUCTURE OF THE EYES, OCELLI, OF THE FEMALE BLACK SCALE, SAISSETIA OLEAE BERN. Jour. Morph. 57: 571-595, illus.
A histological study.
- 1935a THE SENSE ORGANS UPON THE DORSAL SURFACE OF THE FEMALE BLACK SCALE, SAISSETIA OLEAE (BERNARD) (COCCIDAE, HOMOPTERA). Amer. Ent. Soc. Ann. 28: 217-226, illus.

MARTELLI, G., see Silvestri, F., and Martelli, G.

MASKELL, W. M.

- 1879 ON SOME COCCIDAE IN NEW ZEALAND. New Zeal. Inst. Trans. and Proc. 11 (1878): 187-228, illus.
Describes 4 new genera (incl. 1 aleurodid, 1 psyllid), 19 new species (incl. 2 aleurodids, 1 psyllid); notes on 10 other coccids.

MASKELL, W. M.—Continued.

- 1880 FURTHER NOTES ON NEW ZEALAND COCCIDAE. *New Zeal. Inst. Trans. and Proc.* 12 (1879): 291-301, illus.
Describes 2 new genera, 5 species; list of 28 New Zealand coccids.
- 1882 FURTHER NOTES ON COCCIDAE IN NEW ZEALAND, WITH DESCRIPTIONS OF NEW SPECIES. *New Zeal. Inst. Trans. and Proc.* 14 (1881): 215-229, illus.
Describes 1 new genus, 6 new species; notes on 5 other coccids.
- 1884 FURTHER NOTES ON COCCIDAE IN NEW ZEALAND, WITH DESCRIPTIONS OF NEW SPECIES. *New Zeal. Inst. Trans. and Proc.* 16 (1883): 120-144, illus.
Describes 13 new species; notes on 11 others; keys to 16 genera of Lecanidae, 3 of Hemicoccidae.
- 1885 NOTE ON AN APHIDIAN INSECT INFESTING PINE TREES, WITH OBSERVATIONS ON THE NAME CHERMES OR KERMES. *New Zeal. Inst. Trans. and Proc.* 17 (1884): 13-19 (17-18), illus.
Favors use of *Kermes* in the Coccidae.
- 1885a FURTHER NOTES ON COCCIDAE IN NEW ZEALAND. *New Zeal. Inst. Trans. and Proc.* 17 (1884): 20-31, illus.
Describes 9 new species; notes on 17 other coccids.
- 1887 FURTHER NOTES ON NEW ZEALAND COCCIDAE. *New Zeal. Inst. Trans. and Proc.* 19 (1886): 45-49, illus. (col.).
Erichiton hispidus n. gen. and sp. Description of male *Icerya purchasi*.
- 1887a AN ACCOUNT OF THE INSECTS NOXIOUS TO AGRICULTURE AND PLANTS IN NEW ZEALAND, THE SCALE INSECTS (COCCIDAE). Wellington, Didsbury. 116 p., illus. (col.).
A review of New Zealand Coccidae with keys and descriptions for 4 subfamilies, 18 genera (52 in keys), and 67 species; glossary, family characteristics, controls, host list.
- 1889 ON SOME NEW SOUTH AUSTRALIAN COCCIDAE. *Roy. Soc. So. Austral. Trans.* 11 (1888): 101-111, illus.
Describes 6 new species.
- 1889a ON THE DISTINCTION BETWEEN LECANIDINAE, HEMICOCCIDINAE AND COCCIDINAE. *Ent. Monthly Mag.* 25: 405-409.
Running discussion giving opinion on these groups.
- 1890 FURTHER NOTES ON COCCIDAE, WITH DESCRIPTIONS OF NEW SPECIES FROM AUSTRALIA, FIJI, AND NEW ZEALAND. *New Zeal. Inst. Trans. and Proc.* 22 (1889): 133-156, illus.
Describes 1 new genus, 17 new species; notes on 5 other coccids.
- 1890a ON A NEW AUSTRALIAN COCCID. *Linn. Soc. N. S. Wales Proc.* (ser. 2) 5: 280-282, illus.
Coelostoma australe.
- 1890b HOW DO COCCIDS PRODUCE CAVITIES IN PLANTS? *Ent. Monthly Mag.* 26: 277-280.
- 1890c NEW ZEALAND COCCIDAE EXHIBITED BY W. M. MASKELL AT THE MAY 7, 1890 MEETING OF THE LONDON ENTOMOLOGICAL SOCIETY (PUBLISHED LETTER). *Ent. Soc. London Proc.* f. 1890, pt. 2: xiv-xvi.
Lists 25 New Zealand (or Australian) coccids including some nomina nuda.
- 1891 FURTHER COCCID NOTES: WITH DESCRIPTIONS OF NEW SPECIES FROM NEW ZEALAND, AUSTRALIA, AND FIJI. *New Zeal. Inst. Trans. and Proc.* 23 (1890): 1-36, illus.
Describes 17 new species, 1 new variety; notes on some genera and on 14 other coccids.
- 1891a DESCRIPTIONS OF NEW COCCIDAE. *Indian Mus. Notes* 2: 59-62, illus.
Aspidiotus theae, *Chionaspis theae*, *Eriochiton cajani*, n. spp.

MASKELL, W. M.—Continued.

- 1891b DESCRIPTION OF A NEW SCALE INSECT INFESTING GRASS. Agr. Gaz. N. S. Wales 2: 352-353, illus.
Dactylopius herbicola.
- 1892 FURTHER COCCID NOTES: WITH DESCRIPTIONS OF NEW SPECIES, AND REMARKS ON COCCIDAE FROM NEW ZEALAND, AUSTRALIA, AND ELSEWHERE. New Zeal. Inst. Trans and Proc. 24 (1891): 1-64, illus.
Describes 2 new genera, 38 new species; notes on some genera and on 16 other coccids.
- 1892a A NEW ICERYA, AND SOME OTHER NEW COCCIDS FROM AUSTRALIA. Ent. Monthly Mag. 28: 183-184.
I. koebelei n. sp.; 6 other coccids mentioned.
- 1893 NOTES ON COCOANUT PALM COCCIDAE. Indian Mus. Notes 3: 66-67, illus.
Dactylopius cocotis variety described but not named; *Aspidiotus destructor* redescribed and illustrated.
- 1893a A FEW REMARKS ON COCCIDS. Ent. Monthly Mag. 29: 103-105.
Discusses *Lecanium hesperidum*, *L. lauri*, and genus *Prosopophora*.
- 1893b FURTHER COCCID NOTES, WITH DESCRIPTIONS OF NEW SPECIES FROM AUSTRALIA, INDIA, SANDWICH ISLANDS, DEMERARA, AND SOUTH PACIFIC. New Zeal. Inst. Trans. and Proc. 25 (1892): 201-252, illus.
Describes 31 new species; notes on 31 other coccids.
- 1894 REMARKS ON CERTAIN GENERA OF COCCIDAE. Entomologist 27: 44-46, 93-95, 166-168.
Discussion of groups *Dactylopidae*, *Acanthococcidae*, *Hemicoccidinae*; notes on *Lecanium nigrum*.
- 1894a ON A NEW SPECIES OF COCCID ON FERN ROOTS. Linn. Soc. N. S. Wales, Proc. (ser. 2) 8 (1893): 225-226, illus.
Lecanopsis filicum.
- 1894b FURTHER COCCID NOTES WITH DESCRIPTIONS OF SEVERAL NEW SPECIES AND DISCUSSION OF VARIOUS POINTS OF INTEREST. New Zeal. Inst. Trans. and Proc. 26 (1893): 65-105, illus.
Describes 15 new species, 1 new variety; notes on 19 other coccids.
- 1895 NOTES ON SOME GENERA AND SPECIES OF COCCIDAE. Ann. and Mag. Nat. Hist. (ser. 6) 16: 129-138.
Notes on *Dactylopius* [*Pseudococcus*] and *Planchonia* [*Asterolecanium*]; discussion of antennal joints of Coccidae.
- 1895a SYNOPTICAL LIST OF COCCIDAE REPORTED FROM AUSTRALIA AND THE PACIFIC ISLANDS UP TO DECEMBER, 1894. New Zeal. Inst. Trans. and Proc. 27 (1894): 1-35.
A catalog of 298 coccids in 46 genera.
- 1895b FURTHER COCCID NOTES, WITH DESCRIPTIONS OF NEW SPECIES FROM NEW ZEALAND, AUSTRALIA, SANDWICH ISLANDS AND ELSEWHERE, AND REMARKS ON MANY SPECIES ALREADY REPORTED. New Zeal. Inst. Trans. and Proc. 27 (1894): 36-75, illus.
Describes 1 new genus, 24 new species, 2 new varieties; notes on 29 other coccids.
- 1896 ASPIDIOTUS PERNICIOSUS COMSTOCK, AND AONIDIA FUSCA, MASKELL: A QUESTION OF IDENTITY OR VARIATION. Canad. Ent. 28: 14-16. Also in Ent. Monthly Mag. 32: 33-36; Agr. Gaz. N. S. Wales 6 (1895): 868-870.
Suspects they are identical.
- 1896a NOTES ON COCCIDAE. Ent. Monthly Mag. 32: 223-226.
Several miscellaneous notes: *Crocidocysta* synonymized with *Cylindrococcus*.
- 1896b FURTHER COCCID NOTES, WITH DESCRIPTIONS OF NEW SPECIES AND DISCUSSIONS OF QUESTIONS OF INTEREST. New Zeal. Inst. Trans. and Proc. 28 (1895): 380-411, illus.
Describes 1 new genus, 12 new species, 6 new varieties; notes on 19 other coccids.

MASKELL, W. M.—Continued.

1897 FURTHER COCCID NOTES: WITH DESCRIPTIONS OF NEW SPECIES AND DISCUSSIONS OF POINTS OF INTEREST. *New Zeal. Inst. Trans. and Proc.* 29 (1896): 293-331, illus.

Describes 1 new genus, 14 new species, 18 new varieties; notes on 28 other coccids.

1897a ON A COLLECTION OF COCCIDAE, PRINCIPALLY FROM CHINA AND JAPAN. *Ent. Monthly Mag.* 33: 239-244.

List of 66 coccids with collection data, of which 20 are marked "sp. nov." and have very brief descriptions.

1898 FURTHER COCCID NOTES: WITH DESCRIPTIONS OF NEW SPECIES, AND DISCUSSION OF POINTS OF INTEREST. *New Zeal. Inst. Trans. and Proc.* 30 (1897): 219-252, illus.

Describes 2 new genera, 22 new species, 9 new varieties; notes on 11 additional coccids.

MASLOVSKY, N. N.

1935 NOUVELLE ESPÈCE DE COCHENILLE. (In Russian.) *Far East. Br. Acad. Sci. USSR Bul.* 14: 171-173.

Mentions *Hemisphaerococcus ussuri* Borkhsenius "gen. et sp. nov." [nom. nud.] and several other coccids.

MASSINI, P. C., and BRÉTHES, J.

1918 NUEVAS PLAGAS Y SUS ENEMIGOS NATURALES, TRES NUEVAS COCHINILLAS ARGENTINAS Y SUS PARASITOS. *Soc. Rural Argentina An.* 52: 148-158, illus.

Three new *Pulvinaria* species described and credited to Bréthes.

MATESOVA, G. IA

1955 CONTRIBUTION TO THE KNOWLEDGE OF THE COCCID AND DIASPINE FAUNA OF SOUTH-EASTERN KAZAKHSTAN. (In Russian.) (Alma-Ata) *Akad. Nauk. Kazakh SSR, Inst. Zool, Trudy* 4: 199-205.

A tabular list of 54 coccids, including 2 Borchsenius and Matesova ms. new species names and 6 Matesova ms. new species names, with indications of food plant and environmental associations.

MATHESON, R.

1907 NUMBER OF MOULTS OF THE FEMALE OF DACTYLOPIUS CITRI. *Canad. Ent.* 39: 284-287.

Description of four stages.

1923 THE WAX SECRETING GLANDS OF PSEUDOCOCCUS CITRI RISSO. *Ent. Soc. Amer. Ann.* 16: 50-56, illus.

Histological description.

MATHIS, W.

1947 BIOLOGY OF THE FLORIDA RED SCALE IN FLORIDA. *Fla. Ent.* 29: 15-35.

MATHYS, G.

1953 OBSERVATIONS SUR LA MOBILITÉ DES LARVES NÉONATES DE QUADRASPIDIOTUS PERNICIOSUS COMST. ET SUR LEUR TRANSPORT PAR LE VENT. *Landw. Jahrb. der Schweiz (n. s.)* 2: 981-984, illus.

MATSUDA, M.

1929 STUDIES ON CHRYSOMPHALUS AONIDUM 1. IN FORMOSA. (In Japanese.) *Formosa Govt. Res. Inst. Dept. Agr. Rpt.* 39, 79 p., illus.

Descriptive information, scale formation, etc.

1935 STUDIES ON CHRYSOMPHALUS AONIDUM LINNÉ, IX. SEASONAL LIFE HISTORY IN KYOTO. (In Japanese.) *Mushi* 8: 29-36.

Reports two generations annually and winter hibernation of adult.

MATSUMURA, S.

1931 6,000 ILLUSTRATED INSECTS OF JAPAN-EMPIRE. (In Japanese.) Tokyo, 1497 p., illus.

Brief discussion and figures for 27 coccids.

MAXWELL-LEFROY, H.

- 1902 SCALE INSECTS OF THE WEST INDIES. *West Indian Bul.* 3: 240-270, 295-319.
An annotated list of 120 coccids; detailed discussion of geographic and ecological relationships of West Indian coccids.
- 1903 THE SCALE INSECTS OF THE LESSER ANTILLES. PART II. *West Indies Imp. Dept. Agr. (Pam. Ser.)* 22, 50 p., illus.
Gives brief description, food plants, and treatment of 30 species.
- 1908 NOTES ON INDIAN SCALE INSECTS (COCCIDAE). *Indian Dept. Agr. Mem., Ent. Ser.* 2 (7): 111-137, illus.
Notes of varying detail on the characteristics, biology, distribution or economic importance of 26 coccids.

MAY, W.

- 1899 UEBER DAS VENTRALSCHILD DER DIASPINEN. *Mitt. aus dem Naturhist. Mus. Hamburg* 16 (Beih. 2 z. Jahrb. der Hamburg. Wiss. Anst. 16, 1898): 143-147. Also in *Bericht der Sta. f. Pflanzenschutz Hamburg, 1. 1898-99* (reprint pages 1-5).
Critical comment on previously published work.
- 1899a UEBER DIE LARVEN EINIGER ASPIDIOTUS ARTEN. *Mitt. aus dem Naturhist. Mus. Hamburg* 16 (Beih. 2 z. Jahrb. der Hamburg. Wiss. Anst. 16, 1898): 149-153, illus.
Illustrations and notes for pygidial characters of 4 species.

MAYER, P.

- 1892 ZUR KENNTNIS VON COCCUS CACTI. *Zool. Sta. zu Neapel, Mitt.* 10: 505-518, illus.
Internal anatomy, some histology, structure of derm pores and spines.

MAYET, V.

- 1897 LA COCHENILLE DES VIGNES DU CHILI (MARGARODES VITUM GIARD.) *Soc. Ent. de France* 65 (1896): 419-435. Translation in *Soc. Cient. Argentina An.* 44: 241-259.
General discussion including description of coccid.

McCONNELL, H. S.

- 1941 NEW SPECIES OF PSEUDOCOCCIDAE. *Wash. Ent. Soc. Proc.* 43: 93-105, illus.
Pseudantonina arundinariae, *Pseudococcus diodium*, *P. junceus*, *Trionymus caricis*, *T. cladestinis*.
- 1943 NOTES ON THE ANATOMY OF THE COCCID GENUS ACLERDA AND DESCRIPTIONS OF THREE NEW SPECIES. *Wash. Ent. Soc. Proc.* 45: 99-115, illus.
A. andropogonis, *A. arundinariae*, *A. xalapenseae*.
- 1949 A NEW NORTH AMERICAN SPECIES OF PULVINARIA. *Wash. Ent. Soc. Proc.* 51: 29-34, illus.
P. ericicola.
- 1954 A CLASSIFICATION OF THE COCCID FAMILY ACLERDIDAE (COCCOIDEA, HOMOPTERA). *Md. Agr. Expt. Sta. Bul. A-75 (Tech.)*, 121 p., illus. Feb. [Date on publication, June 1953, is incorrect.]
A monographic treatment. Two new genera, 17 new species.
- 1955 A REDESCRIPTION OF ACLERDA ISCHAEMI RAMAKRISHNA AND THE DESCRIPTION OF A NEW AFRICAN ACLERDA. *Wash. Ent. Soc. Proc.* 57: 165-174, illus.
A. balachowskyi n. sp.

McDANIEL, E., see Pettit, R. H., and McDaniel, E.

McKENZIE, H. L.

- 1937 MORPHOLOGICAL DIFFERENCES DISTINGUISHING CALIFORNIA RED SCALE, YELLOW SCALE, AND RELATED SPECIES (HOMOPTERA, DIASPIDIDAE). *Calif. Univ. Pubs., Ent.* 6: 323-335, illus.
Describes and keys 5 *Aonidiella*, including *A. comperei* n. sp.

McKENZIE, H. L.—Continued.

- 1937a GENERIC CHARACTERISTICS OF AONIDIELLA BERLESE AND LEONARDI, AND A DESCRIPTION OF A NEW SPECIES FROM AUSTRALIA (HOMOPTERA-DIASPIDIDAE). Pan-Pacific Ent. 13: 176-180, illus.
A. eremocitri.
- 1938 THE GENUS AONIDIELLA (HOMOPTERA; COCCIDEA: DIASPIDIDAE). (CONTRIBUTION NUMBER 8). Microentomology 3: 1-36, illus.
A. inornata n. sp. Review of previous inclusions; key and descriptions for 16 species.
- 1939 A REVISION OF THE GENUS CHRYSOMPHALUS AND SUPPLEMENTARY NOTES ON THE GENUS AONIDIELLA (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). Microentomology 4: 51-77, illus.
Aonidiella longicornis, *Chrysomphalus nulliporus* n. spp.; review of about 100 *Chrysomphalus* names; redescriptions and key for 8 accepted inclusions.
- 1941 A NEW SPECIES OF MATSUCOCCUS ATTACKING PIÑON PINE IN CALIFORNIA (HOMOPTERA; COCCOIDEA; MARGARODIDAE). Microentomology 6: 2-5, illus.
M. monophyllae.
- 1942 NEW SPECIES OF PINE-INFESTING MARGARODIDAE FROM CALIFORNIA AND SOUTHWESTERN UNITED STATES (HOMOPTERA; COCCOIDEA; MARGARODIDAE). (CONTRIBUTION NO. 30). Microentomology 7: 1-18, illus.
Tribe Pityococcini new; *Pityococcus* n. gen., *P. ferrisi*, *P. deleoni*, *P. rugulosus* n. spp.; *Desmococcus* n. gen. *D. captivus*, *D. sedentarius* n. spp.
- 1942a SEASONAL HISTORY OF THE MARGARODID SCALE, MATSUCOCCUS BISETOSUS MORRISON, OCCURRING ON PONDEROSA AND JEFFREY PINES IN CALIFORNIA (HOMOPTERA; COCCOIDEA; MARGARODIDAE). (CONTRIBUTION NO. 31). Microentomology 7: 19-24, illus.
Describes various stages.
- 1942b TWO NEW SPECIES RELATED TO RED SCALE (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). Calif. Dept. Agr. Bul. 31: 141-147, illus.
Aonidiella ensifera, *A. paucitatis*, n. spp.
- 1943 MISCELLANEOUS DIASPID STUDIES INCLUDING NOTES ON CHRYSOMPHALUS (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). Calif. Dept. Agr. Bul. 32: 148-162, illus.
Describes 6 new species.
- 1943a THE SEASONAL HISTORY OF MATSUCOCCUS VEXILLORUM MORRISON (HOMOPTERA; COCCOIDEA; MARGARODIDAE). (CONTRIBUTION NO. 39). Microentomology 8: 42-52, illus.
Describes various stages.
- 1943b NOTES ON MATSUCOCCUS VEXILLORUM MORRISON (HOMOPTERA: COCCOIDEA: MARGARODIDAE). (CONTRIBUTION NO. 40). Microentomology 8: 53-57, illus.
Further descriptive notes on stages.
- 1944 MISCELLANEOUS DIASPID SCALE STUDIES (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). Calif. Dept. Agr. Bul. 33: 53-57, illus.
Three new species described; added information on 2 other coccids.
- 1945 A REVISION OF PARLATORIA AND CLOSELY ALLIED GENERA. (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). Microentomology 10: 47-121, illus.
Review of previous *Parlatoria* assignments; 3 new species; key and descriptions for 37 inclusions; *Parlaspis*, *Parlagena* n. gen.; key and descriptions for 6 parlatoriine genera.
- 1946 SUPPLEMENTARY NOTES ON THE GENERA AONIDIELLA AND PARLATORIA (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). Microentomology 11: 29-36, illus.
Aonidiella marginipora n. sp.; notes on 8 other *Aonidiella*; revised key to 21; *Parlatoria* name correction.

McKENZIE, H. L.—Continued.

- 1946a GENERAL DISTRIBUTION OF RED SCALE, AONIDIELLA AURANTII (MASKELL) IN CALIFORNIA. Calif. Dept. Agr. Bul. 35: 95-99.
- 1946b A NEW SPECIES OF LEPIDOSAPHES ATTACKING DENDROBIUM ORCHIDS IN HAWAII AND CALIFORNIA. (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). Hawaii. Ent. Soc. Proc. 12 (1945): 611-613, illus.
L. noxia.
- 1947 DIASPID SCALE STUDIES, WITH NOTES ON CALIFORNIA SPECIES (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). Calif. Dept. Agr. Bul. 36: 31-36, illus.
Acutaspis subnigra, *A. tingi* n. spp.; reference to 7 other species.
- 1947a CORRECTION: LEPIDOSAPHES NOXIA MCKENZIE. Hawaii. Ent. Soc. Proc. 13: 31.
Changes antennal description.
- 1947b MISCELLANEOUS DIASPID SCALE STUDIES. PART V. (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). Calif. Dept. Agr. Bul. 36: 107-114, illus.
Diaspis parasi, *D. ferrisi*, *D. conocarpi*, n. spp. *Africonidia halli*, n. gen. and sp.; 3 *Diaspis* interpolated into Ferris key.
- 1949 A NEW INTRODUCED DIASPIDID SCALE OF POSSIBLE ECONOMIC CONCERN IN CALIFORNIA. (HOMOPTERA; COCCOIDEA; DIASPIDIDAE) SCALE STUDIES—PART VI. Calif. Dept. Agr. Bul. 38: 123-126, illus.
Neopinnaspis harperi n. gen. and sp.
- 1950 THE GENERA LINDINGASPIS MACGILLIVRAY AND MARGINASPIS HALL (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). (CONTRIBUTION NO. 69). Microentomology 15: 98-124, illus.
A systematic review of *Lindingaspis* with key and descriptions for 16 species, 4 new; redescription of *Marginaspis thevetiae*.
- 1951 MISCELLANEOUS DIASPIDID SCALE STUDIES (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). SCALE STUDIES—PART VII. Calif. Dept. Agr. Bul. 40: 80-82, illus.
Hemiberlesia pseudorapax n. sp.
- 1951a PRESENT STATUS OF THE KUNO SCALE, LECANIUM KUNOENSIS KUWANA, IN CALIFORNIA. Calif. Dept. Agr. Bul. 40: 105-109, illus.
Life history, distribution, hosts, etc.
- 1952 NEW PARLATORIINE SCALES FROM INDIA AND EGYPT, AND SUPPLEMENTARY NOTES ON OTHER RELATED SPECIES (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). SCALE STUDIES—PART IX. Calif. Dept. Agr. Bul. 41: 9-18, illus.
Parlatoria boycei, *Parlatoresopsis perplexus* n. spp.; includes revised key to species of *Parlatoria*.
- 1952a DISTRIBUTION AND BIOLOGICAL NOTES ON THE OLIVE PARLATORIA SCALE, PARLATORIA OLEAE (COLVÉE), IN CALIFORNIA. (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). SCALE STUDIES—PART X. Calif. Dept. Agr. Bul. 41: 127-138, illus.
Detailed host and distribution records.
- 1953 A NEW SCALE INSECT FROM THE RYUKYU ISLANDS RELATED TO THE RED SCALE. (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). SCALE STUDIES—PART XI. Calif. Dept. Agr. Bul. 42: 35-38, illus.
Aonidiella messengeri.
- 1953a TWO NEW SELENASPIDUS SCALES INFESTING EUPHORBIA IN CALIFORNIA. (HOMOPTERA; COCCOIDEA; DIASPIDIDAE). SCALE STUDIES—PART XII. Calif. Dept. Agr. Bul. 42: 53-58, illus.
S. albus, *S. rubidus*.
- 1955 A NEW SPECIES OF LEPIDOSAPHES SCALE INFESTING UMBRELLA PINE IN CALIFORNIA. (HOMOPTERA; COCCOIDEA; DIASPIDIDAE) Pan-Pacific Ent. 31: 187-190, illus.
L. sciadopitysi.

See also Armitage, H. M., and McKenzie, H. L.

McKENZIE, H. L., GILL, L. S., and ELLIS, D. E.

1948 THE PRESCOTT SCALE (*MATSUCOCCUS VEXILLORUM*) AND ASSOCIATED ORGANISMS THAT CAUSE FLAGGING INJURY TO PONDEROSA PINE IN THE SOUTHWEST. Jour. Agr. Res. 76: 33-51, illus.

Report on field studies on the biology of the coccid.

MECZNIKOW, EL., *see* Metschnikoff, E.

MEERWARTH, H.

1900 DIE RANDSTRUCTUR DES LETZTEN HINTERLEIBSSEGMENTS VON *ASPIDIOTUS PERNICIOSUS* COMST. Jahrb. der Hamburg. Wiss. Anst. 17 (1899) Beih. 3: 1-15, illus.

A detailed study of the pygidial marginal structures of *A. perniciosus* and *A. ostreaeformis*.

MELIS, A.

1943 CONTRIBUTO ALLA CONOSCENZA DELL' "ASPIDIOTUS PERNICIOSUS" COMST. Redia 29: 1-170, illus.

Monographic study: History, description of stages, world distribution, hosts, biology, and control.

1951 PRECISAZIONI MORFO-BIOLOGICHE SULL'ASPIDIOTUS PERNICIOSUS COMST. Redia (ser. 2) 36: 1-91, illus.

Detailed studies on the life history and methods of dissemination.

MENDES, D.

1936 UMA NOVA ESPECIE DO GENERO TACHARDIELLA COCK. (HOMOPT. COCCIDAE). Rev. de Ent. 6: 374-376, illus.

T. (Austrotachardiella) trilobata.

MENDES, L. O. T.

1931 UMA NOVA ESPECIE DO GENERO EUCALYMNATUS (HOMOPT.-COCCIDAE). Rev. de Ent. 1: 395-400, illus.

E. itanhaensis.

MENOZZI, C.

1926 NOTIZIE SUL MASCHIO DELL'ICERYA PURCHASI MASK. Redia 16 (1927): 105-110.

Note on the discovery of numerous males.

1933 CONTRIBUTO ALLA CONOSCENZA DELLE COCCINIGLIE, (HEMIP. COCCIDAE) D'ITALIA. (PRIMA NOTA). Soc. Ent. Ital. Bol. 65: 41-47.

Notes on 4 common coccids and description of *Phenacoccus* sp. on *Cistus*.

MERRILL, G. B.

1919 HOST LIST OF THE FLUTED, OR COTTONY CUSHION-SCALE. Fla. State Plant Bd. Quart. Bul. 3: 125-133.

A 2-column, 7-page list of known plant hosts.

1923 A NEW SCALE INSECT FROM FLORIDA. Fla. State Plant Bd. Quart. Bul. 7: 167-168, illus.

Targionia quohogiformis.

1953 A REVISION OF THE SCALE INSECTS OF FLORIDA. Fla. State Plant Bd. Bul. 1, 143 p., illus.

Discusses 183 coccids; a revision of Merrill and Chaffin, 1923.

MERRILL, G. B., and CHAFFIN, J.

1923 SCALE INSECTS OF FLORIDA. Fla. State Plant Bd. Quart. Bul. 7: 177-298, illus.

List of species with host and distribution data and photographic illustrations.

MESNIL, L.-P.

1949 REMARQUES SUR QUELQUES DIASPINES DU PIN SILVESTRE OU DU GÉNÉVRIER ET LEURS PARASITES. Rev. de Path. Veg. et d'Ent. Agr. de France 28: 73-97.

Descriptive and other notes on 3 diaspsines on conifers.

METCALF, C. L., and HOCKENYOS, G. L.

- 1930 THE NATURE AND FORMATION OF SCALE INSECT SHELLS. Ill. State Acad. Sci. Trans. 22: 167-183, illus.
Mentions 6 common coccids in discussion.

METCALF, Z. P.

- 1922 THE GLOOMY SCALE. N. C. Agr. Expt. Sta. Tech. Bul. 21, 23 p., illus.
History, distribution, hosts, description, life history, control.

METSCHNIKOFF, E.

- 1866 EMBRYOLOGISCHE STUDIEN AN INSECTEN. Ztschr. f. Wiss. Zool. 16: 389-500 (468-474, pl. 32), illus.
Embryology of *Aspidiotus nerii* described.

MEZZANA, N., see Del Guercio, G., and Mezzana, N.

MIMEUR, J. M.

- 1933 SUR LA PRÉSENCE AU MAROC DE DEUX COCCIDES NON ENCORE SIGNALÉS. Soc. des Sci. Nat. du Maroc. Bul. 13: 260-261.
First Moroccan records for *Eulecanium ficinum*, *Chionaspis kabyliensis*; discusses morphological variation in the *Chionaspis*.

See also de Lepiney, J., and Mineur, J. M.

MISRA, A. B.

- 1924 ON THE GENITALIA OF THE MALE LAC-INSECT (*TACHARDIA LACCA KERR*), WITH A NOTE ON ITS METHOD OF COPULATION. (Abs.) Indian Sci. Cong. (Bangalore, 1924) Proc. 11: 119.

- 1930 ON A COLLECTION OF LAC INSECTS FROM NORTHERN INDIA. Bul. Ent. Res. 21: 161-164, illus.
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- 1931 ON THE ANATOMY OF THE LARVA OF LACCIFER LACCA KERR. (hem., coccidae). Bul. Ent. Res. 22: 297-306, illus.
Detailed description of internal and external anatomy.

- 1931a ON THE INTERNAL ANATOMY OF THE FEMALE LAC INSECT, LACCIFER LACCA KERR (homoptera: coccidae). [London] Zool. Soc. Proc. (Pt. 1) 1931: 297-323, illus.
A detailed study.

- 1931b ON THE INTERNAL ANATOMY OF THE MALE LAC INSECT, LACCIFER LACCA KERR (HOMOPTERA, COCCIDAE). [London] Zool. Soc. Proc. (Pt. 4) 1931: 1359-1381, illus.
A detailed anatomical description.

- 1939 THE DIFFERENTIATION AND DEVELOPMENT OF THE MALE REPRODUCTIVE SYSTEM IN *DROSICHIELLA (MONOPHLEBUS) QUADRICAUDATA*, WITH REMARKS ON COPULATION BETWEEN THE TWO SEXES. Internatl. Congr. Ent. 7, (Berlin, 1938) Verhandl. 2: 866-871, illus.
Describes histological structure of reproductive organs.

- 1939a THE STRUCTURE AND SECRETION OF THE OVISAC BY THE FEMALE OF *DROSICHIELLA (MONOPHLEBUS) QUADRICAUDATA*. Internatl. Congr. Ent., 7, (Berlin, 1938) Verhandl. 2: 872-876, illus.
Describes histological structure of ovisac-producing organs.

MISRA, A. B., and RAO, V. P.

- 1942 THE HYPODERMAL GLANDS OF *PULVINARIA MAXIMA GREEN* (Abs.) Indian Sci. Cong. (Bernares, 1941) Proc. 28, Pt. 3, p. 205-206.
Several types described briefly.

MISRA, C. S.

- 1921 DETERMINATION OF EMERGENCE OF LARVAE FROM EXAMINATION OF THE OVARIES OF LAC INSECTS. Ent. Mtg. (Pusa, 1921) Proc. 4: 253-258, illus.
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MISRA, C. S.—Continued.

1924 A LIST OF COCCIDAE IN THE PUSA COLLECTION. Ent. Mtg. (Pusa, 1923) Proc. 5: 345-351.

A list of 84 Indian and 25 non-Indian coccids with associated host and locality data.

1929 THE CULTIVATION OF LAC IN THE PLAINS OF INDIA (LACCIFER LACCA, KERR). Pusa, Agr. Res Inst. Bul. 185 (1928), 115 p., illus. (col.). A very detailed discussion.

MIZUNO, T., and MURAKAWA, R.

1953 ON THE DISTRIBUTION OF CEROPLASTES RUBENS MASK. (In Japanese.) Oyo-Kontyu 9: 97-101, illus. English summary.

MODEER, A.

1778 OM FÄSTFLYET, COCCUS. Goethebrgsk Vetensk. och Vitterhets, Handl. (ser. 1) 1: 11-50.

Discusses 38 *Coccus*, including *diosma*, *alni*, *ulmi*, *uva*, *spuria*, and *abietis*, apparently presented as new names.

MODUGNO, A.

1953 MORFOLOGIA E VARIABILITÀ DEI CARATTERI IN CHIONASPIS EUONYMI COMST. Bol. di Zool. Agr. e Bachicolt. 19: 113-135, illus.

MOLINARI, O. CHIESA, *see* Chiesa Molinari, O.

MONIEZ, R.

1887 LES MALES DU LECANIUM HESPERIDUM ET LA PARTHÉNOGÉNÈSE. [Paris] Acad. des Sci., Compt. Rend. 104: 449-451.

Author may have confused developing parasites with the male stage according to Newstead.

MONTROUSIER, R. P., *see* Perroud, B. -P., and Montrousier, R. P.

MORGAN, A. C. F.

1887 OBSERVATIONS UPON ASPIDIOTUS RAPAX, COMSTOCK AND A. CAMELLIAE (BOISD.), SIGNORET: TWO ALLIED SPECIES OF COCCIDAE. Ent. Monthly Mag. 24: 79-82.

1888 ASPIDIOTUS ZONATUS, FRAUENFELD. Ent. Monthly Mag. 24: 205-208, illus.

Description and synonymy.

1888a OBSERVATIONS ON COCCIDAE (NO. 1). Ent. Monthly Mag. 25: 42-48, illus.

Discusses the four coccid subfamilies, the scales of Diaspinae, and the possibility of cross breeding.

1888b OBSERVATIONS ON COCCIDAE (NO. 2). Ent. Monthly Mag. 25: 118-120, illus.

Remarks on genera that are not based on shape of scale.

1889 OBSERVATIONS ON COCCIDAE (NO. 4). Ent. Monthly Mag. 25: 275-277, illus.

Miscellaneous comments.

1889a OBSERVATIONS ON COCCIDAE (NO. 5). Ent. Monthly Mag. 25: 349-353, illus.

Describes 3 new species; notes on several other species.

1890 OBSERVATIONS ON COCCIDAE (NO. 6). Ent. Monthly Mag. 26: 42-45.

Diaspis zamiae n. sp.; 3 other species of *Diaspis* discussed.

1890a OBSERVATION ON COCCIDAE (NO. 8). Ent. Monthly Mag. 26: 226-230. *Mytilaspis linearis*, *M. buxi*, *M. pinnaeformis*, *M. ficus* discussed.

1892 OBSERVATIONS ON COCCIDAE (NO. 9). Ent. Monthly Mag. 28: 12-16. Notes on 7 diaspine coccids belonging to 3 genera.

MORRISON, E., *see* Morrison, H., and Morrison, E.

MORRISON, H.

- 1919 A REPORT ON A COLLECTION OF COCCIDAE FROM ARGENTINA WITH DESCRIPTIONS OF APPARENTLY NEW SPECIES (HOM.). Ent. Soc. Wash. Proc. 21: 63-91, illus.
Describes 7 new species; notes on 16 other coccids; key to 6 South American *Eriococcus*.
- 1919a A NEW GENUS AND SPECIES OF COCCID FROM LORANTHUS. Ent. Soc. Wash. Proc. 21: 197-202, illus.
Macrocepicooccus loranthi.
- 1920 THE NONDIASPINE COCCIDAE OF THE PHILIPPINE ISLANDS, WITH DESCRIPTIONS OF APPARENTLY NEW SPECIES. Philippine Jour. Sci. 17: 147-202, illus.
A synoptic review, with keys, of 42 coccids, including 4 new species, in 19 genera and 4 subfamilies; *Synacanthococcus* n. gen.
- 1921 SOME NONDIASPINE COCCIDAE FROM THE MALAY PENINSULA, WITH DESCRIPTIONS OF APPARENTLY NEW SPECIES. Philippine Jour. Sci. 18: 637-677, illus.
Alecanium n. gen.; 12 new species; notes on 7 other coccids.
- 1921a RED DATE-PALM SCALE, PHOENICOCOCCUS MARLATTI: A TECHNICAL DESCRIPTION. Jour. Agr. Res. 21: 669-676, illus.
- 1922 ON SOME TROPHOBIOTIC COCCIDAE FROM BRITISH GUIANA. Psyche 29: 132-152, illus.
Farinococcus n. gen.; 5 new species; notes on 4 other coccids.
- 1923 A REPORT ON A COLLECTION OF COCCIDAE FROM ARGENTINE. II. (HEMIPTERA, COCCIDAE). Ent. Soc. Wash. Proc. 25: 122-126, illus.
Lecanium viticis n. sp.; notes on 8 other coccids.
- 1924 SYNONYMICAL NOTES ON TWO SPECIES OF AULACASPIS (HEMIPTERA: COCCIDAE). Ent. Soc. Wash. Proc. 26: 231-232.
A. flacourtae, a synonym of *A. major* (Ckll.)
- 1924a THE COCCIDAE OF THE WILLIAMS GALAPAGOS EXPEDITION. Zoologica 5: 143-152, illus.
Describes 5 new species; notes on 2 other coccids.
- 1925 CLASSIFICATION OF SCALE INSECTS OF THE SUBFAMILY ORTHEZIINAE. Jour. Agr. Res. 30: 97-154, illus.
Keys and descriptions for 5 genera, 2 subgenera, and 34 coccids, with notes on 7 others; *Mixorthezia* n. gen.
- 1925a IDENTITY OF THE MEALYBUG DESCRIBED AS DACTYLOPIUS CALCEOLARIAE MASKELL. Jour. Agr. Res. 31: 485-500, illus.
Key to 11 mealybugs discussed; 2 new species described; 3 others re-described.
- 1926 AN APPARENTLY NEW SUGAR-CANE MEALYBUG. Jour. Agr. Res. 33: 757-759, illus.
Ripersia raditicola.
- 1927 DESCRIPTIONS OF NEW GENERA AND SPECIES BELONGING TO THE COCCID FAMILY MARGARODIDAE. Biol. Soc. Wash. Proc. 40: 99-109, illus.
Proposes 2 new families; 2 new subfamilies; 8 new tribes; 10 new genera; 9 new species.
- 1928 A CLASSIFICATION OF THE HIGHER GROUPS AND GENERA OF THE COCCID FAMILY MARGARODIDAE. U. S. Dept. Agr. Tech. Bul. 52, 239 p. illus.
Reviewed by Ferris, G. F., Ent. News 39: 325-327.
Critical study, so far as available, of the 268 coccids and the 62 generic units known to belong in this group; diagnoses and keys for genera and higher groups, and keys for some species.
- 1929 SOME NEOTROPICAL SCALE INSECTS ASSOCIATED WITH ANTS. Ent. Soc. Amer. Ann. 22: 33-60, illus.
Cyclolecanium n. gen.; 9 new species; notes on 10 other coccids.
- 1930 AN INTERESTING NEW GENUS OF ICERYINE COCCID. Biol. Soc. Wash. Proc. 43: 17-20, illus.
Echinicerya anomala n. gen. and sp.

MORRISON, H.—Continued.

- 1939 DESCRIPTIONS OF NEW SPECIES OF MATSUCOCCUS (HEMIPTERA: COCCIDAE).
Ent. Soc. Wash. Proc. 41: 1-20, illus.
Describes 10 new species.
- 1939a TAXONOMY OF SOME SCALE INSECTS OF THE GENUS PARLATORIA ENCOUNTERED IN PLANT QUARANTINE INSPECTION WORK. U. S. Dept. Agr. Misc. Pub. 344, 34 p., illus.
Discussion of morphology, key, descriptions, and synonymy for 12 species.
- 1941 A NEW STEATOCOCCUS FROM MEXICO (HEMIPTERA: COCCOIDEA). Ent. Soc. Wash. Proc. 43: 140-141.
S. tuberculatus.
- 1945 THE MEALYBUG GENUS HETEROCOCCUS FERRIS AND SOME OF ITS RELATIVES. Wash. Acad. Sci. Jour. 35: 38-55, illus.
Describes 2 new genera; discusses related genera with key to 4; key and descriptive or other notes for 6 *Heterococcus*, including 2 new species, 1 new name.
- 1952 CLASSIFICATION OF THE ORTHEZIIDAE. SUPPLEMENT TO "CLASSIFICATION OF SCALE INSECTS OF THE SUBFAMILY ORTHEZIINAE." U. S. Dept. Agr. Tech. Bul. 1052, 80 p., illus.
A revision of an earlier paper, presenting keys for 6 genera and 74 species, 31 of these described as new; notes on 32 previously described species.
- 1954 A SECOND SPECIES OF ORTHEZIOLA SULC. Ent. Soc. Wash. Proc. 56: 120-123, illus.
O. guineensis n. sp.

See also Dietz, H. F. and Morrison, H.; Felt, E. P., and Morrison, H.

MORRISON, H., and MORRISON, E.

- 1922 A REDESCRIPTION OF THE TYPE SPECIES OF THE GENERA OF COCCIDAE BASED ON SPECIES ORIGINALLY DESCRIBED BY MASKELL. U. S. Natl. Mus. Proc. 60, Art. 12 (No. 2407), 120 p., illus.
Redescribes 37 genotypes and redefines their genera; bibliography of Maskell coccid papers.
- 1923 THE SCALE INSECTS OF THE SUBFAMILIES MONOPHLEBINAE AND MARGARODINAE TERATED BY MASKELL. U. S. Natl. Mus. Proc. 62, Art. 17 (No. 2463), 47 p., illus.
Describes 3 new genera, 3 new species; redescribes 8 species, notes on 7 others; keys to 5 *Monophlebulus* and 5 *Callipappus*.
- 1927 THE MASKELL SPECIES OF SCALE INSECTS OF THE SUBFAMILY ASTEROLECANIINAE. U. S. Natl. Mus. Proc. 71, Art. 17 (No. 2689), 67 p., illus.
Describes 4 new species; redescribes 16 in 7 genera.

MORSTATT, H.

- 1908 UNTERSUCHUNGEN AN DER ROTEN AUSTERNFÖRMIGEN SCHILDLAUS, DIASPIS FALLAX NOV. NOM. HORVATH. Centbl. f. Bakt., Parasitenk. und Infektionskrank. Abt. II, 21: 349-424, illus.
Includes observations on life history and descriptions of stages.

MOTE, D. C., see Roaf, J. R., and Mote, D. C.

MOULTON, D.

- 1907 THE MONTEREY PINE SCALE, PHYSOKERMES INSIGNICOLA (CRAW.)
Davenport Acad. Sci. Proc. 12: 1-26, illus.
Life history, enemies, detailed descriptions of stages with some internal anatomy and histology.

MOUTIA, L. A.

- 1944 THE SUGAR-CANE SCALE, AULACASPIS TEGALENSIS, ZEHNT. Bul. Ent. Res. 35: 69-77, illus.
Includes a critical redescription by Mamet; notes on bionomics, enemies, control.

MOZNETTE, G. F.

1920 THE DICTYOSPERMUM SCALE ON THE AVOCADO AND HOW IT MAY BE CONTROLLED. Fla. State Plant Bd. Quart. Bul. 5: 5-11.

Descriptive and life-history information included.

MUKHERJEE, T. D., *see* Das, G. M., Mukherjee, T. D., and Sen Gupta, N.

MULOCK, A. P.

1954 A DISEASE OF MANUKA LEPTOSPERMUM SCOPARIUM FORST. Roy. Soc. New Zeal. Trans. 82: 115-118, illus.

Eriococcus manukae nom. nud. [Subsequently described by J. M. Hoy as *E. orariensis* n. sp. Ibid. 82: 465-474.]

MUMFORD, E. P., and ADAMSON, A. M.

1933 ENTOMOLOGICAL RESEARCHES IN THE MARQUESAS ISLANDS. Internatl. Ent. Cong. (Paris, 1932), Proc. 5, Pt. 2, p. 431-450 (443), illus.

Lepidosaphes n. sp. mentioned.

MUNGER, F.

1948 BODY-TEMPERATURE MEASUREMENTS OF THE CALIFORNIA RED SCALE. Jour. Econ. Ent. 41: 422-423.

Temperatures under various conditions established.

MUNGER, F., and CRESSMAN, A. W.

1948 EFFECT OF CONSTANT AND FLUCTUATING TEMPERATURES ON THE RATE OF DEVELOPMENT OF CALIFORNIA RED SCALE. Jour. Econ. Ent. 41: 424-427.

Fluctuating temperatures did not accelerate development.

MUNRO, H. K., and FOUCHÉ, F. A.

1936 A LIST OF THE SCALE INSECTS AND MEALY BUGS (COCCIDAE) AND THEIR HOST-PLANTS IN SOUTH AFRICA. Union So. Africa Dept. Agr. and Forestry Bul. 158, 104 p.

Host list, coccid list, common name list, all alphabetical and involving about 265 coccids.

MURAKAWA, R., *see* Mizuno, T., and Murakawa, R.

MURAMATSU, K.

1932 ON LECANIUM CERASORUM CKLL., A PEST OF STREET TREES. (In Japanese.) Kontyu 6: 74-79, illus.

Includes detailed description of coccid.

See also Kuwana, I., and Muramatsu, K.

MURDOCK, G. E.

1928 THE WAX-SECRETING MECHANISM IN THE ADULT FEMALE OF ICERYA PURCHASI MASKELL. Pan-Pacific Ent. 5: 71-75, illus.

Description of compound pores producing wax.

See also Ferris, G. F., and Murdock, G. E.

MURILLO, L. M.

1931 LOS PARASITOS DEL CAFE EN EL DEPARTAMENTO DE ANTIOQUIA. Rev. Cafetera de Colombia 3: 943-949, illus.

Ceroputo antioquiensis [n. sp.]; other coccids mentioned by genus.

MYERS, J. G.

1922 A SYNONYMIC REFERENCE LIST OF NEW ZEALAND COCCIDAE. New Zeal. Jour. Sci. and Technol. 5: 196-201.

A list of 115 coccids with literature citations.

1926 II. DRY-SEASON STUDIES OF CANE HOMOPTERA AT SOLEDAD, CUBA, WITH A LIST OF THE COCCIDS OF THE DISTRICT. Harvard Univ. Inst. Trop. Biol. and Med. Contrib. 3: 67-110, illus.

Includes list of 22 coccids with collection data.

1927 ON THE NOMENCLATURE OF NEW ZEALAND HOMOPTERA. New Zeal. Inst., Trans. and Proc. 57 (n. issue): 685-690 (690).

Makes 6 changes in names used in "A synonymic reference list, etc., 1922."

MYERS, L. E.

- 1925 THE GENERIC TYPES OF THE DIASPIDAE (HEMIPTERA).—PART I. THE GENOTYPES OF DIASPIS AND ASPIDIOTUS. *Bul. Ent. Res.* 16: 164-167, illus.
Critical redescrptions of *Diaspis echinocacti*, *Aspidiotus hederæ*.
- 1927 THE GENERIC TYPES OF THE DIASPIDIDAE (HEMIPTERA).—PART II. *Bul. Ent. Res.* 17: 341-346, illus.
Critical redescrptions of *Aulacaspis rosæ*, *Chionaspis salicis*, *Lepidosaphes ulmi*, *Chrysomphalus aonidium*.
- 1928 THE MEXICAN MEALYBUG. PHENACOCOCUS GOSSYPHII (TOWNSEND AND COCKERELL). *Calif. Dept. Agr. Monthly Bul.* 17: 355-358, illus.
A careful redescription.
- 1932 TWO ECONOMIC GREENHOUSE MEALYBUGS OF MISSISSIPPI. THE CITRUS MEALYBUG AND THE MEXICAN MEALYBUG. *Jour. Econ. Ent.* 25: 891-896, illus.
Report on life history.

NAKAYAMA, S.

- 1915 NOTES ON THE LIFE HISTORY AND HABITS OF THE ROSE SCALE, AULACASPIS ROSAE BOUCHÉ. *Jour. Ent. and Zool.* 7: 45-52, illus.
Life history; enemies.
- 1931 COCCIDAE OF KOREA. *Oyo-Dobutsugaku Zasshi* 3: 226-229. (Not seen.)

NASSANOV, N. V.

- 1907 UEBER EINIGE NEUE COCCIDEN. (In Russian.) *Acad. Imp. des Sci. St. Petersburg Bul.* (ser. 6) 1: 325.
Reports intention to publish description of *Ceroputo slavuticus* [actually *C. volynicus* as published] and *Pseudococcus vovae* [actually *vovae* as published], n. spp.
- 1908 STEINGELIA GORODETSKIA, NOV. GEN. ET NOV. SP. NOUVEAU GENRE ET ESPÈCE DES COCCIDES DU GROUPE XYLOCOCCINI. (In Russian.) *Mus. Zool. de l'Acad. Imp. Sci. St. Petersburg Ann.* 13: 345-352, illus.
Latin diagnosis.
- 1908a SUR QUELQUES NOUVELLES COCCIDES. *Mus. Zool. de l'Acad. Imp. Sci. St. Petersburg Ann.* 13: 471-499, illus.
Ceroputo volynicus, *Pseudococcus vovae*, *Kermes variegatus corticalis*, *Pulvinaria orientalis*.
- 1910 SUR LES TRANSFORMATIONS DE KERMES QUERCUS (LINN.). (In Russian.) *Acad. Imp. des Sci. St. Petersburg Bul.* (ser. 6) 4: 47-60, illus.
Well illustrated descriptions of different stages.

NEGI, P. S.

- 1929 A CONTRIBUTION TO THE LIFE HISTORY OF THE LAC INSECT, LACCIFER (TACHARDIA) LACCA. (COCCIDAE). *Bul. Ent. Res.* 19: 327-342, illus.
Detailed descriptions of various stages.
- 1934 THE ALIMENTARY CANAL, ITS APPENDAGES, SALIVARY GLANDS, AND THE NERVOUS SYSTEM OF THE ADULT FEMALE LAC INSECT, LACCIFER LACCA, KERR (COCCIDAE). *Bul. Ent. Res.* 25: 541-546, illus.
Includes description of histological structure.
- 1954 DIMORPHISM IN LAC INSECTS. *Indian Forester* 80: 423-426.
Discusses red and yellow lac insects.

NEITNER, J., see Nietner, J.

NEL, R. G.

- 1933 A COMPARISON OF AONIDIELLA AURANTII AND AONIDIELLA CITRINA, INCLUDING A STUDY OF THE INTERNAL ANATOMY OF THE LATTER. *Hilgardia* 7: 417-466, illus.

NEVES, M.

- 1936 LES COCCIDES DU PORTUGAL (PREMIÈRE LISTE). *Soc. Portug. Sci. Nat. Bul.* 12 (1938): 191-213.
List, with collection data, of 49 coccids.

NEVES, M.—Continued.

- 1943 SOBRE UM GÉNERO NOVO DE "KERMIDAE." Lisbon. Univ. Arq. do Mus. Bocago 14: [1-10], illus. (Separate only seen.)
[*Seabrina*] *cistorum* n. gen. and sp.
- 1954 CONTRIBUICAO PARA O ESTUDO DAS COCHONILHAS DE PORTUGAL. Portugaliae Acta Biol. (ser. B) 4: [229]–252, illus.
Report on 6 Portuguese coccids including *Cerococcus Camarai*, *C. pocilliferus* n. spp., *Lusitanococcus arrabidensis* n. gen. and sp.

NEWELL, W.

- 1899 ON THE NORTH AMERICAN SPECIES OF THE SUBGENERA DIASPIDIOTUS AND HEMIBERLESIA, OF THE GENUS ASPIDIOTUS. Iowa State Col., Dept. Zool. and Ent. Contrib. 3, 31 p., illus.
Keys for 2 subgenera of *Aspidiotus*, 19 *Diaspidiotus*, and 8 *Hemiberlesia*; descriptions or notes for 26 *Diaspidiotus* including 1 new species, 1 new variety; descriptions or notes for 8 *Hemiberlesia*.

NEWMAN, E.

- 1869 COCCUS BECKII, A NEW BRITISH HEMIPTERON OF THE FAMILY COCCIDAE. Entomologist 4: 217-218.
First mention of name with reference to Beck description of species.

NEWSTEAD, R.

- 1889 THE MALE OF CHIONASPIS FRAXINI, SIGN. (CH. SALICIS, LINN.) Ent. Monthly Mag. 25: 436.
Winged and wingless forms hatched from same batch of scales.
- 1891 ON SOME NEW OR LITTLE KNOWN COCCIDAE FOUND IN ENGLAND [NO. 1?]. Ent. Monthly Mag. 26: 164-166, illus.
Dactylopius walkeri, *Eriococcus insignis*, *Eriococcus fraxini*, n. spp.
- 1892 ON NEW OR LITTLE KNOWN COCCIDAE, CHIEFLY ENGLISH (NO. 2). Ent. Monthly Mag. 28: 141-147, illus.
Describes 6 new species.
- 1893 NEW OR LITTLE KNOWN COCCIDAE, CHIEFLY ENGLISH (NO. 3). Ent. Monthly Mag. 29: 77-79, illus.
Ripersia tomlinii Newstead; *R. subterranea* n. sp.
- 1893a A NEW COCCID IN AN ANT'S NEST. Ent. Monthly Mag. 29: 138.
Name *Lecanopsis formicarum* proposed but only brief description included.
- 1893b NOTES ON NEW OR LITTLE KNOWN COCCIDAE (NO. 4). Ent. Monthly Mag. 29: 153-155, illus.
Pseudinglisia rodrigueziae n. gen. and sp.
- 1893c ON THE PREPARATION OF THE COCCIDAE FOR MUSEUMS. Museums Assoc. Ann. Gen. Mtg. (London, 1893) Proc. 4: 107-115.
- 1893d OBSERVATIONS OF COCCIDAE (NO. 5). Ent. Monthly Mag. 29: 185-188, illus.
Aspidiotus cocotis, *A. affinis*, *Diaspis opuntiae*, n. spp., and *Aspidiotus dictyospermi* var. and *Dactylopius nipae* redescribed.
- 1893e OBSERVATIONS ON COCCIDAE (NO. 6). Ent. Monthly Mag. 29: 205-210, illus.
Lecanopsis formicarum n. sp and *Physokermes abietis* redescribed.
- 1893f OBSERVATIONS ON COCCIDAE (NO. 7). Ent. Monthly Mag. 29: 279-280. (errata p. 281), illus.
Aspidiotus zonatus Frauenf. (*A. quercus* Signoret a synonym.)
- 1894 OBSERVATIONS ON COCCIDAE (NO. 8). Ent. Monthly Mag. 30: 179-183, illus.
Aspidiotus abietis, *Leucaspis pini*, redescribed; *Pollinia grandis* n. sp.
- 1894a OBSERVATIONS ON COCCIDAE (NO. 9). Ent. Monthly Mag. 30: 204-207, illus.
Exaeretopus formiceticola n. gen. and sp.; further notes on *Lecanopsis formicarum*.

- 1894b OBSERVATIONS ON COCCIDAE (NO. 10). Ent. Monthly Mag. 30: 232-234, illus.
Fiorinia sulcii, *Lecanium perforatum*, n. spp.
- 1894c SCALE INSECTS IN MADRAS. Indian Mus. Notes 3 (5): 21-32, illus.
Pulvinaria obscura, *Dactylopius ceriferus*, *D. viridis*, *Aspidiotus orientalis*, n. spp.; *Ceroplastes ceriferus*, *Icerya aegyptiaca* redescribed.
- 1895 OBSERVATIONS ON COCCIDAE (NO. 11). Ent. Monthly Mag. 31: 165-167, illus.
Lichtensia viburni (female descr.); *L. eatoni*, *Dactylopius hibernicus* n. spp.
- 1895a OBSERVATIONS ON COCCIDAE (NO. 12). Ent. Monthly Mag. 31: 213-214, illus.
Ripersia terrestris n. sp.
- 1895b OBSERVATIONS ON COCCIDAE (NO. 13). Ent. Monthly Mag. 31: 233-236, illus.
Chionaspis bilobis, *C. nerii*, *Dactylopius radicum* n. spp.
- 1896 OBSERVATIONS ON COCCIDAE (NO. 14). Ent. Monthly Mag. 32: 57-60, illus.
Lecanopsis brevicornis n. sp.; *Ripersia fraxini* (male) and *Lecanium bituberculatum* redescribed; notes on 2 other coccids.
- 1896a OBSERVATIONS ON COCCIDAE (NO. 15). Ent. Monthly Mag. 32: 132-134, illus.
Icerya ewarti, *Aspidiotus maculatus*, *Parlatoria distinctissima* n. spp.
- 1897 ON COCCUS AGAVIUM, DOUGLAS. Ent. Monthly Mag. 33: 12-13, illus.
A redescription.
- 1897a IV.—NEW COCCIDAE COLLECTED IN ALGERIA BY THE REV. ALFRED E. EATON. Ent. Soc. London, Trans. 1897: 93-103, illus.
Describes 9 new species; discusses 9 other coccids.
- 1897b OBSERVATIONS ON COCCIDAE (NO. 16). Ent. Monthly Mag. 33: 165-171, illus.
Tylococcus madagascariensis n. gen. and sp., *Kermicus wroughtoni* n. gen. and sp.; 4 other new species described and 2 other coccids discussed.
- 1898 OBSERVATIONS ON COCCIDAE (NO. 17). Ent. Monthly Mag. 34: 92-99, illus.
Gymnaspis aechmeae n. gen. and sp.; 5 other new species described, and notes on 4 other coccids.
- 1900 OBSERVATIONS ON COCCIDAE (NO. 18). Ent. Monthly Mag. 36: 247-251, illus.
Dactylopius glacialis, *D. formicarius*, *Ripersia wasmanni*, n. spp., *Perissopneumon ferox* n. gen. and sp.; notes on 2 other coccids.
- 1901 ON A NEW SCALE-INSECT FROM ZOMBA, BRITISH CENTRAL AFRICA. London Zool. Soc. Proc. 62 (1900): 947-948, illus.
Walkeriana pertinax n. sp.; tentatively proposes *Aspidoproctus* for this species.
- 1901a OBSERVATIONS ON COCCIDAE (NO. 19). Ent. Monthly Mag. 37: 81-86, illus.
Describes 6 new species, 1 new variety, 1 new name; notes on 2 other coccids.
- 1901b MONOGRAPH OF THE COCCIDAE OF THE BRITISH ISLES, V. 1 (1900). London, Ray Society. 220 p., illus. Comment by T. D. A. Cockerell, in Science (n.s.) 15: 744.
An elaborate descriptive review, amply illustrated, covering 40 British diaspine coccids assigned to 11 genera; general introduction to family; keys to 12 subfamilies, to 11 diaspine genera, and to species where needed.

NEWSTEAD, R.—Continued.

- 1903 MONOGRAPH OF THE COCCIDAE OF THE BRITISH ISLES, v. 2 (1902). London, Ray Society. 270 p., illus. Critical review by T. D. A. Cockerell, in *Science* (n.s.) 19: 501-502, 1904.
An elaborate descriptive review, amply illustrated, covering 52 non-diaspine British coccids assigned to 24 genera in 6 subfamilies; keys to 19 genera and to species of multiple species genera.
- 1906 GENERAL ENTOMOLOGY. (IDENTIFICATION OF EGYPTIAN INSECT PESTS; LIST OF OTHER KNOWN AFRICAN SPECIES; PRELIMINARY REPORT ON COLLECTION OF INSECTS SENT FROM KHEDIVAL AGRICULTURAL SOCIETY FOR IDENTIFICATION.) Liverpool Univ., Inst. Com. Res. in Tropics Quart. Jour. 1: 68-72.
Report on identifications, including 29 coccids with nomina nuda new species names; *Sphaerococcus draperi* n. sp.; list of 39 other African coccids, including some nomina nuda species.
- 1906a REPORT ON INSECTS SENT FROM DER KAISERLICHE BIOLOGISCHE ANSTALT FÜR LAND—UND FORSTWIRTSCHAFT DAHLEM, BERLIN. Liverpool Univ., Inst. Com. Res. in Tropics Quart. Jour. 1: 73-74.
Report on about 20 coccid identifications, including 1 new genus, 5 new species, 2 new varieties given nomina nuda names, 1 new species very briefly characterized; notes on 5 other coccids.
- 1907 [RIPERSIA DONISTHORPEI AND R. FORMICARII N. SPP.] *In* Donisthorpe, Ent. Rec. and Jour. Var. 19: 5, illus.
Also notes on *R. tomlini*.
- 1908 ON THE GUM-LAC INSECT OF MADAGASCAR, AND OTHER COCCIDS AFFECTING THE CITRUS AND TOBACCO IN THAT ISLAND. Liverpool Univ., Inst. Com. Res. in Tropics Quart. Jour. 3 (6): 3-13, illus.
Lecanium nicotinae n. sp., *Dactylopius virgatus madagascariensis* n. var., *Icerya seychellarum cristata* n. var.; 3 other coccids discussed.
- 1908a ON THE STRUCTURAL CHARACTERS OF THREE SPECIES OF COCCIDAE AFFECTING COCOA, RUBBER, AND OTHER PLANTS IN WESTERN AFRICA. Jour. Econ. Biol. 2: 149-157, illus.
Stictococcus sjöstedti Ckll.; *Palaeococcus theobromae* n. sp.; *Pulvinaria jacksoni* n. sp.
- 1908b ON A COLLECTION OF COCCIDAE AND OTHER INSECTS AFFECTING SOME CULTIVATED AND WILD PLANTS IN JAVA AND IN TROPICAL WESTERN AFRIC. Jour. Econ. Biol. 3: 33-42, illus.
Describes 1 new genus, 6 new species, 2 new varieties; notes on 5 other coccids.
- 1909 COCCIDAE AND ALEURODIDAE OF MADAGASCAR AND COMORO IS. *In* Voeltzkow, A., *Reise in Ostafrika in den Jahren 1903-1905*. Wiss. Ergeb. 2 (System, Arb.) h. 4: 349-356 (349-355), illus.
12 coccids described or discussed, including 1 new species and 2 new varieties, but names previously published in Liverpool Univ. Inst. Com. Res. in Tropics Quart. Jour. 3 (6): 3-13.
- 1910 12. HEMIPTERA. 1. COCCIDAE. *In* Sjöstedt's *Wiss. Ergeb. der Schwedischen Zool. Exped. nach dem Kilimandjaro, dem Meru, und den umgebenden Massaistepfen Deutsch-Ostafrikas* (1905-1906) 2 (12): 1-10, illus.
Describes 6 new species; notes on 2 other coccids.
- 1910a ON SCALE INSECTS (COCCIDAE) & C. FROM THE UGANDA PROTECTORATE. Bul. Ent. Res. 1: 64-69, illus.
Stictococcus dimorphus n. sp., *Ceroplastes* ? n. sp.; 4 other coccids discussed.
- 1910b ON TWO NEW SPECIES OF AFRICAN COCCIDAE. Jour. Econ. Biol. 5: 18-22, illus.
Hemilecanium recurvatum; *Stictococcus formicarius*.
- 1910c SOME FURTHER OBSERVATIONS ON THE SCALE INSECTS (COCCIDAE) OF THE UGANDA PROTECTORATE. Bul. Ent. Res. 1: 185-199, illus.
Descriptive and collection notes on 20 coccids, including 8 described as new.

NEWSTEAD, R.—Continued.

- 1911 OBSERVATIONS ON AFRICAN SCALE INSECTS (COCCIDAE). (NO. 3). Bul. Ent. Res. 2: 85-104, illus.
Descriptive and collection notes on 41 coccids, including 13 as new.
- 1911a ON A COLLECTION OF COCCIDAE AND ALEURODIDAE, CHIEFLY AFRICAN, IN THE COLLECTION OF THE BERLIN ZOOLOGICAL MUSEUM. Berlin Zool. Mus. Mitt. 5: 155-174, illus.
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- 1912 ON A COLLECTION OF AFRICAN COCCIDAE COLLECTED BY DR. L. SCULTZE IN SOUTH AND WEST AFRICA. Zool. Anthrop. Ergeb. West. u. Zent. Südafrika 5 (1): 15-20, illus.
Describes 8 new species, 1 new variety; notes on 2 other coccids.
- 1913 NOTES ON SCALE-INSECTS (COCCIDAE).—PART I. Bull. Ent. Res. 4: 67-81, illus.
Descriptive and collection notes on 18 coccids, including 6 described as new.
- 1914 NOTES ON SCALE-INSECTS (COCCIDAE).—PART II. Bul. Ent. Res. 4: 301-311, illus.
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- 1914a HOMOPTERA (PSYLLIDAE AND COCCIDAE) COLLECTED IN THE LAGOS DISTRICT BY W. A. LAMBORN. Ent. Soc. London Trans. 1913: 520-524 (521-524), illus.
Lecanium punctuliferum lamborni n. var.; 3 other coccids discussed; dimorphic first larvae described for *Stictococcus sjöstedti*.
- 1917 OBSERVATIONS ON SCALE-INSECTS (COCCIDAE)—III. Bul. Ent. Res. 7: 343-380, illus.
Describes 27 new species; notes on 4 other coccids.
- 1917a OBSERVATIONS ON SCALE-INSECTS (COCCIDAE)—IV. Bul. Ent. Res. 8: 1-34, illus.
Describes 24 new species, 2 new varieties; notes on 6 other coccids.
- 1917b OBSERVATIONS ON SCALE-INSECTS (COCCIDAE).—V. Bul. Ent. Res. 8: 125-134.
Identification and collection records for 72 coccids; descriptive notes on some.
- 1920 OBSERVATIONS ON SCALE-INSECTS (COCCIDAE).—VI. Bul. Ent. Res. 10: 175-207, illus.
Describes 1 new genus, 21 new species, 3 new varieties in 11 genera; notes on 5 other coccids.
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See also Draper, W.; Green, E. E., 1897; Pierce, F. N.

NEWSTEAD, R., and WILLCOCKS, F. C.

- 1910 CHARACTERS AND GENERAL MORPHOLOGY OF THE LEBBEK SCALE. Bul. Ent. Res. 1 (2, App. I): 138-140, illus.
Dactylopius perniciosus n. sp.

NICHOL, A. A., and WEHRLE, L. P.

- 1935 THE OLIVE PARLATORIA, PARLATORIA OLEAE COLVÉE, IN ARIZONA. Ariz. Agr. Expt. Sta. Tech. Bul. 56, 235 p., illus.
Pt. 1, Life history and ecology (Nicol); Pt. 2, Economic significance and control (Wehrle).

NIEMEYER, L., see Zillig, H., and Niemeyer, L.

NIETNER, J. (Neitner, J).

- 1861 OBSERVATIONS ON THE NATURAL HISTORY OF THE ENEMIES OF THE COFFEE TREE IN CEYLON. *Ceylon Times*, 31 p. (1-16). Ed. 2, 1880. Also in *Rev. et Mag. de Zool.* (ser. 2) 15 (1863): 122-133 (124-125, 132), 240-244 (242-244), 349-354 (350-354), 386-390 (386-387), 454-458. *Edinb. New Phil. Jour.* (n.s.) 15 (1862): 17-45.
Pseudococcus adonidum, *Lecanium coffeae*, *L. nigrum* [n. sp.] described and discussed.

NITOBE [I.], see Kuwana I. and Nitobe [I.]

NOEL, P.

- 1894 UN INSECTE NOUVEAU POUR LA FAUNE FRANCAISE. L'ASPIDIOTUS OSTREAE-FORMIS. *Soc. des Amis des Sci. Nat. Rouen, Bul.* 29 (1893): 67-72, illus.
Description, life history, control.

NOGUCHI, T.

- 1931 ON THE LIFE-HISTORY OF RHIZOECUS KONDONIS KUW. (In Japanese.) *Jour. Plant Protect.* [Tokyo] 18: 640-644, illus.
1932 INVESTIGATIONS ON A SCALE INSECT, PRONTASPIS YANONE (IV). (In Japanese.) *Shizuokaken Agr. Expt. Sta. Bul.* 23, 80 p. Abstract by S. Kinoshita in *Jap. Jour. Zool. Trans. and Abs.* 4(5): (72).
A detailed report on the life history.

NOVICKY, S., see Blattny, C., and Novicky, S.

O'CONNOR, B. A.

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Adds 5 species to previous lists; corrects some earlier records.

OGUMA, K.

- 1919 A NEW SCALE-INSECT, XYLOCOCCUS ALNI, ON ALDER, WITH SPECIAL REFERENCE TO ITS METAMORPHOSIS AND ANATOMY. *Hokkaido Imp. Univ., Col. Agr. Jour.* 8: 77-109, illus.
Includes description, life history.
1926 ON THE NOMENCLATURE OF THE ALDER SCALE. *Insecta Matsumurana* 1: 101-102.
Proposes *Xylococcus japonicus* as new name for *X. alni* Oguma.

OKEN, [L.]

- 1815 1. GATTUNG. COCCUS; 2. GATTUNG. CHERMES; 4. GATTUNG. LACCIFER. *In Lehrbuch der Naturgeschichte, Sect. 3 (Zool. 1)*: 425-426, 430.
Descriptive notes.

OLAFSEN, E.

- 1772 REISE IGIENNEM ISLAND—I. Soroe (p. 610-611).
Describes *Pediculus cataphracta* (i. e. *Orthezia cataphracta*).

OLIVIER, G. A.

- 1791 COCHENILLE. COCCUS. GENRE D'INSECTES DE LA PREMIÈRE SECTION DE L'ORDRE DES HÉMIPTÈRES. *In Encycl. Method., Hist. Nat. Insectes* 6: 85-100, illus. (Pl. 118-120, in separate volume).
Discusses 19 coccids under assignment to *Coccus*.
1792 KERMÈS. CHERMES. GENRE D'INSECTES DE LA PREMIÈRE SECTION DE L'ORDRE DES HÉMIPTÈRES. *In Encycl. Method., Hist. Nat. Insectes* 7: 418-442, illus. (Pl. 118-120, in separate volume).
Discusses 21 coccids under assignment to *Chermes*; presents *Chermes salicis* as an alternate to *Coccus capreae*.

OLLIFF, A. S.

- 1891 ENTOMOLOGICAL NOTE. A NEW SCALE INSECT DESTROYING SALT BUSH. *Agr. Gaz. N. S. Wales* 2: 667-669, illus.
Pulvinaria maskelli n. sp.; other coccids mentioned.
1892 ENTOMOLOGICAL NOTE. FURTHER REMARKS ON THE SALT BUSH SCALE (PULVINARIA MASKELLI, OLL.) *Agr. Gaz. N. S. Wales* 3: 176-179, illus.
Describes various stages of *P. maskelli* n. sp.

OSBORN, H.

1898 NOTES ON COCCIDAE OCCURRING IN IOWA. Iowa Acad. Sci. Proc. 5 (1897): 224-231.

Comment on 27 species or varieties; *Aspidiotus ancylus serratus* Newell and Cockerell, n. var.; *A. osborni* Newell and Cockerell, n. sp. described.

1903 A METHOD FOR MOUNTING DRY COCCIDAE FOR PERMANENT PRESERVATION. U. S. Dept. Agr., Div. Ent., Bul. (n.s.) 40: 35-36.
Suggests use of mica slips for dry mounts.

OSBORN, H. T.

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Discusses discovery and status of *Lepidosaphes destefanii* in California.

OSSIANNILSSON, F.

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Lists 33 species, 11 new to Sweden.

1954 PUTO GISLÉNI N. SP. A NEW AUSTRALIAN PSEUDOCOCCID (HEM. COCC.). Lunds Univ. Årsskr. N. F. Avd. 2, Bd. 50, No. 14 (Rpt. from Prof. Gislén's Exped. to Australia in 1951-52), illus.

OTANES, F. Q.

1936 SOME OBSERVATIONS ON TWO SCALE INSECTS INJURIOUS TO MANGO FLOWERS AND FRUITS. Philippine Jour. Agr. 7: 129-139, illus.
Includes descriptive information on *Puto spinosus*, *Coccus mangiferae*.

PALLAS, P. S.

1801 REISE DURCH VERSCHIEDENE PROVINZEN DES RUSSISCHEN REICHS. (PHYSICALISCHE REISE DURCH VERSCHIEDENE PROVINZEN DES RUSSISCHEN REICHS IM 1768 AND 1769 STEN JAHRE.) Pt. 1 (2nd printing). St. Petersburg, Kaiserliche Acad. der Wiss., 504 p. (21, 205). Horn (p. 909) and Fernald (p. 326) indicate that first printing was issued in 1771.

Coccus hyperici.

PALMER, M. A.

1905 ON THE DORSAL GLANDS AS CHARACTERS OF CONSTANT SPECIFIC VALUE IN THE COCCID GENUS PARLATORIA. Kans. Univ. Sci. Bul. 13: 131-146, illus.

PAOLI, G.

1915 CONTRIBUTO ALLA CONOSCENZE DELLA COCCINIGLIE DELLA SARDEGNA. Redia 11 (1916): 239-268, illus.

Reports 31 coccids, including *Micrococcus oviformis* and *Lecanium ficinum*, n. spp.

See also Berlese, A., and Paoli, G.

PARR, T.

1937 NOTES ON THE GOLDEN OR PIT-MAKING OAK SCALE. Jour. Forestry 35: 51-58.

Life history, plant damage, parasites.

1939 MATSUCOCCUS SP., A SCALE INSECT INJURIOUS TO CERTAIN PINES IN THE NORTHEAST (HEMIPTERA-HOMOPTERA). Jour. Econ. Ent. 32: 624-630, illus.

[*M. gallicola*]—distribution, description, biology.

1940 ASTEROLECANIUM VARIOLOSUM RATZEBURG, A GALL-FORMING COCCID, AND ITS EFFECT UPON THE HOST TREES. Yale Univ., School Forestry Bul. 46, 49 p., illus.

Descriptive and physiological information.

PARROTT, P. J.

1899 ASPIDIOTUS FERNALDI (CKLL.) SUB-SP., COCKERELLI, SUB-SP. NOV. Canad. Ent. 31: 10-11, illus.

PARROTT, P. J.—Continued.

1899a ASPIDIOTUS (TARGIONIA) HELIANTHI, SP. NOV. *Canad. Ent.* 31: 176, illus.

1899b NEW COCCIDS FROM KANSAS. *Canad. Ent.* 31: 280-282, illus.

Antonina nortoni Parrott and Ckll., *Aspidiotus (Targionia) marlatti* n. spp.

1900 STUDIES OF GRASS COCCIDS, WITH DESCRIPTION OF NEW SPECIES. *In* Popenoe, E. A., and Parrott, P. J., *Kans. Agr. Expt. Sta. Bul.* 98: 137-146, illus.

Discusses and keys 2 genera and 11 species, including *Antonina boutelouae*, *A. graminis* [=parrotti], *Gymnococcus nativus*, *Eriococcus kemptoni*, *Pseudolecanium obscurum*, n. spp.

See also Cockerell, T. D. A., and Parrott, P. J.; Popenoe, E. A., and Parrott, P. J.

PATCH, E. M.

1905 THE COTTONY GRASS SCALE. ERIOPELTIS FESTUCAE (FONSC.) *Maine Agr. Expt. Sta. Bul.* 121: 169-180, illus.

Descriptions, life history, catalog of references.

1909 HOMOLOGIES OF WING VEINS OF APHIDIDAE, PSYLLIDAE, ALEURODIDAE, AND COCCIDAE. *Ent. Soc. Amer. Ann.* 2: 101-135 (122-123), illus.

Pseudococcus citri and *Dactylopius* sp. included in discussion.

1920 THE LIFE CYCLE OF APHIDS AND COCCIDS. *Ent. Soc. Amer. Ann.* 13: 156-157 (162-167), illus.

General discussion includes *Xylococcus betulae* and *Aspidiotus perniciosus*.

PATTERSON, R. W.

1901 NOTES ON CEROCOCCUS. *Calif. Acad. Sci. Proc. (ser. 3, Zool.)* 2: 387-398, illus.

Descriptive information on *Cerococcus ehrhorni*, *C. quercus*, *C. corticis*.

PEGAZZANO, F.

1948 RICERCHE BIOLOGICHE SULLA COCCINIGLIA S. JOSÉ COMSTOCKASPIS (=ASPIDIOTUS) PERNICIOSA COMST. *Ann. della Facolta di Agr. [Pisa]* (n.s.) 9: 178-188.

Observations made in Italy from 1946 to 1948.

1951 CONTRIBUTO ALLA CONOSCENZA MORFO-BIOLOGICA DEL MYTILOCOCCUS DESTEFANII LEON. (HEMIPTERA, COCCIDAE, DIASPINAE). *Redia* (ser. 2) 36: 291-299, illus.

Notes on variation in morphology and on life history.

1953 CONTRIBUTO ALLA CONOSCENZA DELLA PSEUDAONIDIA PAEONIAE COCKLL. (HEMIPTERA, COCCIDAE, DIASPINAE). *Redia* 38: 281-315, illus.

Extended description and report on biology.

PENG, PENG

1935 BIOLOGY OF ICERYA PURCHASI MASK. IN HWANGYEN. (HOMOPTERA, COCCIDAE). (In Chinese.) *Chekiang Prov. Bur. Ent.* 1934 Year Book 4: 189-203.

Includes descriptive information. English abstract.

PÉREZ CANTO, C.

1896 SOBRE LA EMBRIOLOJÍA DEL MARGARODES VITIUM, GIARD. *Soc. Sci. du Chili [Santiago] Actes* 6: 14-20, illus.

Description of egg development.

PERGANDE, T.

1898 THE PEACH LECANIUM. (LECANIUM NIGROFASCIATUM N. SP.) *In* U. S. Dept. Agr. Div. Ent. Bul. (n.s.) 18: 26-29, illus.

PERGANDE, T., and COCKERELL, T. D. A.

1900 LIST OF COCCIDAE COLLECTED BY MR. A. BUSCK IN PUERTO RICO, 1899. *In* Busck, A., Notes on a brief trip to Puerto Rico in January and February, 1899, U. S. Dept. Agr. Div. Ent. Bul. (n.s.) 22: 92-93.

Lists 23 species with hosts and localities.

PERINGUEY, L.

1893 NOTE ON A SUPPOSED NEW ICERYA. So. African Phil. Soc. Trans. 8 (1890-1895): 50-51.

I. mesembryanthemi [presumably a *Pulvinaria*.]

PERROUD, B.-P., and MONTROUSIER, R. P.

1864 ESSAI SUR LA FAUNE ENTOMOLOGIQUE DE KANALA (NOUVELLE-CALÉDONIE) ET DESCRIPTION DE QUELQUES ESPÈCES NOUVELLES OU PEU CONNUES. Soc. Linn. de Lyon, Ann. (n.s.) 11: 46-257 (246-247).

Tessarobelus guerini Montrousier n. gen. and sp.

PESSON, P.

1934 CONTRIBUTION A L'ÉTUDE DU TUBE DIGESTIF DES COCCIDES. I. PSEUDOCOCCINES. Soc. Zool. de France 58 (1933): 404-422, illus.

Digestive tube of *Pseudococcus adonidum* described.

1935 CONTRIBUTION A L'ÉTUDE DU TUBE DIGESTIF DES COCCIDES. II. LECANINES. Bul. Biol. de la France et Belg. 69: 137-152.

Detailed description of anatomy and histology for *Pulvinaria mesembryanthemi* and *Coccus hesperidum*.

1936 CONTRIBUTION A L'ÉTUDE DU TUBE DIGESTIF DES COCCIDES. III. MONOPHLÉBINES: ICERYA PURCHASI MASK. Soc. Zool. de France Bul. 61: 282-293, illus.

Anatomical and histological description.

1939 UNE GLANDE EXSERTILE VENTRALE CHEZ LES COCCIDES. Soc. Zool. de France Bul. 64: 144-151, illus.

Description of anatomy and histology of the circulus in *Pseudococcus* and *Icerya purchasi*.

1939a OSTIOLES ET AUTOHEMORRHEE CHEZ LES COCCIDES. Soc. Zool. de France, Bul. 64: 152-159, illus.

Description of anatomy and histology of dorsal ostioles of Pseudococcinae.

1941 DESCRIPTION DU MALE DE PULVINARIA MESEMBRYANTHEMI VALLOT ET OBSERVATIONS BIOLOGIQUES SUR CETTE ESPÈCE. (HEMIPT. COCCIDAE). Soc. Ent. de France Ann. 110: 71-77, illus.

1942 CONTRIBUTION A L'ÉTUDE DU TUBE DIGESTIF DES COCCIDES. IV. DIASPINES. Soc. Zool. de France Bul. 66 (1941): 230-238, illus.

Description based on 3 diaspine coccids.

1942a SUR LA PRÉSENCE DE CELLULES A ASPECT SÉCRÉTEUR DANS LE PROTOCEREBRUM DES FEMELLES DE COCCIDES. Soc. Zool. de France Bul. 67: 56-58, illus.

1944 CONTRIBUTION À L'ÉTUDE MORPHOLOGIQUE ET FONCTIONNELLE DE LA TÊTE, DE L'APPAREIL BUCCAL ET DU TUBE DIGESTIF DES FEMELLES DE COCCIDES. Impr. Natl., Paris. 226 p. Thesis (Doctor of Nat. Sci.), Univ. of Paris.

An extensive and apparently critical study.

1945 AGRÉGATIONS DE FEMELLES HIVERNANTES D'ORTHEZIA URTICAE L. (HEM. COCCOIDEA) SOUS LA DÉPENDANCE DES RÉACTIONS THIGMOTACTIQUES DANS DES CONDITIONS EXPÉRIMENTALES. Soc. Ent. de France Bul. 50: 60-67, illus.

See also Poisson, R., and Pesson, P.

PETTEY, F. W., and MARAIS, S. J. S.

1950 THE COCHINEAL (DACTYLOPIUS OPUNTIAE) AND THE PROBLEM OF ITS CONTROL IN SPINELESS CACTUS PLANTATIONS. Union So. Africa Dept. Agr. Ent. Ser. 26, 34 p., illus.

Pt. 1.—Its history, distribution, biology, and what it has accomplished in the control of Prickly pear in South Africa (F. W. Pettey); Pt. 2.—The control of cochineal in spineless cactus plantations. (F. W. Pettey and S. J. S. Marais.)

PETTIT, R. H.

- 1899 THE CLOVER-ROOT MEALY BUG. *DACTYLOPIUS TRIFOLII* FORBES. *Canad. Ent.* 31: 279-280, illus.
Descriptive notes.
- 1900 SOME INSECTS OF THE YEAR 1899. *Mich. Agr. Expt. Sta. (Ent. Dept.)* Bul. 180, 141 p. (120-124), illus.
Description of *Aspidiotus ostreaeformis*.

PETTIT, R. H., and MCDANIEL, E.

- 1920 THE LECANIA OF MICHIGAN. *Mich. Agr. Expt. Sta. Tech. Bul.* 48, 35 p., illus.
Lecanium numismaticum n. sp.; *L. corrugatum neglectum* n. var.;
redescriptions of 12 common lecanine coccids.

PFLUGFELDER, O.

- 1936 BAU UND MORPHOLOGISCHE BEDEUTUNG DER SOG. OCELLEN DER SCHILDLAUS-MÄNNCHEN (*LECANIUM CORNI* MARCH). *Zool. Anz.* 114: 49-55, illus.
- 1939 COCCINA. In Bronns, H. G., *Klassen und Ordnungen des Tierreichs*, v. 5, abt. 3, buch 8, teil b., 121 p.
General discussion, including development, morphology, biology and ecology, control, outline of classification.

PHILIPPI, F.

- 1884 HETERODERA VITIS F. PHIL. *Bol. Soc. Nac. Agric. [Chile]* 15: 226. (Not seen; said to be inaccurate description.) (Quoted from C. E. Porter, *Soc. Ent. Argentina Bol.* 3: 1-8, 1927.)

PICARD, F., and BALACHOWSKY, A.

- 1939 A PROPOS DES PORPHYROPHORA BRANDT, NUISIBLES AUX CÉRÉALES DANS LE BASSIN MÉDITERRANÉEN. *Soc. Ent. de France Bul.* 44: 118-120.
Place *P. parieli* and *P. bolivari* as synonyms of *P. polonica*.

PICKEL, D. B.

- 1927 RHIZOECUS LENDEA N. SP. PARASITA RADICULAR DO CAFEIEIRO EM PARAHYBA E PERNAMBUCO. Recife, *Imprensa Industrial* 37 p., illus.
Discusses four additional coccids as pests of coffee.
- 1927a OS PARASITOS DO CAFEIEIRO NO ESTADO DA PARAHYBA. UM NOVO PARASITO DO CAFEIEIRO, O PIOLHO BRANCO RHIZOECUS LENDEA N. SP. *Chacaras e Quintaes* 36: 587-593, illus.
Discusses 6 other coccids.

PIERANTONI, U.

- 1910 L'ORIGINE DI ALCUNI ORGANI D'ICERYA PURCHASI E LA SIMBIOSI EREDITARIA. *Soc. di Nat. Napoli Bol.* 23 (1909): 147-150.
- 1910a LA SIMBIOSI EREDITARIA E LA BIOLOGIA SESSUALE D'ICERYA. *Monitore Zool. Ital.* 21: 294-296.
- 1911 ORIGINE E STRUTTURA DEL CORPO OVALE DEL *DACTYLOPIUS CITRI* E DEL CORPO VERDE DELL' *APHIS BRASSICAE*. *Soc. di Nat. Napoli Bol.* 24 (1910): 1-4. Also in *Soc. Ent.* 25 (16): 61-62. 1910. (In German.)
- 1911a SUL CORPO DEL *DACTYLOPIUS*. *NOTA*. *Soc. Nat. Napoli Bol.* 24 (1910): 303-304.
- 1911b SULL'ERMAFRODITISMO LARVALE D'ICERYA PURCHASI. *Soc. Nat. Napoli Bol.* 24 (1910): 379-380. Also in *Ztschr. f. Wiss. Insektenbiol.* 7 (1911): 322-323.
- 1912 STUDIUM SULLO SVILUPPO D'ICERYA PURCHASI MASK. PARTE I. ORIGINE ED EVOLUZIONE DEGLI ELEMENTI SESSUALI FEMMINILI. *Arch. Zool. Ital.* 5: 321-400, illus. (Col.).
- 1913 STRUTTURA ED EVOLUZIONE DELL'ORGANO SIMBIOTICO DI *PSEUDOCOCCUS CITRI* RISSO, E CICLO BIOLOGICO DEL *COCCIDOMYCES DACTYLOPII* BUCHNER. *Arch. f. Protistenk.* 31: 300-314, illus.

PIERANTONI, U.—Continued.

1914 STUDIUM SULLO SVILUPPO D'ICERYA PURCHASI MASK. PARTE II. ORIGINE ED EVOLUZIONE DEGLI ORGANI SESSUALI MASCHILI.—ERMAFRODITISMO. PARTE III. OSSERVAZIONI DI EMBRIOLOGIA. Arch. Zool. Ital. 7: 27-46, 243-274, illus.

1936 GLI STUDIUM SULLA ENDOSIMBIOSI EREDITARIA NELLE ORIGINI E NEI PIÙ RECENTI SVILUPPI. Arch. Zool. Ital., Sup., Attual. Zool. 2: 137-195, illus.

Brief summaries in French, English, and German; 6 coccids mentioned.

PIERCE, F. N., sec.

1891 [EXHIBITION OF COCCIDS.] Ent. Monthly Mag. 2: 334.

Report on exhibition, including 6 named new species by R. Newstead.

PIERRE, L'ABBÉ

1928 DEUXIÈME CONTRIBUTION A L'ÉTUDE DES COCCIDES DU DÉPARTEMENT DE L'ALLIER. Rev. Sci. du Bourbonnais, No. 1, p. 3-8.

List of 30 coccids with collection data.

PILTZ, H.

1952 (HOM. COCC.) BEITRAG ZUR KENNTNIS DER COCCIDENFAUNA VON HAMBURG. Bombus No. 70/71: 303-304.

Lists 11 species with brief notes.

PIZA, M. T., see Lepage, H. S., and Piza, M. T.

PLANCHON, G.

1864 LE KERMÈS DU CHÊNE AUX POINTS DE VUE ZOOLOGIQUE, COMMERCIAL & PHARMACEUTIQUE. Montpellier, 47 p. Thesis [Pharmacist, 1st class] Ecole Super. de Pharmacie de Montpellier.

Proposes and describes as new *Chermes* [*Kermes*] *vermilio*, *C. emerici*, *C. bauhini*, *Coccus gramuntii*, *C. pulvinatus*; mentions *Coccus baphica*.

PLANK, H. K., see Cressman, A. W., and Plank, H. K.

PLUMB, G. H.

1950 A NEW AND SERIOUS INSECT PEST OF RED PINE. Conn. Agr. Expt. Sta. Spec. Cir. (Feb.), 4 p., illus.

Matsucoccus, unidentified sp. [*resinosae* Bean and Godwin, 1955.]

PODTIAGUIN, B.

1941 NOTULAE ENTOMOLOGICAE 2.—UNA NUEVA ESPECIE DEL GENERO MARGARODES GUILD., HALLADA EN EL CHACO PARAGUAYO. Soc. Cient. del. Paraguay Rev. 5 (3): 59-64. Also in Rev. de Agr., Com e Indus. (Asuncion) 2 (7): 40-44.

M. gimenezi n. sp.; *M. vitium* discussed.

POISSON, R., and PESSON, P.

1938 L'APPAREIL CIRCULATOIRE D'ICERYA PURCHASI MASK. (COCCIDAE MONOPHLEBINAE). Soc. Zool. de France Bul. 62: 431-435, illus.

Description of heart.

1939 CONTRIBUTION L'ÉTUDE DU SANG DES COCCIDES (HÉMIPTÈRES HOMOPTÈRES STERNORHYNCHA). LE SANG DE PULVINARIA MESEMBRYANTHEMI VALLOT. Arch. de Zool. Expt. et Gén. (Notes et Revue No. 1) 81: 23-32, illus.

Description of the various elements found in the blood.

POLEJAEFF, W., see Smirnov, E., and Polejaeff, W.

POLLISTER, P. F.

1937 THE STRUCTURE AND DEVELOPMENT OF WAX GLANDS OF PSEUDOCOCCUS MARITIMUS (HOMOPTERA, COCCIDAE). Quart. Jour. Micros. Sci. 80: 127-152, illus.

A detailed study of the histology and development of 3 types of multicellular glands.

POPENOE, E. A., and PARROTT, P. J.

1900 SCALE-INSECTS UPON KANSAS GRASSES. Kans. Agr. Expt. Sta. Bul. 98: 133-137, illus.

List of 12 U. S. grass coccids; list of 8 Kansas grass coccids, with host plants; tabular characterization of 4 genera and 1 species of grass coccids.

POPOFF, N., *see* Bugnion, E., and Popoff, N.

PORTER, C. E.

1912 NOTAS PARA LA ZOOLOGIA ECONOMICA DE CHILE. III. ADICIONES A LA LISTA DE LOS CÓCCIDOS. From separate marked "Publicada en la Rev. Chilena de Hist. Nat. 16: 22-23." [Library records indicate that v. 16 was never published.]

Adds 16 coccids to those previously reported.

1913 DOS COCCIDOS NUEVOS PARA CHILE. Mus. Nac. de Chile Bol. 5: 363-364.

Also reported in Rev. Chilena de Hist. Nat. 17: 256, under title "Nuevos coccidos chilenos." (Sci. note).

Asterolecanium variolosum and *Dinaspis* sp. [to be described by Lindinger.]

1913a MATERIALES PARA LA ENTOMOLOGIA ECONÓMICA DE CHILE. [I-IV.] Soc. Sci. du Chile, Actes 23: 6-20, illus. Also in An. de Zool, Aplicada 1 (1): 65-79, 1914.

Synonymical catalog and notes for *Pseudococcus*, *P. citri*, *P. adonidum*, *P. vitis*, and *Asterolecanium variolosum*; *Dinaspis* n. sp. reported from *Maytenus boaria*.

1916 MATERIALES PARA LA ENTOMOLOGÍA ECONÓMICA DE CHILE. VI.—EL GÉNERO ICERYA SIGN. An. de Zool. Aplicada 3: 51-54.

Descriptive notes on *Icerya palmeri*.

1920 DESCRIPCION DE UN NUEVO CÓCCIDO CHILENO. An de Zool. Aplicada 7 (1/2): 33-34, illus.

Lepidosaphes espinosai.

1927 EL MARGARODES VITIUM, GIARD. NOTAS SINONÍMICAS, ZOOGEOGRÁFICAS Y BIBLIOGRÁFICAS. Soc. Ent. Argentina Bol. 1 (año 3) (3): 1-8, illus. Also in Rev. Chilena de Hist. Nat. 39 (1935): 323-335, illus., with minor changes or additions.

Complete bibliography with abstracts of papers relating to occurrence in Chile.

PRABHAKER RAO, V., *see* Rao, V. P.

PREBBLE, M. L., *see* Graham, K., and Prebble, M. L.

PRIESNER, H.

1931 ON THE BIOLOGY OF CHRYSOMPHALUS FICUS RIL. (HEM., COCC.) WITH SUGGESTIONS ON THE CONTROL OF THIS SPECIES IN EGYPT. Egypt. Min. Agr., Tech. and Sci. Serv., Bul. 117, 19 p.

Life history, host list, damage, control.

PRIESNER, H., and HOSNY, M.

1932 THE "MASKED SCALE" (CHRYSOMPHALUS PERSONATUS), IN EGYPT. Soc. Roy. Ent. d'Egypte, Bul. (n.s.) 16: 92-96, illus. (col.).

Redescription and host list.

1935 BRIEF DESCRIPTIONS OF TWO NEW MEALY BUGS. Soc. Roy. Ent. d'Egypte Bul. 28: 112-115, illus.

Phenacoccus limoniastri, *Ripersia salsolicola*.

PRITCHARD, A. E., and BEER, R. E.

1950 BIOLOGY AND CONTROL OF ASTEROLECANIUM SCALES ON OAKS IN CALIFORNIA. Jour. Econ. Ent. 43: 494-497.

Involves 3 species.

PROBST, R.

1914 ORTHEZIA CATAPHRACTA SHAW. Naturf. Gesell. in Bern, Mitt. 1913: 192-196, illus.

Description of adult male.

PRUTHI, H. S.

- 1925 THE MORPHOLOGY OF THE MALE GENITALIA IN RHYNCHOTA. Ent. Soc. London, Trans. 1925: 127-267 (234-235, 253, 266), illus.
Genitalia of *Monophlebus stebbingi* described; remarks on relation to other Homoptera.

PRUTHI, H. S., and RAO, V. P.

- 1951 SAN JOSE SCALE IN INDIA. Indian Council Agr. Res. Bul. 71, 48 p.
Reprinted in India, Dept. Agr., Dir. Plant Protect. Quar. and Storage, Tech. Pub. 3, 48 p.
Indian distribution, hosts, biology, control.

PUTNAM, J. D.

- 1878 REPORT ON MAPLE BARK LOUSE. Iowa State Hort. Soc. Ann. Rpt. 12 (1877): 317-324 (321).
Includes description of *Diaspis ancylus* Putn. [n. sp.]
- 1880 BIOLOGICAL AND OTHER NOTES ON COCCIDAE. Davenport Acad. Sci. Proc. 2 (1879-1880): 293-347, illus. (p. 293-332 dated Dec. 1879, p. 333-347 dated Jan. 1880).
Full account of *Pulvinaria innumerabilis* life history, description, embryology, distribution, control, etc.; description and life history notes on *Aspidiotus ancylus*.

PUTTARUDRIAH, M., and CHANNABASAVANNA, G. P.

- 1953 OCCURRENCE OF COCCUS VIRIDIS (GREEN) AND COCCUS VIRIDIS COLEMANI KANNAN, IN SOUTH INDIA. Indian Coffee 17: 248-253, illus.
Descriptive and biological notes on both species.

QUAINTANCE, A. L., see Cockerell, T. D. A. 1897k, 1897v; Cockerell, T. D. A., and Quaintance, A. L.

QUANJER, H. M.

- 1909 DE PERZIKDOLPLUS EN HARE BESTRIJDING. [PEACH LECANIUM AND ITS CONTROL.] Tijdschr. over Plantenziekten 15: 100-127, illus.
Includes descriptive information, hosts, enemies, control.

QUAYLE, H. J.

- 1911 LOCOMOTION OF CERTAIN YOUNG SCALE INSECTS. Jour. Econ. Ent. 4: 301-306.
Report on tests with larvae of black, red, and purple scales.
- 1911a THE RED OR ORANGE SCALE. CHRYSOMPHALUS AURANTII MASK. Calif. Agr. Expt. Sta. Bul. 222; 99-150, illus.
Food plants, description, life and seasonal history, enemies.
- 1912 THE PURPLE SCALE. LEPIDOSAPHES BECKII NEWM. Calif. Agr. Expt. Sta. Bul. 226: 319-340, illus.
Food plants, description, life history, enemies.
- 1915 THE CITRICOLA SCALE. Calif. Agr. Expt. Sta. Bul. 255: 405-421.
Description, life history, California distribution, control.
- 1916 DISPERSION OF SCALE INSECTS BY THE WIND. Jour. Econ. Ent. 9: 486-492, illus.
Wind dispersion of *Saissetia oleae* and *Chrysomphalus aurantii* proved experimentally.
- 1917 SOME COMPARISONS OF COCCUS CITRICOLA AND C. HESPERIDUM. Jour. Econ. Ent. 10: 373-376.
Notes differences in morphology, host relations, and parasites.
- 1938 THE DEVELOPMENT OF RESISTANCE TO HYDROCYANIC ACID IN CERTAIN SCALE INSECTS. Hilgardia 11: 183-210, illus.
- 1942 A PHYSIOLOGICAL DIFFERENCE IN THE TWO RACES OF RED SCALE AND ITS RELATION TO TOLERANCE TO HCN. Jour. Econ. Ent. 35: 813-816.
Describes fumigation experiments.

QUAYLE, H. J., and RUST, E. W.

- 1911 THE BLACK SCALE. SAISSETIA OLEAE BERN. Calif. Agr. Expt. Sta. Bul. 223: 151-200, illus.
Food plants, description, life history, enemies, related species (5) etc.

RABKIN, F. B., and LEJEUNE, R. R.

1955 SOME ASPECTS OF THE BIOLOGY AND DISPERSAL OF THE PINE TORTOISE SCALE, *TOUMEYELLA NUMISMATICUM* (PETTIT & MCDANIEL) (HOMOPTERA-COCCIDAE). *Canad. Ent.* 86 (Dec. 1954): 570-575, illus.

RAHMAN, K. A., and ANSARI, A. R.

1941 SCALE INSECTS OF THE PUNJAB AND NORTH-WEST FRONTIER PROVINCE USUALLY MISTAKEN FOR SAN JOSÉ SCALE (WITH DESCRIPTIONS OF TWO NEW SPECIES). *Indian Jour. Agr. Sci.* 11: 816-830, illus.

Aonidia zizyphi, *Lapazia peshawarensis* n. spp.; 8 other coccids discussed; key and collection data for 10 coccids.

RAHMAN, K. A., and LATIF, A.

1944 DESCRIPTION, BIONOMICS AND CONTROL OF THE GIANT MEALYBUG, *DROSICHA STEBBINGI*, GREEN (HOMOPTERA: COCCIDAE). *Bul. Ent. Res.* 35: 197-209, illus.

1944a BIOLOGY AND DESCRIPTION OF VARIOUS STAGES OF *DROSICHIELLA TAMARINDUS* (GR.) (COCCIDAE: HOMOPTERA). *Indian Jour. Ent.* 6: 79-86, illus.

RAMACHANDRA RAO, Y.

1922 THE PESTS OF THE DATE PALM IN THE IRAQ. *Mesopotamia Dept. Agr. Mem.* 6 (1921): 1-12, (10-11), illus.

Briefly discusses 3 coccids, including short description of *Asterolecanium phoenicis* [Green ms.]

RAMACHANDRAN, S., and RAMAKRISHNA AYYAR, T. V.

1934 HOST PLANT INDEX OF INDO-CEYLONESE COCCIDAE. *India Imp. Council Agr. Res. Misc. Bul.* 4, 113 p.

Includes numerous new host-coccid records as well as those previously published.

RAMAKRISHNA AYYAR, T. V.

1919 SOME SOUTH INDIAN COCCIDS OF ECONOMIC IMPORTANCE. *Bombay Nat. Hist. Soc. Jour.* 26: 621-628, illus.

Notes on 33 coccids including *Anomalococcus indicus* "sp. new Green."

1919a A CONTRIBUTION TO OUR KNOWLEDGE OF SOUTH INDIAN COCCIDAE. *Pusa Agr. Res. Inst. Bul.* 87, 50 p., illus.

List of 129 coccids with collection data, some descriptive and ecological notes, some illustrations; presents 17 ms. names by Green.

1919b NOTES ON NEW AND UNRECORDED SPECIES OF INDIAN COCCIDAE. *Pusa Agr. Res. Inst. Bul.* 89: 91-99.

Collection notes on 56 coccids, including 18 under ms. names; description (by Newstead) of *Phenacoccus ballardi* Green ms.

1921 SHORT NOTES ON NEW AND KNOWN INSECTS FROM SOUTH INDIA. *Ent. Mtg. (Pusa 1921) Proc.* 4: 29-40 (38-39), illus.

New South Indian records for 8 coccids, including 2 ms. names; *Pulvinaria maxima* illustrated.

1921a A CHECK LIST OF THE COCCIDAE OF THE INDIAN REGION. *Ent. Mtg. (Pusa 1921) Proc.* 4: 336-362.

List of 369 coccids, at least 8 manuscript names, with citation, host and locality data for each.

1924 A FURTHER CONTRIBUTION TO OUR KNOWLEDGE OF SOUTH INDIAN COCCIDAE. *Ent. Mtg. (Pusa 1923) Proc.* 5: 339-344.

List of 91 coccids, including 22 Green manuscripts nomina nuda, with host and locality data.

1925 THE NIM MEALY SCALE (*PULVINARIA MAXIMA* GREEN). *India Dept. Agr. Mem., Ent. Ser.* 8 (12): 127-155, illus. (col.).

Damage, description, distribution, hosts, life history, enemies, control.

1926 RECENT ADDITIONS TO THE INDO-CEYLONESE COCCID FAUNA, WITH NOTES ON KNOWN AND NEW FORMS. *Bombay Nat. Hist. Soc. Jour.* 31: 450-457.

List includes 162 coccids, 26 as Green manuscript names.

RAMAKRISHNA AYYAR, T. V.—Continued.

1930 A CONTRIBUTION TO OUR KNOWLEDGE OF SOUTH INDIAN COCCIDAE (SCALES AND MEALY-BUGS). Agr. Res. Inst. Pusa, Bul. 197 (1929), 73 p., illus. (col.). (Replaces Bul. 87.)

Author discusses 185 species, including 38 as new.

1936 RECENT RECORDS OF SOUTH INDIAN COCCIDAE. (Abs.) Indian Sci. Cong. (Indore, 1936) Proc 23: 351.

Notes 6 new species and 2 new records for region.

1936a NOTES ON COCCIDAE (HOMOPTERA, RHYNCHOTA) FROM SOUTH INDIA. Bombay Nat. Hist. Soc. Jour. 39 (1937): 146-148.

South Indian distribution and hosts listed for 28 coccids, including 4 Green manuscript new species.

See also Chatterjee, N. C. and Ramakrishna Ayyar, T. V.; Ramachandran, S., and Ramakrishna Ayyar, T. V.

RAO, S. R.

1940 WHAT IS THE CORRECT TAXONOMIC STATUS OF MONOPHLEBUS QUADRI-CAUDATUS GREEN. (Abs.) Indian Sci. Cong. (1939), Proc. 26., Pt. 3, p. 143.

Suggests transfer to *Drosichiella*.

1940a ON THE DIFFERENTIATION OF SEX IN THE FIRST STAGE LARVA OF DROSI-CHIELLA (MONOPHLEBUS) QUADRICAUDATUS. (Abs.) Indian Sci. Cong. (1939), Proc. 26, Pt. 3, p. 145-146.

Late male larvae red, female yellow.

1942 LIFE-HISTORY AND BIONOMICS OF PSEUDOCOCCUS SACCHARICOLA TAKH. (HOMOP.-COCCIDAE)—A NEW PEST OF SUGARCANE IN INDIA. Indian Acad. Sci. Proc., Sect. B, 16: 79-86, illus.

Descriptions of various stages, life history notes, enemies.

1942a ON THE ORIGIN AND THE DEVELOPMENT OF THE SYMBIOTIC ORGAN OR "MYCETOM" IN THE FEMALE OF MONOPHLEBUS QUADRICAUDATUS (HOMOPTERA-COCCIDAE). (Abs.) Indian Sci. Cong. (Benares, 1941) Proc. 28, Pt. 3, p. 206.

1943 A NOTE ON THE DISCOVERY OF APTEROUS MALES IN THE PINK MEALY-BUG OF SUGAR CANE, TRIONYMUS SACCHARI CKLL. (COCCODAE HOMOP-TERA). Current Sci. [India] 12: 208, illus.

Description.

RAO, V. P.

1939 THREE NEW COCCIDS FROM BALUCHISTAN. Indian Jour. Ent. 1: 59-63, illus.

Eriochiton amygdalae, *Pulvinaria loralaiensis*, *Lepidosaphes baluchistanensis*.

1941 PARLATORIA PSEUDOPYRI KUWANA—A SYNONYM OF P. OLEAE OR P. CINEREA HADDEN? Indian Jour. Ent. 3: 341.

1949 THE GENUS UNASPIS MACGILLIVRAY (HOMOPTERA: COCCOIDEA: DIASPIDAE). Microentomology 14: 59-72, illus.

A systematic review with key and descriptive notes for 8 species.

1950 A NEW SPECIES OF MEALYBUG FROM INDIA. Indian Jour. Ent. 9 (June 1947): 15-18, illus.

Paraputo taraktogeni.

1950a THE STATUS OF THE GENUS PERISSOPNEUMON NEWSTEAD AND DESCRIPTION OF THE NEW GENUS MISRACOCCUS (HEMIPTERA: COCCIDAE).

Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 19: 114-120, illus. *Misracoccus assamensis* n. gen. and sp.; descriptive notes, generic reassignment, synonymy for several monophlebine coccids.

1951 ICERYINE SCALE INSECTS RECORDED FROM THE ORIENT. Indian Jour. Ent. 12 (June 1950): 39-66, illus. (Cont.)

Morphological discussion, list of species, detailed descriptions of 3 known, 3 new *Icerya* species.

RAO, V. P.—Continued.

1951a ICERYINE SCALE INSECTS RECORDED FROM THE ORIENT—II. *Indian Jour. Ent.* 12 (Dec. 1950): 127-158, illus.

Detailed descriptions of 5 known, 2 new *Icerya*, 2 known, 3 new *Crypticerya*, 1 new *Steatococcus*; key to 3 genera and 18 species.

1951b SYNONYMY OF SEMELASPIDUS ARTOCARPI (GREEN). *Ent. Soc. Wash. Proc.* 53: 261-262.

Places *A. cistuloides* Green and *A. triglandulosus* as synonyms.

1952 ON THE LIFE-HISTORY AND BIOLOGY OF THE INDIAN NEM MEALY SCALE INSECT, PULVINARIA MAXIMA (GREEN). *Banaras [India] Hindu Univ., Jour. Sci. Res.* 2 (1951-52): 171-188, illus. (col.).

Stages described.

1953 SOME NEW DIASPINE SCALE INSECTS FROM INDIA. *Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy* 22 (3/4): 61-68, illus.

Describes 6 new species and 1 new genus (*Ramachandraspis*).

See also Ferris, G. F., and Rao, V. P.; Misra, A. B., and Rao, V. P.; Pruthi, H. S. and Rao, V. P.

RAO, V. P., and CHATTERJEE, S. N.

1950 THE SAN JOSÉ SCALE AND OTHER SCALE INSECTS USUALLY MISTAKEN THEREFOR IN INDIA. *Indian Jour. Ent.* 10 (June 1948): 5-29, illus.

A taxonomic study, with key, of 10 coccids.

RAO, V. P., and FERRIS, G. F.

1952 THE GENUS ANDASPIS MACGILLIVRAY (INSECTA: HOMOPTERA: COCCOIDEA). (*Contrib. No. 77*). *Microentomology* 17: 17-32, illus.

A systematic review with key and descriptions for 10 species, 5 new.

RAO, V. P., and KUMAR, H. K.

1952 LITTLE KNOWN OR HITHERTO UNRECORDED SPECIES OF COCCIDS FROM THE INDIAN REGION. *Indian Jour. Ent.* 14: 1-10, illus.

Collection records for 20 coccids, redescriptive information for 3 of these.

RASINIA, B. P.

1955 MATERIAL ON THE COCCOIDEA (HOMOPTERA) FAUNA OF THE LATVIAN SSR. (In Latvian.) (*Riga*) *Akad. Nauk. Latviiskoi SSR, Izvest* 5 (94): 67-75.

Russian summary. List of 47 coccids with collection data. *Eriopeltis rasinae* Borchs, ms.

RATZEBURG, J. T. C.

1843 BERICHT ÜBER EINIGE NEUE, DEN WALDBÄUMEN SCHÄDLICHE RHYNCHOTEN. [*Stettin*] *Ent. Ztg.* 4: 201-204, illus.

Coccus racemosus n. sp. [now considered to be *Physokermes piceae*].

1870 EICHEN BESCHÄDIGUNG DURCH SCHILDLÄUSE (COCCUS). *Tharander Forstl. Jahrb.* 20: 187-194, illus.

Coccus variolosus, *C. conchatus* described and illustrated.

RAU, G. J.

1937 TWO APPARENTLY UNDESCRIBED MEALYBUGS (HEMIPTERA PSEUDOCOCCIDAE) FROM NEW YORK STATE. *Brooklyn Ent. Soc. Bul.* (n.s.) 32: 195-201, illus.

Pseudococcus cuspidatae, *Phenacoccus saratogensis*.

1938 FOUR MORE NEW SPECIES OF MEALYBUGS FROM NEW YORK STATE. (HEMIPTERA: KERMIDAE AND PSEUDOCOCCIDAE.) *Canad. Ent.* 70: 157-165, illus.

Hypogeococcus barbarae n. gen. and sp., *Eriococcus saratogensis*, *Pseudococcus patulae*, *Trionymus geraniae*.

1942 THE CANADIAN APPLE MEALYBUG, PHENACOCCLUS ACERIS SIGNORET, AND ITS ALLIES IN NORTHEASTERN AMERICA. *Canad. Ent.* 74: 118-125.

Detailed redescription; key to 8 northeastern *Phenacoccus*.

REALI, G.

- 1954 STUDIO MORFOLOGICO SU DIASPIS CALYPTROIDES COSTA. Bol. di Zool. Agr. e Bachicoltura, Univ. Milano, 20: 27-49, illus. Also published in Ann. del Facolta di Agr. (n.s.) 4: 31-53, illus.
A detailed description of the different stages.

REDAELLI, D. C., see Gomes Costa, R., and Redaelli, D. C.

REED, E. C.

- 1895 A NEW CHILEAN VINE-DESTROYING INSECT. Ent. News 6: 85-86.
Margarodes trilobitum n. sp. [*M. vitium* 1894].

REH, L.

- 1900 ZUCHT-ERGEBNISSE MIT ASPIDIOTUS PERNICIOSUS COMST. Jahrb. der Hamburg. Wiss. Anst. 17 (Beih. 3) (1899): 237-257. Summarized by Speiser, P., in Allg. Ztschr. f. Ent. 6: 140.
Observations on development.
- 1900a UEBER ASPIDIOTUS OSTREAIFORMIS CURT. UND VERWANDTE FORMEN. Jahrb. der Hamburg. Wiss. Anst. 17 (Beih. 3) (1899): 259-271, illus.
Comparative bases for recognition of *Aspidiotus ancylus*, *ostreaeformis*, *pyri*, *perniciosus*.
- 1900b ÜBER ASPIDIOTUS OSTRAEIFORMIS CURT. UND A. PYRI LICHT. Zool. Anz. 23 (624): 497-499.
Presents bases for differentiation.
- 1900c ÜBER SCHILDBILDUNG UND HÄUTUNG BEI ASPIDIOTUS PERNICIOSUS COMST. Zool. Anz. 23 (624): 502-504.
- 1901 ÜBER DIE POSTEMBRYONALE ENTWICKELUNG DER SCHILDLÄUSE UND INSEKTEN-METAMORPHOSE. Allg. Ztschr. f. Ent. 6: 51-54, 65-68, 85-89.
A general discussion with bibliography.
- 1902 KLEINERE UNTERSUCHUNGEN AN SCHILDLÄUSEN. Allg. Ztschr. f. Ent. 7: 47-51.
Notes on the ventral scale of diaspidids and on mining scales.
- 1903 ZUR NATURGESCHICHTE MITTEL-UND NORDEUROPÄISCHER SCHILDLÄUSE. Allg. Ztschr. f. Ent. 8: 301-308, 351-356, 407-419, 457-469. (Cont.)
Bibliographical, ecological, and other notes on 52 coccids; first proposal of *Lecanium pulchrum* as King manuscript species.
- 1904 ZUR NATURGESCHICHTE MITTEL-UND NORDEUROPÄISCHER SCHILDLÄUSE. Allg. Ztschr. f. Ent. 9: 12-36. (Concl.)
Bibliographical, ecological, and other notes on 17 coccids.

See also King, G. B., and Reh, L.

REIMER, O. E.

- 1890 A COCOANUT PEST TO BE GUARDED AGAINST. Insect Life 2: 278. Apparently first publication of "*Coccus (Diaspis) vandalicus* Galvez."

REITTER, E.

- 1898 COLEOPTEROLOGISCHE NOTIZEN. LXIII. Wien Ent. Ztg. 17: 54-56 (54).
Bergrothiella n. n. for *Bergrothia* pro *Westwoodia*.

REUTER, E.

- 1904 TVA FÖR FINLAND NYA COCCIDER. (In Finnish). Soc. pro Faun. et Flora Fennica, Meddel. 29 (1902-03): 66-67.
Eriopeltis festucae; *Pseudococcus graminis* n. sp. (preoccupied; changed to *P. elongatus* n. n., [Reuter] *ibid.*, p. 251.)

REYNE, A.

- 1947 NOTES ON THE BIOLOGY OF COMPERIELLA UNIFASCIATA ISHII AND ITS HOST ASPIDIOTUS DESTRUCTOR RIGIDUS NOV. SUBSPEC. Tijdschr. v. Ent. 88: 294-302.

- 1948 STUDIES ON A SERIOUS OUTBREAK OF ASPIDIOTUS DESTRUCTOR RIGIDUS IN THE COCOANUT-PALMS OF SANGI (NORTH CELEBES). Tijdschr. v. Ent. 89 (f. 1946): 83-123, illus.

Includes description of *rigidus* as a new subspecies.

REYNE, A.—Continued.

- 1949 NEDERLANDSE COCCIDAE. Tijdschr. v. Ent. 91: lxix.
Adds 12 coccids to Van der Goot's list published in 1912; lists several others.
- 1950 FAURE'S MIXTURE AS EMBEDDING MATERIAL FOR MICROSCOPIC PREPARATIONS OF SMALL INSECTS. (In Dutch.) Ent. Ber. 13 (297): 37-42.
English summary.
- 1951 NIEUWE COCCIDAE VOOR NEDERLAND. Nederland. Ent. Vereen. (105th Summer Session, 1950) Proc., p. xxxix-xli. Also in Tijdschr. v. Ent. 94: xxxix-xli.
Adds 5 coccids.
- 1951a A RE-DESCRIPTION OF RIPERSIA CORYNEPHORI SIGN. Tijdschr. v. Ent. 94: 189-206.
Presents information indicating status of *Ripersia*.
- 1953 RIPERSIA WÜNNI N. SP. (PSEUDOCOCCIDAE). Ent. Ber. 14 (333): 235-239, illus.
- 1954 HIPPEOCOCCUS A NEW GENUS OF PSEUDOCOCCIDAE FROM JAVA WITH PECULIAR HABITS. Leyden Rijks Mus. van Natuurlijke Hist. Zool. Meded. 32: 233-257, illus.
H. rappardi, *H. montanus*, and *H. wegneri*, n. spp.
- 1954a A REDESCRIPTION OF PUTO ANTENNATUS SIGN. (HOMOPTERA, COCCIDEA). WITH NOTES ON CEROPUTO PILOSELLAE SULC AND MACROCEROCOCCUS SUPERBUS LEON. Leyden Rijks Mus. van Natuurlijke Hist. Zool. Meded. 32: 291-324, illus.
Clarifies status of genus and its type.
- 1954b REYNVAANIA GALLICOLA; A NEW ERIOCOCCID CAUSING GALLS ON QUERCUS LINEATA BL. Tijdschr. v. Ent. 97: 233-241, illus.
New genus and species; other Indonesian gall-making coccids reported.

RHUMBLER, L.

- 1914 ZUR BIOLOGIE DER BUCHENRIDEN-WOLLAUS (CRYPTOCOCCUS FAGI). Deut. Forst. Ztg. 29: 265-273.
Life history, local distribution, damage, control.

RICHARDEAU, D., see Balachowsky, A., and Richardeau, D.

RICHTER, G.

- 1928 UTERSUCHUNGEN AN HOMOPTERENSYMBIONTEN. 1. DIE SYMBIONTEN DER DIASPINEN UND ASTEROLEKANIEN. 2. DIE SYMBIONTEN EINIGER EXIOTISCHER ZIKADEN. Ztschr. f. Morph. u. Ökol. der Tiere 10: 174-206 (174-193), illus.
Describes symbionts of 4 diaspinines, and of *Asterolecanium aureum*.

RIDDICK, E.

- 1955 A LIST OF FLORIDA PLANTS AND THE SCALE INSECTS WHICH INFEST THEM. Fla. State Plant Bd. Bul. 7, 78 p.

RIHERD, P. T.

- 1954 A MORPHOLOGICAL DIFFERENCE BETWEEN THE NYMPHS OF ANTONINA GRAMINIS (MASK.) AND ANTONINA PARROTTI (CKL.) AND ANTONINA NORTONI PARR. Ent. Soc. Amer. Ann. 47: 468-470, illus.
Notes differences in structure of mouth parts.

RILEY, C. V.

- 1873 THE OYSTER-SHELL BARK-LOUSE OF THE APPLE—MYTILASPIS POMICORTICIS N. SP. In Noxious, Beneficial, and other Insects of the State of Missouri, Ann. Rpt. 5: 73-96, illus.
Description, extended notes on occurrence, life history etc. [is *Lepidosaphes ulmi*].
- 1879 GRAPE SCALE INSECT—NEW SPECIES. Pacific Rural Press 18: 105.
Comment on a *Pulvinaria* from San Mateo County.

RILEY, C. V.—Continued.

1881 A NEW SPECIES OF OAK COCCID MISTAKEN FOR A GALL. *Amer. Nat.* 15: 482.

Kermes galliformis.

1887? THE COTTONY CUSHION SCALE. *In* U. S. Dept. Agr. Rpt. of Entomologist, 1886: 466-492.

Extended report; description, life history, hosts, enemies, etc.

1888 SYNONYMY OF THE MEALYBUG OF THE ORANGE. *Insect Life* 1: 118.

Lecanium phyllococcus Ashm., *Dactylopius destructor* Comst. identical with *D. [actylopius] citri* Bdv.

1894 NOTES ON COCCIDAE. *Ent. Soc. Wash. Proc.* 3: 65-71.

Incidental notes on mode of hibernation; effects of severe cold; viviparity; remedies.

See also [Walsh, B. D., and Riley, C. V.]

RILEY, C. V., and HOWARD, L. O.

1889 A RHIZOCOCCUS ON GRASS IN DAKOTA. *Insect Life* 1: 345, 385.

Actually identified as *Eriopeltis festucae* (Fonsc.)

1890 AN ICERYA IN FLORIDA. *Insect Life* 2: 333.

I. rosae n. sp. ms.

1890a NAME OF THE OYSTER-SHELL BARK-LOUSE OF THE APPLE. *Insect Life* 3: 89.

Discusses several names as possible synonyms of *Mytilaspis pomorum*.

1890b SOME NEW ICERYAS. *Insect Life* 3: 92-106, illus.

I. rosae, *I. montserratensis*, *I. palmeri*, n. spp.; catalog and synoptical key to 6 species in larval stage, 5 in adult.

1892 ANOTHER IMPORTED SCALE INSECT. *Insect Life* 4: 347.

Pollinia costae [=pollini] discovered in California.

1892a JAMAICA MUSEUM NOTES. *Insect Life* 5: 139-140.

Apparently first publication of names *Ceroplastes utilis* and *Tachardia gemmifera*.

1893 LEEWARD ISLAND COCCIDAE. *Insect Life* 6: 50-51.

List of 26 coccids, including 10 "Ckll. MS." names.

1894 A NEW AND DESTRUCTIVE PEACH-TREE SCALE. (DIASPIS LANATUS MORG. AND CKLL.) *Insect Life* 6: 287-295, illus.

Description, distribution, life history, control.

RIS, H. see Hughes-Schrader, S., and Ris, H.

RISSE, A.

1813 MÉMOIRE. SUR L'HISTOIRE NATURELLE DES ORANGES, BIGARADIERS, LIMETIERS, CÉDRATIERS, LIMONNIERS OU CITRONNIERS, CULTIVÉS DANS LE DÉPARTAMENT DES ALPES MARITIMES. *Mus. d'Hist. Nat. Ann.* 20: 169-212, 401-431 (415-418), illus. Also issued as *Essai sur l'histoire naturelle des oranges*. . . Paris, Dufour, 74 p. (58-61). 1813.

First description of *Dorthezia citri*; other coccids mentioned.

RINGUELET, E. J.

1924 CONTRIBUCIÓN AL ESTUDIO DE LA "PULVINARIA FLAVESCENS" BRÈTHES. *Soc. Cient. Argentina An.* 97: 61-80, illus.

Detailed larval description; feeding effects on plant tissue.

ROAF, J. R., and MOTE, D. C.

1935 THE HOLLY SCALE, ASPIDIOTUS BRITANNICUS NEWSTEAD, AND OTHER INSECT PESTS OF ENGLISH HOLLY IN OREGON. *Jour. Econ. Ent.* 28: 1041-1049.

Description, life history, control of *Aspidiotus britannicus*.

ROBA, R. P.

1935 CATALOGUE SYSTÉMATIQUE DES INSECTS DU CAFÉIER (*Coffea* sp.) *Ann. de Gembloux* 41: 299-305, 333-347, 371-379.

Lists 36 coccids with localities.

ROBA, R. P.—Continued.

- 1936 UN NOUVEAU COCCIDE SIGNALÉ SUR CAFÉIER. Soc. Ent. de Belg. Bul. et Ann. 76: 297-298.
Eumyrmococcus sp.

ROBBINS, W. W., see Cockerell, T. D. A., and Robbins, W. W.

ROBINSON, E.

- 1917 COCCIDAE OF THE PHILIPPINE ISLANDS. Philippine Jour. Sci. 12: 1-47, illus.
Descriptions and keys for 73 coccids in 25 genera, 4 described as new; host index.
- 1918 DESCRIPTIONS AND RECORDS OF PHILIPPINE COCCIDAE. Philippine Jour. Sci. 13: 145-147, illus.
Phenacoccus spinosus, *Pseudaonidia manilensis* n. spp.; collection notes on 7 other coccids.

See also Cockerell, T. D. A., and Robinson, E.

ROEMER, J. J.

- 1789 GENERA INSECTORUM LINNAEI ET FABRICII. Vitoduri Helvetorum, Steiner. viii, 89 p. (16, 81), illus. (mostly col.).
Coccus persicorum, *C. foliorum quercus*, *C. fagi* listed.

ROEPKE, W.

- 1930 UEBER EINEN MERKWÜRDIGEN FALL VON "MYRMEKOPHILIE," BEI EINER AMEISE (CLADOMYRMA SP.?) AUF SUMATRA BEOBACHTET. Misc. Zool. Sumatrana 45, 3 p., illus.
Unusual pseudococcine described and illustrated but not named.

ROGER, J.

- 1857 EINIGES ÜBER AMELSEN: 3) KRITISCHE BEMERKUNGEN ÜBER FORMICA CAPSINCOLA SCHILLING. Berlin. Ent. Ztschr. 1: 17-20 (19).
Explains that this insect, as described, is based on a coccid called *Lecanium (Coccus) cambii* [perhaps *Kermes quercus*] plus an ant.

ROGOJANU, R.

- 1935 UNTERSUCHUNGEN ÜBER DIE WACHSDRÜSEN UND DIE WACHSABONDERUNG BEI DEN GATTUNGEN SCHIZONEURA UND ORTHEZIA. Ztschr. f. Mikros. Anat. Forsch. 37: 151-171, illus.
Detailed histology of wax glands of *Orthezia insignis*.

ROHWER, S. A., see Cockerell, T. D. A., and Rohwer, S. A.

RONDANI, C.

- 1874 DEGLI INSETTI NOCIVI E DEI LORO PARASSITI. Soc. Ent. Ital. Bul. 6: 43-68 (56-62).
Lists 18 coccids and the parasites attacking each; proposes *Coccus gossipifera* and describes its secretions on juniper.

ROSSEM, G., VAN

- 1951 VERSLAG OVER HET OPTREDEN VAN ENIGE SCHADELIJKE INSECTEN IN HET JAAR 1950. Nederland. Ent. Vereen. (105th Summer Session, 1950) Proc., p. ii-ix (vii-viii). Briefly mentions 11 common coccids.

ROSSI, P.

- 1794 MANTISSA INSECTORUM, EXHIBENS SPECIES NUPER IN ETRURIA COLLECTAS ADJECTIS FAUNAE ETRUSCAE ILLUSTRATIONIBUS AC EMENDATIONIBUS. Pisa, Polloni, 1792-1794. 148, 154 p., illus. (p. 514 acc. Fernald.) (Not seen.)
Coccus artemisiae n. sp.

ROTA, P.

- 1953 CONTRIBUTO ALLA CONOSCENZA DEGLI STADI IBERNANTI DI QUADRASPIDIOTUS (ASPIDIOTUS) PERNICIOSUS COMST. Bol. di Zool. Agr. e Bachicolt. 19: 77-84, illus.

ROXBURGH, W.

- 1790 ON THE LACSHA, OR LAC INSECT. Asiatic Researches (Asiatic Soc. Bengal Trans.) 2: 361-364, illus. (Not seen). Also in Philosophical Mag. 3: 367-369, illus., 1799; Asiatic Researches 2 (Ed. 5): 361-364, illus., 1807.

Describes lac insect, but without use of scientific name.

- 1791 CHERMES LACCA. Roy. Soc. London Phil. Trans. 81: 228-235, illus. Also in Roy, Soc. London. Phil. Trans. (Abridged) 17 (1791-1796): 62-67, illus. 1809.

Description of lac insect and various observations on biology and lac dye and lac resin.

RÜBSAAMEN, E. H.

- 1894 UEBER AUSTRALISCHE ZOOCECIDIIEN UND DEREN ERZEUGER. Berlin Ent. Ztschr. 39: 199-234 (204-255), illus.

Crocidocysta froggatti n. gen. and sp.; 6 *Apiomorpha* described, 3 as new; 1 new *Opisthoscelis*.

- 1902 UEBER ZOOCECIDIIEN VON DEN CANARISCHEN INSELN UND MADEIRA. Marcellia 1: 60-65 (62).

Cryptophyllaspis bornmülleri and *Asterolecanium rehi* n. spp. (to be described later).

- 1902a MITTHEILUNG ÜBER DIE VON HERRN J. BORNMÜLLER IM ORIENTE GESAMMELTEN ZOOCECIDIIEN. Zool. Jahrb. Abt. f. System., Geo. u. Biol. Tiere 16: 243-336 (314-316, 336), illus.

Asterolecanium bornmülleri n. sp.

- 1905 BEITRÄGE ZUR KENNTNIS AUSSEREUROPÄISCHER ZOOCECIDIIEN. I. BEITRAG: GALLEN VOM BISMARCK-ARCHIPEL. II. BEITRAG: GALLEN AUS BRASILIEN UND PERU. Marcellia 4: 5-25 (9-10); 65-85 (no coccids). (Cont.)

Cryptophyllaspis rübsaameni n. sp., copy of description by Cockerell.

- 1906 BEITRÄGE ZUR KENNTNIS AUSSEREUROPÄISCHER ZOOCECIDIIEN. II. BEITRAG: GALLEN AUS BRASILIEN UND PERU. Marcellia 4: (1905): 115-138 (122-123). (Concl.)

Diaspis cordiae n. sp.

RUBTSOV, I. A.

- 1952 ON THE DIRECTION OF VARIABILITY IN CONNECTION WITH HOST SPECIALIZATION IN WILLOW HARD-SCALE [*CHIONASPIS SALICIS* L.] (In Russian.) Zool. Zhur (Moscow) 31: 179-182, illus.

RUFFINELLI, A., and CARBONELL, C. S.

- 1953 SEGUNDA LISTA DE INSECTOS Y OTROS ARTROPODOS DE IMPORTANCIA ECONOMICA EN EL URUGUAY. Asoc. de Ingen. Agron. Rev. 24 (94): 33-82 (47-49).

Lists 28 coccids, with scientific and common name; host relation notes.

RUIZ CASTRO, A.

- 1941 EL "MELAZO" (PSEUDOCOCCUS CITRI RISSO) EN LOS PARRALES DE ALMERIA. Bol. de Patol. Veg. y Ent. Agr. 10: 157-216.

Description, synonymy, biology, natural enemies, control.

- 1944 UN COCCIDO AMPELÓFAGO, NUEVO EN ESPAÑA [*DIASPIDIOTUS UVAE* (Comstock)]. Bol. de Patol. Veg. y Ent. Agr. 13: 55-74, illus.

Key to 18 genera of diaspidids; description of *uvae*, biology, control.

- 1944a FAUNA ENTOMOLOGICA DE LA VID EN ESPAÑA. ESTUDIO SISTEMATICO-BIOLOGICO DE LAS ESPECIES DE MAYOR IMPORTANCIA ECONOMICA II (HEMIPTERA). Madrid, Inst. Espanol de Ent., 189 p. (7, 11-51), illus.

Includes detailed study of *Pseudococcus citri*—description, biology, distribution, enemies, control.

RUNGS, C.

- 1933 UNE DIASPINE NOUVELLE DU MAROC: TARGIONIA REGNIERI [n. sp.] Soc. d'Hist. Nat. de l-Afrique du Nord, Bul. 24: 114-117, illus.

RUNGS, C.—Continued.

1934 COCCIDAE DU MAROC [2ND NOTE]. Soc. d'Hist. Nat. de l'Afrique du Nord Bul. 25: 21-25.

A list of 20 coccids with collection data and some descriptive notes.

1935 COCCIDAE DU MAROC (3^me NOTE). Rev. de Path. Veg. et d'Ent. Agr. de France 22: 270-282, illus.

Pseudaonidia glandulosa occitalis n. subsp.; 21 other species discussed.

1936 DIASPINES [HEM. COCCIDAE] NOUVELLES DU MAROC. [COCCIDES DU MAROC, 4TH NOTE.] Soc. Ent. de France Bul. 41: 50-56, illus.

Aspidiotus malenconi and *Hemiberlesea balachowskyi* n. spp.

1937 UNE DIASPINE NOUVELLE DU MAROC. ASPIDIOTUS BRAUNSVIGI N. SP. [HEM. COCCIDAE]. Soc. Ent. de France Bul. 41 (1936): 329-335, illus.

1938 REMARQUES SUR LES VARIATIONS DE MICROCOCCUS SIMILIS LEON. PARASITE DES CÉRÉALES AU MAROC (HEM. COCCIDAE). Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 29: 392-396.

Anatomical variations in different lots of specimens tabulated.

1939 UNE DIASPINE NOUVELLE DU MAROC. (COCCIDAE DU MAROC, 6^e NOTE). HEMIBERLESSA JOURDANI N. SP. [HEM. COCCIDAE]. Soc. Ent. de France Bul. 43 (1938). 231-234, illus.

1941 UNE DIASPINE NOUVELLE CAPTURÉE AU PORTUGAL: AONIDIELLA MIMEURI NOV. SP. (HÉMIPT. COCCIDAE). Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 32: 27-30, illus.

Introduced into McKenzie 1938 *Aonidiella* key.

1942 RÉCOLTES DE LA MISSION D'ÉTUDE DES ACRIDIENS E. MORALES AGACINO ET CH. RUNGS AU SAHARA ESPAGNOL (HEM. COCC.). Eos 18: 107-111.

List of 11 coccids with collection notes.

1942a UNE DIASPINE NOUVELLE DU MAROC: DIASPIS DIACANTHII, NOV. SP. (HÉMIPT. COCCIDAE). Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 33: 59-61, illus.

1943 UN NOUVEAU MICROCOCCUS DU MAROC: MICROCOCCUS BERNARDI NOV. SP. [COCCIDAE DU MAROC, 10TH NOTE]. Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 34: 102-107, illus.

Introduced into Balachowsky 1936 key.

1943a HÉMIPTÈRES COCCIDAE DU TIBESTI. [COCCIDAE DU SAHARÁ, 2ND NOTE]. Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 34: 108-110.

Chionaspis noaeae monodi n. subsp.; notes on 2 other coccids.

1948 CONTRIBUTION AU CATALOGUE DES COCCIDAE DU MAROC. [COCCOIDEA DU MAROC, 11TH NOTE.] Rev. de Path. Veg. et d'Ent. Agr. de France 27: 110-117.

Lists 43 coccids with collection notes.

(RURICOLA), see [Curtis, J.]

RUSSELL, L. M.

1941 A CLASSIFICATION OF THE SCALE INSECT GENUS ASTEROLECANIUM. U. S. Dept. Agr. Misc. Pub. 424, 319 p., illus.

A thorough classificatory study of the genus covering the 92 forms previously assigned to it and adding 83 new species.

RUST, E. W.

1914 NOTES ON COCCIDAE FOUND IN PERU. Jour. Econ. Ent. 7: 467-473.

Peruvian collection records for 20 coccids.

See also Quayle, H. J., and Rust, E. W.

RUTHERFORD, A.

1914 SOME CEYLON COCCIDAE. Bul. Ent. Res. 5: 259-268.

Describes 12 new species; discusses *Ceronema koebeli*.

1915 SOME NEW CEYLON COCCIDAE. Bombay Nat. Hist. Soc. Jour. 24: 111-118.

Describes 9 new species.

RUTHERFORD, A.—Continued.

- 1915a NOTES ON CEYLON COCCIDAE. *Spolia Zeylanica* 10: 103-115.
Additional descriptive information for 20 already described coccids.
- 1916 A NEW SCALE INSECT AFFECTING SUGAR-CANE IN NEW GUINEA. *Linn. Soc. N. S. Wales, Proc.* 41 (No. 162): 215-216.
Aulacaspis major n. sp.

SACCARDO, F.

- 1895 MANIPOLO DI COCCINIGLIE RACCOLTE IN PROVINCIA D'AVELLINO. *Riv. di Patol. Veg.* 4 (1896): 46-55.
List of 21 coccids, with synonymy and collection data.

SACHTLEBEN, H.

- 1944 ÜBER EINEN REST DER SAMMLUNG BOUCHE'S UND DIE IN IHM ENTHALTENEN COCCIDEN. *Arb. über Morph. u. Taxonom. Ent.* 11: 65-76 (68-76), illus.
Reports status of 13 Bouché coccids on basis of examinations of specimens from Bouché collection.

SAJO, K.

- 1896 DIE AKAZIEN-SCHILDLAUS (*LECANIUM ROBINIARUM* DOUGL.) Forstl. *Naturw. Ztschr.* 5: 81-89.
Description, life history.

SAKAI, K.

- 1935 NOTES ON SOME SCALE INSECTS AND HOST PLANTS FROM TANEGASHIMA. (In Japanese.) *Kontyu* 9: 297-300.
Brief comments on 27 species.
- 1939 COMPARISON OF THE RED SCALE (*AONIDIELLA AURANTII* (MASK.)) AND ITS ALLIED SPECIES IN JAPAN. (In Japanese.) *Oyo Kontyu* 2: 45-62, illus.
English summary. A systematic review of 5 species, with corrections of previous misidentifications.

SANDERS, J. G.

- 1902 A NEW PHENACOCOCCUS ON PLATANUS OCCIDENTALIS. *Ohio Nat.* 2: 284-286, illus.
Phenacoccus (Paroudablis) osborni.
- 1903 CHIONASPIS GLEDITSIAE (NEW SPECIES). *Ohio Nat.* 3: 413-414, illus.
- 1904 THREE NEW SCALE INSECTS FROM OHIO. *Ohio Nat.* 4: 94-98, illus.
Orthezia solidaginis, *Chionaspis sylvatica*, *Aspidiotus piceus*.
- 1904a THE COCCIDAE OF OHIO, I. *Ohio Acad. Sci. Proc.* 4, Pt. 2 (Spec. Papers No. 8), p. 25-92, illus. Also issued as *Ohio State Univ. Bul.* (ser. 8) No. 17 (Contrib. Dept. Zool. and Ent. No. 18), p. 25-92.
Keys, descriptions, and figures for 61 Ohio coccids in 20 genera (Coccinae omitted).
- 1906 CATALOGUE OF RECENTLY DESCRIBED COCCIDAE. U. S. Dept. Agr., Bur. Ent., Tech. Ser. 12: 1-18.
Catalog of 9 genera, 6 subgenera, 137 species, and 22 varieties described since appearance of Fernald Catalogue, 1903.
- 1909 THE IDENTITY AND SYNONYMY OF SOME OF OUR SOFT SCALE INSECTS. *Jour. Econ. Ent.* 2: 428-448, illus.
Critical notes, including much synonymy, on 21 common coccids, all but 4 belonging to the Coccinae.
- 1909a CATALOGUE OF RECENTLY DESCRIBED COCCIDAE.—II. U. S. Dept. Agr. Bur. Ent. Tech. Ser. 16: 33-60.
Catalog of 24 genera, 195 species, and 14 varieties described since appearance of Supplement I.
- 1910 A REVIEW OF THE COCCIDAE DESCRIBED BY DR. ASA FITCH. *Ent. Soc. Wash. Proc.* 12: 56-61.
Data obtained from Fitch's notebooks; catalog of the 9 species considered valid, with the Fitch synonyms for each.

SARAIVA, A. COUTINHO.

- 1936 SOBRE UMA COCHONILHA NOVA DE PORTUGAL. ASTEROLECANIUM SEABRAI, N. SP. Coimbra Univ., Mus. Zool. Mem. e Estud. (ser. 1) No. 92, 31 p., illus.
French summary.
- 1936a COCCIDEAS NOVAS DE PORTUGAL. 2—ASTEROLECANIUM CONIMBRIGENSIS, N. SP. Coimbra Univ., Mus. Zool. Mem. e Estud. (ser. 1) No. 94, 18 p., illus.

SASAKI, C.

- 1894 ON THE SCALE INSECT OF MULBERRY TREES (DIASPIS PATELLIFORMIS N. SP.) Tokyo Imp. Univ., Col. Agr. Bul. 2: 107-124, illus.
Description, life history, damage, control.
- 1901 ON THE JAPANESE SPECIES ALLIED TO THE SAN JOSÉ SCALE IN AMERICA. Ann. Zool. Jap. 3: 165-173, illus.
Description, but no name, life history, and distribution notes [actually is *Aspidiotus perniciosus*.]
- 1904 ON THE WAX-PRODUCING COCCID, ERICERUS PE-LA, WESTWOOD. Tokyo Imp. Univ. Col. Agr. Bul. 6: 1-14, illus. (col.).
A redescription with notes on the biology and histology.

SASAKI, I.

- 1935 ON THREE NEW SPECIES OF ASPIDIOTUS AND CHRYSOMPHALUS DISCOVERED IN PLANT INSPECTION. (In Japanese.) Nippon Plant Protect. Soc., Jour. Plant Protect. (Byochugai Zasshi) 22: 864-867, illus.
Aspidiotus aspleniae, *A. euphorbiae*, and *Chrysomphalus saipanensis*.

SASSCER, E. R.

- 1908 THE SALT-MARSH GRASS SCALE. (CHIONASPIS SPARTINAE COMST.) Ent. Soc. Wash. Proc. 9 (1907): 141-142.
A redescription with records of distribution.
- 1911 CATALOGUE OF RECENTLY DESCRIBED COCCIDAE.—III. U. S. Dept. Agr. Bur. Ent. Tech. Ser. 16: 61-74.
A catalog of 3 new subgenera, 98 new species, and 5 new varieties described since the appearance of Catalogue II (Sanders).
- 1912 CATALOGUE OF RECENTLY DESCRIBED COCCIDAE—IV. U. S. Dept. Agr. Bur. Ent. Tech. Ser. 16: 83-97.
A catalogue of 6 new genera, 110 new species, and 4 new varieties described since appearance of Catalogue III.
- 1912a ERIUM LICHTENSIODES CKLL. VS. ERIOCOCCUS ARTEMISIAE KUW. (HEMIP.) Ent. News 23: 396-398.
E. artemisiae a synonym.
- 1912b THE GENUS FIORINIA IN THE UNITED STATES. U. S. Dept. Agr. Bur. Ent. Tech. Ser. 16: 75-82, illus.
A review of 3 U. S. *Fiorinia* with key, descriptions, and host and distribution records.
- 1913 AN INDEX TO CATALOGUES OF RECENTLY DESCRIBED COCCIDAE, INCLUDED IN TECHNICAL SERIES NOS. 12 AND 16. U. S. Dept. Agr. Bur. Ent. Tech. Ser. 16: 99-116.
Covers names included in Catalogues I through IV.
- 1915 CATALOGUE OF RECENTLY DESCRIBED COCCIDAE—V. Ent. Soc. Wash. Proc. 17: 25-38.
A catalog of 4 new genera and 103 new species described since appearance of Catalogue IV.

SAVAGE, R. E.

- 1914 THE RESPIRATORY SYSTEM OF MONOPHLEBUS STEBBINGI, VAR. OCTOCAUDATA. Bul. Ent. Res. 5: 45-47, illus.
Includes detailed study of structure of spiracles.

SAVASTANO, L.

1930 DELLA BIANCAROSSA (CRYSOMPHALUS DICTYOSPERMI MORG.) NEGLI AGRUMI E IN ALTRE SPECIES OSPITANTI NELL'ITALIA. STUDIO DI FITOPATOLOGIA ARBOREA. Acireale R. Staz. Sper. di Agrumic. e Fruttic. Ann. 10: 1-77, illus.

A study of the relationships between coccid and hosts.

SAVESCU, A. D.

1943 OEKOARTEN BEI LECANIDEN. Bucharest Acad. Română, Sect. Sci. Bul. 25 (1942-43): 212-223, illus.

Eulecanium corni savulescui, *E. c. mori*, *E. c. knechteli*, *E. c. pyri*, *E. c. mali*, *E. coryli coniformis*, n. oecospec.; 11 already described lecaniums also considered.

1944 FORMES ÉCOLOGIQUES DES LÉCANIDES DE LA FAUNE ROUMAINE. Bucharest Acad. Română Sect. Sci. Bul. 27 (1944-45): 230-246, illus.

Discusses 15 ecological forms of *Eulecanium corni*, including new eco-forms *E. c. sojæ* and *E. c. aceris* and 5 ecological forms of *E. coryli*.

1955 UNE NOUVELLE ESPECE DE COCHENILLE: LA COCHENILLE VIRGULE DU PEUPLIER (LEPIDOSAPHES POPULI SAVESCU N. SP.) (COCCOIDEA-DIASPIDIDAE). (In Rumanian.) Bucharest Acad. Romana Bul. Sci. 7: 915-925, illus.

Russian and French summaries.

SCHAUM, H.

1850 COCCIDES. In his "BERICHT ÜBER DIE LEISTUNGEN IN DER ENTOMOLOGIE WÄHREND DES JAHRES 1849. Archiv. f. Naturgesch. 16, Bd. 2: 248-249. Review of papers published by Bärensprung, Burmeister, and Macquart; uses genus name *Leucanium* Ill. for *Lecanium* Ill. of other authors.

1852 BERICHT ÜBER DIE LEISTUNGEN IN DER ENTOMOLOGIE WÄHREND DES JAHRES 1851. Archiv f. Naturgesch. 18, Bd. 2: 105-256 (255).

Reviews paper by Bouché describing new coccids; uses *Leucanium* for *Lecanium*.

SCHEINKIN, D., see Carmin, J., and Scheinkin, D.

SCHERNEY, F.

1954 IST QUADRASPIDIOTUS SCHNEIDERI BACHMANN EINE ART? Ztschr. f. Angew. Ent. 36: 225-231, illus.

Questions separation from *Quadraspidotus piri* (Licht.)

SCHMIDT, G.

1939 GEBRÄUHLICHE NAMEN VON SCHADINSEKTEN IN VERSCHIEDENEN LÄNDERN. (Cont.) Ent. Beihefte aus Berlin-Dahlem 6: 1-160.

Various coccid species included.

1940 GEBRÄUHLICHE NAMEN VON SCHADINSEKTEN IN VERSCHIEDENEN LÄNDERN. (Concl.) Ent. Beihefte aus Berlin-Dahlem 7: 161-364.

Various coccid species included.

SCHMIDT, O.

1883 METAMORPHOSE UND ANATOMIE DES MÄNNLICHEN ASPIDIOTUS NERII. Arch. f. Naturgesch. 51 (Bd. 1, h. 2): 169-200, illus. Also issued as Diss. Univ. of Leipzig, Berlin, 32 p., illus. 1885.

Rather detailed description of anatomy and histology.

SCHMUTTERER, H.

1951 ZUR LEBENSWEISE DER NADELHOLZ-DIASPIDINEN (HOMOPTERA, COCCOIDEA, DIASPIDIDAE, DIASPIDINAE) UND IHRER PARASITEN IN DEN NADELWÄLDERN FRANKENS. Ztschr. f. Angew. Ent. 33: 111-136, illus.

Includes keys and illustrations for placing 7 diaspine coccids.

1952 DIE ÖKOLOGIE DER COCCIDEN (HOMOPTERA, COCCOIDEA) FRANKENS [pts. 1-3]. Ztschr. f. Angew. Ent. 33: 369-420, 544-584; 34: 65-100, illus.

Both detailed and generalized observations on the ecology of 85 coccids, with detailed descriptive information on 16, including 2 new species.

SCHMUTTERER, H.—Continued.

- 1952a ÜBER DREI NEUE AN GRÄSERN LEBENDE SCHILDLAUSARTEN DER DEUTSCHEN FAUNA. Beitr. z. Ent. 2: 554-566, illus.
Rhodania occulta, *Trionymus singularis* n. spp., notes on *T. aberrans*.
- 1952b ZUR KENNTNIS DER SCHILDLAUSFAUNA BAYERNS (HOMPT., COCCIDEA). Nachrichtenbl. der Bayer. Ent. 1: 14-15, 18-21.
 Reports 49 species for the Bavarian fauna, none new.
- 1954 ZUR KENNTNIS EINIGER WIRTSCHAFTLICH WICHTIGER MITTELEUROPÄISCHER EULECANIUM-ARTEN (HOMOPTERA: COCCOIDEA: LECANIIDAE). Ztschr. f. Angew. Ent. 36: 62-83, illus.
 A detailed classificatory study of 4 common *Eulecaniums*—*arion*, *corni*, *crudum*, *pulchrum*.
- 1955 NEUE BEITRÄGE ZUR DEUTSCHEN COCCIDENFAUNA; ZUR SCHILDLAUSFAUNA DER NÖRDLICHEN KALKALPEN. In Bericht über die 7. Wanderversammlung Deutscher Entomologen Berlin 1954, 220 p. (159-164), illus. (H. Sachtleben, comp.)
Luzulaspis montana n. sp.; brief general notes on the occurrence of several other coccids.
- 1955a BEMERKENSWERTE SCHILDLAUSFUNDE IN SÜD-UND SÜDWESTDEUTSCHLAND (HOMOPT., COCCIDEA). Nachrichtenbl. der Bayer. Ent. 4 (10): 98-102.
 New collection records for 17 German coccids.

SCHNEIDER, A.

- 1885 DIE ENTWICKLUNG DER GESCHLECHTSORGANE DER INSEKTEN. Zool. Beitr. Breslau 1: 257-300 (276-278).
 Brief mention of 3 coccid genera in discussion; description of female reproductive system of *Coccus adonidum*.

SCHRADER, F.

- 1921 THE CHROMOSOMES OF PSEUDOCOCCUS NIPAE. Biol. Bul. 40: 270, illus.
 Reviewed by Nachtsheim in Archiv. f. Zellforsch. 17: 102-103, 1923.
- 1923 A STUDY OF THE CHROMOSOMES IN THREE SPECIES OF PSEUDOCOCCUS. Arch. f. Zellforsch. 17: 45-62, illus.
 Descriptions for *Pseudococcus citri*, *maritimus*, *nipae*.
- 1923a THE SEX RATIO AND OOGENESIS OF PSEUDOCOCCUS CITRI. Ztschr. f. Induktive Abstam. u. Vererbungslehre 30: 163-182, illus.
 Sexes found approximately equal; cytological development of egg.
- 1923b THE ORIGINAL OF THE MYCETOCYTES IN PSEUDOCOCCUS. Biol. Bul. 45: 279-302, illus.
- 1929 EXPERIMENTAL AND CYTOLOGICAL INVESTIGATIONS OF THE LIFE CYCLE OF GOSSYPARIA SPURIA (COCCIDAE) AND THEIR BEARING ON THE PROBLEM OF HAPLOIDY IN MALES. Ztschr. f. Wiss. Zool. 134: 149-179, illus.
 Fertilization required for development; egg cytology described.
- 1929a NOTES ON REPRODUCTION IN ASPIDIOTUS HEDERAE (COCCIDAE). Psyche 26: 232-236, illus.
 Insects investigated were parthenogentic; suggests probability of 2 races in species, one producing males.
- 1930 OBSERVATIONS ON THE BIOLOGY OF PROTORTONIA PRIMITIVA (COCCIDAE). Ent. Soc. Amer. Ann. 23: 126-132.
 Discusses mating, egg laying, development to maturity, sex ratio.
- 1931 THE CHROMOSOME CYCLE OF PROTORTONIA PRIMITIVA (COCCIDAE) AND A CONSIDERATION OF THE MEIOTIC DIVISION APPARATUS IN THE MALE. Ztschr. f. Wiss. Zool. 138: 386-408, illus.
- 1944 MITOSIS. THE MOVEMENTS OF CHROMOSOMES IN CELL DIVISION. New York, Columbia Univ. Press. 110 p. (4, 9, 17, 18, 25, 31, 35, 48, 71).
 Research work on the coccid family and on 6 coccid genera cited in various phases of the discussion.

SCHRADER, F., and HUGHES-SCHRADER, S.

1926 HAPLOIDY IN ICERYA PURCHASI. Ztschr. f. Wiss. Zool. 128: 182-200, illus.

Description of cell structure.

SCHRADER, H. L.

1863 OBSERVATIONS ON CERTAIN GALL-MAKING COCCIDAE OF AUSTRALIA. Ent. Soc. N. So. Wales Trans. 1: 1-6, illus. Similar information condensed in Zool.-Bot. Gesell. Wien. Verhandl. 13: 189-191, 1863.

Brief review of some Australian gall coccids; genus *Brachyscelis* and several new species mentioned.

1863a FURTHER COMMUNICATION ON THE GALL-MAKING COCCIDAE. Ent. Soc. N. So. Wales Trans. 1: 6-8, illus. Similar information condensed in Zool.-Bot. Gesell. Wien, Verhandl. 13: 191-192, 1863.

Proposes *Brachyscelis*, *Opisthoscelis*, *Ascelis*; indicates *O. gracilis* and *O. subrotunda* and *A. praemollis* as new species.

SCHRANK, F. VON P.

1776 BEYTRÄGE ZUR NATURGESCHICHTE. Augsburg, Veith. 137 p. (48), illus. *Coccus abietis* n. sp.

1781 COCCUS, GALLINSECT. In Enumeratio Insectorum Austriae Indigenorum p. 295-296, illus.

Describes as new *Coccus mali*, *C. visci*, *C. costatus*; discusses 4 other described coccids.

1801 FAUNA BOICA, v. 2, pt. 1, 374 p. (143-148). Nürnberg.

Proposes 13 new names in *Coccus* (some not coccids); discusses 8 other previously described coccids.

SCHUDER, D. L.

1954 ADDITIONS TO THE COCCOIDEA OR SCALE INSECTS OF INDIANA (HOMOPTERA). Ind. Acad. Sci. Proc. (1953) 63: 171-176.

Adds 5 pieces to State list.

SCHULZE, P.

1915 [PRESERVATIVE FOR COCCIDS.] Deut. Ent. Ztschr, 1915: 204-205.

Recommends mixture of 200 cc. glycerin, 200 cc. dist. H₂O, 1 gr. carbolic acid crystals for plant material bearing coccids.

SCHUMACHER, F.

1917 EINE NEUE SCHILDLAUS AUS BRANDENBURG. Deut. Ent. Ztschr. 1918, h. 4: 429-430.

Ceroputo elvirae-castneri n. sp. [nom. nud.]

1919 DIE SCHILDLAUSGATTUNG ERIOPELTIS IN NORDAMERIKA. Deut. Ent. Ztschr. 1919: 119-120.

States opinion that N. American *Eriopeltis festucae* is not identical with European.

SCHWARTZ, W.

1924 UNTERSUCHUNGEN ÜBER DIE PILZSYMBIOSE DER SCHILDLÄUSE. Biol. Zentralbl. 44: 487-528, illus.

Description, occurrence, and development of symbionts in 10 lecanine coccids.

SCHWEIG, C., and GRUNBERG, A.

1936 THE PROBLEM OF BLACK SCALE (*CHRYSOMPHALUS FICUS*, ASHM.) IN PALESTINE. Bul. Ent. Res. 27: 677-714, illus.

Detailed report on local biological and physiological behavior.

SCOTT, C. L.

1952 THE SCALE INSECT GENUS AULACASPIS IN EASTERN ASIA (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). Microentomology 17: 33-60, illus.

List of names placed in *Aulacaspis*; key and descriptions for 15 species, 4 new.

SCOTT, H.

- 1907 ON CERCOCOCCUS EREMOBIUS, GEN. ET SP. NOV., AN ABERRANT FORM OF COCCIDAE. Linn. Soc. London, Trans. Zool. (ser. 2) 9: 455-464, illus.

SCOTT, W. M.

- 1899 FATAL TEMPERATURE FOR SOME COCCIDS IN GEORGIA. U. S. Dept. Agr. Div. Ent. Bul. (n.s.) 20: 82-85.
Report on observations.
- 1900 NOTES ON COCCIDAE OF GEORGIA. U. S. Dept. Agr. Div. Ent. Bul. (n.s.) 26: 49-54.
Lists and briefly discusses 41 species.

SEABRA, A. F. DE

- 1918 OBSERVATIONS SUR QUELQUES ESPÈCES DE COCHENILLES DU PORTUGAL. Soc. Portug. de Sci. Nat. Bul. 8: 72-81.
Host and distribution data for 26 coccids.
- 1921 AS DOENCAS DAS PLANTACOES DE CACAU DAS ILHAS DE S. TOMÉ E PRINCIPE. OS SERVICOS TECNICOS DE COMBATE CONTRA AS EPIPHYTIAS. Inst. Internac. de Biol. Colon. Lisboa, 142 p. (83-86, 95-100), illus.
Host and locality records for 23 coccids.
- 1922 INSECTES DE S. TOMÉ PROVENANT DE LA MISSION D'ÉTUDE DU PROFESSEUR SOUSA DA CAMERA EN 1920. Coimbra, Imprensa da Universidade, 21 p. (4-16). Also in Inst. de Agron. An. 2: 27-45 (28-40), 1925.
Aspidiotus camaranus n. sp.; descriptive and collection notes on 17 other coccids.
- 1930 SUBSIDIOS PARA O CONHECIMENTO DA FAUNA DAS MATAS NACIONAIS. CONCLUSOES DE ESTUDOS REALIZADOS DURANTE OS MESES DE JULHO E AGOSTO DE 1925 NA MATA DE LEIRIA. Coimbra Univ., Mus. Zool. Arq. Secc. de Biol. e Parasitol. 1: 267-282 (269-282).
Collection and other notes on 10 common coccids; uses group name Coccidoidea.
- 1941 CONTRIBUIÇÕES PARA O INVENTÁRIO DA FAUNA LUSITÂNICA. INSECTA: HOMOPTERA (COCCIDAE). Coimbra Univ., Mus. Zool. Mem. e Estud. No. 125, 8 p.
A check list of 42 coccids.
- 1942 CONTRIBUIÇÕES PARA O INVENTÁRIO DA FAUNA LUSITÂNICA. INSECTA: HOMOPTERA (COCCIDAE) 1. ADITAMENTO. Coimbra Univ. Mus. Zool. Mem. e Estud. No. 128, 2 p.
Adds 20 coccids to earlier check list.

SEABRA, A. F. DE, and VAYSSIÈRE, P.

- 1918 LES COCCIDES DE L'ILE DE SAN THOMÉ [HEM.] Soc. Ent. de France Bul. No. 10: 162-164.
Lists 14 coccids.

SEN GUPTA, N., see Das, G. M., Mukherjee, T. D., and Sen Gupta, N.

SEVERIN, H. C. and SEVERIN, H. H. P.

- 1909 A PRELIMINARY LIST OF THE COCCIDAE OF WISCONSIN. Jour. Econ. Ent. 2: 296-298.
List of 38 coccids with collection data.

SEVERIN, H. H. P.

- 1910 THE SAN JOSE SCALE AND ITS RELATION TO CLIMATIC DISTRICTS OR LIFE ZONES IN WISCONSIN. Jour. Econ Ent. 3: 101-103.
Aspidiotus perniciosus in lower tier of counties; *Chionaspis salicis-nigrae* also reported.

SHERMAN, F.

- 1907 THE SAN JOSE SCALE IN NORTH CAROLINA. N. C. Dept. Agr. Bul. 28 (6), 18 p.
Description, life history, hosts, controls.

SHIMER, H.

- 1868 NOTES ON THE "APPLE BARK-LOUSE" (LEPIDOSAPHES CONCHIFORMIS, GMELIN SP.) WITH A DESCRIPTION OF A SUPPOSED NEW ACARUS. Amer. Ent. Soc. Trans. 1868: 361-374.
Family Lepidosaphidae, genus *Lepidosaphes* proposed (p. 373).

SHINJI, O.

- 1917 MATING HABIT OF THE COTTONY CUSHION SCALE. Ent. News 28, 162-165. Detailed report.
- 1919 EMBRYOLOGY OF COCCIDS, WITH SPECIAL REFERENCE TO THE FORMATION OF THE OVARY, ORIGIN AND DIFFERENTIATION OF THE GERM-CELLS, GERM-LAYERS, RUDIMENTS OF THE MID-GUT, AND THE INTRACELLULAR SYMBIOTIC ORGANISM. Jour. Morph. 33: 73-167, illus.
Reprinted with minor changes in Imp. Col. Agr. & Forestry, Japan, Bul. 6, 61 p., illus. 1924.
Studies based on *Pseudococcus macdanieli*, *Lecaniodiaspis pruinosa*, *Icerya purchasi*.
- 1935 ON A SPECIES OF NON-DIASPINE COCCIDAE, FOR WHICH A NEW SUBFAMILY IS TO BE ERECTED. (In Japanese.) Oyo-Dobutsugaku Zasshi (Jap. Soc. Appl. Zool.) 7: 106-108.
Serrolecaniniinae, n. subf., *Serrolecanium bambusae* n. gen. and sp.
- 1935a TWO NEW SPECIES OF NON-DIASPINE COCCIDAE FROM THE NORTHEASTERN PART OF HONSHU. (In Japanese.) Oyo-Dobutsugaku Zasshi (Jap. Soc. Appl. Zool.) 7: 288-290, illus.
Monophlebus akebiae, *Lecanium gigantea*.
- 1935b A LIST OF THE UNARMED SCALE INSECTS COLLECTED IN THE PREFECTURE OF IWATE, WITH THE DESCRIPTIONS OF 7 NEW SPECIES. (In Japanese.) Zool. Soc. Japan, Tokyo, Dobutsugaku Zasshi 47 (566): 767-776, illus.
Discusses 33 coccids.
- 1936 TWO NEW JAPANESE SPECIES OF PSEUDOCOCCUS (HEMIPTERA-HOMOPTERA). (In Japanese.) Kontyu 10: 49-51, illus.
Pseudococcus astericola and *P. elscholtriae*.
- 1936a A NEW SPECIES OF ORTHEZIA FROM JAPAN (HEMIPTERA-HOMOPTERA). (In Japanese.) Kontyu 10: 91-92.
Orthezia argrimoniae.
- 1936b A PRELIMINARY LIST OF THE ARMED SCALE INSECTS OF MORIOKA, JAPAN. (In Japanese.) Kontyu 10: 93-98.
Discusses 21 coccids.

SHIRAIWA, H., see Siraiwa, H.

SHORT, J. R. T.

- 1947 DESCRIPTION AND LIFE HISTORY OF A NEW WESTERN AUSTRALIAN COCCID. Linn. Soc. N. S. Wales, Proc. 71 (1946): 257-269, illus.
Apiomorpha egeria.

SHOTWELL, R. L.

- 1924 A NEW SPECIES OF THE MEALY-BUGS. Ent. Soc. Amer. Ann. 17: 353-354, illus.
Trionymus hypolithus.

SIGNORET, V.

- 1868 ESSAI SUR LES COCHENILLES (HOMOPTÈRES—COCCIDES). [Parts 1 and 2.] Soc. Ent. de France Ann. (ser. 4) 8: 503-528; 829-876 (Pt. 2, pp. 829-876, published April 14, 1869.)
Introduction, brief review of previous literature by author name; discussion of morphology; alphabetical catalog of species names of previously known coccids with accepted synonymy (329 not including synonyms).

SIGNORET, V.—Continued.

- 1869 QUELQUES OBSERVATIONS SUR LES COCHENILLES CONNUES SOUS LE NOM DE POU A POCHE BLANCHE, [ETC.]. Soc. Ent. de France Ann. (ser. 4) 9: 93-96.
Proposes *Lecanium iceryi* "mihî". Discusses *Coccus sacchari* and *Lecanium guerinii*.
- 1869a ESSAI SUR LES COCHENILLES OU GALLINSECTES (HOMOPTÈRES—COCCIDES). [Parts 3 to 5.] Soc. Ent. de France Ann. (ser. 4) 9: 97-104; 109-138; 431-452, illus.
Brief characterization of 25 genera; descriptions of diaspine species of *Aspidiotus*, *Diaspis*, *Chionaspis*, *Fiorinia*, *Parlatoria*.
- 1870 ESSAI SUR LES COCHENILLES OU GALLINSECTES (HOMOPTÈRES—COCCIDES). [Parts 6 and 7.] Soc. Ent. de France Ann. (ser. 4) 10: 91-110; 267-286, illus.
Treats 4 diaspine genera and 13 species, including *Targionia nigra* n. gen. and sp.; discusses 10 unplaced diaspines; treats 4 lecaniodiaspine genera and 7 species.
- 1872 ESSAI SUR LES COCHENILLES OU GALLINSECTES (HOMOPTÈRES—COCCIDES). [Part 8.] Soc. Ent. de France Ann. (ser. 5) 1: 421-434, illus.
Discusses characteristics of 10 genera and 3 species of the "Lecanites."
- 1872a ESSAI SUR LES COCHENILLES OU GALLINSECTES (HOMOPTÈRES—COCCIDES). [Part 9.] Soc. Ent. de France Ann. (ser. 5) 2: 33-46, illus.
Vinsonia pulchella n. gn. and sp.; 12 *Ceroplastes* species redescribed.
- 1872b [DISCUSSION OF COCCIDS FOUND ON TRIP TO SOUTHERN FRANCE AND ITALY.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 5) 2: xxxv-xxxviii.
Discusses 12 species, including *Antonia purpurea* n. sp.
- 1872c [NOTES ON COCCIDAE.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 5) 2: xlvii-xlviii.
Discusses *Ceroplastes mimosae* n. sp. and *Lecanium* n. sp.
- 1873 ESSAI SUR LES COCHENILLES OU GALLINSECTES (HOMOPTÈRES—COCCIDES). [Parts 10 and 11.] Soc. Ent. de France Ann. (ser. 5) 3: 27-48; 395-400; 401-448 (Pt. 11, pp. 401-448, published April 22, 1874).
Description and discussion of genera *Lichtensia*, *Pulvinaria*, and *Lecanium* and of 71 coccids in these genera, 21 presented as new.
- 1874 ESSAI SUR LES COCHENILLES OU GALLINSECTES (HOMOPTÈRES—COCCIDES). [Parts 12 and 13.] Soc. Ent. de France Ann. (ser. 5) 4: 87-106; 545-558, illus. (Pt. 13, pp. 545-558, published April 28, 1875.)
Redescriptions of 4 genera and 5 species in Lecanides, and of *Carteria* and *C. lacca*; redescription of *Kermes* and 7 included species.
- 1875 [NOTES ON COCCIDS] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 5) 4: vii (publ. 1874), ccxx, ccxxix-ccxxx (publ. 1875).
Aclerda subterranea, *Fairmairia bipartita* n. gen. and n. spp., and *Carteria* n. gen. listed (1874); 6 new genera and 4 new species listed, comments on usages of *Kermes* and *Chermes* (1875).
- 1875a NOTE SUR UNE ESPÈCE NOUVELLE DE COCCIDE. Petites Nouvelles Ent. 7: 499.
Dactylop[i]us bromeliae Sign. n. sp.
- 1875b ESSAI SUR LES COCHENILLES OU GALLINSECTES. [Parts 14 and 15 to 17.] Soc. Ent. de France Ann. (ser. 5) 5: 15-40; 305-352 (1875); 353-394 (1876), illus.
[Neave and Schulze, Nomenclator Zool., assign the last 3 new genera in the 16th part and the only new genus in the 17th part to the year 1876, and we have found that pages 353 through 373 of part 16 and all of part 17 were published in April 1876.]
Review of 3 groups—Acanthococcites, Dactylopites, Monophlebites—with descriptions or comments on 26 genera, 14 presented as new, and on 66 species, 22 presented as new.
- 1876 [NOTE ON A NEW ASPIDIOTUS SPECIES.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 5) 6: lii-liii, lxiv.
Describes *A. vitis* as new.

SIGNORET, V.—Continued.

- 1877 ESSAI SUR LES COCHENILLES OU GALLINSECTES (HOMOPTÈRES—COCCIDES).
[Part 18.] Soc. Ent. de France Ann. (ser. 5) 6(1876): 591-676,
illus. (Concl.)
Treats 3 genera, 9 species of Brachyscelides; gives 15 additions or
corrections to monograph; discusses 58 unplaced species; presents
systematic catalog and indices of all genera and all species of Coc-
cidae.
- 1877a [NOTE ON COCCIDS.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 5) 6:
ccix.
Proposes name *Asterodiaspis* [n. gen.] *quercicola* for *Lecanium quer-*
cicola Bouche.
- 1877b [NOTES ON VARIOUS HEMIPTERA.] Soc. Ent. de France Bul. (ser. 5)
7: xxxvi.
Eriopeltis lichtensteinii briefly characterized as new.
- 1879 [GENRE SPONDYLIASPIS SIGN.] Soc. Ent. de France Ann. [Bul. Ent.]
(ser. 5) 9: lxxxv-lxxxvii.
S. spinosulus, *S. cereus*, *S. bancrofti*, n. spp. [presented as coccids;
actually psyllids.]
- 1882 [OUDABLIS N. GEN.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 6) 1
(1881): clvii.
New name for *Boisduvalia* Sign. 1875.
- 1882a [SPONDYLIASPIS SIGN. = INGLINA.] Soc. Ent. de France Ann. [Bul.
Ent.] (ser. 6) 1 (1881): clviii.
Inglina Maskell (presumably misprint for *Inglisia*) considered by
Signoret to be a prior name for *Spondyliaspis* Sign. [actually a psyl-
lid genus.]
- 1882b [OBSERVATIONS ON VARIOUS COCCIDS.] Soc. Ent. de France Ann. [Bul.
Ent.] (ser. 6) 2: xxxv-xxxvi.
Collection note on *Rhyzaecus* (sic) *falcifer*; brief description of *My-*
tilaspis longirostris n. sp.
- 1882c [NOTES ON COCCIDS.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 6)
2: clxxxiii-clxxxv.
Several notes on synonymy or identity of coccids.
- 1883 [NOTE ON COCCIDS.] Soc. Ent. de France Ann. [Bul. Ent.] (ser. 6)
3: lxiii.
Diaspis aurantii n. sp. without description.
- 1886 [EXHIBITION OF CHIONASPIS EUONYMI COMSTOCK.] Soc. Ent. de France
Ann. [Bul. Ent.] (ser. 6) 6: ix.
Called *C. nemausensis* by J. Lichtenstein.
- 1886a [TACHARDIA BLANCHARD N. N. IN PLACE OF CARTERIA COMST. (PRE-
OCCUPIED IN PROTOZOA).] Soc. Ent. de France Ann. [Bul. Ent.]
(ser. 6) 6: lxii.

SIKES, ENID K.

- 1928 THE EXTERNAL MORPHOLOGY AND LIFE-HISTORY OF THE COCCID BUG,
ORTHEZIA URTICAE LINN. Zool. Soc. London Proc. 1928: 269-305,
illus.
A detailed discussion.

SILVESTRI, F.

- 1901 DESCRIZIONE DI NUOVI TERMITOFILI E RELAZIONI DI ESSI CON GLI OSPITI.
II. HEMIPTERA, HOMOPTERA, FAM. COCCIDAE. Mus. di Zool. ed Anat.
Comp. Bol. [Torino Univ.] 16 (395): 4-6.
Termitococcus n. gen., *T. aster*, *T. brevicornis* n. spp.
- 1902 COCCIDEI PARASSITI DELLA VITE. Bol. di Ent. Agr. e Patol. Veg. 9: 74-
82, 97-104, 121-128, 146-149, illus.
Includes description and bibliographical information on *Pulvinaria*
vitis and 5 diaspine coccids.

SILVESTRI, F.—Continued.

- 1908 DESCRIZIONE DI UNA NUOVA SPECIE DI MARGARODES AVENTE LA PRIMA FORMA LARVALE BIPEDA. Soc. Ent. Ital. Bol. 38 (1906): 140-152, illus.
M. mediterraneus.
- 1911 DISPENSE DI ENTOMOLOGIA AGRARIA SECONDO LE LEZIONI DEL PROF. F. SILVESTRI RACCOLTE DAL DOTT. GUIDO GRANDI. PARTE SPECIALE. Portici, Vesuviano. 573 p. (132-197).
Keys to coccid subfamilies and genera; descriptions and other information on about 39 common coccids; proposes *Kermococcus* pro *Kermes* Boit.
- 1915 CONTRIBUTO ALLA CONOSCENZA DEGLI INSETTI DELL' OLIVO DELL' ERITREA E DELL' AFRICA MERIDIONALE. Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 9: 249-263, illus.
Describes 4 new species; comments on 3 other coccids.
- 1915a CONTRIBUZIONE ALLA CONOSCENZA DEL GENERE STICTOCOCCUS COCKERELL (HEMIPTERA: COCCIDAE). Portici R. Scuola Super di Agr. Lab. Zool. Gen. e Agr. Bol. 9: 379-388, illus.
S. diversiseta n. sp.
- 1919 IL CEROPLASTE (O COCCINIGLIA) CINESE DEGLI AGRUMI. Portici R. Scuola Super. di Agr., R. Lab. di Ent. Agr. Bol. 2, 15 p.
Brief comment on several (8) citrus coccids with particular reference to *Ceroplastes sinensis*.
- 1919a CONTRIBUZIONI ALLA CONOSCENZA DEGLI INSETTI DANNOSI E DEI LORO SIMBIONTI. IV. LA COCCINIGLIA DEL PRUGNO (SPHAEROLECANIUM PRUNASTRI FONSC.) Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 13: 70-126 (70-82), illus.
Catalog, detailed description of stages, life history notes, enemies.
- 1919b CONTRIBUZIONI ALLA CONOSCENZA DEGLI INSETTI DANNOSI E DEI LORO SIMBIONTI. V. LA COCCINIGLIA DEL NOCCIUOLO (EULECANIUM CORYLI L.) Portici R. Scuola Super di Agr. Lab. Zool. Gen. e Agr. Bol. 13: 127-192 (127-143), illus.
Catalog, detailed description of stages, life history notes, enemies.
- 1920 DESCRIZIONE E NOTIZIE DEL CEROPLASTES SINENSIS D. GUERC. (HEMIPTERA, COCCIDAE). Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 14: 3-17, illus.
Detailed description of all stages.
- 1924 DESCRIPCIÓN DE UN NUEVO GÉNERO Y TRES ESPECIES NUEVAS DE ORTHEZIINAE (HEMIPT., COCCIDAE), DE ESPAÑA Y DE COSTA RICA. R. Soc. Españ. Hist. Nat. Bol. 24: 169-176, illus.
Orthezinella n. gen., *O. hispanica*, *O. neotropicalis*, n. spp. *Ortheziola tristani* n. sp.
- 1924a A NEW MYRMECOPHILOUS GENUS OF COCCIDAE (HEMIPTERA) FROM INDIA. Indian Mus. Rec. 26: 311-315, illus.
Xenococcus annandalei n. gen. and sp.
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- 1938a DESCRIZIONE DI UN NUOVO GENERE DI MARGARODINAE. (INSECTA, COCCIDAE) DELLA CINA. Notes d'Ent. Chinoise 5 (3): 21-27, illus. *Promargarodes sinensis* n. gen. and sp.
- 1939 FAM. COCCIDAE. In Compendio di Ent. Appl. Parte Spec. 1 (2): 618-860, illus.
Descriptive and other information on about 80 coccid species and nearly as many genera; proposes *Pericerya* for *Icerya purchasi*; presents figures for *Costalimaspis lepagei* Silv.
- 1939a DESCRIZIONE DI UNA NOVA SPECIE DI MARGARODES (INSECTA COCCIDAE) DEL BRASILE. Portici. R. Lab. di Ent. Agr. Bol. 2: 421-423, illus. *M. paulistus*.

See also Berlese, A., and Silvestri, F.

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Detailed description, life history, distribution, enemies.

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SINELNIKOVA, Z.

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English summary. Description, life history, damage, control.

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Trionymus mori, *T. soja*.
- 1939 NOTES ON AND DESCRIPTIONS OF THE COCCIDS OF SOUTHERN SAGHALIEN. Kontyu 13: 63-75, illus.
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SLINGERLAND, M. V.

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SMIRNOFF, W.

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Extended discussion of *Parlatoria blanchardi* including description, economic importance, and consideration of ecological reactions to environment.

SMIRNOV, E., and POLEJAEFF, W.

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- 1880 BIOLOGICAL AND OTHER NOTES ON PSEUDOCOCCUS ACERIS. N. Amer. Ent. 1: 73-87, illus. Reviewed [by C. V. Riley?] under title "A scale insect on maple, hitherto unobserved by American entomologists," in Amer. Ent. 3: 220-221, 1880.
History, description of stages, habits, enemies, life history [actually *Phenacoccus acericola*].

SMITH, H. S.

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SMITH, J. B.

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- 1902 THE ROSE SCALE. DIASPIS ROSAE, BOUCHÉ. N. J. Agr. Expt. Sta. Bul. 159, 14 p., illus.
Life history, description, damage, control.

SMITH, P. E.

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SPILLER, D.

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STARNES, H. N.

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STEBBING, E. P.

- 1902 [DESCRIPTIVE NOTES ON COCCIDS.] Departmental Notes on Insects that Affect Forestry No. 1: 133-145, illus.
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- 1903 [DESCRIPTIVE NOTES ON COCCIDS.] Departmental Notes on Insects that Affect Forestry No. 2: 318-323, 332-334, illus.
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- 1906 [DESCRIPTIVE NOTES ON COCCIDS.] Departmental Notes on Insects that Affect Forestry No. 3: 468-469.
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- 1909 ON SOME INSECT PESTS OF THE HIMALAYAN OAKS (*QUERCUS DILATATA* AND *Q. INCANA*). Indian Forest Rec. 2: 1-28 (26-28), illus.
Description and life history of *Kermes himalayensis*.
- 1910 A NOTE ON THE LAC INSECT (*TACHARDIA LACCA*), ITS LIFE HISTORY, PROPAGATION AND COLLECTION. (Ed. 2, rev.) Indian Forest Mem. 1 (3): 33-114 [82 p.], illus. First edition in Indian Forest Rec. 1: 1-84, 1908.

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A critical comparative study of structures usable in classification; diagnoses of 22 genera, notes on others; key to 30 genera.

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1946 THE IDENTITY OF CERTAIN COMMON AMERICAN SPECIES OF PULVINARIA (HOMOPTERA: COCCOIDEA: COCCIDAE). Microentomology 11: 2-28, illus.
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See also Doane, R. W., and Steinweden, J. B.

STEPHANI PEREZ, T. DE

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General discussion; 7 other coccids mentioned.

STEWART, C.

1801 ELEMENTS OF THE NATURAL HISTORY OF THE ANIMAL KINGDOM. London, v. 2, p. 110. (Not seen; publication date for Horn and Schenkling. In edition 2, published 1817, species appears on page 120.)
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STEYN, J. J.

1951 THE EFFECT OF LOW CALCIUM, PHOSPHORUS OR NITROGEN ON THE LIFE-CYCLE OF RED SCALE (*AONIDIELLA AURANTII* MASK.) Ent. Soc. So. Africa Jour. 14: 165-170, illus.

Considers high nitrogen useful in retarding development.

STICKNEY, F. S.

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A very detailed study of the anatomy of 12 peculiar coccids on *Palmae* with keys and descriptions, including 3 new genera and 7 new species.

1934a THE EXTERNAL ANATOMY OF THE PARLATORIA DATE SCALE, *PARLATORIA BLANCHARDI* TARGIONI TOZZETTI, WITH STUDIES OF THE HEAD SKELETON AND ASSOCIATED PARTS. U. S. Dept. Agr. Tech. Bul. 421, 67 p., illus.

A very detailed study of all stages.

STOFBERG, F. J.

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Detailed life history and habits in S. Africa.

1937a THE CITRUS RED SCALE (*AONIDIELLA AURANTII* MASK.) Union So. Africa, Dept. Agr. and Forestry, Sci. Bul. 167, 24 p., illus.

Detailed life history and habits in S. Africa.

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Notes differences in spelling of *Lakshadia*.

STRICKLAND, A. H.

1947 THREE NEW SPECIES OF COCCIDEA (HEMIPTERA-HOMOPTERA) FROM THE GOLD COAST, BRITISH WEST AFRICA. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 16: 149-156, illus.

Tylococcus malacanthae, *T. boafoensis*, *Pseudococcus celtis*.

STRICKLAND, A. H.—Continued.

- 1947a COCCIDS ATTACKING CACAO (*THEOBROMA CACAO* L.), IN WEST AFRICA, WITH DESCRIPTIONS OF FIVE NEW SPECIES. *Bul. Ent. Res.* 38: 497-523, illus.

A list of 44 coccids, including the 5 new species, with collection and other notes; a supplementary list of 17 non-African cacao coccids.

- 1951 THE ENTOMOLOGY OF SWOLLEN SHOOT OF CACAO.—I. THE INSECT SPECIES INVOLVED, WITH NOTES ON THEIR BIOLOGY. *Bul. Ent. Res.* 41: 725-748, illus.

Extended notes on biology of *Pseudococcus njalensis*; mention of about 40 other coccids.

- 1951a THE ENTOMOLOGY OF SWOLLEN SHOOT OF CACAO.—II. BIONOMICS AND ECOLOGY OF THE SPECIES INVOLVED. *Bul. Ent. Res.* 42: 65-103, illus.

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- 1919 I. WISSENSCHAFTLICHE MITTEILUNGEN. 1. ZUR ENTWICKLUNGSGESCHICHTE DER OVIPAREN COCCIDEN. *Zool. Anz.* 50: 113-139, illus.

Discussion based on *Lecanium hemisphaericum*.

SULC, K.

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- 1895a STUDIE O COCCIDECH.—I. (In Czech.) [Prague] K. Böhmisches Gesell. der Wiss. Sitzber. 1895, Pt. 2, No. 49, 27 p., illus.

English summary. *Syngenaspis parlatoriae* n. gen. and sp., *Mytilaspis newsteadi* n. sp., *Cryptococcus fagi* redescribed.

- 1895b DESCRIPTION OF A NEW SPECIES OF LECANIUM FROM BOHEMIA. *Ent. Monthly Mag.* (ser. 2) 6: 37-38, illus.

L. douglasi.

- 1898 STUDIE O COCCIDECH.—II. (In Czech.) [Prague] K. Böhmisches Gesell. der Wiss. Sitzber. 1897, No. 66, 19 p., illus.

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- 1906 KERMINCOLA KERMESINA N. GN. N. SP., UND PHYSOKERMINA N. SP., NEUE MIKROENDOSYMBIOTIKER DER COCCIDEN. [Prague] K. Böhmisches Gesell. der Wiss. Sitzber. 1906, No. 19: 1-6, illus.

- 1908 TOWARDS THE BETTER KNOWLEDGE OF THE GENUS LECANIUM. *Ent. Monthly Mag.* 44: 36.

Proposes 3 new genera; emends *Eulecanium*.

- 1908a NEW INFORMATION ON SCALE INSECTS (COCCIDAE). (In Czech.) *Klubu Prirod., Prostejove, Vest.* 1907: 63-67.

German summary; *Coccura* n. gen., *C. comari* Kunow-Sulc. def. em.

- 1909 ZUR ANATOMIE DER COCCIDEN. [sci. note.] *Zool. Anz.* 34: 164-172.

Descriptions of the ventral gland [circulus] and dorsal ostioles of *Pseudococcus farinosus*.

- 1912 COCCIDAE REGNI BOHEMIAE, IN LITERATURA ADHUC COMMEMORATAE. *Ceskoslov. Spolec. Ent. Casopis.* 9: 30-38.

List of 32 Bohemian coccids with literature citation and collection notes.

- 1912a HELIOCOCCUS BOHEMICUS N. GN., N. SP. *Ceskoslov. Spolec. Ent. Casopis.* 9: 39-48, illus.

- 1923 INTRACELLULARE HEREDITARE SYMBIOSE BEIM MARGARODES (COCCIDAE). (In Czech.) *Pubs. Biol. École des Hautes Etudes Vét., Brno., Tchecoslov. (Biol. Spisy Vysoké Skoly Zverol., Brno, Českoslov. Repub.)* 2 (14): 217-237, illus.

German summary. Symbionts described.

SULC, K.—Continued.

- 1931 O SKLADBĚ VOSKOVYCH STĚTU A JEJICH PRISLUSNYCH ŽLAZ SAMCU PUKLIC (LECANIUM, COCCIDAE) (ÜBER DIE STRUKTUR DER WACHSREIFE UND IHRER DRÜSEN BEI DEN LECANIUM-MÄNNCHEN.) Přírod. Společ. v. Morav. Ostravě Sborn. 1930-1931: 85-96, illus.
German summary.
- 1932 CESKOSLOVENSKÉ DRUHY RODU PUKLICE (GN. LECANIUM, COCCIDAE, HOMOPTERA). DIE TSCHECHOSLOWAKISCHEN LECANIUM-ARTEN. Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 7 (5) (Signatura F 57), 134 p., illus.
German summary. A critical detailed study of the anatomy and classification of 10 Bohemian *Lecanium* species, with keys to subgenera and some species.
- 1932a ÜBER DIE MÄNNLICHEN WACHSSCHILDER UND DIE DIESELBEN PRODUZIERENDEN WACHSDRÜSEN DER MITTELEUROPAISCHEN LECANIINEN. Arch. Zool. Ital. 16: 1086-1089.
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- 1933 METADENOPUS FESTUCAE N. GN., N. SP. SF. COCCINAE, PATRIA MORAVIA, CSR. (In Czech.) Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 8 (12) (Signatura F 76), 17 p., illus.
English summary.
- 1934 THYMASPIS FUSCA N. GEN., N. SP. ASPIDIOTUS BAUDYSI N. SP. (COCCIDAE, SF. DIASPIDINAE), PATRIA MORAVIA CSR. (In Czech.) Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 9 (3) (Signatura F 79), 21 p.
English summary.
- 1936 DIE WEIBLICHEN GESCHLECHTSORGANE VON XYLOCOCCUS FILIFERUS LÖW 1882. (In Czech.) Českoslov. Zool. Společ. Věst. 3 (1935): 60-68, illus.
Detailed description; reference to condition in several other coccids.
- 1937 MOHELNASPIS MORAVICA N. GN. N. SP. (DIASPIDIDAE, COCCOIDEA HEMIPTERA). (In Czech.) Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 10 (11) (Signatura F 100), 41 p., illus.
English summary.
- 1937a EMENDATORY DESCRIPTION OF THE FEMALE OF PSEUDOCOCCUS WILKERI NEWSTEAD 1891. Soc. Zool. Tchécoslovaque de Prague Mem. 5: 86-93, illus.
A detailed redescription.
- 1941 MOHELNIA FESTUCETI N. GN., N. SP. (LECANIIDAE, ERIOPELTINI, COCCOIDEA, HEMIPTERA). (In Czech.) Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 13 (6) (Signatura F 131), 17 p., illus.
- 1942 DIAGNOSIS DIFFERENTIALIS INTER GN. PULVINARIA ET PHYLLOSTROMA N. GN. Ent. Listy (Folia Ent.) 5: 5-8, illus.
Comparative Latin diagnoses of both genera.
- 1942a TRACHEÁLNÍ SYSTÉM U PHYLLOSTROMA ERICAE LOEW 1883 (COCCOIDEA). (ÜBER DEN BAU DES TRACHEENSYSTEMS VON PHYLLOSTROMA ERICAE LOEW 1883. (COCCOIDEA.)) Ent. Listy (Folia Ent.) 5: 8-15, illus.
German summary. Describes tracheal system in second larva with remarks on its development in a few other coccids.
- 1943 ZEVNI MORFOLOGIE, METAMORFOZA A BĚH ŽIVOTA CERVCE PHENACOCCUS ACERIS SIGN. (ÄUSSERE MORPHOLOGIE, METAMORPHOSE UND LEBENS LAUF VON PHENACOCCUS ACERIS SIGN. (COCCOIDEA.)) Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 15 (12) (Signatura F 158), 52 p., illus.
- 1944 ANTONINELLA N. GN. SYNON. ANTONINA SULCI GREEN 1934. (COCCOIDEA, HOMOPTERA). (In Czech.) Seske Zool. Společ. Věst. 1944, p. 148-170, illus.

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- 1944a ZEVNI MORFOLOGIE, METAMORFOSA A BEH ZIVOTA CERVCE PEUKINOCOCCUS N. GN. PICEAE LOEW 1883. (ÄUSSERE MORPHOLOGIE, METAMORPHOSE UND LEBENSLAUF VON PEUKINOCOCC N. GN. PICEAE LOEW. (COCCOIDEA.)) Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 16 (11) (Signatura F 169), 50 p., illus.
- 1945 ZEVNI MORFOLOGIE, METAMORFOSA A BEH ZIVOTA CERVCE NIPAECOCCUS N. GN. NIPAE MASKELL. (ÄUSSERE MORPHOLOGIE, METAMORPHOSE UND LEBENSLAUF VON NIPAECOCCUS N. GN. NIPAE MASKELL (COCCOIDEA.)) Práce Morav. Přírod. Společ. (Acta Soc. Sci. Nat. Morav.) 17 (3) (Signatura F 177), 48 p., illus.
German summary.

SULZER, J. H.

- 1761 DIE KENNZEICHEN DER INSECTEN. Zürich, Heidegger 28, 203 (109-112), 67 (31) p., illus.
Brief general discussion of *Coccus* species with specific reference by name only to *C. hesperidum* L.
- 1776 ABGEKURZTE GESCHICHTE DER INSECTEN NACH DEM LINAEISCHEN SYSTEM. Winterthur, Steiner, Pt. 1, 28, 274 (107-112): Pt. 2, explanation of plates, 58 p. (22), illus. (col.).
Brief general discussion of coccids; names, describes, and illustrates *Coccus persicorum*, *C. fol. quercus* [a psyllid], *C. fagi*.

SUMMerville, W. A. T.

- 1934 QUEENSLAND CITRUS SCALE INSECTS AND THEIR CONTROL. Queensland Dept. Agr. and Stock, Div. Ent. and Plant. Pathol. Bul. (n.s.) 10, 101 p., illus. Published previously in Queensland Agr. Jour. v. 41, pt. 5, 6; and v. 42, pt. 1, 2. May-Aug. 1934.
Descriptions, life histories, enemies, etc., for 14 common coccids.

SUOMALAINEN, E.

- 1940 BEITRÄGE ZUR ZYTOLOGIE DER PARTHENOGENETISCHEN INSEKTEN. II. LECANIUM HEMISPHERICUM (COCCIDAE). Acad. Sci. Fenn., Ann. (ser. A) 57 (1941), 30 p., illus.
English summary. Description of chromosomes and comparison with other coccids.

SUTER, P.

- 1932 UNTERSUCHUNGEN ÜBER KÖRPERBAU, ENTWICKLUNGSGANG UND RASSEN-DIFFERENZIERUNG DER KOMMASCHILDLAUS, LEPIDOSAPHES ULMI L. Schweiz. Ent. Gesell. Mitt. 15: 347-420, illus.
A detailed study of the anatomy and biology; 5 races recognized.
- 1950 ZUR BIOLOGIE VON LECANIUM CORNI BChÉ. Schweiz. Ent. Gesell. Mitt. 23: 95-103, illus.
Discusses life history and stages.

SUTHERLAND, J. R. G.

- 1932 SOME OBSERVATIONS ON THE COMMON MEALYBUG PSEUDOCOCCUS CITRI RISSO. Quebec Soc. Protect. Plants Ann. Rpts. 23-24 (1930-32): 105-118, illus.
Critical notes on mealybug mounting; description and life history notes.

SWEZEY, O. H.

- 1945 INSECTS ASSOCIATED WITH ORCHIDS. Hawaii. Ent. Soc. Proc. 12 (1944): 343-403 (374-390).
Includes lists of 26 orchid coccids and of 78 others sometimes found on orchids, with collection data.

SYMONS, T. B., and CORY, E. N.

- 1910 THE TERRAPIN SCALE. Md. Agr. Expt. Sta. Bul. 149: 83-92.
Distribution, description, life history, control.

SZELÉNYI, G. I.

- 1936 RESEARCH ON THE DEVELOPMENT AND EPIDEMIOLOGY OF ASPIDIOTUS PIRI (LICHT.) REH, ON THE GENERATION OF THE YEAR 1935. (In Hungarian.) Hungary Ackerbau Min., Kísérlet. Közlem. Rec. Hungarian Agr. Expt. Sta. 39: 159-170, illus.

German and English summaries. Life history; effect of temperature on mortality.

SZULCZEWSKI, J. W.

- 1921 PRZYCZYNEK DO FAUNY CZERWCÓW (COCCIDAE) WIELKOPOLSKICH. (CONTRIBUTION À L'ÉTUDE DE LA FAUNE DES COCCIDAE DE LA GRANDE POLOGNE). Prace Kom. Mat.-przyr. Tow. Przyj. Nauk w. Poznaniu (Soc. Sci. de Poznan, Trav. de la Comm. des Sci. Math. et Nat.) (ser. B) 1: 78-84.

French summary. List of 24 coccids with collection data.

- 1927 MATERJALY DO FAUNY CZERWCÓW MIASTA POZNANIA. (BEITRÄGE ZUR COCCIDENFAUNA DER STADT POZNAN). Polskie Pismo Ent. 5 (1926): 137-143.

German summary. List of 36 coccids with collection data.

TAKAHASHI, R.

- 1928 COCCIDAE OF FORMOSA. Philippine Jour. Sci. 36: 327-347, illus.
Describes 1 new genus, 5 new species, 1 new variety; collection notes on 46 other coccids.

- 1928a COCCIDAE OF FORMOSA.—2. Formosa Nat. Hist. Soc. Trans. 18 (97): 253-261, illus.

Formicococcus cinnamomi and *Pilococcus miscanthi* n. gen. and n. spp.; 3 other coccids discussed.

- 1929 OBSERVATIONS ON THE COCCIDAE OF FORMOSA. PART I. Formosa Govt. Res. Inst. Dept. Agr. Rpt. 40, 82 p., illus.

Food-plant list; also list with citations and collection data for 116 Formosan coccids, including descriptions of 1 new genus and 7 new species.

- 1929a APHIDIDAE AND COCCIDAE OF THE PESCADORES. (In Japanese.) Formosa Nat. Hist. Soc. Trans. 19 (104): 425-431 (428-431).

A list of 16 coccids; *Ferrisiana* proposed for *Ferrisia*, supposedly preoccupied in Mollusca.

- 1930 OBSERVATIONS ON THE COCCIDAE OF FORMOSA. PART II. Formosa Govt. Res. Inst. Dept. Agr. Rpt. 48, 44 p., illus.

Describes 1 new genus, 15 new species, 2 new varieties; collection data or notes on 13 other coccids; supplementary host list.

- 1931 SOME COCCIDAE OF FORMOSA. Formosa Nat. Hist. Soc. Trans. 21 (112): 1-5, illus.

Pulvinaria durantae, *Diaspis machili*, *Leucaspis formosanus*, *Aspidiotus phragmitis*, n. spp.; note on *Lepidosaphes halli*.

- 1931a DESCRIPTIONS OF SOME NEW FORMOSAN COCCIDAE. (RHYNCHOTA). Bul. Ent. Res. 22: 211-220, illus.

Describes 9 new species.

- 1931b RECORDS AND DESCRIPTIONS OF THE COCCIDAE FROM FORMOSA. PART I. Soc. Trop. Agr. Jour. 3: 377-385, illus.

Describes 1 new genus, 6 new species; collection notes on 4 other coccids.

- 1932 RECORDS AND DESCRIPTIONS OF THE COCCIDAE FROM FORMOSA. PART 2. Soc. Trop. Agr. Jour. 4: 41-48, illus.

Describes 2 new genera, 4 new species; collection data on 1 other coccid.

- 1932a NEW FOOD-PLANTS OF THE COCCIDAE IN FORMOSA. (In Japanese.) Formosa Nat. Hist. Soc. Trans. 22 (118-119): 102-105.

Additional host plant records.

TAKAHASHI, R.—Continued.

- 1933 OBSERVATIONS ON THE COCCIDAE OF FORMOSA. PART III. *In* Formosa Govt. Inst. Dept. Agr. Rpt. 60: 25-62, illus.
Describes 13 new species; collection notes on 7 others; list of 33 Formosan coccids previously reported elsewhere; supplementary food plant list.
- 1934 OBSERVATIONS ON THE COCCIDAE OF FORMOSA. PART IV. *In* Formosa Govt. Res. Inst. Dept. Agr. Rpt. 63: 1-38, illus.
Describes 12 new species, 4 new varieties; notes on 12 other coccids; additional food plant records.
- 1935 OBSERVATIONS ON THE COCCIDAE OF FORMOSA, PART V. *In* Formosa Govt. Res. Inst. Dept. Agr. Rpt. 66: 1-37, illus.
Describes 1 new genus, 11 new species, 5 new varieties; 8 other coccids discussed; additional food plant list.
- 1935a SCALE INSECTS OF THE GENUS COCCOMYTIUS FROM FORMOSA. Formosa Nat. Hist. Soc. Trans. 25 (147): 444-447, illus.
C. kanei n. sp.; collection records for *C. dispar*.
- 1936 TWO INTERESTING SCALE INSECTS ATTACKING THE LAURACEAE IN FORMOSA (HEMIPTERA). Formosa Nat. Hist. Soc. Trans. 26 (149): 80-83, illus.
Aulacapsis phoebicola, *Gymnaspis cinnamomi* n. spp.; 38 other coccids listed from host family.
- 1936a SOME COCCIDAE FROM CHINA (HEMIPTERA). Peking Nat. Hist. Bul. 10: 217-222, illus.
Lecaniodiaspis cremastogastris var. *foochowensis*, n. var., *Tsukushiaspis sasae*, *Gymnaspis buxi*, n. spp.; collection notes on 4 other coccids.
- 1936b A NEW SCALE INSECT CAUSING GALLS IN FORMOSA (HOMOPTERA). Formosa Nat. Hist. Soc. Trans. 26 (158): 426-428, illus.
Dinaspis taiwana; 3 other coccids mentioned.
- 1936c SOME ALEYRODIDAE, APHIDIDAE, COCCIDAE (HOMOPTERA), AND THYSANOPTERA FROM MICRONESIA. *Tenthredo* 1: 109-120 (109-110, 115-118), illus.
List of 29 known coccids with collection data.
- 1936d SOME COCCIDAE FROM FORMOSA AND JAPAN (HOMOPTERA), I. *Mushi* 9: 1-8, illus.
Describes 3 new species, 1 new variety; notes on 2 common coccids.
- 1937 SOME COCCIDAE FROM FORMOSA AND JAPAN (HOMOPTERA), II. *Mushi* 9: 69-72.
Trionymus miscanthicola n. sp.; collection notes on *Kuwanaspis bambusae*, *Orthezia yasushii*.
- 1938 SOME COCCIDAE FROM FORMOSA AND JAPAN (HOMOPTERA), III. *Mushi* 11: 42-45.
Kuwanaspis arundinariae n. sp.
- 1938a SOME COCCIDAE FROM KOROR, THE PALAU ISLANDS (MICRONESIA). (In Japanese.) Formosa Nat. Hist. Soc. Trans. 28 (178): 263.
List of 5 coccids with collection data.
- 1938b TWO PARLATORIINI FROM INDIA (HEMIPTERA, COCCIDAE). *Roy. Ent. Soc., London, Proc. Ser. B*, 7: 271-272.
Cryptoparlatoria pini n. sp. and notes on *Parlatoria pseudopyri* Kuwana.
- 1939 DESCRIPTIONS OF THREE MALAYAN COCCIDAE (HEMIPTERA). Formosa Nat. Hist. Soc. Trans. 29: 111-118, illus.
Formicococcus corbetti, *Paralecanium milleri* n. spp.; redescription of *P. vacuum*.
- 1939a LIFE HISTORY AND CONTROL METHODS OF PULVINARIA POLYGONATA CKLL. (COCCIDAE). (In Japanese.) Formosan Agr. Rev. 35: 403-414.
English summary.

TAKAHASHI, R.—Continued.

- 1939b SOME ALEYRODIDAE, APHIDIDAE, AND COCCIDAE FROM MICRONESIA (HOMOPTERA). *Tenthredo* 2: 234-272 (238-272), illus.
Describes 8 new species, 1 new variety; collection data on 44 other coccids; list of 12 more reported but not in collections studied.
- 1939c SOME COCCIDAE FROM FORMOSA AND JAPAN (HOMOPTERA), IV. *Mushi* 12: 86-89.
Pseudococcus chiponensis n. sp.; notes on *Aonidiella inornata*, *Leucaspis hydrangeae*.
- 1939d TWO NEW DIASPINE COCCIDAE FROM INDIA AND THE PHILIPPINES (HEMIPTERA). *Tenthredo* 2: 339-343, illus.
Aonidia longispina, *Semelaspidus mangiferae*.
- 1939e A NEW SCALE INSECT ATTACKING LEMON IN FORMOSA. *Formosa Nat. Hist. Soc. Trans.* 29 (195): 314-316, illus.
Coccus kuraruensis.
- 1939f TWO NEW NONDIASPINE COCCIDAE FROM BORNEO AND MALAYA (HOMOPTERA). *Annot. Zool. Jap.* 18: 323-326, illus.
Ceroptastes milleri, *Phenacoccus nephelii*.
- 1940 SOME COCCIDAE FROM FORMOSA AND JAPAN (HOMOPTERA), V. *Mushi* 13: 18-28, illus.
Pseudococcus macarangae, *Phenacoccus fici*, *Pulvinaria neocellulosa*, n. spp.; notes on 5 other coccids.
- 1940a INSECTS OF THE STERNORRHYNCHA (HEMIPTERA) OF DAITO JIMA, THE LOOCHOO ISLANDS. (In Japanese.) *Formosa Nat. Hist. Soc. Trans.* 30 (203): 327-332 (330-332), illus.
List of 18 coccids with collection data.
- 1941 LACCIFERIDAE OF SIAM (HOMOPTERA). *Formosa Nat. Hist. Soc. Trans.* 31: 138-141, illus.
Laccifer siamensis n. sp.; 3 other lac coccids discussed.
- 1941a TWO NEW MYRMECOPHILOUS COCCIDAE FROM THAILAND. *Tenthredo* 3: 201-207, illus.
Allomyrmococcus acariformis n. gen. and sp., *Paramyrmococcus chiengraiensis* n. gen. and sp.
- 1941b SOME SPECIES OF ALEYRODIDAE, APHIDIDAE, AND COCCIDAE FROM MICRONESIA (HOMOPTERA). *Tenthredo* 3: 208-220 (213-220), illus.
Trionymus pandanicola n. sp.; collection data for 38 other coccids.
- 1941c DESCRIPTION OF A NEW PUTO FROM SAGHALIEN (COCCIDAE, HOMOPTERA). *Insecta Matsumurana* 15: 164-166.
P. kanoi.
- 1942 SOME COCCIDAE FROM MALAYA AND HONGKONG (HOMOPTERA). *Formosa Nat. Hist. Soc. Trans.* 32: 63-68, illus.
Phenacoccus eugeniae n. sp.; *Kuwanaspis hikosani hongkongensis*, *Ischanfiorinia bambusae malayana*, n. var.; collection data for 7 other coccids.
- 1942a IMMATURE STAGES AND METAMORPHOSIS OF THE LAC INSECT, LACCIFER LACCA KERR (HOMOPTERA). (Introduction in Japanese.) *Formosa Nat. Hist. Soc. Trans.* 32: 69-75, illus.
Description.
- 1942b SOME INJURIOUS INSECTS OF AGRICULTURAL PLANTS AND FOREST TREES IN THAILAND AND INDO-CHINA, II COCCIDE. *Formosa Govt. Agr. Res. Inst. Rpt.* 81, 56 p., illus.
Describes 4 new genera, 24 new species, 2 new varieties; collection data on 71 other coccids.
- 1942c A NEW SCALE INSECT FROM HAINAN (HOMOPTERA). *Dōbutugaku Zassi (Zool. Mag. (Tokyo))* 54: 500-501, illus.
Paralecanium hainanense n. sp.

TAKAHASHI, R.—Continued.

- 1942d SOME SPECIES OF ALEYRODIDAE, APHIDIDAE, AND COCCIDAE FROM MICRONESIA (HOMOPTERA). *Tenthredo* 3 (4): 349-358, illus. (Not seen). From Bernice P. Bishop Museum, *Insects of Micronesia*, v. 2, p. 46, 1955.
Includes *Lepidosaphes micronesiensis*, *Pseudococcus esakii*, n. spp.
- 1950 SOME SPECIES OF COCCIDAE FROM THE RIOUW ISLANDS—PART I. (HOMOPTERA). *Insecta Matsumurana* 17: 65-72, illus. (Cont.)
Malaicoccus n. gen., *M. riouwensis*, *Lecaniodiaspis greeni*, *L. morrisoni*, and *Paralecanium maculatum*, n. spp.; 7 other coccids also reported.
- 1950a PARALECANIUM AND PLATYLECANIUM FROM THE MALAY PENINSULA. (COCCIDAE, HOMOPTERA). *Kansai Ent. Soc. Trans.* 15 (2): 48-60, illus.
Describes 6 new species, notes on 5 others; keys to 8 *Paralecanium* and to 3 *Platylecanium* species.
- 1951 THREE NEW MYRMECOPHILOUS SCALE INSECTS FROM THE MALAY PENINSULA (HOMOPTERA). *Mushi* 22: 1-8 (reprint ?), illus.
Halococcus n. gen., *H. formicarii*, *Tylococcus carnosae*, *Malaicoccus formicarii*, n. spp.
- 1951a SOME MEALY BUGS (PSEUDOCOCCIDAE, HOMOPTERA) FROM THE MALAY PENINSULA. *Indian Jour. Ent.* 12 (1950): 1-22, illus.
List of 13 previously reported coccids; collection and descriptive information on 20 additional species, including 14 described as new.
- 1951b SOME SPECIES OF COCCIDAE FROM THE RIOUW ISLANDS—PART II. *Insecta Matsumurana* 17: 103-112, illus.
Describes 8 new species; *Aspidiotus destructor* also reported.
- 1952 SOME SPECIES OF NONDIASPINE SCALE INSECTS FROM THE MALAY PENINSULA. *Insecta Matsumurana* 18 (1/2): 9-17, illus.
Describes 5 new species; collection data on 22 other coccids. Notes on 24 additional described species.
- 1952a DESCRIPTIONS OF FIVE NEW SPECIES OF DIASPIDIDAE FROM JAPAN, WITH NOTES ON DIMORPHISM IN CHIONASPIS OR PHENACASPIS (COCCIDEA, HOMOPTERA). *Res. Inst. Nat. Resources, Misc. Rpts. No. 27*: 7-15, illus.
- 1953 DIMORPHISM IN SOME SPECIES OF CHIONASPIS OR PHENACASPIS. (DIASPIDIDAE, COCCOIDEA, HOMOPTERA). *Portici. Boll. del Lab. Zool. Gen. e Agr. "Filippo Silvestri,"* 33, p. 48-56, illus. (Reprint only seen.)
Discussion of 8 Japanese *Chionaspis*, including *enkianthi* n. sp. Key to 14 Japanese *Chionaspis*.
- 1955 PROTOPULVINARIA AND LUZULASPIS OF JAPAN (HOMOPTERA, COCCIDAE). *Annot. Zool. Jap.* 28: 35-39, illus.
Key to *Protopulvinaria* (3 species); *P. japonica* = *P. [L.] fukayai* (Kuw.); *P. agalmae* = *P. pyriformis* (Ckll.); *Luzulaspis caricis* n. sp.
- 1955a LECANIUM OF JAPAN (HOMOPTERA: COCCIDAE). *Shikoku Ent. Soc. Trans.* 4: 69-78, illus.
Lists 22 coccids previously assigned; key and descriptive notes for 7 species considered valid—*L. cerasorum* (misspelled as *cerosarum*) *L. corni*, *L. glandi*, *L. horii*, *L. kunoense*, *L. kuwanai*, *L. takachihoi*.
- 1955b NOTES ON THE COCCUS OF JAPAN (HOMOPTERA: COCCIDAE). *Shikoku Ent. Soc. Trans.* 4: 78.
C. hesperidum and *C. pseudomagnoliarum* differentiated.
- 1955c KEY TO THE GENERA OF COCCIDAE IN JAPAN, WITH DESCRIPTIONS OF TWO NEW GENERA AND A LITTLE-KNOWN SPECIES (HOMOPTERA). *Insecta Matsumurana* 19: 23-28, illus.
Key to 12 genera; *Parasaissetia*, *Metaceronema* n. gen.; *M. japonica* (Mask.) redescribed.
- 1955d PULVINARIA OF JAPAN (COCCIDAE, HOMOPTERA). *Kontyu* 23(4): 148-154, illus. (Cont.)
Key to 15 *Pulvinaria*; 2 new species, notes or redescrptions for 10 others.

TAKAHASHI, R.—Continued.

- 1955e LEPIDOSAPHESES OF JAPAN. (DIASPIDIDAE, COCCOIDEA, HOMOPTERA). Univ. Osaka Prefecture, Bul. (ser. B) 5: 67-78, illus.
Key, bibliography, and collection notes for 16 species; redescrptions for 6 species.

TAKAHASHI, R. and KANDA, S.

- 1939 A NEW GENUS AND SPECIES OF COCCIDAE FROM JAPAN (HEMIPTERA). Insecta Matsumurana 13: 52-55, illus.
Idiococcus bambusae.

- 1939a A NEW SPECIES OF COCCIDAE (HOMOPTERA) FROM COREA. Annot. Zool. Jap. 18: 185-187, illus.
Unaspis nakayamai.

TANAKA, K., see Kuwana, S. I., and Tanaka, K.

TARDO, S.

- 1951 INFESTAZIONE DI MYTILOCOCCUS GLOVERII PACK. NEGLI AGRUMETI DEL PALERMITANO. Palermo R. Giard. Colon. Bol. 19: 116-123, illus.
Redescription; notes on distribution, hosts, control.

TARGIONI TOZZETTI, A.

- 1863 NOTA SOPRA ALCUNI PARASITI DEL GELSO E DELL'OLIVO LETTA DAL SOCIO PROF. ADOLFO TARGIONI-TOZZETTI, NELL'ADUNANZA DELL 14 GIUGNO 1863. R. Accad. dei Georg. Atti (n. s.) 10: 354-359.

Mentions *Coccus cacti*, *ilicis*, *lacca*, *manniferus*, and *mori* in brief discussion; apparently first use of last name.

- 1866 COME CERTE COCCINIGLIE SIENO CAGIONE DI ALCUNE MELATE DELLE PIANTE, E DI ALCUNE RUGGINI; E COME LA COCCINIGLIA DEL FICO DIA IN ABBONDANZA UNA SPECIE DI CERA. R. Accad. dei Georg. Atti (n. s.) 13: 115-137; App. 138-146. Quoted, in part, in Rev. et Mag. de Zool. (ser. 2.) 19: 332-333, 1867. Material on classification also included in footnote to Sestini, F., (Su di una nuova qualita' di cera; nota) Il Nuovo Cimento (ser. 1) 25: 33-43, 1867.

Proposes *Pela cerifera* for *Coccus pela*, generic name *Columnea* [for *Ceroplastes*] and 4 new specific names in the 10 discussed in this genus.

- 1867 STUDI SULLE COCCINIGLIE. Soc. Ital. di Sci. Nat. Mem. 3 (3): 1-87, illus.

A study of coccid external and internal anatomy including embryology; most of the described coccid genera and many of the described species mentioned in the discussion; 4 new generic and 11 new specific names offered incidentally, most as substitutes for names already available.

- 1868 INTRODUZIONE ALLA SECONDA MEMORIA PER GLI STUDI SULLE COCCINIGLIE, E CATALOGO DEI GENERI E DELLE SPECIE DELLA FAMIGLIA DEI COCCIDI. Soc. Ital. di Sci. Nat. Atti. 11: 694-738. ["From the collateral evidence (e. g. see Signoret 1868: 842 et seq.), it seems certain that the Targioni 'Catalogue' was issued as an independently paged separate paper in the year 1868; from the available evidence it seems definite that the serial publication occurred in February 1869.]

A general discussion of coccid characters and classification with characterization of 4 tribes; a list of approximately 200 coccid names considered valid, including 15 generic names and about 66 specific names presented as new, with about 45 of the latter substitutes for names already available.

- 1869 SOPRA DUE GENERI DI COCCINIGLIE (COCCIDAE). Soc. Ent. Ital. Bul. 1: 257-267, illus.

Lecaniodiaspis sardoa n. gen. and sp., *Pollinia costae* n. gen. and sp.

- 1876 [MYTILASPIS FLAVESCENS SP. N., ON ORANGE AND CITRON, ITALY. (?=M. ANGUINUS BOISD.)] [Italy] Min. di Agr., Indus. e Com., Ann. di Agr., 1876, p. 36 (p. 84 in Fernald Catalog), illus. (Not seen.)

- 1877 MYXOLECANIUM KIBARAE BECCARI (LECANITI). Soc. Ent. Ital. Bul. 9: 317-320, illus.

Apparently genus and species actually credited to Targioni.

TARGIONI TOZZETTI, A.—Continued.

- 1879 [DIASPIS BLANKENHORNII.] Soc. Ent. Bul. 1879 (Resoconti delle adunanze del di 8 Giugno 1879), p. 17, 32.
Describes female on p. 17, gives name on p. 32; 2 other coccids mentioned.
- 1879a RELAZIONE INTORNO AI LAVORI DELLA R. STAZIONE DI ENTOMOLOGIA AGRARIA DI FIRENZE PER GLI ANNI 1877-1878. PARTE STORICA. COMUNICAZIONI. In [Italy] Min. d'Agr., Indus. e Com., Ann. di Agr. 1879 (No. 9), p. 8-75 (8-9, 17-18, 25-26, 46-47, 51-52, 56).
Name *Aspidiotus robiniae* presented.
- 1881 RELAZIONE INTORNO AI LAVORI DELLA R. STAZIONE DI ENTOMOLOGIA AGRARIA DI FIRENZE PER GLI ANNI 1877-78. PARTE SCIENTIFICA. FAM. COCCIDI. In [Italy] Min. d'Agr., Indus. e Com., Ann. di Agr. 1881 (no. 34), p. 134-161, illus.
Brief review of characters of some coccid groups and genera; 4 new specific names presented.
- 1884 RELAZIONE INTORNO AI LAVORI DELLA R. STAZIONE DI ENTOMOLOGIA AGRARIA DI FIRENZE PER GLI ANNI 1879-80-81-82. ARTICLE V.—OMOTTERI. In [Italy] Min. di Agr. Indus. e Com., Ann. di Agr. 1884 (Nos. 86-89), p. 383-414, illus.
Discusses or describes 23 coccids including *Pulvinaria linearis* n. sp.; lists 12 useful coccids; proposes *Kerria* in place of *Carteria*.
- 1885 NOTE SOPRA ALCUNE COCCINIGLIE (COCCIDEI). Soc. Ent. Ital. Bul. 17: 100-120, illus.
Summary of papers by Comstock, Colvée, Blanchard; repeats substitution of *Kerria* for *Carteria* and description of *Pulvinaria linearis* n. sp.
- 1886 SULL'INSETTO CHE DANNEGGIA I GELSI. Riv. di Bachicoltura 18 (1885): 1-3 (reprint page numbers; original not seen.) Also in Soc. Ent. Ital. Bul. 19: 184-186.
Diaspis pentagona [n. sp.] injurious to mulberry.
- 1888 RELAZIONE INTORNO AI LAVORI DELLA R. STAZIONE DI ENTOMOLOGIA AGRARIA DI FIRENZE PER GLI ANNI 1883-84-85. ARTICLE VI. ORD. ETERTOTTERI-OMOTTERI. HEMIPTERA, 1. PARS, RHYNGOTA, F., RHYNCOTA, FIEB. (SOTTORD. COCCIDI). In [Italy] Min. di Agr. Indus. e Com., Ann. di Agr., 1888 (Nos. 145-146), p. 415-437, illus.
Discusses 10 coccids, including *Aspidiotus euonymi*, *Aonidia ilicicola*, *Dactylopius farnesiana* n. spp.
- 1892 AONIDIA BLANCHARDI, NOUVELLE ESPÈCE DE COCHENILLE DU DATTIER DU SAHARA. Soc. Zool. de France, Mem.-5: 69-82, illus. Also in Soc. Ent. Ital. Bul. 24: 170-188, illus.
Several other coccids compared.
- 1893 COCCINIGLIE NUOVE, CRITICHE O POCO NOTE. Soc. Ent. Ital. Bul. 24 (1892): 285-312, illus.
Detailed descriptive notes on *Asterolecanium ilicicola*, *A. massalongianum* n. sp., *A. aureum*.
- 1893a [DESCRIPTION OF GASCARDIA MADAGASCARIENSIS N. GEN. AND SP.] In A. Gascard, Contribution a l'étude des gommages laques des Indes & de Madagascar, Paris, Soc. Ed. Sci., 124 p. illus. (col.). Also in Soc. Ent. Ital. Bul. 26 (1894): 457-464 [pub. Feb. 1895].

TARGIONI TOZZETTI, A., and FRANCESCHINI, F.

- 1890 LA NUOVA COCCINIGLIA DEI GELSIE. FAM. COCCIDAE. TRIB. DIASPINI. DIASPIS PENTAGONA TARG. Soc. Ent. Ital. Bul. 21 (1889): 57-68, illus.
A detailed description.

TARSIA IN CURIA, I.

- 1938 LA SIMBIOSI NEI COCCIDI. Arch. Zool. Torino Ital. 25 (sup.) (Attualità Zool. v. 4): 1-33, illus.
Summary of published work on coccid symbionts.

TAYLOR, E. P.

- 1907 THE HOWARD SCALE. Colo. Agr. Col. Agr. Expt. Sta. Bul. 120, 19 p., illus.
Aspidiotus howardi Ckll.; description, life history, damage, control.

TEAGUE, M. M.

- 1925 A REVIEW OF THE GENUS ACLERDA (HEMIPTERA; COCCIDOIDEA). Ent. Soc.
Amer. Ann. 18: 432-441, illus.
Key and descriptions for 9 *Aclerda*, including *holci* and *sacchari* n. spp.

TELLA, R. DE

- 1953 OBSERVAÇÕES SOBRE A BIOLOGIA DO PSEUDOCOCCUS MARITIMUS (EHRHORN,
1900). Bragantia 12 (1952): 337-342, illus.
English summary.

TEODORO, G.

- 1911 LE GLANDULE CERIPARE DELLA FEMMINA DELLA PULVINARIA CAMELICOLA
SIGN. Redia 7: 172-182, illus.
Histology of the wax-producing glands.
- 1911a LA SECREZIONE DELLA CERA NEI MASCHI DELLA PULVINARIA CAMELICOLA
SIGN. Redia 7: 352-362, illus.
Includes histological description of glands involved.
- 1912 RICERCHE SULL' EMOLINFA DEI LECANINI. Accad. Sci., Veneto-Trentino-
Istriana, Atti 5: 72-84, illus. (Not seen).
- 1912a LA GLANDULE LACCIPARE E CERIPARE DEL LECANIUM OLEAE BERN. Redia
8: 312-320, illus.
Detailed description.
- 1913 SULLA STRUTTURA DELLE VALVE ANALI DEL "LECANIUM OLEAE" BERN.
Redia 8 (1912): 458-461, illus.
- 1913a SUL SISTEMA TRACHEALE DEI LECANITI. Redia 9: 215-225, illus.
Detailed description for *Pulvinaria camelicola*.
- 1914 SUI TUBI MALPIGHIANI DEL LECANINI. Redia 10 (1915): 15-19, illus.
Description of structure with particular reference to 4 lecanines.
- 1915 OSSERVAZIONI SULLA ECOLOGIA DELLA COCCINIGLIE CON SPECIALE RIGUARDO
ALLA MORFOLOGIA E ALLA FISIOLOGIA DI QUESTI INSETTI. Redia 11
(1916): 129-209, illus.
Studies based on material of 13 coccids; embryology and internal
anatomy discussed.
- 1916 ALCUNE OSSERVAZIONI SULLE COCCINIGLIE. Accad. Sci. Veneto-Trentino-
Istriana, Atti (ser. 3) 8 (1915): 147-149.
Brief discussion of the kind of development found in coccids; 2 species
mentioned.
- 1917 ALCUNE OSSERVAZIONI SUI SACCAROMICETI DEL "LECANIUM PERSICAE"
FAB. Redia 13 (1918): 1-5.
- 1919 CELLULE IPOSTIGMATICHE E CELLULE CERIPARE LIBERE NEL LECANIUM
PERSICAE FAB. Soc. Ent. Ital. Bul. 50 (1918): 23-27.
- 1920 SULLA EMBRIOLOGIA DELLE COCCINIGLIE. Redia 14 (1921): 137-141.
Discussion of some points in coccid-embryology.
- 1921 LE GLANDULE CERIPARE DEL "CEROPLASTES SINENSIS" DEL GUER. E CON-
SIDERAZIONI GENERALI SU TALI ORGANI NEI COCCIDI. Soc. Ent. Ital. Bul.
53: 37-41.
- 1923 COCCIDOLOGICA V-VI (V. SISTEMA MUSCOLARE DEI LECANITI.) (VI.—LE
GLANDOLE CERIPARE DELLA "FILIPPICA OLEAE".) Redia 15 (1924):
177-179.
- 1926 CONSIDERAZIONI SULLE COCCINIGLIE PARASSITE E LORO PIANTE NUTRICI.
Riv. di Biol. (Milan) 8: 631-637.
Discussion of the relationships between coccid groups and their host-
plant families.

TEODORO, G.—Continued.

- 1928 COCCIDOLOGICA IX-X. Accad. Sci. Veneto-Trentino-Istria, Atti (ser. 3) 18 (1927): 10-13.
IX. A list, with notes, of 19 coccids collected in the Dodecanese Islands.
X. Brief comment on the general host relations of coccids.
- 1930 SUI DISCHI CERIPARI PERIVULVARI DEI DIASPITI E SULLA VARIABILITÀ DEL LORO NUMERO. Bol. Zool. Napoli 1: 69-73.
A study of the variation in the perivulvar pores of *Chionaspis euonymi*.
- 1935 SULLA FAUNA COCCIDOLOGICA DELLE ISOLE DEL DODECANNESO. Bol. Zool. [Torino] 6: 187-189.
Reports 16 common coccids from these islands.

TEPPER, J. G. O.

- 1893 DESCRIPTIONS OF SOUTH AUSTRALIAN BRACHYSCELID GALLS. Roy. Soc. So. Austral. Trans. 17: 265-280, illus.
Key to 6 genera included by author in Brachyscelidae list of 22 *Brachyscelis* galls, including 10 n. spp. names, of which 9 are described; *Ascelis* (?) *multitudinea* n. sp. [a psyllid].

THEODOR, O., see Bodenheimer, F. S., and Theodor, O.

THIÉBAUT DE BERNEAUD, A.

- 1825 DESCRIPTION D'UNE NOUVELLE ESPÈCE DE DORTHÉSIA EXISTANTE AUX ENVIRONS DE PARIS. Soc. Linn. de Paris Mém. 3: 285-292, illus.
D. delavauxii.

THIEM, H.

- 1931 EINE ROTE KOMMASCHILDLAUS DER DEUTSCHEN COCCIDENFAUNA (LEPIDOSAPHES RUBRI N. SP.) Gartenbauwissenschaft, 5: 557-567, illus.
- 1933 BEITRAG ZUR PARTHENOGENESE UND PHÄNOLOGIE DER GESCHLECHTER VON EULECANIUM CORNI BOUCHÉ (COCCIDAE). Ztschr. f. Morph. u. Ökol. der Tiere 27: 294-324.
A detailed study of the biology, with special reference to conflicting claims of parthenogenetic and sexual reproduction.
- 1933a UEBER EIN- UND ZWEIFACHSCHLECHTLICHE KOMMASCHILDLÄUSE (LEPIDOSAPHES ULMI UNISEXUALIS UND BISEXUALIS, L. RUBRI UND L. NEWSTEADI) DER DEUTSCHEN COCCIDENFAUNA. Ztschr. f. Pflanzenkrank. 43: 638-657.
- 1934 PHÄNOGRAPHISCHES ZUR MASSENVERBREITUNG VON SCHILDLÄUSEN. Ent. Beihefte aus Berlin-Dahlem 1: 90-95, illus.
Believes heavy infestations of native coccids (9 mentioned) point to weakened host trees.

THIEM, H., and GERNECK, R.

- 1934 VERBREITUNG, ENTWICKLUNG UND BESTIMMUNG DER BISHER IN DEUTSCHLAND AUFGEFUNDENEN AUSTERNSCHILDLÄUSE (ASPIDIOTINI) UNTER EINSCHLUSS DER ROTEN AUSTERNSCHILDLAUS (EPIDIASPIS BETULAE) UND DER SAN JOSÉ-SCHILDLAUS (ASPIDIOTUS PERNICIOSUS). Ztschr. f. Pflanzenkrank. 44: 529-555, illus.
A study of the characters, host associations, biology, of 12 German diaspine coccids; keys to different female stages.
- 1934a UNTERSUCHUNGEN AN DEUTSCHEN AUSTERNSCHILDLÄUSEN (ASPIDIOTINI) IM VERGLEICH MIT DER SAN JOSÉ-SCHILDLAUS (ASPIDIOTUS PERNICIOSUS COMST.) Arb. über Physiol. u. Angew. Ent. 1: 130-158; 208-238, illus. [Abstract in Ztschr. f. Pflanzenkrank. 45: 570, 1935.]
A very detailed, critical study of the pygidial characters and classification of 12 German aspidiotine coccids; several new groups and new generic names proposed.

THIERY DE MENONVILLE, N. J.

- 1787 TRAITÉ DE LA CULTURE DU NOPAL, ET DE L'ÉDUCATION DE LA COCHENILLE DANS LES COLONIES FRANCAISES DE L'AMÉRIQUE; PRÉCÉDÉ D'UN VOYAGE A GUAXACA. CAP-FRANCAIS, HERBAULT. cxliv, 436, 94 p. (sup.) (xxii (footnote) xxiv-xxv, xxviii, xlv, lvi, lxxii, lxxv-lxxvi, cxxix-cxlv; 286-289, 334-335, 342, 343, 347-425.)

Detailed description of observations on cochineal culture in Mexico; mention of *Coccus hesperidum*, *C. avenidum* [*adonidum*] and others; descriptions of "cochenille silvestris" and "cochenille fine" but not under scientific names.

THOMAS, C.

- 1878 THE MAPLE-TREE BARK LOUSE.—LECANIUM ACERICOLA—WALSH & RILEY. Noxious and beneficial insects of State of Ill., State Ent. Rpt. 7: 120-131, illus.
Life history details.

THOMPSON, W. L., and GRIFFITHS, J. T., Jr.

- 1949 PURPLE SCALE AND FLORIDA RED SCALE AS INSECT PESTS OF CITRUS IN FLORIDA. Fla. Agr. Expt. Sta. Bul. 462, 40 p., illus.
Includes descriptive and life-history information, enemies, control.

See also Griffiths, J. T., Jr., and Thompson, W. L.

THOMSEN, M.

- 1927 STUDIUM ÜBER DIE PARTHENOGENESE BEI EINIGEN COCCIDEN UND ALEURODIDEN. Ztschr. f. Zellforsch. u. Mikros. Anat. 5: 1-116, (1-46), illus.
A detailed study of the condition found in *Lecanium hesperidum*.
1929 SEX-DETERMINATION IN LECANIUM. Internatl. Cong. Ent. 4, Ithaca, Trans. 2: 18-24, illus.
Discusses *L. hesperidum*; mentions *L. coryli*, *L. hemisphaericum*.

THORPE, W. H.

- 1930 BIOLOGICAL RACES IN INSECTS AND ALLIED GROUPS. Cambridge Phil. Soc. Biol. Rev. 5: 177-212 (195-196, 202-203).
Review of information now available; *Dactylopius tomentosus*, *Chrysomphalus aurantii*, *Aspidiotus perniciosus* mentioned in discussion.
1940 A DESCRIPTION OF TWO NEW SPECIES OF THE GENUS ASPIDOPROCTUS (COCCIDAE, MARGARODIDAE) FROM TROPICAL AFRICA. Roy. Ent. Soc. London, Proc. (Ser. B) 9: 165-171, illus.
A. bifurcatus, *A. magnicornis*.

THRO, W. C.

- 1903 DISTINCTIVE CHARACTERISTICS OF THE SPECIES OF THE GENUS LECANIUM. Cornell Univ. Agr. Expt. Sta. Bul. 209: 205-221, illus.
A discussion of characters in *Lecanium*; descriptions of 12 lecanine coccids, including 3 new species.

TIENSUU, L.

- 1951 NOTES ON THE SMALLREED COCCID, ERIOPELTIS LICHTENSTEINI SIGN. (HEM., COCCOIDEA, LECANOIDAE) AND ITS NATURAL ENEMIES IN FINLAND. Ann. Ent. Fennici 17: 3-10, illus.
Distribution, life history, enemies.

TINSLEY, J. D.

- 1898 TWO NEW SPECIES OF ORTHEZIA. Canad. Ent. 30: 12-14, illus.
O. cheilanthi, *O. graminis*.
1898a AN ANTS'-NEST COCCID FROM NEW MEXICO. Canad. Ent. 30: 47-48, illus.
Phenacoccus solenopsis n. sp.
1898b SOME NEW SPECIES OF COCCIDAE. Canad. Ent. 30: 220-224, illus.
Dactylopius quaintancii and *Phenacoccus minimus* n. spp.; note on synonymy of *D. ceriferus*.
1898c NOTES ON COCCIDAE, WITH DESCRIPTIONS OF NEW SPECIES. Canad. Ent. 30: 317-320, illus.
Dactylopius kingii neo-mexicana n. var., *D. azaleae* n. sp.; descriptive notes on *Eriococcus tinsleyi* and *Phenacoccus solenopsis*.

TINSLEY, J. D.—Continued.

1899 CONTRIBUTIONS TO COCCIDOLOGY.—I. Canad. Ent. 31: 45-47.
Descriptive notes on *Dactylopius sorghiellus*; *Eriococcus gillettei* n. sp.

1900 CONTRIBUTIONS TO COCCIDOLOGY.—II. Canad. Ent. 32: 64-67.
Notes on *Dactylopius filamentosus*, *D. farnesianae*; *D. texensis*,
Ripersia serrata, n. spp.

TINSLEY, J. D., and KING, G. B.

1899 THE TENTH ANTS'-NEST SPECIES OF COCCID FROM MASSACHUSETTS. Ent.
News 10: 57, illus.
Ripersia minimus n. sp.

See also Cockerell, T. D. A. and Tinsley, J. D.; King, G. B., and Tinsley, J. D.

TITSCHACK, E., see Lindinger, L. 1942

TOLEDO, A. A., DE

1940 NOTAS SOBRE A BIOLOGIA DO "CHRYSOMPHALUS AONIDUM L., 1758"
(HOMOPTERA) NO ESTADO DE S. PAULO—BRASIL. Inst. Biol. Arq. [Sao
Paulo] 11: 559-578, illus.
English abstract.

TOWNSEND, C. H. T.

1892 SCALE INSECTS IN NEW MEXICO. N. Mex. Agr. Expt. Sta. Bul. 7, 23 p.,
illus.

Includes brief descriptive notes on 9 coccids, including *Aspidiotus* n.
sp. [*coloratus*] and *Lecaniodiaspis yuccae* Riley ms. [=Townsend n.
sp.], enemies, control.

1892a NOTES ON TWO MEXICAN SPECIES OF CEROPLASTES, WITH A RECORD OF
PARASITES REARED FROM ONE. Zoe 3: 255-257.

C. dugesii "Licht." [=Townsend n. sp.], *C. sp.* (= *psidii cistudiformis*
Cocker., *ibid.* 4: 104-105.)

1896 REPORT OF A TRIP TO INVESTIGATE INSECTS OF ECONOMIC IMPORTANCE IN
MEXICO. U. S. Dept. Agr. Div. Ent. Tech. Ser. 4: 9-25.

Report on 28 coccid species collected, coccid host list, previous reports
of Mexican coccids.

1897 LOCALITY AND FOOD PLANT CATALOGUE OF MEXICAN COCCIDAE. N. Y. Ent.
Soc. Jour. 5: 178-190.

List of 80 coccids with host, locality, and other notes.

TOWNSEND, C. H. T., and COCKERELL, T. D. A.

1898 COCCIDAE COLLECTED IN MEXICO BY MESSRS. TOWNSEND AND KOEBELE IN
1897. N. Y. Ent. Soc. Jour. 6: 165-180.

Describes 14 new species, 1 new variety; notes on 9 other coccids.

TOYODA, T., see Kuwana, I., and Toyoda, T.

TRABUT, L.

1911 CATALOGUE DES COCHENILLES OBSERVÉES EN ALGÉRIE. Soc. d'Hist. Nat. de
l'Afrique du Nord. Bul. 3: 51-64, illus.

List of 81 coccids, some illustrated, with collection data.

TRIMBLE, F. M.

1928 SCALE INSECTS OF PENNSYLVANIA (HOMOP.: COCCIDAE). Ent. News 39:
42-47.

Lists 112 coccids and their host plants.

TRUJILLO PELUFFO, A.

1928 MARGARODES VITIUM GIARD, COCHINILLA PERJUDICIAL A LA VID EN EL
URUGUAY. Montevideo Univ., Facult. de Agron. Rev. No. 1: 75-83,
illus.

Descriptive and biological information.

TSCHUDI, A.

1924 XYLOCOCCUS FILIFER, EINE WENIG BEKANNTTE SCHILDLAUS AUF TILIA.
Schweiz. Ztschr. f. Forstw. 75: 253-257, illus.

Life history notes on linden.

TUCKER, R. W. E.

1952 THE INSECTS OF BARBADOS. Puerto Rico Univ. Jour. Agr. 36: 330-363 (337-338).

Lists 21 coccids with host data.

TULLGREN, A.

1906 OM SKÖDLÖSS. Ent. Tidskr. 27: 69-95, illus.

General discussion; annotated list of 18 Swedish coccids; synonymy of some older names indicated.

1906a NOTISER RÖRANDE SKÖDLÖSS. Ent. Tidskr. 27: 158.

Reports 4 coccids, 2 not in previous Swedish list.

TURTON, W.

1802 A GENERAL SYSTEM OF NATURE, THROUGH THE THREE GRAND KINGDOMS OF ANIMALS, VEGETABLES, AND MINERALS . . . BY SIR CHARLES LINNÉ. TRANSLATED FROM GMELIN'S EDITION. Animal Kingdom v. 2, Insects pt. 1, 717 p. (712-716).

Presents 46 described *Coccus* and *C. ovatus* [Turton].

TYRELL, M. W.

1896 THE LECANIUMS OF CALIFORNIA. Calif. Agr. Expt. Sta. Ann. Rpt. 1894-95: 262-270, illus.

A study of the characteristics of 6 coccids, with keys.

UICHANCO, L. B.

1935 TOLERANCE OF MEALYBUGS TO DRYING OF HOST TISSUE. Philippine Agr. 23: 886-890, illus.

Observations on longevity and reproductive capacity of 2 mealybugs on desiccating plant material.

UICHANGO, L. B., and VILLANUEVA, F. E.

1932 BIOLOGY OF THE PINK MEALYBUG OF SUGAR CANE, TRIONYMUS SACCHARI (COCKERELL), IN THE PHILIPPINES. Philippine Agr. 21: 205-276, illus.

Detailed descriptive and life-history information; distribution for world; enemies, control.

UWAGAWA, M., see Ishihara, T., and Uwagawa, M.

VALLOT, J. N.

1829 NOUVELLE ESPÈCES DE COCHENILLES. Acad. des Sci., Arts et Belles-lettres de Dijon, Compt. Rend. (1828-1829): 30-33. Reviewed in Bul. des Sci. Nat. et de Géol. 22: 469-470.

Coccus mesembryanthemi: supposed to be source for *C. [Aspidiotus] hederæ* but no such name appears in paper.

VAYSSIÈRE, P.

1912 DEUX COCCIDES NOUVEAUX DE L'AFRIQUE OCCIDENTALE. Soc. Ent. de France Bul. 17: 366-368, illus.

Pseudococcus marchali, *Chionaspis nigerensis*, n. spp.

1913 NOTE SUR LES COCCIDES DE L'AFRIQUE OCCIDENTALE. Ann. du Serv. des Epiphyt. 1: 424-432, illus.

Lophococcus vuilleti n. sp., 4 other coccids discussed; adds list of 73 described coccids from area, with collection data for each.

1913a COCHENILLES NOUVELLES DE L'AFRIQUE FRANCAISE. Rev. de Phytopath. Appl. 1: 124.

Mytilaspis (Cocomytilus) dispar; *Diaspis taxicola*.

1914 UN LACHNODIUS NOUVEAU DE MADAGASCAR [HEM. COCCIDAE.] Soc. Ent. de France Bul. 1914, No. 5: 156-157.

L. greeni.

1914a NOTE SUR QUELQUES COCCIDES NOUVEAUX OU PEU CONNUS. Soc. Ent. de France Bul. 1914, No. 7: 206-208, illus.

Diaspis senegalensis, *Aspidiotus (Hemiberlesia) provincialis* n. spp.; collection notes on 5 other coccids.

VAYSSIÈRE, P.—Continued.

- 1914b TROIS NOUVELLES MONOPHLEBINES DANS LA COLLECTION DU MUSEUM NATIONAL D'HISTOIRE NATURELLE. Soc. Ent. de France Bul. 1914, No. 10: 333-336.
Aspidoproctus bouvieri, *A. serrei*, *Monophlebus dugesi* n. spp.
- 1915 NOTE SUR QUELQUES COCCIDES REÇUES A LA STATION ENTOMOLOGIQUE DE PARIS EN 1913. Ann. du Serv. des Épiphyt. 2: 288-301, illus.
Descriptive and distributional information on 12 coccids; key to 4 *Lachnodius*.
- 1920 LES INSECTS NUISIBLES AUX CULTURES DU MAROC (2^e NOTE). Soc. Ent. de France Bul. 15: 256-259.
Aspidiotus (Aonidiella) maleti, *Margarodes parieli* n. spp.; collection notes on 14 other coccids.
- 1921 LES INSECTES NUISIBLES AUX CULTURES DU MAROC. Ann. des Epiphyt. 7: 339-370, illus.
Repetition and expansion of article with same title in Soc. Ent. France Bul. 15: 256-259, 1920.
- 1923 UN NOUVEAU COCCIDE (HEM.) DE LA FAUNE AFRICAINE. Soc. Ent. de France Bull. 11/12: 152-155, illus.
Phenacoccus peyerimhoffi n. sp.
- 1923a NOTE PRÉLIMINAIRE SUR LES MONOPHLEBINAE (HEMIPTÈRES-COCCIDES). DÉTERMINATION DES GENRES. Ann. des Épiphyt. 9: 410-429, illus.
Discusses classification and gives key to 16 genera, including *Marchalina* n. gen.
- 1924 TROIS NOUVEAUX COCCIDES DE L'AFRIQUE FRANCAISE (HEM.) Soc. Ent. de France Bul. 2: 28-32, illus.
Orthezia arenariae, *Monophlebus suaedae*, *Aspidoproctus mimeuri*.
- 1926 CONTRIBUTION A L'ÉTUDE BIOLOGIQUE ET SYSTÉMATIQUE DES COCCIDAE. Ann. des Épiphyt. 12: 187-382, illus.
I. An extended study of the subfamily Monophlebinae with characterizations and keys to 16 genera, including 131 coccids, of which 7 are new species and 34 are redescribed. II. A review of coccid biogeography.
- 1927 SUR QUELQUES COCCIDAE [HEM.] DE L'AFRIQUE DU NORD. Soc. Ent. de France Bul. 6: 107-111, illus.
Monophlebus suedae halocnema n. var.; *Cerococcus dumonti*, *Phenacoccus seurati*, *P. subericola*, n. spp.; collection data for 9 other coccids.
- 1929 NOTE COMPLÉMENTAIRE SUR LES COCCIDES MONOPHLÉBOIDES. Internatl. Cong. Ent., 4, Ithaca, Trans. 2: 81-86, illus.
Descriptive comment on 5 species.
- 1931 QUELQUES OBSERVATIONS SUR LES COCCIDES DES RÉGIONS AUSTRALIENNES. Soc. de Biogeog. [Paris] Compt. Rend. 8: 57-59.
Mentions 10 coccids in discussion.
- 1932 MONOPHLEBINES ET PSEUDOCOCCINES DE L'AFRIQUE DU NORD. HEM. COCCIDAE. Soc. Ent. de France Bul. 37: 24-28, illus.
Monophlebus dumonti, *M. hoggarensis*, *Phenacoccus subdeserticus*, n. spp.; collection note on 1 other coccid.
- 1933 UNE COCHENILLE HALOPHILE EN TUNISIE. Soc. Ent. de France Bul. 38: 57-59, illus.
Ripersia salsolae n. sp.
- 1934 MONOPHLEBINES ET PSEUDOCOCCINES DU HOGGAR. [HEM. COCCIDAE.] Soc. d'Hist. Nat. de l'Afrique du Nord, Mem. 4: 158-164, illus.
Additional descriptive information on *Monophlebus hoggarensis*, *Phenacoccus subdeserticus*.
- 1936 TROIS NOUVEAUX STICTOCOCCUS [HEM. COCCIDAE]. Soc. Ent. de France Bul. 40 (1935): 282-287, illus.
S. aliberti, *S. hargreavesi*, *S. olivaceus*.

VAYSSIÈRE, P.—Continued.

1936a REMARQUES SUR LA MORPHOLOGIE ET LA BIOGEOGRAPHIE DES STICTOCOC-
CINAE. (HEMIPT. COCCIDAE). *In* Livre Jubilaire de M. Eugène-Louis
Bouvier p. 349-356, illus.

List of 10 coccids included, with host and locality; notes on mor-
phology and distribution.

1939 UN NOUVEAU GENRE DE COCHENILLE À PANAMA. *Soc. Ent. de France Bul.*
44: 124-127, illus.

Nautococcus schraderae n. gen. and sp.

1946 UN CEROCOCCUS NOUVEAU NUISIBLE AU CAFÉIER AU CONGO BELGE. *Rev.*
de Zool. et de Bot. Africaines 39: 376-380, illus.

C. coffeae.

See also Seabra, A. F. de, and Vayssière, P.

VAYSSIÈRE, P., and HUGHES-SCHRADER, S.

1948 ÉTUDE MORPHOLOGIQUE ET BIOLOGIQUE NAUTOCOCCUS SCHRADERAE VAYSS.
(COCCOIDEA-MARGARODIDAE). *Paris Mus. Nat. d'Hist. Nat. Mem.*
(n.s.) 26: 57-74, illus.

Descriptive details, life history notes, comment on relationships.

VEITCH, R. and GREENWOOD, W.

1921 THE FOOD PLANTS OF HOSTS OF SOME FIJIAN INSECTS. *Linn. Soc. N. S.*
Wales, Proc. 46: 505-517 (514-515).

Lists 17 coccids with hosts.

1924 THE FOOD PLANTS OR HOSTS OF SOME FIJIAN INSECTS. PART II. *Linn. Soc.*
N. S. Wales, Proc. 149: 153-161.

Lists 16 coccids with hosts.

VEJDOVSKY, F.

1907 BEMERKUNGEN ZUM AUFSATZE DES HERRN DR. K. SULC ÜBER KERMINCOLA
KERMESINA ETC. *K. Böhm. Gesell. der Wiss. Sitzber.* 1906, No. 20:
6-12, illus.

VENABLES, E. P.

1939 THE SCALE INSECTS OF BRITISH COLUMBIA. *Ent. Soc. Brit. Columbia*
Proc. 35 (1938): 23-24.

Lists 14 coccids with host and locality data.

VENKATRAMAN, T. V.

1941 OBSERVATIONS ON THE BIOLOGY OF SOME SOUTH INDIAN COCCIDS. *Bombay*
Nat. Hist. Soc. Jour. 42: 847-853, illus.

Descriptive accounts and life histories of *Pulvinaria durantae* var. nov.,
Ceronema koebeleii, and *Lecanopsis ceylonica*. First record of *L. cey-*
lonica from India.

VERNALHA, M. M.

1953(?) NOTA SOBRE O GENERO VINCULASPIS FERRIS. *Arq. de Biol. e Tecnol.*
(Brazil) 8: 109-110.

Proposes inclusion of 7 North and South American coccids, described
under other genera, in this genus.

1953(?)a COCCÍDEOS DA COLECAO I.B.P.T.-[INST. DE BIOL. E PESQUISAS TECNOL.]
Arq. de Biol. e Tecnol. (Brazil) 8: 111-304.

Catalog of 132 Brazilian coccids and about 195 non-Brazilian coccids in
collection; extensive bibliography [some minor typographical errors in
names, localities].

VIALA, P., see Mangin, L., and Viala, P.

VILAR, J. M. DOS SANTOS

1951 SUBSÍDIOS PARA O ESTUDO DOS CEROPLASTES SPP. (INSECTA-COCCIDAE) DE
PORTUGAL. *Brotéria* 20: 111-136; 177-188, illus. (Cont.)

First part of a detailed study of the anatomy and biology of *C. rusci*
and *sinensis*.

VILAR, J. M. DOS SANTOS—Continued.

- 1952 SUBSÍDIOS PARA O ESTUDO DOS CEROPLASTES SPP. (INSECTA-COCCIDAE) DE PORTUGAL. (CONTINUAÇÃO) Brotéria 21: 1-62, illus. (Concl.)
Conclusion of a detailed study of *C. rusci* and *sinensis*.

VILLANUEVA, F. E., see Uichanco, L. B., and Villanueva, F. E.

VISART, O.

- 1894 CONTRIBUZIONE ALLO STUDIO DELLE GLANDULE CERIPARE DELLE COCCINIGLIE (DACTYLOPIUS CITRI RISSO E CEROPLASTES RUSCI). Riv. di Pathol. Veg. 3: 39-48, illus.
Histological description of wax ducts.

- 1895 CONTRIBUZIONE ALLA CONOSCENZA DELLE GLANDULE CERIPARE NEGLI AFIDI E NELLE COCCINIGLIE. (SCHIZONEURA LANIGERA HAUSSM., APHIS BRASSICAE L., DACTYLOPIUS CITRI RISSO). Soc. di Nat. in Napoli Bol. (ser. 1) 8 (1894): 112-116, illus.
Includes description of wax glands of *D. citri*.

VOLLENHOVEN, S. C. SNELLEN VAN, see Graaf, H. W. de, Six, G. A., and Vollenhoven, S. C. Snellen van

Vos, H. C. C. A. A.

- 1930 DE INVLOED VAN PSEUDOCOCCUS CITRI (RISSO) FERN. OP DE PLANT. Baarn. Hollandia 81 p., illus.
Development, beak penetration, effect on plant.

VOUKASSOVITCH, H., and VOUKASSOVITCH, P.

- 1931 SUR LA MORTALITÉ DE LA COCHENILLE LECANIUM CORNI L. Soc. de Biol. [Paris] Compt. Rend. 106: 691-694.
Observations on the mortality under various conditions.

VOUKASSOVITCH, P.

- 1930 SUR LA POLYPHAGIE DE LA COCHENILLE LECANIUM CORNI L. Soc. de Biol. [Belgrade] Compt. Rend. 104: 1065-1067.
Discusses observations on natural infestation and results of larval transfers to various hosts.

- 1930a SUR CERTAINES VARIATIONS DANS LE COMPORTEMENT DE LA COCHENILLE, LECANIUM CORNI L. Soc. de Biol. [Belgrade] Compt. Rend. 104: 1068-1070.

VOYLE, J.

- 1884 REPORT ON THE EFFECTS OF COLD UPON THE SCALE INSECTS OF THE ORANGE IN FLORIDA. U. S. Dept. Agr., Div. Ent. Bul. 4: 70-73.
Reports on various experiments.

- 1884a EXTRACT FROM CORRESPONDENCE. DESTRUCTION OF SCALE INSECTS BY COLD. U. S. Dept. Agr., Div. Ent. Bul. 4: 75.
Note on an experiment.

WAHL, B.

- 1933 DIE SAN JOSÉ-LAUS (ASPIDIOTUS PERNICIOSUS) UND DEREN AUF TRETEN IN EUROPA. Internatl. Ent. Cong. (Paris 1932) 5, (pt. 2): 693-698.

WALCZUCH, A.

- 1932 STUDIEN AN COCCIDENSYMBIONTEN. Ztschr. f. Morph. u. Ökol. der Tiere 25 (4): 623-729, illus.
Describes, discusses, or mentions symbionts for about 33 coccids representing 19 genera and 5 subfamilies; presents 6 groups of symbionts; discusses these in relation to coccid classification.

WALKER, F.

- 1852 LIST OF THE SPECIMENS OF HOMOPTEROUS INSECTS IN THE COLLECTION OF THE BRITISH MUSEUM, PT. 4. London, Newman, 1188 p. (1065-1091).
Lists 134 coccids including 9 described as new, in 10 genera, with citations for described ones and general locality for each.

WALKER, F.—Continued.

1858 LIST OF THE SPECIMENS OF HOMOPTEROUS INSECTS IN THE COLLECTION OF THE BRITISH MUSEUM. Supplement. London, Newman, 369 p. (304-306).

Lists 13 coccids including 3 described as new, in 6 genera; *Drosicha* n. gen.

WALSH, B. D.

1866 ANSWERS TO [INSECTS IN THE ORCHARD BY J. S. HOUGHTON.] Pract. Ent. 2: 31-32, illus.

Describes "*Coccus? harrisii* Walsh."

[WALSH, B. D., and RILEY, C. V.]

1868 A NEW BARK LOUSE ON THE OSAGE ORANGE. Amer. Ent. 1: 14, illus.

Presents *Lecanium macluræ* and *L. acericola*, n. spp.

WASSILIEFF, M. E.

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WERNER, W. H. R.

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- 1840 AN INTRODUCTION TO THE MODERN CLASSIFICATION OF INSECTS, FOUNDED ON THE NATURAL HABITS AND CORRESPONDING ORGANIZATION OF DIFFERENT FAMILIES, v. 2, p. 443-450 (448). SYNOPSIS OF THE BRITISH INSECTS (AT END OF V. 2) 158 p. (118).
Brief general review of coccid family; proposes *Pseudo-Coccus* for cochineal; *Pseudococcus* for *Coccus adonidum, cacti*, etc.
- 1845 PLATE VI. ILLUSTRATIONS OF VARIOUS SPECIES OF COCCIDAE, BELONGING TO THE GENUS MONOPHLEBUS. Arcana Entomologica; or Illustrations of new rare and interesting insects v. 1, p. 21-22.
Descriptions (brief) and figures for 8 male coccids, including 4 new species.
- 1855 THE SEYCHELLES DORTHESIA. Gard. Chron. and Agr. Gaz. No. 51: 836, illus.
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- 1870 [THE CAMELLIA COCCUS—COCCUS FLOCCIFERUS WESTW.] Gard. Chron. and Agr. Gaz. No. 10: 308.
First description.
- 1871 [EXHIBITIONS.] Ent. Soc. London, Proc., 1871: iii.
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- 1913 A GIANT COCCID FROM GUATEMALA. Psyche 20: 31-33, illus.
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WHITE, A.

- 1846 DESCRIPTIONS OF SOME APPARENTLY NEW SPECIES OF HOMOPTEROUS INSECTS IN THE COLLECTION OF THE BRITISH MUSEUM. Ann. Mag. Nat. Hist. 17: 330-333 (333).
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- 1953 ON A NEW SPECIES OF SAISSETIA (HEM.: COCCOIDEA) FROM ZANZIBAR. Bul.

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- 1877-1878 NOTE ON THE ZOOLOGY AND BOTANY OF GLEN TILT. Scot. Nat. 4: 160-163 (160-162), illus.
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- 1880 NOTE ON THE GENUS ORTHEZIA. Entomologist 13: 304-306.
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WHITNEY, B. B.

- 1912 SOME UNDESIRABLE IMMIGRANTS FROM JAPAN. Calif. State Comn. Hort. Mo. Bul. 1: 737-739, illus.
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- 1913 A NEW CALIFORNIA COCCID INFESTING MANZANITA (AULACASPIS MANZANITAE N. SP.) Jour. Ent. and Zool. 5: 50-52, illus.

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- 1910 A MEALY BUG INJURIOUS TO THE LEBBEK TREE OF CARIO. Bul. Ent. Res. 1: 121-137.
Detailed report on damage and control for the lebbek mealybug.
- See also Newstead, R., and Willcocks, F. C.

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D. eritreana, *D. sandevierae*, *D. welwitschiae* n. spp.

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WOLCOTT, G. N.

1935 "INSECTAE BORINQUENSES." A REVISION OF "INSECTAE PORTORICENSIS" A PRELIMINARY ANNOTATED CHECKLIST OF THE INSECTS OF PORTO RICO, WITH DESCRIPTIONS OF SOME NEW SPECIES" AND "FIRST SUPPLEMENT TO INSECTAE PORTORICENSIS." *Puerto Rico Univ. Jour. Agr.* 20: 1-600 (119-142).

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See also Krausse, A., and Wolff, M.

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- 1913 IM UNTERELSASS UND IN DER ANGRENZENDEN RHEINPFALZ FESTGESTELLTE COCCIDEN. Ztschr. f. Wiss. Insektenbiol. 9: 255-258, 300-303, 334-336, 364-367. (Cont.)
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- 1914 IM UNTERELSASS UND IN DER ANGRENZENDEN RHEINPFALZ FESTGESTELLTE COCCIDEN. Ztschr. f. Wiss. Insektenbiol. 10: 6-13. (Concl.)
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- 1921 PHYSETERES GRANIFORMIS N. SP. Ztschr. f. Wiss. Insektenbiol. Beilage: Neue Beitr. z. System. Insektenkunde 2 (4): 29, illus.
- 1925 IN ELSASS-LOTHRINGEN VORKOMMENDE SCHILDLAUSARTEN. Ztschr. f. Wiss. Insektenbiol. 20: 114-124, 239-248, illus. (Cont.)
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- 1925a ZEHN FÜR DIE DEUTSCHE FAUNA NEUE UND EINIGE SCHON BEKANNTE SELTENERE COCCIDEN. (IX. MITTEILUNG ÜBER SCHILDLÄUSE.) Ent. Mitt. 14: 202-205.
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- 1929 COCCIDEN FAUNA VON WÜRTTEMBERG. 11. MITTEILUNG ÜBER COCCIDEN. Ver. f. Vaterländ. Naturk. Württemberg, Jahresh. 85: 278-280.
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- 1937 ZUR COCCIDENFAUNA VON SCHLESWIG-HOLSTEIN. (12. MITTEILUNG ÜBER COCCIDEN.) Naturw. Ver. f. Schleswig-Holstein Schr. 22: 1-69, illus.
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- 1943 PRODUCTIVITY OF THE CALIFORNIA RED SCALE ON LEMON FRUIT. Jour. Econ. Ent. 36: 868-872, illus.
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- 1952a EINE NEUE SCHILDLAUSART—QUADRASPIDIOTUS MARANI N. SP. (COCCOIDEA: DIASPIDIDAE). Beitr. z. Ent. 2: 449-451, illus.
- 1953 PREMIERE CONTRIBUTION A LA CONNAISSANCE DES COCHENILLES VIVANT DANS LES SERRES DU JARDIN DES PLANTES À PRAHA. (In Czech.) Prague. Ent. Mus. Nat. Pragae, Acta 28: (1952): 125-148, illus.
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- 1955 ZUR NOMENKLATUR VON QUADRASPIDIOTUS MARANI ZAHRADNÍK (QUADRASPIDIOTUS SCHNEIDERI BACHMANN). Beitr. zur Ent. 5: 88-90.
Q. schneideri a synonym of *marani*.
- 1955a ÜBER DIE WICHTIGSTEN ARTDIFFERENZIERENDEN MERKMALE DER SCHILDLAUS QUADRASPIDIOTUS MARANI ZAHRADNÍK (=QU. SCHNEIDERI BACHMANN). Ztschr. f. Angew. Ent. 37: 125-127.
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ZEHNTNER, L.

- 1897 DE PLANTENLUIZEN VAN HET SUIKERRIET OP JAVA. II. CHIONASPIS SACCHARI-FOLII N. SP. III. CHIONASPIS DEPRESSA N. SP. Proefsta. Oost-Java, Meded. (n. s.) 36, 26 p., illus. (col.).
- 1897a OVERZICHT VAN DE ZIEKTEN VAN HET SUIKERRIET OP JAVA 2° DEEL, VIJANDEN UIT HET DIERENRIJK. Arch. v. Java-Suikerindustrie 5 (1): 525-575 (559-564). Also in Proefsta. Oost-Java, Meded. (n. s.) 37, 51 p. (35-40).
Descriptions of 6 coccids including *Aspidiotus sacchari-caulis*, *Lecanium krugeri*, n. spp.
- 1897b DE PLANTENLUIZEN VAN HET SUIKERRIET OP JAVA. IV. ASPIDIOTUS SACCHARI CAULIS N. SP. [Also given as *sacchari-caulis*.] Proefsta. Oost-Java, Meded. (n. s.) 39, 10 p., illus. (col.).
- 1898 DE PLANTENLUIZEN VAN HET SUIKERRIET OP JAVA [V. VI. AND VII.] Arch. v. Java-Suikerindus. 6 (2): 1085-1098, illus. (col.). Also in Proefsta. v. Suikerriet in West Java, Meded. No. 37, 14 p., illus. (col.).
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ZIELKE, O.

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Includes detailed description, distribution, biology, enemies, hosts, damage.

ZILLIG, H., and NIEMEYER, L.

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Brief description, details of life history, damage, control.

ZIMMER, J. F.

- 1912 THE GRAPE SCALE. (ASPIDIOTUS [DIASPIDIOTUS] UVAE COMST.) U. S. Dept. Agr., Bur. Ent. Bul. 97: 115-124, illus.
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ZIMMERMAN, E. C.

- 1946 BROWNE 1887, NOT DOUGLAS 1888, THE AUTHOR OF ORTHEZIA INSIGNIS (HOMOPTERA: COCCOIDEA). Hawaii. Ent. Soc. Proc. 12 (1944): 657-658.

- 1948 INSECTS OF HAWAII. VOL. 5. HOMOPTERA: STERNORHYNCHA. Honolulu, Univ. of Hawaii Press, 464 p. (132-436), illus.
Includes a detailed review of about 113 Hawaiian coccids in 45 genera, of which 1 new genus and 9 new species are credited to Ferris; keys to 8 families and to genera and species as needed; all species described and figured.