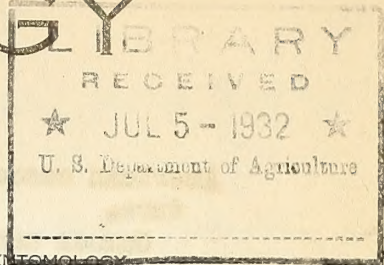


Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

ENTOMOLOGY



CURRENT LITERATURE

SELECTED REFERENCES COMPILED BY THE STAFF OF THE BUREAU OF ENTOMOLOGY
LIBRARY FROM PUBLICATIONS RECEIVED IN THE LIBRARY OF THE UNITED STATES
DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

296688

Vol. 1

January - February, 1932

No. 1

FOREWORD

It has for some years been the practice to include lists of new books in the Monthly Letter of the Bureau of Entomology. Owing to recent changes in the character of the Letter and because of the great quantity of entomological literature received in the library, it now seems best to issue this list, in somewhat expanded form, as a separate mimeographed publication of the Bureau. The purpose is to bring promptly to the attention of our technical workers, both in Washington and in the field, the new literature relating to economic entomology available in the Library of the Department. The list will be confined chiefly to new books and to articles appearing in periodicals. Publications of the U. S. Department of Agriculture and of the various state agricultural experiment stations will be omitted, as these are listed weekly in the Official Record of the Department. For the same reason articles by members of the bureau staff will not be listed. The contents of the Journal of Economic Entomology will be omitted because nearly all the technical workers either receive this personally or have ready access to it. Periodical references to apiculture will not be included for the present.

C. L. MARLATT,
Chief of Bureau.

BOOKS

- American association of economic entomologists. Committee on nomenclature.
Common names of insects approved for general use. p.1273-1310.
Melrose Highlands, Mass., The association, 1931. Reprinted from
the Journal of economic entomology, v.24, no.4, Dec.1931.
- American cyanamid company, New York.
Calcium cyanamid. 11 numbered leaves. New York, 1931. Contents.-
A. Bibliography of more important articles and abstracts in the Eng-
lish language; B. Bibliography of important articles in languages
other than English.
- Atkinson, D. J.
Insect damage to the timber of teak (*Tectona grandis*). 13p. 12pl.
Rangoon. Department of government printing and stationery, 1931.
(Burma forest bul.26. Zool. ser.2.)
- Aurivillius, P. O. C.
Lepidopterorum catalogus. pars 47-50. Berlin, Junk, 1931. Con-
tents.- pars 47. Shepard, H. H. Hesperidae, subfamilia Pyrginae I,
144p.; pars 48. Gaede, M. Satyridae III (pars ultima), p.545-759;
pars 49. Gaede, M. Drepanidae, 60p.; pars 50. Gaede, M. Mimallon-
idae, 21p.
- Bonnet, F.
La mue, l'anatomie et la régénération chez les araignées, avec une
étude des dolomides d'Europe... 464p. illus. pl. Toulouse,
Imprimerie toulousaine, 1930. Bibliographie, p.433-460.
- Böving, A. G., and Craighead, F. C.
An illustrated synopsis of the principal larval forms of the order
Coleoptera. 35p. incl. 125pl. Reprinted from Entomologica
americana, v.1 (whole volume), Nov.-Dec.1931.
- Bremer, E., and Kaufmann, O.
Die rubenfliege *Pegomyia hyoscyami* Pz. 110p. illus. Berlin,
Springer, 1931. (Monographien zum pflanzenschutz, hrsg. von H.
Morstatt, no.7.) Schriftenverzeichnis, p.105-110.
- Carter, H. R.
Yellow fever, an epidemiological and historical study of its place
of origin, ed. by Laura Armistead Carter and Wade Hampton Frost.
308p. illus. Baltimore, Williams & Wilkins co., 1931.
- Chamberlin, W. J.
An introduction to forest entomology. 138p. Ann Arbor, Mich.,
Edwards brothers, inc., 1931. Lithotyped.
- Claassen, P. W.
Plecoptera nymphs of America (North of Mexico). 199p. incl. 35pl.
Springfield, Ill., Charles C. Thomas, 1931. (Thomas Say founda-
tion, v.3.) Selected references, p.117-120.

- Clifford, J. R. S.
Insect lights and insect sounds... 94p. illus. London, Wesleyan conference office, [1879].
- Clute, W. N.
The common names of plants and their meanings. 160p. Indianapolis, Willard N. Clute & co., 1931.
- Copeland, E. B.
The coconut. 233p. illus. London, Macmillan & co., ltd., 1931.
Insect enemies, p.67-113.
- Corbett, G. H.
...The control and economic importance of the greater coconut spike moth (*Tirathaba rufivena* Walk.)... 14p. pl. Kuala Lumpur, printed at the Federated Malay States government printing office, 1931. (Straits Settlements and Federated Malay States. Dept. agr. Scientific ser. 1931, no.8.)
- Corset, J.
Les coaptations chez les insectes... 337p. illus. Paris, Laboratoire d'evolution des êtres organisés, 1931.
- Dominican republic. Secretario de estado de agricultura y comercio. Seccion de publicaciones.
Esbozo de la biologia de los dipteros por el Dr. Juan Gomez-Menor y Orteza... 26p. illus. Santo Domingo, R. D., Luis Sanchez, Junio, 1930.
- Fletcher, T. B.
Catalogue of Indian insects. pt.20. Alucitidae (Pterophoridae). 81p. Calcutta, Government of India, Central publication branch, 1931.
- Glover, P. M.
A practical manual of lac cultivation. 81p. 11pl. Calcutta, Criterion printing works, 1931. Bibliography, p.80-81. At head of title: Indian lac association for research.
- Guenther, K.
A naturalist in Brazil. The record of a year's observation of her flora, her fauna and her people..., tr. by Bernard Miall. 400p. illus. 32pl. Boston & New York, Houghton Mifflin co., 1931.
The community of the ants, p.303-324; The termites, p.325-336.
- Guyer, M. F.
Animal biology. 744p. illus. New York, Harper brothers, 1931.
Reference books, p.703-706.
- Hamet, E.
Las abejas. Modo de criarlas. 259p. illus. Barcelona, Libreria de Francisco Puig, 1931.

Holder, J. T.

Elementary histological technique for animal and plant tissues. 104p. illus. London, J. & A. Churchill, 1931. References, p.100.

Hübner, J. J. R.

Lepidopterologische zuträge... 32p. Augsburg, Bey dem verfasser zu finden, 1820. Accompanied by a letter in German by George Semper. Photostat.

Imperial bureau of agriculture and parasitology.

The root infesting eelworms of the genus *Heterodera*. A bibliography and host list. Compiled and published by the Imperial bureau of agricultural parasitology. 99p. 2pl. St. Albans, England, 1931. Bibliography, p.51-99.

Johansen, J. P.

Danmarks røvbiller eller billefamilien Staphylinidae's danske slaegter og arter, udgivet paa bekostning af Carlsbergfondet. 660p. illus. Kobenhavn, Bianco Lunos Bogtrykkeri, 1914. Literatur, p.655-658.

Joy, H. H.

A practical handbook of British beetles. 2v. illus. pl. London, H. F. & S. Witherby, Jan.1932.

Kleine, R.

Catalogue of Indian insects. pt.21. Lycidae. 52p. Calcutta, Government of India, Central publication branch, 1931.

Korschelt, E.

Regeneration und transplantation. Bd.2. Transplantation unter berucksichtigung der explantation, pflanzenpropfung und parabiose. 697-1559p. illus. Berlin, Borntraeger, 1931. Schriftenverzeichnis, p.1336-1530.

Lawson, A.

Honeycraft in theory and practice... 226p. illus. London, Chapman & Hall, ltd., 1931.

Lewis, E. A.

A study of the ticks in Kenya Colony. The influence of natural conditions and other factors on their distribution and the incidence of tick-borne diseases. pt.1. A report on an investigation into the tick problem in the Rift Valley, Kenya Colony. 20p. illus. Nairobi, Government printer, 1931. (Kenya Colony Protectorate. Dept. agr. Div. vet. research. Bul.17 of 1931.)

Lutz, A.

Estudios de zoologia y parasitologia venezolanas. 133p. 26pl. Rio de Janeiro, Dec.1928. Contribucion para llestudio de los dipteros hematofagos de Venezuela, p.7-39.

Matsumura, S.

6000 illustrated insects of Japan-Empire, 1931. 1496p. illus.
10col.pl. Tokyo, 1931. In Japanese, with index of scientific
names in Latin.

Metcalf, C. L., and Flint, W. P.

Fundamentals of insect life. First edition. 581p. illus. New
York and London, McGraw-Hill book company, inc., 1932. (McGraw-
Hill publications in the zoological sciences, A. Franklin Shull,
consulting editor.) Bibliography, p.522-526.

Morocco. Direction générale de l'agriculture, du commerce et de la
colonisation.

Defense des cultures. Les invasions d'acridiens au Maroc de 1927 à
1931. 139p. pl. Rabat, 1931. At foot of cover page, no.3,
Rabat, 1931.

Morse, J.

Following the bee line. 127p. illus. Chicago, Thomas S. Rock-
well, 1931.

Pfafflin, F.

Die bienenhaustalt. 5 aufl. von Hans Rentschler. 144p. illus.
Stuttgart, Ulmer, 1929.

Pfeiffer, M. A.

Die werke des Maria Sibylle Merian... 144p. front. Meissen,
1931.

Poutiers, R.

Entomologie et parasitologie agricoles. Insectes nuisibles et utiles
à l'agriculture, leur importance économique, moyens de destruction
des animaux-nuisibles. p.131-246, illus. col. pl. Paris,
Aristide Quillet, 1931. (Encyclopédie agricole Quillet, v.2)

Rio de Janeiro. Director de agricultura. Serviço industria pastoril.
O garrapato... 32p. pl. fold.tab. [Rio de Janeiro, April, 1926.]

Robert, L. P.

Les chenilles de Léo Paul Robert. 64 planches en couleurs. Texte
de Paul-A. Robert fils. 412p. incl. the 64 mounted col. pl.
Neuchâtel & Paris, Delachaux & Niestlé, 1931.

Roessler & Hasslacher chemical co. Entomological section.

Effect of hydrocyanic acid gas on food, fabrics, metals and other
commodities. Excerpts from authoritative references. 11p.
New York; Roessler & Hasslacher chemical co., 1931.

Die Rohstoffe des tierreiches, hrsg. von Ferdinand Pax und Walther Arndt.
lfg.8. Arthropodenseiden, by Friedrich Bock. p.875-880, Berlin,
Borntraeger, 1931.

Sartory, R.

Etude de la degradation de la cellulose chez quelques insectes xylophages sous l'influence de microorganismes... 184p. illus.
Strasbourg, 1929. (Thèse. Université de Paris.) Notes bibliographiques, p.163-173.

Schreiber, J. F.

Schreibers kleiner atlas der wichtigsten insekten. 16p. 12col.pl.
Esslingen a.N., u. München, J. F. Schreiber, [1931?].

Schreiber, J. F.

Schreibers kleiner atlas der wichtigsten käfer. 40p. 16col.pl.
Esslingen a.N., J. F. Schreiber, [1931?].

Schulze, P.

Biologie der tiere Deutschlands. Lfg.34. Berlin, Borntraeger, Dec.15, 1931. Teil 30. Siphunculata, Anoplura, Aptera, Lause, von Albrecht Hase, p.1-58, illus.; Teil 31. Hemipteren II, von Hermann Weber, p.71-208, illus.

Siam. Ministry of commerce and communications.

Lac cultivation and trade in Siam. 12p. map, [Bangkok, Printed by Bangkok Times press, ltd., 1926.] Cover-title: Siam lac cultivation.

Tannich, A.

Bienen und honig. Warum sollen wir mehr honig essen?. 80p. Berlin, E. Pfennigstorff, 1931.

Die tierwelt Deutschlands... Teil 23. Spinnentiere oder Arachnoidea VI. Agelenidae-Araneidae. various paging, Jena, Fischer, 1931. Contents.- Dahl, Maria. 24. Familie, Agelenida; Wiele, Hermann. 27. Familie, Araneida.

Ulmer, G.

Unsere wasserinsekten. Ed.2. 157p. illus. Leipzig, Quelle u. Meyer, 1928. (Naturwissenschaftliche bibliothek für jugend und volk, hrsg. von Konrad Holler und Dr. Georg Ulmer.)

Wilson, A.

Insects and their control. 383p. illus. Plainfield, N. J., Interstate printing corporation, 1929, augmented and revised second printing, 1931.

Worcestershire county council. Dept. of agricultural education.

Ox warble fly. Report on the demonstration and experiments...1928-1931. 3pts. Kidderminster [etc.] 1929-1931. At head of title: Agricultural education sub-committee.

Zimmermann, A.

...Monographie der paläarktischen Dytiscidae. II. Hydroporinac. Teil 2. Die gattung Hydroporus Clairv. 63p. Tröppau, Edm. Reitter, 1931. (Bestimmungstabellen der europäischen Coleopteren, Hft. 101.)

- 7 -
PERIODICALS

Acta medicinalia in Keijo, v.12, no.2, 1929.

Kobayashi, H. General survey on the seasonal prevalence of the house-fly in Chosen. First report; researches during 1928, p.59-68.

Anzeiger für schädlingkunde (Berlin), v.8, no.1, Jan.1932.

Martini, E. Wert mathematischer formulierungen, p.10-11.

Sprengel, L., and Sontag, K. Der flug der kirschfliege (*Rhagoletis cerasi* L.) in seiner bedeutung zu fruchtreife und witterung, mit grundsatzlichen erörterungen über die erfassung der wetterfaktoren, p.1-10.

Archives de zoologie expérimentale et générale (Paris), v.72, 1931.

Brolemann, H. W. Myriapodes recueillis par Madame Pruvot en Nouvelle Calédonie et aux Loyalties, fasc.2, p.275-316, Sept.16, 1931.

Hosselot, G. Contribution a l'étude de chondriome chez les insectes (Culicidae et Phryganidae), fasc.1, p.1-273, illus. July 10, 1931.

Index bibliographique, p.255-272.

Arkiv för zoologi (Stockholm), v.23, 1931.

Malaise, R. Entomologische ergebnisse der schwedischen Kamtschatka expedition 1920-1922. 35. Tenthredinidae. 68p. (A, No: 8.)

Roman, A. Entomologische ergebnisse der schwedischen Kamtschatka expedition 1920-1922. 33. Ichneumonidae, subfamilien Pimplinae und Tryphoninae. 32p. (A, No: 6.)

Sjöstedt, Y. Acridoidea von der Goldküste ob Volta, nebst einer revision der gattung *Parga* Walk. (Orth. Trux.). 36p. (A, No: 17.)

Australia. Council for scientific and industrial research (Melbourne). Journal, v.4, no.4, Nov.1931.

Tillyard, R. J. The buffalo-fly [*Lyperosia exigua* de Meijere] in Australia, p.234-243. Bibliography, p.242-243.

Boletín de patologia vegetal y entomologia agricola (Madrid), año 5, 1930, no.19, 20, 21 y 22, Dec.1931.

Benlloch, M. Como puede combatirse la piral, p.110-119; Experiencias sobre la desinfeccion de semillas de remolacha, p.81-85; El moho de las frutas, p.134-146.

Benlloch, M., and Canizo, J. del. La mosca del olivo, p.100-109; La "rabia" de los garbanzales, p.128-133.

Benlloch, M., and Cuende, F. J. La invasion filoxerica en España, p.14-37.

Berro, J. Técnica de las preparaciones micrograficas para el estudio de Coccidos, p.38-46.

Canizo, J. del. La "chinche" de la remolacha (*Cassida vittata*, Villers), p.1-13.

Clemente, F. G. La pamilas de la alfalfa, p.47-58.

Herze, P. Analisis quimico de insecticidas cianuridos, p.89-91.

Perez, M. Q. La lucha biologica contra los malas hierbas, p.92-99.

Sardina, J. R. Dos nuevas enfermedades de las habas, p.59-80.

Bolotin de patologia vegetal y entomologia agricola. (cont.)

Torres, D. D. de. Los pulgonos, p.120-127.

Trabajos de las estaciones de fitopatologia agricola en el año 1930.
Almeria, p.146-153; Barcelona, p.153-160; Madrid-La Moncloa, p.137-146; Valencia (Burjasot), p.160-166.

Bristol university agricultural and horticultural research station (National fruit and cider institute), Long Ashton, Bristol. Annual report 1930.

Staniland, L. N., and Walton, C. L. Observations on capsid bug control by means of "high neutral" tar distillate washes, p.79-94, 1931.

British Guiana department of agriculture (Georgetown). Entomological bulletin no.1, 1930.

Cleare, L. D., jr. The tannin beetle, *Ligyros ebenus* De G. 23p. 4pl.

Brooklyn entomological society. Bulletin, v.26, no.5, Dec. 1931.

Fernald, H. T. Automobile as an insect collector, p.231-233.

Pyenson, L., and Sweetman, H. J. Effects of temperature and moisture on eggs of *Epilachna corrupta*, p.221-226.

Reyniers, J. A. Method of counting Micro-Arthropoda, p.256-259.

Bulletin biologique de la France et de la Belgique (Paris), v.46, fasc.1, 1932.

Randon, J. Les groupements d'Orthopteres du Bas-Languedoc, p.1-44.

Bulletin of entomological research (London), v.22, pt.4, Dec.1931.

Connal, S. L. M. S. The larva and pupa of *Uranotaenia ornata*, Theo., p.459-460, illus.

Lean, O. D. The effect of climate on the migrations and breeding of *Locusta migratorioides* in Nigeria, p.551-569, illus.; Notes on the breeding of *Nomadacris septemfasciata* (Orth., Acrid.) on the shores of Lake Chad, p.571-572.

Pickles, A. On the oviposition of *Tomaspis saccharina*, Dist. (Rhynch., Cercop.), an insect pest of sugar-cane in Trinidad, p.461-468, illus.

Salt, G. Parasites of the wheat-stem sawfly, *Cophus pygmaeus* Linnaeus, in England, p.479-545, illus.

Smith, C. W. Colonisation in Canada of *Collyria calcitrator* (Hym. Ichn.), a parasite of the wheat-stem sawfly, p.547-550.

Theodor, O. On African Sandflies (Dipt.), p.469-478, illus.

Uvarov, E. D. The ash content of insects, p.453-457.

Deutsche entomologische gesellschaft (Berlin). Mitteilungen, Jahrg.2, nr.5 & 7, May and Sept.1931.

Hering, M. von. Ein neuer *Parietaria*-minierer, *Cosmopteryx parietariae*, sp. n. (Lep.), no.5, p.67-70; Über die mine und das vorkommen von *Scolionoura nana* Klug in der Mark Brandenburg. (Tenth. Hym.), no.7, p.109-111.

Deutsche entomologische zeitschrift (Berlin). Jahrg 1931, hft.2/3, Nov. 1931.

Ansel, H. G. von, and Hering, M. Beitrag zur kenntnis der minen fauna Palästinas, p.113-152.

Deutsche gesellschaft für angewandte entomologie. (Berlin). Verhandlungen 8, Aug.24-28, 1930.

Buchmann, W. Die bedeutung des wasserstoffionenkonzentration für die entwicklung der mückenlarven, p.84-87.

Eidmann, H. Erfahrungen über die arsenbekämpfung von forstschädlingen mittels motorverstäuber, p.37-38.

Friedrichs, K. Einleiten des referat zum tagesthema "Die kiefernspanner", p.31-36; Rostock und die entomologie, p.15-18.

Hecht, O. Über den warmensinn der stechmücken bei der eiblage, p.26-29.

Hukkinen, Y. Über das auftreten und die bekämpfung des meerrettichblattkäfers (*Phaedon cochleariae* Fabr.) in Finnland, p.76-84.

Janisch, E. Über einige grundfragen der insektenepidemiologie, p.45.

Malenotti, E. Die bekämpfung der kirschfliege (*Rhagoletis cerasi* L.) in Italien, p.49-54.

Martini, E. Zur gradationslehre, p.19-26.

May, E. Biologische feststellungen bei der arsenbekämpfung des kiefernspanners, p.38-40.

Meyer, R. Erfahrungen bei der kiefernspannerbekämpfung, p.40-44.

Pfeffer, A. Zoogeographische verbreitung der borkenkäfer in der Tschechoslowakischen Republik, p.72-76.

Saalas, U. Über die verbreitung der borkenkäfer (*Ipidae*) in Finnland mit besonderer berucksichtigung ihres vorkommens in den nördlichen waldgrenzen, p.65-71, illus.

Steiner, P. Zur kenntnis der parasiten des kiefernspanners, p.36-37.

Stellwag, F. Grundlagen der physiologischen wertbestimmung von insektiziden, p.29-31.

Trägårdh, I. Studien über die gange der borkenkäfer, p.54-64, illus.

Zwölfer, H. Die kleimaabhängigkeit des massenwechsels der wanderungen der orientalischer getreidewanze (*Eurygaster integriceps* Pu.), p.44-45.

Empire forestry journal (London), v.10, no.2, 1931.

Munro, J. W. The biological control of forest insects, p.209-214.

Entomological news (Philadelphia), v.43, 1932; no.1, Jan.; no.2, Feb.

Drake, C. J., and Decker, G. C. A scavenger fly, *Chrysomya demandata* Fabr., breeding in corn silage (Dipt., *Ortaliidae*), no.2, p.29-30.

Parker, H. L. Notes on a collecting spot in France and a chalcid larva (*Stilbula cynipiformis* Rossi). (Hymenop. *Eucharidae*), no.1, p.1-6.

Entomological news. (cont.)

Payne, H. M. Duration of the pupal stage of *Tenebrio molitor* Linnaeus at constant and at alternating temperatures (Coleopt., Tenebrionidae), no.1, p.6-7.

Eos (Madrid), v.7, no.3, Nov.1931.

Collardo, J. G. Algunas especies parasitas de orugas de El Escorial, p.349-354.

Salfi, K. Revision du genre *Platypterna* Fieber (Acrid.), p.255-347.

Florida entomologist (Gainesville), v.15, no.3, Nov.1931.

Calhoun, P. W. A correlation of the date of emergence and percentage of survival of the cotton boll weevil with the date of their installation in hibernation cages, p.41-48.

Harvard university. Museum of comparative zoology (Cambridge, Mass.)

Bulletin, v.72, no.6, Nov.1931.

Carpenter, F. M. Revision of the nearctic Mecoptera, p.205-277, 8 pl.

Imperial sugar cane research conference (London), 1931. Report of proceedings, Jan.1932.

Thompson, W. R. The biological control of sugar cane pests, p.141-146.

Indian forest records (Entomology series) (Calcutta), v.16, pt.8-9, 1931.

Beeson, C. F. C. The life history and control of *Celosterna scabrator* F. (Col., Cerambycidae), pt.9, 16p. 2pl.

Marshall, G. A. K. New Indian Curculionidae (Col.), pt.8, 16p. pl.

Insecta Matsumurana (Sapporo, Japan), v.6, no.1 & 2, Nov.1931.

Ishida, M. Fauna of the Thysanoptera in Japan, p.32-42.

Kono, H. Die Heteroceriden aus Japan (Col.), p.3-4; Die *Notoxis* arten aus Japan (Col., Anthicidae), p.1-2.

Matsumura, S. A list and new species of the Aegeridae from Japan, p.4-12; New species and new forms of butterflies from Japan, p.43-45; A revision of the palaearctic and oriental typhlocybid genera with descriptions of new species and new genera, p.59-91.

Takizawa, M. The Gyrinidae of Japan, p.13-21.

Uchida, T. Beitrage zur Kenntnis der tribus Banchini aus Japan, p.45-54.

Watanabe, C. Notes on Braconidae of Japan, I. Helconini, p.22-31.

Kansas entomological society. Journal (McPherson), v.5, no.1, Jan.1932.

Beamer, R. H. The giant walking stick (*Megaphasma dentricus* (Stal.) found in Kansas, p.28.

Lawson, P. B. The genus *Alapus*, p.29-31.

Winburn, T. F., and Painter, R. H. Insect enemies of the corn ear-worm, p.1-28.

London entomological society. Proceedings, v.6, pt.2, Dec.1931.

Donisthorpe, H. St. J. K. A captive colony of *Myrmocina graminicola*, p.46-47.

Homming, A. F. Notes on the date of issue of the parts of volume I of W. H. Edwards' *Butterflies of North America* and on the plates by Wiest in that work subsequently rejected by the author, p.42-45.

London entomological society. Proceedings (cont.)

Taylor, J. S. A case of "assembling" in the Phasmidae, p.45.

London entomological society. Transactions, v.79, pt.3, Dec.1931.

Hemming, A. F. New material regarding the dates of the plates of Papiliones in Jacob Hübner's "Sammlung europäischer schmetterlinge", with notes on the synonymy and type localities of certain species described therein, p.493-504.

London. Linnean society. Transactions, ser.2 (Zoology), v.19, pt.2, Aug.1931.

Enderlein, G. Die copeognathen fauna der Seychellen, p.207-240, pl.14-16.

Maulik, S. Coleoptera, Chrysomelidae, Eumolpinae, Galerucinae and Halticinae, p.241-260, illus. (The Percy Sladen Trust expedition to the Indian Ocean in 1905 under the leadership of J. Stanley Gardiner.)

London. Zoological society. Proceedings, 1931, pt.3, Sept.

Maulik S. On the structure of larvae of hispine beetles, p.1137-1162, illus.

Patterson, N. F. Studies on the Chrysomelidae. Pt.2. The bionomics and comparative morphology of the early stages of certain Chrysomelidae (Coleoptera, Phytophaga), p.879-950, illus.

New York entomological society (Lancaster, Pa., and New York, N. Y.)

Journal, v.39, no.4, Dec.1931.

Holloway, J. K. Temperature as a factor in the activity and development of the Chinese strain of *Tiphia popilliavora* (Rohw.) in New Jersey and Pennsylvania, p.555-564.

Osburn, M. R. Effect on certain fresh fruits of fumigation with ethylene oxide to destroy the Japanese beetle, p.567-574.

Pierce, W. D. A list of the sugar cane insects of Negro Occidental, p.577-586.

Rex, E. G. A wire beetle receptacle for Japanese beetle traps, p.593-594.

Northern Rhodesia department of agriculture (Livingstone). Annual bulletin i, 1931.

Bobbington, A. G. Cotton and its limiting factors as a commercial crop in Northern Rhodesia, p.12-19. Cotton stainer damage, p.12-16; bollworm damage, p.16-18.

Oberhessische gesellschaft für natur und heilkunde zu Giessen. Bericht. Neue folge (Naturwissenschaftliche abteilung), v.14, 1931.

Maresquellé, H. J. Gallen aus der umgebung von Giessen, p.94-104.

Ohio journal of science (Columbus), v.32, no.1, Jan.1932.

Cole, A. C., jr. The ant, *Pogonomyrmex occidentalis* Cr., associated with plant communities, p.10-20; illus.

Miller, D. F., Dean, G. A., and Wilson, E. H. The treatment of osteomyelitis (infection of bone) with fly larvae, p.1-9.

- Philippine journal of agriculture (Manila), v.2, no.6, 1931.
Alfoba, V. G. Collecting rice cut-worms by raft, p.229-230, illus.
Vohrer, J. B. The campaign against the coconut leaf miner (*Promecotheca cuningii* (Baly), 1930-1931, p.189-208.
- Queensland agricultural journal (Brisbane), v.36, 1931; pt.5, Nov.;
pt.6, Dec.
Jarvis, E. Experiments with a new fruit fly lure, pt.5, p.485-491.
Sumnerville, W. A. T. The larger horned citrus bug (*Biprorulus bibax* Broddin), pt.6, p.543-538, illus.
- Queensland. Prickly-pear land commission (Brisbane). Annual report 7. Year ended June 30, 1931, 31p. map.
Biological control of prickly pear, p.14-17.
- Raffles museum (Singapore, Straits Settlements). Bulletin no.1-2, 1928-1929.
Blair, K. G. *Spolia Montawicensis: Tenebrionidae*, no.2, p.79-136, July, 1929.
Hamitch, R. *Spolia Montawicensis: Blattidae*, no.1, 4p. 2pl. Sept. 1928.
- Revista de Musco Paulista (Sao Paulo), v.17, pt.1, 1931.
Luederwaldt, H. *Monographia dos Passalideos do Brasil. (Col.)*, p.1-262, 2pl.
- Revue de zoologie agricole (Bordeaux), Année 30, 1931; no.10, Oct.;
no.11, Nov.; no.12, Dec.
Bruneteau, J. La respiration et la mort apparente chez le doryphore, no.10, p.149-155, Oct.
Durand, G. Apparition anormale du *Celerio livornica* Esp. et dégâts faits par sa chenille dans les champs de sarrosin, no.12, p.181-187, Dec.
Le piqure du bois de chêne mis en ouvre; causes, moyens de protection, no.11, p.174-180, Nov. & no.12, p.191-195, Dec.
- Sociedad entomologica argentina (Buenos Aires). Revista, Año 6, nos.13-19-20 (v.4, no.1-3), Nov.30, 1931.
Howard, K. H. *Los nymphalidos argentinos*, 199p. illus. 2pl. Bibliografia, p.171-174.
- Società di naturalisti in Napoli. Bullettino, v.42 (1930), 1931.
Candura, G. S. Ricerche sulla vita degli insetti e sui danni causati ai prodotti dell' economia rurale o delle industrie agrarie I. Contributo. La vita e i danni di alcuni insetti del frumento, p.143-167, illus.
- Société de biogéographie (Paris). Mémoires, no.1-3, 1926-1930.
Allorge, P. Histoire du peuplement de la Corse, no.1, 202p. illus. 1926.
Allorge, P. Contribution à l'étude du peuplement des Hautes Montagnes, no.2, 260p. illus. 1928.
Bristowe, W. S., et al. Contribution à l'étude du peuplement des Iles Britanniques, no.3, 193p. illus. 1930.

- Société d'histoire naturelle de l'Afrique du Nord (Algiers). Mémoires, no.2, 1931.
Peyerimhoff, P. de. Mission scientifique du Hoggar, Coléoptères. 172p. illus. 3pl.
- Société royale entomologique d'Égypte (Cairo). Bulletin, Année 24 (v.14, nouvelle série), fasc.3-4, 1931.
Adair, E. W., and Adair, E. E. The introduction of the Eri or castor oil silkworm into Egypt. [Attacus cynthia and A. ricini], p.140-156.
Priesner, H. Notes on a hymenopterous egg-parasite of Nozara viridula L. [Microphanurus megacephalus (Ashmead)], p.137-139.
- South African institute for medical research (Johannesburg). Publication no.28, Sept.1931.
De Meillon, Botha. Illustrated key to the full grown larvae and adults of North African anopheline mosquitoes, p.275-375, illus.
- South-Eastern agricultural college, Wye, England. Journal, no.29, Jan. 1932.
Martin, H. The chemistry of insecticides and fungicides, p.31-37.
- Svenska vetenskapsakademien (Stockholm). Handlingar, ser.3, v.11, no.1, 1932.
Elkblom, T., and Stroman, R. Geographical and biological studies of Anopheles maculipennis in Sweden from an epidemiological point of view, 113p. illus. Bibliography, p.107-112.
- Taihoku imperial university (Taihoku, Formosa, Japan). Entomological laboratory. Contribution no.30, Aug.; no.32, Oct.1931.
Koidsumi, K. Experimental studies on the influence of low temperatures upon the development of fruit-flies. First report - On the fatal action of low temperatures upon the pupae and larvae of the melon-fly (Chaetodacus cucurbitae Coquillett), no.30, 68p. Reprinted from the "Bulletin of the Department of agriculture, Government research institute, Taihoku, Japan", no.85.
Miwa, Y. A systematic catalogue of Formosan Coleoptera, no.32, 359p.
- Washington. Entomological society. Proceedings, v.34, no.1, Jan.; no.2, Feb.1932.
Busck, A. Description of a new cosmopterygid leaf miner (Lepidoptera) [Teladoma helianthi Busck] on Helianthus, no.2, p.17-20.
Dozier, H. L. An important new encyrtid parasite [Anagyrus coccidivorus, new species] of the mealy-bug, Pseudococcus virgatus (Ckll.), no.1, p.7-9.
Ewing, H. E. Early records and present known distribution in the United States of three recently introduced mites [Eutetranychus latus, Eulaelaps stabularis and Liponyssus bacoti], no.2, p.13-16.
Vance, A. M. Laelius anthrenivorus Trani, an interesting bethylid parasite of Anthrenus verbasci L. in France, no.1, p.1-7.

- Zeitschrift für morphologie und ökologie der tiere (Berlin), v.22, 1931.
Kemper, H. Beiträge zur biologie der bottwanze (*Cimex lectularius* L.),
p.53-109.
- Zeitschrift für wissenschaftliche biologie (Berlin). Abt.F. Zeitschrift
für parasitenkunde, v.4, pt.1, 1931.
Olney, N. O. Die Zecken (Ixodoidea) der fauna Russlands, p.126-139.
Literature, p.138-139.
Vitzthum, H. Neue parasitische fledermausmilben aus Venezuela, p.1-
47. Literature, p.46-47.
- Zoologiska bidrag från Uppsala, v.13, 1931.
Lindroth, C. H. Die insektenfauna islands und ihre probleme, p.105-
599. Verzeichnis der zum allgemeinen teil benutzten literature,
p.572-578.
Lundblad, O. Sudamerikanische Hydracarina, p.1-86, Spl. Literatur-
verzeichnis, p.84-86.

CURRENT LITERATURE

SELECTED REFERENCES COMPILED BY THE STAFF OF THE BUREAU OF ENTOMOLOGY
LIBRARY FROM PUBLICATIONS RECEIVED IN THE LIBRARY OF THE UNITED STATES
DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

Vol. 1

March - April, 1932.

No. 2

This list is confined to new books on entomology and to selected periodical literature relating chiefly to economic entomology. Publications of the U. S. Department of Agriculture and of the state experiment stations, and all articles by members of the department staff, are omitted as these are listed weekly in the Official Record of the department. The contents of the Journal of Economic Entomology have been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

- Baldif, W. V.
Revision of the chalcid flies of the tribe Decatomini (Eurytomidae) in America north of Mexico. 95p. illus. Washington, D. C. Government printing office, 1932. (U. S. Natl. Mus. Proc. v.79, art.28. (Sep.2894).
- Beier, M.
Pseudoscorpionidea I. subord. Chthoniinea et Neobiisinea... 258p. illus. Berlin, Walter de Gruyter & co., 1932. (Das Tierreich, lfg.57.) Literatur-kürzungen, p.ix-xiii.
- Blunt, D. L.
Report on the 1931 locust invasion of Kenya (January 1st to August 31st), [with appendices by H. Wilkinson, C. A. Thorold, F. B. Notroy, and D. C. Edwards.] 45p. Nairobi, Government printer, 1931. (Kenya Colony and Protectorate. Dept. agr. Bul.21 of 1931.)

Borg, P.

The scale-insects of the Maltese Islands. 67p. illus. Malta, Printed at the Malta Herald office, 1919.

Borradaile, L. A., and Potts, F. A.

The invertebrata - a manual for the use of students, with chapters by L. E. S. Eastham and J. T. Saunders. 614p. illus. Cambridge, University press, 1931. Myriapoda, Insecta and Arachnida, p.375-469.

British museum (Natural history)

Diptera of Patagonia and South Chile... pt.2, fasc.4; pt.6, fasc.2, London, Trustees of the British museum, 1931. Contents - Pt.2, fasc.4. Simuliidae, by F. W. Edwards, p.121-154, illus.; Ceratopogonidae, by A. Ingram and J. W. S. Macfie, p.155-232, illus. - Pt.6, fasc.2, Phoridae, by H. Schmitz, p.43-48; Platypezidae, Pipunculidae, by J. E. Collin, p.49-61; Sphaeroceridae (Borboridae), by O. W. Richards, p.62-84; Ephydriidae, by E. T. Cresson, p.85-116.

British museum (Natural history)

Insects of Samoa and other Samoan terrestrial Arthropoda. Pt.4, Coleoptera, fasc.5. Curculionidae, by Guy Marshall. p.249-336, illus. London, Trustees of the British museum, Apr.25, 1931.

Bruce, E. L. co., Memphis, Tenn.

... Protection to forest products against attack by termites and rot fungi. 15p. illus. Memphis, 1931. Cover title: Protection for wood against rot and wood-eating insects.

Bruce, C. T., and Melander, A. L.

... Classification of insects; a key to the known families of insects and other terrestrial arthropods. 672p. illus. Cambridge, Mass., Printed for the Museum at Harvard College, 1932. (Bul. Mus. comp. zool. Harvard College, v.73.)

Bruner, S. S.

Algunos insectos dañinos a nuestros frutales. 12p. illus. [Habana, Talleros de "La propagandista" Gutiérrez y ca., S. en C.], 1931. (Cuba. Sec. agr., com. y trab. Estac. expt. agron. Santiago de las Vegas. Circ. 75.)

Causey, D.

Uninvited guests. 120p. illus. New York, Alfred A. Knopf, 1932.

Ceballos, G.

Estudios sobre Ichneumonidos de España II. Subfamilia Cryptinae - (Tribu Cryptini)... 206p. illus. Madrid, Apr.30, 1931. (Mus. nac. cien. nat. Trab. Ser. zool. Núm.56.) Bibliografía, p.201-202.

Cheesman, E.

Hunting insects in the South Seas. 243p. illus. London, Philip Allen & co., ltd., 1932.

Complete research program. European corn borer, 1932. United States and Canada. 48p. Multi-graphed.

Dadant, M. G.

Outapiaries and their management. Ed.2 rev. 126p. illus. Hamilton, Ill., American bee journal, 1932.

Düderlein, L. H. P.

... Insekten, Teil 1. Käfer, wespen, libellen, heuschrecken usw. 280p. illus. München, R. Oldenbourg, 1932. (Bestimmungsbuch für deutsche land- und süßwassertiere.)

Dongé, E. and Estiot, P.

... Les insectes et leurs dégâts. Deuxième édition entièrement refondue par E. Ségué... 148p. illus. Paris, P. Lechevalier et fils, 1931. (Half-title: Encyclopédie pratique du naturaliste VI.)

Donisthorpe, H. St. J.

An annotated list of the additions to the British coleopterous fauna made since the publication of the supplementary volume (VI) of Fowler's Coleoptera of the British Islands; introduction by James Walker. 103p. illus. London, Nathaniel J. Lloyd & co., ltd., 1931. (Reprinted from the Entomologist's monthly magazine, August 1929-August 1931.)

Eckstein, G.

Noguchi. 419p. illus. New York & London, Harper & borthers, 1931.

Empire cotton growing corporation.

Reports received from experiment stations 1930-1931. 241p. illus. London, 1932.

Fahringer, J.

Opuscula braconologica. Bd. 3. Palaearktische region. Bd.2, lfg.3, p.161-240; lfg.4, p.241-320. illus. Wien, Fritz Wagner, 1931. (Gesamtwerkes lfg.17-18.)

Faune des colonies francaises publiée sous la direction de A. Gruvel.

Tome V, fasc.1. Curculionidae de la Guadeloupe. Pt.3, par A. Hustache. 142p. illus. Paris, Administration Société d'éditions géographiques, maritimes et coloniales, 1932.

Gardiner, J. S., Editor

Natural history of Wicken Fen. Pt.6, Cambridge, Eng., Bowes & Bowes, March, 1932. Contents.- Cooper, J.O. & Tottenham, C. E. The Coleoptera of Wicken Fen, III. Hydradephaga; IV. Palpicornia; V. Staphylinidae-Ipidae, p.489-538; Lewis, D. J. The mosquitoes of Wicken Fen, p.548-559; Kerrich, G. J. Additions to the Ichneumonid fauna of Wicken Fen, p.560-566; Gambles, R. M. The Psocoptera of Wicken Fen, p.567-579; Allen, K. R. & Gambles, R. M. Preliminary account of the Ephemeroptera of Wicken Fen, p.580-582; Gambles, R. M. & Kerrich, G. J. Notes on Neuroptera, Mecoptera and Strepsiptera, p. 583-584.

Gil Collado, J.

... Monografía de los sírfidos de España... 376p. illus. Madrid, [Imp. de lib. y casa editorial Hernando (s.a.)] 1930. (Trabajos del Museo nacional de ciencias naturales. Serie zoológica, núm. 54.) Bibliografía, p.[373]-376.

Great Britain. Ministry of agriculture and fisheries.

Advisory leaflet, no.86-88, 91-92, 96. London, December 1931-January 1932. Contents.- no.86. The greenhouse whitefly [*Trialeurodes vaporariorum* Westd.]. 4p. illus. December 1931; no.87. The celery fly [*Acridia heraclei* Linn.]. 3p. illus. December 1931; no.88. The brown scale [*Lecanium corni* Bouché]. 4p. December 1931; no.91. The mangold fly [*Pegomyia betae* Curtis]., 45p. December 1931; no. 92. Fumigation with hydrocyanic acid gas. 4p. January 1932; no. 96. The apple sucker [*Psyllia mali* Schmidb.]. 4p. January 1932.

Gunn, D.

Two destructive insects of carnation plants (*Epichorista ionophela*, Meyr. and *Chloridea obsoleta*, Fab.). 9p. illus. Pretoria, Government printer, 1931. (Union of South Africa. Dept. agr. Bul. 94.)

Hempel, A.

... As pragas e molestias mais nocivas ao algodoeiro e seu tratamento... 60p. illus. Sao Paulo, [Typographia Brasil, Rothschild & co.], 1927. (At head of title: Secretaria da agricultura, comercio e obras publicas do estado de Sao Paulo. Directoria de publicidade.) Bibliographia, p.[57].

Henry, M.

... The control of the ked (tick) in sheep including report of investigations by H. R. Seddon... and C. Blumer... 28p. Sydney, Alfred James Kent, Government printer, 1932. (New South Wales Dept. agr. sci. Bul. no.38.) [*Melophagus ovinus*.] Literature cited, p.28.

India. Burma. Entomologist.

Report for nine months ending 31st March 1929. 9p. Rangoon, Supt. Gov't. printing and stationery, 1929. C. C. Ghosh, entomologist.

Ishida, M.

... The researches on the parasite of *Oregma lanigera* Zehnt. [*Encarsia flavoscutellum* Zehnt.] in Java with an account of its introduction into Formosa. 138p. illus. Taihoku, Formosa, Japan, Published by the Institute, March, 1929. (Formosa, Japan. Dept. agr. Gov't. res. inst. Rept.38.)

Lederer, G.

Einführung in die schädlingskunde... 472p. illus. Guben, Verlag der Internationalen entomologischen zeitschrift G.m.b.H., 1928-1932. Literatur-uebersicht, p.427-438.

Leuenberger, F.

Jahresbericht über die fallbrutversicherung des Vercines Deutsch-Schweizerischer bienenfreunde pro 1931. 9 p. Aarau, H. R. Sauerlander & co., 1932.

Lindor, E.

Die fliegen der palaerktischen region. lfg.60-61. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1932. Contents.- lfg.60. bd. 1 (Handbuch), p.145-160, illus.; lfg.61. 31. Syrphidae, p.337-384, illus.

McAtee, W. L.

Effectiveness in nature of the so-called protective adaptations in the animal kingdom, chiefly as illustrated by the food habits of nearctic birds. 201p. Washington, D.C., Smithsonian Inst., Mar. 15, 1932. (Smithsonian misc. coll. v.85, no.7(Pub.3125).) Bibliography, p.145-201.

Miwa, Y.

... A systematic catalogue of Formosan Coleoptera. 359p. Taihoku, Formosa, The Institute, 1931. (Formosa, Japan. Gov't. res. inst. Dept. agr. Rept. no.55.) Bibliography, p.[1]-XI. Text and added t.-p. in Japanese.

Monod, T.

Tanaidacés et Isopodes aquatiques de l'Afrique occidentale et septentrionale. 3^e Partie (1) Sphaeromatidae. 9lp. illus. Paris, Emile Larose, 1931. Index bibliographique, p.83-91. (Soc. sci. nat. Maroc. Mem. no.29, Dec. 31, 1931.)

Nuttall, G. H. F.

Thirty-five biographies and portraits of scientific men, being collected reprints from Parasitology, vols.XIII-XVII (1921-1925)... Edition limited to 75 copies. Various paging, ports. Cambridge, Printed by the University press, 1931.

Pape, H.

Die praxis der bekämpfung von krankheiten und schädlingen der zierpflanzen. 36lp. illus. diags. Berlin, P. Parey, 1932. Literatur, p.[40]-343.

Pavlovskii, E. N.

... Iadovitye zhivotnye SSSR.. Dlia vrachei, naturalistov i studentov. 202p. illus. Moskva [etc.] Gosudarstvennoe meditsinskoe izdatel'stov, 1931. Poisonous animals of the USSR. A manual for physicians, naturalists and students. Literatura, p.[199].

Pellett, K. L.

Charles Dadant; that bee man from Champagne. 119 numb.1. [Lehigh, Iowa, 1932?]. Typewritten.

Pettey, F.W.

The codling moth and experiments for its control in apple orchards of the high veld during 1930-31. 30p. illus. Pretoria, Government printer, 1931. (Union of South Africa. Dept. agr. sci. Bul. 104.)

Petty, F. W., and Griffiths, E. A.

Effective control of fruit fly by refrigeration. Report on cold storage tests for the control of fruit fly, 1929-30. 9p. Pretoria, Government printer, 1931. (Union of South Africa. Dept. agr. Sci. bul.99.)

Plateau, F. A. J.

Récherches expérimentales sur les mouvements respiratoires des insectes. 219p. illus. Bruxelles, F. Hayez, imprimeur de l'Académie royale de Belgique, 1884, "Extrait du tome XLV des Mémoires de l'Académie royale des sciences, des lettres et des beaux-arts de Belgique - 1884."

Riley, W. A., and Johannsen, O. A.

Medical entomology; a survey of insects and allied forms which affect the health of man and animals. First ed. 476p. illus. New York, McGraw-Hill book co., 1932. Bibliography, p.427-457. "The present text is a revision of the Handbook of medical entomology".

Roberts, F. H. S.

The cattle-poisoning sawfly (*Pterygophorus analis* Costa). 12p. illus. Brisbane, Frederick Phillips, Government printer, Jan.1932. (Queensland. Dept. agr. & stock. Div. ent. & plant path. Stock pest leaflet 4)

Roberts, F. H. S.

Some notes on the biology of Queensland sheep blowflies. 7p. illus. Brisbane, Frederick Phillips, Government printer, Oct.1931. (Queensland. Dept. agr. & stock. Div. ent. & plant path. Stock pest leaflet 3)

Ross, E.

... Praktikum der gallenkunde (ceciodologie) entstehung, entwicklung, bau der durch tiere und pflanzen hervorgerufenen gallbildungen sowie ökologie der gallenerreger. 312p. illus. Berlin, J. Springer, 1932. (Biologische studienbücher, hrsg. von W. Schoenichen...XII.)

Schniedeknecht, O.

Opuscula ichneumonologica. Supplement-band. Neubearbeitungen, fasc.XIII. Blankenburg i Thür, 1932. Contents.-Genus *Acanthocryptus* Thoms., p.1-17; *Microcryptus* Thoms., p.69-112; *Stylocryptus* Thoms., p.18-36.

Schnack, F.

The life of the butterfly, trans. by Winifred Katzin. 277p. Boston & New York, Houghton Mifflin co., 1932.

Strickland, C., and Chowdhury, K. L.

The anopheline larvae of the countries from India and the Orient to the Antipodes; a supplement (1931) to The anopheline larvae of India, Ceylon and Malaya. 36p. illus. Calcutta & Simla, Thacker, Spink & co., ltd., 1931. References, p.35-36. Bound with his, An illustrated key to the identification of the anopheline larvae of India, Ceylon, and Malaya, 1927.

Sturtevant, A. H., and Dabzhansky, T.

Contributions to the genetics of certain chromosome anomalies in *Drosophila melanogaster*. 81p. Washington, Carnegie institution, 1951. (Added t.p.: Carnegie institution of Washington. Publication no.421.) Literature cited, p.27, 59, 81.

Union of South Africa. Department of agriculture.

Entomology memoirs. Memoir 7. 81p. illus. Pretoria, Government printer, 1931. Contents.- *Aphis leguminosae* Theob., a biological study, by C. P. van der Merwe, p.5-16, illus.; Non-arsenical fruit-fly poisons, by L. B. Ripley and G. A. Hepburn, p.17-23, illus.; Further studies on the olfactory reactions of the Natal fruit-fly, *Pterandrus rosa* (Ksh.), by L. B. Ripley and G. A. Hepburn, p.24-31, illus. Bibliography, p.74-75.

United States..Committee on world war veterans' legislation. House of Representatives. Congress 71, Session 2.

On the treatment and cure of the disease known as osteomyelitis... Testimony of Dr. William Stevenson Baer... April 17, 1930. 24p. Washington, Government printing office, 1930.

Vaud (Canton) Switzerland. Département de l'agriculture, de l'industrie et du commerce. 3^{me} service: Agriculture.

Phylloxéra et reconstitution du vignoble. Rapport sur les essais viticoles cantonaux, et la lutte contre le phylloxéra durant l'année 1922-1930.

Various paging. Lausanne, Imprimerie Leon Burki, 1923; F. Baumgartner, 1924-1931.

Wasmann, E.

Neue anpassungstypen bei dorylinengästen Afrikas (Col., Staphylinidae).

p.257-360, illus. Leipzig, W. Engelmann, 1917. Literaturverzeichnis, p.353-357. Sonderabdruck aus: "Zeitschrift für wissenschaftliche zoologie", bd.CXVII, hft.2.

Wasmann, E.

Die paussiden des baltischen bernsteins und die stammesgeschichte der paussiden. 110p. illus. Berlin, Druck von de Gruyter & co., 1929.

Literaturverzeichnis, p.96-104. Sonderabdruck aus: "Bernsteinforschungen (Amber studies)" hft.1.

Wytzman, P.

Genera insectorum. fasc.193. Lepidoptera Rhopalocera. Fam. Danaididae, subfam. Danaidinae and Tellervinae, par R. P. G. Hulstaert. 215p. illus. Bruxelles, Louis Desmet-Verteneuil, 1931.

Zoppi-Recordati, A.

... L'Arnia e i principi dell'apicoltura moderna. 47p. illus. Piacenza, Federazione italiana dei consorzi agrari, [1931.] (On cover: Biblioteca per l'insegnamento agrario professionale.)

PERIODICALS

- Agricultural gazette of New South Wales (Sydney), v.45, pt.3, Mar.1,1932.
O'Gorman, C. L. Piroplasmosis or "Tich fever", p.161-166.
- L'Amateur de papillons (Paris), v.6, no.1-2, Jan-Feb.1932.
Joannis, J. de Clefs ou tables analytiques des genres de Crambidae
(Pyralidae) de France et de la Belgique, p.6-24.
- American journal of hygiene (Lancaster, Penn.), v.15, no.2, Mar.1932.
Curry, D. P. Some observations on the Myssorhynchus group of the
Anopheles (Culicidae) of Panama, p.566-572.
- American journal of nursing (Rochester, N. Y.), v.32, no.1, Jan.1932.
Bewitt, J. F. Osteomyelitis. Development of the use of magnets in
treatment, p.31-40.
- American journal of tropical medicine (Baltimore), v.12, no.1, Jan.1932
Davis, H. C., and Kumm, H. H. W. Further incrimination of Anopheles
darlingi Root as a transmitter of malaria, p.93-95.
- Annales des sciences naturelles. Zoologie (Paris), ser.10, v.15, fasc.1,
Mar.1932.
Dinulescu, G. Recherches sur la biologie des gastrophiles. Anatomie,
physiologie, cycle évolutif, p.1-183, illus. Index bibliographique,
p.172-180.
- Annals and magazine of natural history (London), ser.10, v.8, no.48, Dec.
1931.
Arrow, G. J. The coleopterous genus Trichilium (Copridae), with a key
to the species, p.609-611.
- Annals of tropical medicine and parasitology (Liverpool), v.26, no.1, Mar.19,
1932.
Evans, A. M. Notes on African mosquitoes, p.85-108, illus. References,
p.107-108.
Kumm, H. W. Observations of two malaria vectors and distribution records
of other Anopheles in the states of Bahia and Sergipe, Brazil, p.1-22,
illus. References, p.22.
Macfie, J. W. S. New Zealand biting midges (Diptera, Ceratopogoninae),
p.23-53, illus.
- Annotationes zoologicae Japonenses (Tokyo), v.13, no.3, Nov.1931.
Saito, S. A study on the life of an orb-weaving spider, Araneus ventri-
cosus L. Koch, p.143-148.
- Anzeiger für schädlingkunde (Berlin), Jahrg.8, hft.2, 1932.
Bodenheimer, F. S. Über die Berechnung der temperaturentwicklungshyper-
bol von Sympherobius amicus Nav., p.22-23, illus.
Horn, E. Gedanken über den gebrauch von entomologischer literatur, p.17-
21.

Anzeiger für schädlingkunde (Berlin). (cont.)

Zwölfer, W. Ein verbesserter Williamscher Brücken-thermostat, p.13-16, illus.

Archiv für schiffs-und tropen-hygiene (Leipzig), bd.36, hft.4, Apr.1932.

Fülleborn, F. Über den saugakt der stechmücken, p.169-181, illus.
Zitierte literatur, p.181.

Archivio zoologico italiano (Torino), v.17, fasc.1-2, 1932.

Arcangeli, A. L'ermafroditismo negli Isopodi terrestri. Ipotesi sopra la natura e la origine dello stesso e considerazioni su quello di altri animali, p.165-256.

Australia. Council for scientific and industrial research (Melbourne). Journal, v.5, no.1, Feb.1932.

Freney, M. R. Sheep blowfly investigations. Experiments on artificial baits: preliminary note on the products of decomposition of wool fibre (keratin), p.28-39.

Bernstein-forschungen (Amber studies) (Berlin), hrsg. von K. Andrée, hft.1, 1929; hft.2, 1931.

Alexander, C. P. Crane-flies of the Baltic amber, hft.2, p.1-135, illus.

Priesner, H. Bernstein-Thysanoptera II, hft.1, p.111-138, illus.

Sellnick, M. Milben im Bernstein, hft.2, p.148-180, illus.

Boletim biologico (Rio de Janeiro), fasc.19, Dec.20, 1931.

Pinto, C. Valor do rostro e antenas na caracterizacao dos generos de Triatomideos. Hemiptera. Reduviidae, p.45-136, illus.

Brooklyn entomological society (Lancaster, Penn.). Bulletin, v.27, no.1, Feb. 1932.

Buchanan, L. L. The parsley and carrot weevil, *Listronotus latiusculus* Boheman, p.7-8.

Cockerell, T. D. A. Bees (Hymenoptera, Apoidea) collected at Chichen Itzá, Yucutan, by the Harvard expeditions of 1929-1930, p.9-16.

Crampton, G. C. A phylogenetic study of the head capsule in certain Orthopteroid, Psocoid, Hemipteroid and holometabolous insects, p.19-50.

Rau, P. The courtship dance and sleeping habits of *Scolia dubia*, p.59-62.

Torre Bueno, J. R. de la *Murgantia histrionica* in Mississippi; and comment on the incompleteness of catalogues and faunal lists, p.18.

Bulletin of entomological research (London), v.23, pt.1, Mar.1932.

Boone-Wepster, J. A mosquito with larval habits like *Taeniorhynchus*.

[*Ficalbia* (*Minomyia*) *hybrida* Leicester], p.69-72, illus.

Brug, S. L. Notes on Dutch East Indian mosquitoes, p.73-83, illus.

Hardy, G. H. Notes on the *Sarcophaga peregrina* group (Dipt.), p.45-48.

Johnston, H. B. Notes on two locusts of minor economic importance in the Sudan. [*Anacridium moestum*, Serv.; *Cyrtacanthacris tatarica*, L.], p.49-64.

King, H. H., and Rutledge, W. On experiments in the use of poison dusts against adult *Locusta migratorioides*, Rch. & Frm., in the Sudan, p.65-68.

Leeson, H. S. Methods of rearing and maintaining large stocks of fleas and mosquitoes for experimental purposes, p.25-31, illus.

Bulletin of entomological research (London). (cont.)

Le Pelley, R. H. *Lygus simonyi*, Reut. (Hem. Capsid.), a pest of coffee in Kenya Colony, p.85-99, illus.

MacGill, E. I. The biology of *Erythroneura* (*Zygina*) *pallidifrons*, Edwards, p.33-43, illus. References, p.42-43.

MacLagan, D. S. An ecological study of the "Lucerne flea" (*Smynturus viridis*, Linn.) I, p.101-145, illus. References, p.144-145.

Miles, H. W. Biological studies of sawflies infesting *Ribes*, p.1-15, illus.

Theodor, O. On the structure of the buccal cavity, pharynx and spermatheca in South American *Phlebotomus*, p.17-23, illus.

Bulletin of the Hill museum, Witley, Surrey (London), v.4, no.3, 1932.

Joicy, J. J., and Talbot, G. A catalogue of the Lepidoptera of Hainan. [pt.2], p.257-262. Pt. 1, by J. J. Joicy, appeared under the same title in the Bulletin of the Hill museum, v.3, no.3, p.151-162, 1929.

California academy of sciences (San Francisco). Proceedings, ser.4, v.20, no.9, Mar.3, 1932.

Van Dyke, E. C. Miscellaneous studies in the Elateridae and related families of Coleoptera, p.291-465. Bibliography, p.435-444.

California university (Berkeley). Publications in entomology, v.5, no.15, no.16, 1932.

Barrett, R. E. An annotated list of the insects and arachnids affecting the various species of walnuts or members of the genus *Juglans* Linn., no.15, p.275-309. Bibliography, p.305-309.

Noble, N. S. Studies on *Habrocytus cerealellae* (Ashmead), a pteromalid parasite of the Angoumois grain moth, *Sitotroga cerealella* (Olivier), no.16, p.311-354, illus. Literature cited, p.354.

Canadian entomologist (Orillia, Ont.), v.64, no.2, Feb.1932.

Ross, H. H. The subfamily Lycaotinae in North America (Hymenoptera, Tenthredinidae), p.40-45, illus.

Country gentleman (Philadelphia), v.102, no.3, Mar.1932.

DeKruif, P. Doctor Baer, the bone-mender, p.3-5, 67, illus.

Elisha Mitchell scientific society (Chapel Hill, N. C.). Journal, v.47, no.1, Jan.1932.

Fulton, B. B. North Carolina's singing Orthoptera, p.55-69.

Traver, J. R. Mayflies of North Carolina, p.85-161, illus.

Entomological news (Philadelphia), v.43, 1932; no.4, Apr.; no.5, May.

Cole, A. C. Notes on the ant *Pogonomyrmex californicus*, Buckley (Hym.: Formicidae), no.5, p.113-115.

Fernald, H. T. Some old letters I. The ways of a wasp (Hymenoptera: Sphecidae), no.5, p.124-128.

Fifth International Congress of Entomology, Paris, 16-23, July, 1932, no.4, p.105-107.

Gamble, J. T. List of the aquatic beetles taken in Presque Isle, State Park, Lake Erie, Penna. (Coleop.: Dytiscidae, Haliplidae, Hydrophilidae, Gyrrinidae), no.5, p.122-124.

Entomological news (Philadelphia). (cont.)

- Garman, H. The genus *Archilestes* in Kentucky (Odonata: Agrionidae), no.4, p.85-92.
- O'Byrne, H. The migration and breeding of *Dione vanillae* in Missouri (Lepid.: Nymphalidae), no.4, p.97-99.
- Powell, E. F. The Chrysomelinae of Nebraska (Coleop.: Chrysomelidae), no.4, p.92-97.
- Rau, P. The relation of the size of the cell to the sex of the wasp in *Odynerus foraminatus* Sauss. (Hymenopt.: Vespidae), no.5, p.119-121.
- Spieth, H. T. A new method of studying the wing veins of the Mayflies and some results therefrom (Ephemera), no.4, p.103-105.

Entomological society of America. Annals (Columbus, Ohio), v.25, no.1, Mar. 1932.

- Abbott, C. E. The proboscis response of insects, with special reference to blowflies, p.241-244.
- Dean, R. W. The alimentary canal of the apple maggot *Rhagoletis pomonella* Walsh. (Dipt.: Trypetidae), p.210-219.
- DeLong, D. M. Some problems encountered in the estimation of insect populations by the sweeping method, p.13-17.
- Eaton, T. H. A review of some genera of Hesperinae (Hesperidae, Lepidoptera), p.18-25.
- Gerry, B. I. Morphological studies of the female genitalia of Cuban mosquitoes, p.31-64.
- Gillette, C. P., and Palmer, M. A. Six new aphids from Colorado, p.136-148.
- Haug, G. W. Description of the male of *Strumigenys louisianae* subsp. *laticephala* M. R. Smith (Hymen: Formicidae), p.170-172.
- Park, O. The myrmecocoles of *Lasius umbratus mixtus aphidicola* Walsh, p.77-88.
- Ross, H. H. The hymenopterous family Xyelidae in North America, p.153-167.
- Sweetman, H. L. The effects of temperature and moisture on the distribution of the Mexican bean beetle, *Epilachna corrupta* Muls., p.224-240.
- Valentine, J. M. *Horologion*, a new genus of cave beetles (Fam. Carabidae), p.1-8.

Entomologist's monthly magazine (London), ser.3, v.18 (whole ser. v.68), no.208 (whole ser. no.815), Apr.1932.

- Laing, F. *Borkhausenia pseudospretella* and other house moths, p.77-80.

Fukien Christian university. Natural history society (Foochow, China). Proceedings, v.3, Aug.1930.

- Steinwaden, J. B., and Moulton, D. Thysanoptera from China, p.19-30.

Gesellschaft für vorratsschutz. Mitteilungen (Berlin-Steglitz), Jahrg.8, no.2, Mar.1932.

- Böhme, [M.] Bekämpfung der dörrobsmotte, p.24-26.

Hawaiian forester and agriculturist (Honolulu), v.28, no.4, Oct.-Dec.1931.

- Fullaway, D. T. Report of a summer's work in the Orient, p.112-114. (Parasite of *Hercotothrips fasciatus* discovered, p.112-113.)

Insecta matsumurana (Sapporo), v.6, no.3, Feb.1932.

- Matsumura, S. A revision of the palaerctic and oriental typhlocybid-genera with descriptions of new species and new genera, p.93-120.

Journal of tropical medicine and hygiene (London), v.35, no.3, Feb.1,1932.
Andrew Balfour, (1875-1931), with an introduction by H. K. M. Troy,
p.36-43.

Kansai entomological society. Transactions (Osaka), no.2, Nov.1931.
A list of the Japanese Grabronidae (Cimbricidae) with descriptions of four new species, p.13-26.

Teranishi, C. Ants collected by Mr. K. Kobayashi on the island of Shikotan in the southern Kuriles, p.28-29.

Koleopterologische Rundschau (Vienna), v.17 (Jahrg.1931) no.6, Jan.31,1932.
Konakow, N., and Gnissimowa, Z.
Ein einfaches Biocönometer zur Auszählung der Insektenfauna der Grasdecke, p.249-251.

London. Entomological society. Proceedings, v.6, pt.5, Mar.22,1932.
Eltringham, H. [Entomology, bearing on human progress], p.106-123.

London. Zoological society. Proceedings, 1931, pt.4, Dec.
Bristowe, W. S. The mating habits of spiders: a second supplement with the description of a new thomasid from Krakatau, p.1401-1412, illus.
Finnegan, S. On a new species of mite of the family Heterozerconidae parasitic on a snake [Heterozercon oudemansi, n.sp.], p.1349-1357, illus. References, p.1357.
Misra, A. B. On the internal anatomy of the male lac insect, Laccifer lacca Kerr (Homoptera, Coccidae), p.1359-1381, illus.

Malayan agricultural journal (Kuala Lumpur), v.20, no.3, Mar.1932.
Pagden, H. T. Notes on padi stem borers, p.122-130, illus.

Miyazaki, Japan. College of agriculture and forestry. Bulletin, no.4, 1932.
Makazima, S., and Yotumoto, M. An experiment on the flight-ability of the silkworm moth (*Bombyx mori* L.); p.127-132, illus.

Musée zoologique de l'Académie des sciences de l'USSR. Annuaire (Leningrad), v.32, 1931.
Gussakovskij, V. Révision du genre *Ceropales* Latr. Hymenoptera, Psammocharidae, p.1-27.
Zimin, L. Révision des espèces paléarctiques du genre *Hystriomyia* Portsch. (Diptera), p.29-35, illus.

Muséum national de Prague. Section entomologique. Bulletin, v.7, 1929; v.9, 1931.
Obenberger, J. *Insecta Baumiana*. I, v.7, p.107-119, illus.; Revision des espèces exotiques du genre *Trachys* Fabr. du continent Asiatique, v.7, p.5-106, illus.; Revision des espèces du genre *Agrilomorpha* Théry (Col. Bupr.), v.9, p.5-83; Sur les *Agrilus* de l'Afrique de voisinage de l'*A. variegatus* Klug (Col. Bupr.), v.9, p.84-98.

National academy of sciences, Washington, D. C. Biographical memoirs, v.15, no.1, 1932.
Howard, L. O. Biographical memoir of Stephen Alfred Forbes, 1844-1930. 54p., port. Bibliography, p.26-54.

La Naturaliste canadien (Quebec), v.59, no.3, Mar.1932.

Maheux, G. Le mécanisme des epidémies d'insectes, p.59-72. References, p.72.

Nature (London), v.129, 1932; no.3255, Mar.19; no.3259, Apr.16.

Green, T. L. Function of the spiracles of insects, p.582.

T. A. H. Chinese materia medica, p.444.

New York entomological society. Journal (Lancaster, Penn.), v.40, no.1, Mar. 1932.

Huckett, H. C. The North American species of the genus *Limnophora* Robineau-Desvoidy, with descriptions of new species (Muscidae, Diptera), p.25-76.

Petrunkévitch, A. Collecting *Hypochilus*, p.19-23.

Weiss, H. B. John Pointer's collection of insects, p.95-97.

Wheeler, W. M. A list of the ants of Florida with descriptions of new forms, p.1-17.

Wilson, J. W. Coleoptera and Diptera collected from a New Jersey sheep pasture, p.77-93.

New York state museum (Albany). Bulletin, no.289, Jan.1932.

Metcalf, C. L. Black flies and other biting flies, p.5-58, illus. Bibliography, p.39-40.

Metcalf, C. L., and Sanderson, W. E. Control of biting flies in the Adirondacks, p.59-78, illus. Bibliography, p.72.

New Zealand journal of science and technology (Wellington), v.13, no.4, Feb. 1932.

Clark, A. F. Insects infesting *Pinus radiata* in New Zealand, p.235-243, illus. References, p.243.

Dumbleton, L. J. Report on spruce-aphis investigations for the year ending December, 1930, p.207-220, illus. Bibliography, p.220. (Cawthron inst., Nelson, N. Z., Forest biol. res. sta. Bul.1)

Pennsylvania academy of science (Harrisburg). Proceedings, v.5, 1931.

Stichter, G. B. Is the flight of the Japanese beetle necessarily restricted to a few months of the year?, p.40-42.

Philadelphia academy of natural sciences. Proceedings, v.83 for 1931, pub. 1932.

Hebard, M. The Orthoptera of Kansas, p.119-227.

Rehn, J. A. G. African and Malagasy Blattidae (Orthoptera). pt.1, p.305-387, illus.

Plant protection (Leningrad), v.8, no.5-6, 1931.

Joukovskij, A. V. The causes which determine the infestation of summer crops by *Oscinis frit* L., p.514-530.

Polskie pismo entomologiczne (Lwów), v.10, no.3-4, 1931.

Minkiewicz, R. Nids et proies des Sphégiens de Pologne. Fragments éthologiques. (Première série), p.196-218, illus.

- Portici. Laboratorio di zoologia generale e agraria del R. Istituto superiore agrario. Bollettino, v.25, 1931.
- Martelli, G. Contributo alla conoscenza dell'*Aporia crataegi* L. e di alcuni suoi parassiti ed epiparassiti, p.171-241. Bibliografia, p.236-238.
- Queensland agricultural journal (Brisbane), v.37, no.2, Feb.1932.
- Jarvis, E. Cane grub parasite for North Queensland from Philippines. [*Compsomeris aureicollis* Lep.], p.93-97, illus.
- Revue de pathologie végétale et d'entomologie agricole (Pavia), v.18, fasc.10, 1931.
- Frappa, C. Sur la présence à Madagascar de *Pseudococcus filamentosus* Ckll., cochenille nuisible aux caféiers, p.305-311. Bibliographie, p.311.
- Revue de zoologie et de botanique africaine (Bruxelles), v.21, fasc.3, Mar.15, 1932.
- Prout, L. B. New Geometridae from Congo Belge, p.241-254.
- Reichensperger, A. Die Paussiden des Belgischen Congo-gebiets. II Nachtrag, p.255-261.
- Rhodesia agricultural journal (Salisbury), v.29, no.1, Jan.1932.
- Jack, R. W. *Ephestia elutella*, Hb., as affecting the Southern Rhodesian tobacco export trade, p.32-36.
- Royal society of Queensland (Brisbane). Proceedings for 1930, v.42, Jan.1931.
- Dodd, A. P. The genus *Oxyscelio* Kieffer; its synonymy and species, with a description of one new genus (Hymenoptera: Proctotrupeoidea), p.71-81.
- Bracalba laminata* n. g., n.sp., p.78-80.
- Hamlyn-Harris, R. The consideration of certain factors as potentialities in mosquito control in Australia, p.86-105, illus. Literature, p.104-105.
- Schweizerische centralanstalt für den forstliche versuchswesen.(Zurich). Mitteilungen, bd. 17, hft.1, 1931.
- Nägeli, W. *Periclista lineata* Kl., eine eichenblattwespe als forstschädling, p.75-91.
- Shizuokaken agricultural experiment station (Shizuoka, Japan). Bulletin, no. 28, Nov.1931.
- Yago, M. ...Studies on the pear leaf-roller, *Cacoecia xylostearia* Linné (Preliminary report), 14p. illus.
- Sociedad entomológica de España (Madrid). Boletín, v.14,1931; no.8, Nov.; no.9, Dec.
- Castellarnau, I. S. de Interesantes hallazgos en los nidos papiráceos, de *Vespa germanica* F., no.9, p.156-161.
- Mendizábal, M. La mosca del olivo, no.8, p.131-136.
- Sociedad española de historia natural (Madrid). Reseñas científicas, v.6, núm.1-2, Nov.30, 1931.
- Gil Collado, J. Un dispositivo práctico para la observacion de pequeños insectos conservados en seco, p.51-53.

Società entomologica Italiana. Bollettino (Genova), v.64, no.1-2, Feb.15, 1932.
Soika, A. G. Secondo contributo alla conoscenza degli imenotteri del Lido di Venezia, p.20-24.

Società entomologica Italiana. Memorie (Genova), v.10, fasc.1, Nov.24, 1931.

Menzio, C. Revisione del genere *Epimyrma* Em. (Hymen. Formicidae) a descrizione di una specie inedita de questo genere [*Epimyrma gösswaldi* Menoz. n.sp.], p.36-53.

Müller, G. Note sugli Histeridae della Tripolitania e Tunisia raccolti durante i viaggi organizzati da S. A. Serenissima il Principe Alessandro della Torre e Tasso, p.93-104.

Société de biogéographie. II. Contribution à l'étude du peuplement des hautes montagnes... Paris, Paul LeChevalier, 1928.

Benoist, R. Les Hyménoptères mellifères des Alpes, p.81-85.

Chopard, L. La faune des Orthoptères des montagnes de États-Unis et ses rapports avec la faune paléarctique, p.142-149.

Jeannel, R. Les Trechus des hautes montagnes, p.122-134.

Motas, C. La faune hydracarienne des eaux courantes et des lacs élevés des Alpes du Dauphiné, p.150-186.

Peyerimhoff, P. de Composition et origine présumée de la faune (Coléoptères) des hautes montagnes de la Barbérie, p.107-121.

Sainte-Claire Deville, J. Esquisse du peuplement des Alpes françaises (Coléoptères).

Uvarov, B. P. Orthoptera of the mountains of Palearctic regions, p.135-141.

Société entomologique de Belgique. Bulletin et annales (Bruxelles), v.71, no.12 Mar.8, 1932; v.72, no.1-3, Mar.31, 1932.

Ball, F. J. De l'emploi des *Androconia* pour la détermination de certaines formes douteuses de papillons, v.72, no.1-3, p.49-102, illus.

Poll, M. Note sur la fonction des tubes de Malpighi des coléoptères, v.72, no.1-3, p.103-109.

Thomas, M. L'instinct et la psychologie des guêpes prédatrices, v.71, no.12, p.255-285. Auteurs cités, p.284-285.

Verlaine, L. L'instinct et l'intelligence chez les Hyménoptères XVII -L'origine des mâles chez les guêpes, v.72, no.1-3, p.89-97.

Société entomologique de France. Bulletin (Paris), v.37, no.2, 1932.

Balachowsky, A. Sur la présence du pou de S. José (*Aonidiella pernicios* Comst.) sur des pommes de provenance américaine vendues sur le marché de Paris, p.34-35.

Société linnéenne de Lyon. Annales, n.s., v.66, 1930.

Falcoz, L. Faune des coléoptères de la région Lyonnaise. Clavicornia, p.110-132.

Société zoologique de France (Paris). Mémoires, v.29, no.3, Jan.15, 1932.

Prout, L. B. Voyage de Ch. Alluaud et de R. Jeannel en Afrique orientale (1911-1912). Insectes Léidoptères III. Geometridae, p.375-512.

South-eastern agricultural college, Wye, England. Journal, no.29, Jan.1932.

Jary, S. G., and Austin, M. D. Department of entomology, p.7-14.

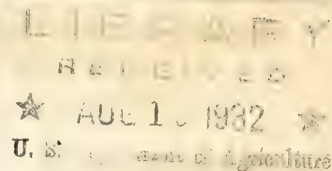
Martin, H. The chemistry of insecticides and fungicides, p.31-34.

- South of England entomological society. (Southampton). Transactions, v.7, pt.1, Dec.12, 1931.
- Hobby, B. M. A list of the prey of dung flies (Diptera, Cordyluridae), p.85-89.
- Stylops - a journal of taxonomic entomology (London), v.1, pt.2, Feb.15,1932.
- Aubertin, D. A tachinid fly parasitic on the bee-hole borer of teak, p.35-36, illus. [*Podomyia atkinsoni*, sp. n., only known parasite of *Xyleutes ceramica* Walk.]
- Suffolk naturalists' society (Norwich). Transactions, v.1, pt.1, 1932.
- Morley, C. The dragon-flies of Suffolk, p.19-24.
- Der Tropenpflanzer (Berlin), Jahrg,35, no.2, Feb.1932.
- Wille, J. Der coca-strauch Perus und seine schädlinge, p.47-64. Schriftenverzeichnis, p.64. (Beiträge zur kenntnis der schädlingfauna von Peru 4).
- Ungarisches biologisches forschungsinstitut (Tihany). Arbeiten, v.4, no.2, 1931.
- Koller, P. C. Genetic studies of the crosses of two races of *Drosophila obscura*, p.591-600. References, p.600.
- United States public health reports (Washington, D. C.), v.47, no.17, Apr.22,1932.
- Dyer, R. E., Workman, W. G., Badger, L. F., and Rumreich, A. The experimental transmission of endemic typhus fever of the United States by the rat-flea, *Ceratophyllus fasciatus*, p.931-932.
- Washington. Entomological society. Proceedings, v.34, 1932; no.2, Feb.; no.3, Mar.
- Aldrich, J. M. A new genus and two new species of muscoid flies from Guatemala, [*Chortinus bequaerti*, n.sp.; *Mesembrinella formosa*, n.sp.], p.23-25.
- Hood, J. D. A new thrips from Plummer's Island, Maryland, [*Thrips pectinatus* sp. nov.], p.37-40.
- Zeitschrift für wissenschaftliche biologie. Abt.C. Zeitschrift für vergleichende physiologie (Berlin), bd.15, hft.3, 1931.
- Opfinger, E. Über die orientierung der biene an der futterquelle. Die bedeutung von anflug und orientierungsflug für den lernvorgang bei Fabr., form-und ortsdressuren, p.431-487. Literaturverzeichnis, p.485-487.
- Zeitschrift für wissenschaftliche biologie. Abt.F. Zeitschrift für parasitenkunde (Berlin), bd. 4, hft.2; 1932.
- Borchert, A. Untersuchungen an den Acarapismilbe, p.331-368, illus. Literaturverzeichnis, p.367-368.
- Hase, A. Über die unterschiedliche widerstandsfähigkeit der parasitaren hauswanzen *Cimex lectularius* und *C. rotundatus* gegenüber der entwicklung von äthylendioxyd; nebst bemerkungen über die wirkung von äthylendioxyd auf meerschweine, p.369-386. Schriftenverzeichnis, p.386.
- Zeitschrift für wissenschaftliche zoologie (Leipzig), bd.140, hft.2/3, 1932.
- Urban, F. Der lauf der entflügelten honigbiene (*Apis mellifica*) zum licht und er einfluss von eingriffen an receptoren centralnervensystem und effectoren, p.291-355, illus. Literatur, p.355.
- Zoologische jahrbücher (Jena). Abt. für systematik, ökologie und geographie der tiere, bd.62, hft.5/6, 1932.
- Beier, M. Revision der Atemnidae (Pseudoscorpionidea), p.547-610, illus.

ENTOMOLOGY

CURRENT LITERATURE

SELECTED REFERENCES COMPILED BY THE STAFF OF THE BUREAU OF ENTOMOLOGY
LIBRARY FROM PUBLICATIONS RECEIVED IN THE LIBRARY OF THE UNITED STATES
DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.



Vol. 1

May - June 1932.

No. 3

This list is confined to new books on entomology and to selected periodical literature relating chiefly to economic entomology. Publications of the U. S. Department of Agriculture and of the state experiment stations, and all articles by members of the department staff, are omitted as these are listed weekly in the Official Record of the department. The contents of the Journal of Economic Entomology have been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

Aldrich, J. M.

Records of dipterous insects of the family Tachinidae, reared by the late George Dimmock, with description of one new species, and notes on the genus *Anetia* Robincau-Desvoidy. Sp. Washington, D. C., Smithsonian institution, U. S. National museum, 1932. (U. S. Natl. mus. Proc. v.80, art.20. [Sep. no.2920].)

Bequaert, J. C.

The Tabanidae of the American Museum Congo Expedition, 1909-1915. 19p. New York, June 15, 1932. (Amer. Mus. nov. no.539.)

Böhlmenstengel, A.

Der Deutsche Imkerbund, sein werden, wachsen und wirken. 158p. illus. Berlin, Fritz Pfennigstorff, [1931].

Bronn, H. G.

Klassen und Ordnungen des Tier-Reichs... Bd.5. Gliederfüßler: Arthropoda. II. abt.: Myriapoda, 2. buch.: Diplopoda, bearbeitet von K. W. Verhoeff. 12. lfg. p.1835-1932, Leipzig, Akademische Verlagsgesellschaft m. b. H., 1932.

Catalogue des lépidoptères français par plusieurs lépidoptéristes sous la direction de l'Amateur de papillons. Pt. 1. p.1-608, Paris, L. Lhomme, 1923.

Cheesman, L. E.

Hunting insects in the South Seas. 243p. illus. London, P. Allan & co., ltd., 1932.

Chen, K.

A preliminary list of the mulberry-tree insects of Chekiang Province, China. 6p. Hangchow, China, Bureau of entomology and phytopathology, Dec. 15, 1931. (Bur. ent. phytopathol. Hangchow, China. Tech. bul. no.3.)

Fahringer, J.

Opuscula braconologica. Bd.3 (Palaearktische region - Bd.2), lfg.4 (Gesamtwerk lfg.18). Rhogas. p.241-320, Wien, Verlag Fritz Wagner, 1932.

Felt, E. P., and Rankin, W. H.

Insects and diseases of ornamental trees and shrubs. 507p. illus. New York, Macmillan co., 1932. (Rural sci. ser. ed. by L. H. Bailey.) "A combination of the senior author's "Manual of tree and shrub insects" and the junior author's "Manual of tree diseases", entirely rewritten and brought down to date." - Pref.

Fleutiaux, E.

Contributions à l'étude de la faune du Mozambique. Voyage de M. P. Lesne (1928-1929). 6^e note.- Coleoptères, Elateridae. 27p. illus. Coimbra, Imprensa da universidade, 1932. (Mem. e estudos Mus. zool. Univ. Coimbra. ser.1, no.55.)

Goetghebuer, M.

Diptères Chironomidae IV. (Orthoclaadiinae, Corynoneurinae, Clunioninae, Diamesinae). 204p. illus. Paris, Lechevalier, 1932. (Fed. franc. soc. sci. nat. Off. cent. faunistique. Faune de France, 23.)

Hill, G.

Termites (white ants) in South-eastern Australia. 28p. illus. Melbourne, H. J. Green, Gov't. printer, 1932. (Australia. Council sci. indus. res. Pam.25.)

Janisch, E.

...Das exponentialgesetz als grundlage einer vergleichenden biologie. 383p. diagrs. Berlin, J. Springer, 1927. (Abhandlungen zur theorie der organischen entwicklung...hrsg. von H. Spemann...hft.11.) "Schrift-enverzeichnis"; p.[372]-383.

Leathersellers' company's warble fly committee.

Report on warble fly campaign, 1931. 32p. London, Leathersellers' hall, Feb.1932. Bibliography, p.31-32.

Lederer, G.

Einführung in die schädlingkunde... 472p. illus. Guben, Verlag der Internationalen entomologischen zeitschrift g. m. b. h., 1928-32. Literatur-uebersicht, p.427-438.

Leuckart, R.

Die fortpflanzung und entwicklung der pupiparen. Nach beobachtungen an
Melophagus ovinus. 82p. illus. Halle, H. W. Schmidt, 1858.

Martin, R.

...Pseudo-névroptères et névroptères. 220p. illus. Paris, Les fils
d'Emile Deyrolle, [1931]. (Half-title; Histoire naturelle de la France.
9^e bis partie.)

Moreira, C.

...Forficulideos do Brasil. 34p. illus. Rio de Janeiro, 1930. (Bra-
zil. Min. agr. indus. e com. Inst. biol. defesa agr. Bol.7.)

Moreira, C.

Insectos que corroem o chumbo. 8p. illus. Rio de Janeiro, 1930. (Bra-
zil. Min. agr. indus. e com. Inst. biol. defesa agr. Bol.8.)

Nielsen, E.

...The biology of spiders, with especial reference to the Danish fauna...
2v. illus. Copenhagen, Levin and Munksgaard, 1932. "An abbreviated
edition of ..."De danske edderkoppers biologi"...the altered title being
due to the inclusion of supplementary investigations...In two volumes of
which vol. II, the Danish edition, is...a supplement to vol. I."- Pref.

Perrier, R.

La faune de la France en tableaux synoptiques. Fasc.6. Coléoptères (Deux-
ieme partie) en collaboration avec Jean Delphy. 229p. illus. Paris,
Librairie Delagrave, 1932.

Pic, M.

Mélanges exotico entomologiques. Fasc.59. 36p. Moulins, "Les impri-
meries réunies", 1932.

Schenkling, S.

Coleopterorum catalogus. Pars 119-120. Berlin, W. Junk, 1931-1932.
Contents.- pars 119. Dalla Torre, K. W., and Emden, M. et F. van Curcu-
lionidae; Brachyderinae; Pachyrrhynchini. 44p.; pars 120. Korschefsky, R.
Coccinellidae II. p.225-659.

Schütze, K. T.

Die biologie der kleinschmetterlinge unter besonderer berücksichtigung ihr-
er nährpflanzen und erscheinungszeiten. Handbuch der microlepidopteren;
raupenkalender geordnet nach der illustrierten deutschen flora von H.
Wagner. 235p. illus. Frankfurt am Main, Verlag des Internationalen
entomologischen vereins e. v., 1931.

Takahashi, R.

Aleyrodidae of Formosa. Pt. I. 57p. illus. Taihoku, Formosa, Published
by the Institute, 1932. (Formosa, Japan, Dept. agr. Govt. res. inst. Rpt.
no.59.) Bibliography, p.50-52.

Tokunaga, M.

Morphological and biological studies on a new marine chironomid fly, *Ponto-
myia pacifica*, from Japan. Pt. I. Morphology and taxonomy. 56p. illus.
Kyoto, Japan, Kyoto Imperial university, 1932. (Kyoto imp. univ. Col.
Agr. Mem. no.19 (Ent. ser. no.3.). Bibliography, p.55-56.

Union County Mosquito extermination commission.
Report for 1931. 25p. Westfield, N. J., 1931.

Wedmore, E. B.

A manual of beekeeping for English-speaking beekeepers. 413p. illus. New York, Longmans, Green and co.; London, E. Arnold and co., 1932.

Williamson, E. B.

Dragonflies collected in Missouri. 40p. Ann Arbor, Mich., Published by the University, 1932. (Mich. Univ. Mus. zool. Occas. papers. No.240.)

Wilson, A.

Insects and their control. 383p. illus. Plainfield, New Jersey, Printed by Interstate printing corporation, 1931..

PERIODICALS

Académie des sciences. Paris. Comptes rendus, v.194, 1932; no.5, Feb.1; no.9, Feb.29; no.19, May 9.

Goldsmith, M. La proportion des sexes chez *Galleria melonella*, no.9, p.797-798.

Pussard, R. Sur un nematode parasite de *Psyllides*, no.5, p.493-494.

Roubaud, E. Les races tropiques de *Anopheles maculipennis* décelées par les élevages expérimentaux comparés, no.19, p.1694-1696.

Agricultural gazette of New South Wales (Sydney), v.43, 1932; pt.4, Apr.; pt.5, May.

Henry, M., and Gurney, W. B. The Buffalo fly. (*Lyperosia exigua* Meijere.), pt.5, p.329-335, illus.

Wason, E. J. A moth pest of wheat and oats. *Ptochostola microphaella* Walker, pt.4, p.260-262, illus.

American journal of hygiene (Baltimore), v.15, no.3, May 1932.

Barber, M. A., Rice, J. B., and Brown, J. V. Malaria studies on the Firestone rubber plantation in Liberia, West Africa, p.601-633, illus.

Hinman, E. H. Notes on Louisiana *Culicoides* - (Diptera: Ceratopogoninae), p.773-776.

Huff, C. G. Further infectivity experiments with mosquitoes and bird malaria, p.751-754.

Shannon, R. C. *Anopheles gambiae* in Brazil, p.634-663. Bibliography, p.660-661.

American museum of natural history (New York). Bulletin, v.63, art.3, Apr.16, 1932.

Huntington, E. I.

A list of the *Rhopalocera* of Barro Colorado Island, Canal Zone, Panama, p.191-230.

Annales des epiphyties (Paris), année 17, no.2-3, Mai-Juin 1931.

Regnier, R. L'organisation moderne de la protection des végétaux d'après l'exemple de quelques grands pays, p.113-247.

- Annals of applied biology (London), v.19, no.2, May 1932.
- Barnes, H. F. On the gall midges injurious to the cultivation of willows.
I. The bat willow gall midge (*Rhabdophaga terminalis* H. Lw.), p.243-252, illus.
- Cann, F. R. Laboratory tests of insecticides for use against wood-boring insects, p.291-294.
- Findlay, W. P. K. Laboratory methods for testing wood preservatives, p.271-280. References, p.280.
- Irms, A. D. Temperature and humidity in relation to problems of insect control, p.125-143, illus. References, p.143.
- Tattersfield, F., and Gimingham, C.T. The insecticidal properties of *Tephrosia macropoda* Harv. and other tropical plants, p.253-262. References, p.262.
- Australia. Council for scientific and industrial research (Melbourne). Journal, v.5, no.2, May 1932.
- Freney, M. R. The chemical treatment of baits for attracting blowflies. I, p.94-97.
- Barbados. Department of science and agriculture (Bridgetown). Agricultural journal, v.1, no.1, Jan.1932.
- Tucker, R. W. E. A survey of the position of *Phytalus smithi* Arrow, and its natural enemies in Barbados, p.18-23; The status of *Trichogramma* as a control of *D. saccharalis* in Barbados, p.29-36. References, p.36.
- Berlin. Zoologisches museum. Mitteilungen, bd.17, hft.6, 1931.
- Günther, K. Beiträge zur systematik und geschichte der Phasmoiden-fauna Ozeaniens, p.753-835. Literatur, p.829-831.
- Biologisches zentralblatt (Leipzig), bd.51, hft.12, 1931; bd.52, hft.1, 4, 1932.
- Bruel, L. Über begriff und erklärung der mimikry bd.52, hft.1, p.13-42. Literaturverzeichnis, p.41-42.
- Eidmann, H. Die koloniegründung von *Lasius flavus* F. nebst weiteren untersuchungen über die koloni-gründung der ameisen, bd.51, hft.12, p.657-677, Literaturverzeichnis, p.676-677.
- Slifer, E. H. Insect development. III. Blastokinesis in the living grasshopper egg, bd.52, hft.4, p.223-229. References, p.229.
- Brooklyn entomological society (Lancaster, Penn.). Bulletin, v.27, no.2, 1932.
- Bequaert, J. *Poderus signaticornis* Sharp, the cause of vesicular dermatitis in Guatemala (Coleoptera: Staphylinidae), p.107-112.
- Davis, W. T. A coccinellid beetle new to the fauna of New York State [*Coccinella undecimpunctata*], p.101.
- Drake, C. J., and Harris, H. M. A survey of the species of *Trepobates* Uhler (Hemiptera, Gerridae), p.113-123, illus.
- Felt, E. P. A new Japanese gall midge [*Trishormonyia bambusae*, n.sp.], p.124.
- Learned, E. T. *Eriopyga contrahens* (Wlk.) in red pepper, p.112.
- Mills, H. B. Catalogue of the Protura, p.125-130.
- Sherman, J. D. The "First Series" of the Bulletin of the Brooklyn entomological society, volumes I-VII: 1878-1885, p.102-106.

California. Department of agriculture (Sacramento). Monthly bulletin, v.21, no.2-3, Feb.-Mar.1932.

Crane, H. A. Observations and notes on pear mite, generally known as *Eriophyes pyri*, p.214-217.

Mackie, D. B. An attempt to measure the hazard from power lines during spraying operations, p.196-203, illus.

California university (Berkeley). Publications in entomology, v.5, no.17, 1932.

Light, S. F. Contribution toward a revision of the American species of *Anitermes Silvestri*, p.355-414, illus.

Campo (Rio de Janeiro), v.3, 1932: no.1, Jan.; no.2, Feb.; no.3, Mar.

Azevedo Marques, L. A. de Insectos daninhos a batata doce, seus habitos e os meios de combatel-os, no.1, p.45-48, illus.; no.2, p.33-36, illus.

Miranda, T. de Expurgo e beneficiamento de cereais, no.1, p.33-34, illus.

Monte, O. Dois coleopteros prejudiciais as rosas, no.1, p.111-112, illus.

Raymundo, B. Nomenclatura popular dos lepidopteros do Districto Federal e seus arredores, no.1, p.65-66, 70, illus.; no.2, p.49-51, 67-69, illus.; no.3, p.49-51, illus.

Canadian entomologist (Orillia), v.64, no.5, 1932.

Chagnon, G. A Hymenopteron of aquatic habits, p.112.

Criddle, N. The life-history of *Schistocerca lineata* Scud., p.98-102, illus.

Hoffman, C. H. The biology of three North American species of *Mesovalia* (Hemiptera - Mesoveliidae), p.113-120.

McDunnough, J. Notes on Agrotid genera with descriptions of new species (Lepid.), p.104-112.

Stanford, J. S. Mallophaga from Utah birds and mammals, p.112-113.

East Africa and Uganda natural history society (Nairobi). Journal, no.40-41, Dec.1930-Mar.1931.

Carpenter, G. D. H. Mimicry, natural selection, and *Acraea johnstoni*, p.78-90.

LePelley, R. H. On the pest-status of certain coffee feeding insects, with records of some insects newly recorded from coffee in Kenya, p.67-77.

Entomologica Americana (Lancaster, Penn.), v.12 (new ser.), no.2, Sept.1931.

Bequaert, J. A tentative synopsis of the hornets and yellow-jackets (Vespinae; Hymenoptera) of America, p.71-138. Bibliography of American Vespinae, p.127-138.

Entomological news (Philadelphia), v.43, no.6, June 1932.

Bernald, H. T. Some old letters. II. An attractant for the monarch butterfly (Lep.: Danaidae); III. A case of mimicry. (*Calopteron reticulatum* var. *apicale* Lec. (Coleop.; Lycidae) and *Lycomorpha pholus* Dru. (Lep.: Syntomidae), p.162-164.

Smith, M. R. An additional annotated list of the ants of Mississippi (Hym. Formicidae), p.157-160.

Thomas, C. A. The disques of Elateridae (Coleoptera), p.149-155.

The Entomologist (London), v.65, 1932; no.828, May; no.829, June.

Edwards, F. W. Introduced Diptera in hot-houses at Kew. [*Sciara radicum* Brun. and *Spaniotoma (Orthocladus) furcata* Kieff.], p.136.

Kirmins, D. E. Some observations on the life history of *Chrysopa abbreviata*, Curt., p.106-107, illus.

Tulloch, J. B. G. The effect of wind on butterfly movements, p.138-139.

Entomologist's monthly magazine (London), ser.3, v.18, (whole ser.v.68), no. 209 (whole ser.no.816), May 1932.

Edwards, F. W. A ridge attacking lace-wing flies in Britain [*Forcipomyia eques* (Johannsen).], p.114-115.

Eos (Madrid), v.8, no.1, Apr.1932.

Bey-Bienko, G. Orthoptera Palaearctica critica. XI. The group *Chrysochraontes* (Acrid.), p.43-92, illus. Literature cited, p.89-92.

Mahdihassan, S. The third stage larva of the female lac insect (Hem. Cocc.), p.11-28.

Indian forest records. (Calcutta). Entomological series, v.16, pt.11, 1932.

Gardner, J. C. M. Immature stages of Indian Coleoptera (10) Anthribidae, 8p. illus.

Institució Catalana d'història natural. Butlletí (Barcelona), ser.2, v.11, (whole ser.v.31), núms.4-5-6, Abril-Juny 1931.

Codina, A. Un habitat de *Dermestes mustelinus* Er. (Col. Dermestidae) favorable à l'economia forestal, p.78-80, illus.

Institut Pasteur de Tunis. Archives, v.20, no.4, 1932.

Colas-Belcour, J. Contribution à l'étude de *Rhipicephalus (Pterygodes) fulvus* Neumann et de sa biologie, p.430-443, illus.

R. Istituto superiore agrario (Bologna). Laboratorio di entomologia. Bollettino, v.4, 1931.

Goidanich, A. Gli insetti predatori e parassiti della *Pyrausta nubilalis* Hüb. III. Contributo alla conoscenza dell'entomofauna della Canapa, p.77-218, illus. Bibliografia citata, p.196-213.

Grandi, G. Contributi alla conoscenza biologica e morfologica degli Imenotteri melliferi e predatori, p.19-72, illus; Scoperta di un nuovo braconide (*Perilitus norini* Ferr.) parassita degli adulti del *Morimus asper* Sulz. (Coleoptera-Cerambycidae) e descrizione della sua larva, p.1-4, illus.

Servadei, A. Reperti sull'*Agria nanillata* Pandellé (Diptera-Sarcophagidae), p.73-76, illus.

Instituto Oswaldo Cruz, Rio de Janeiro. Memorias, v.26, fasc.1, 1932.

Costa Lima, A. de Sobre os *Phlebotomus* americanos (Diptera: Psychodidae), p.15-69, illus.

Journal of animal ecology (London), v.1, no.1, May 1932.

Barnes, H. F. Studies of fluctuations in insect populations I. The infestation of broadbalk wheat by the wheat blossom midges (*Cecidomyiidae*), p.12-31, illus. References, p.28.

Elton, C. Territory among wood ants (*Formica rufa* L.) at Picket Hill, p.69-76, illus.

Hobby, B. M. A study of the prey of *Dioctria rufipes* de G. (Diptera, Asilidae) in an Oxford community, p.77-82, References, p.82.

- Journal of the Ministry of agriculture, Great Britain, v.38, no.12, Mar.1932.
Edwards, E. E. Cabbage root fly and methods for its control, p.1230-1237.
References, p.1237.
- Journal of tropical medicine (London), v.35, no.9, May 2, 1932.
Corson, J. F. The results of successive bites of an infected tsetse fly
[*Glossina morsitans*]; p.136-137.
Malaria control by anti-mosquito measures, p.138-150.
- Kitasato archives of experimental medicine (Tokyo), v.9, no.2, Apr.1932.
Kodama, M., Kono, M. and Takahashi, K. Demonstration of *Rickettsia*
manchuriae appearing in the stomach epithelial cells of rat fleas and
rat lice infected with the so-called Manchurian typhus, p.91-96, illus.
References, p.94-95.
- Zoonowia (Wien), v.10, hft.4, Dec.1,1931.
Arnhart, L. Ein einfachster mikrographischer reiseapparat, p.286-
289, illus.
Bodenheimer, F. S. Zur kenntnis der palarktischen Kermesarten (Rhy-
Cocc.), p.241-247.
- Lingnan science journal (Canton, China), v.11,1932; no.1, Mar.30; no.2, May 15.
Hartman, E. Some observations on experimental disease in silkworms, no.1,
p.69-75.
Hartman, E., and Wong, W. S. Some effects of increasing the protein content
of the diet of silkworms, no.1, p.77-80.
Hoffman, W. E. The economic status of the Lygaeids and notes on the life-
history of *Lygaeus hospes* Fabr. and *Aphanus sordidus* Fabr. (Hemiptera, Ly-
gaeidae), no.1, p.119-135. References, p.135; Interesting flies from the
Island of Hainan, no.2, p.289-290.
Liu, G. Catalogue and generic synopsis of the Elateridae of China, no.2,
p.211-247. Bibliography, p.246-247.
Riley, W. A. An annotated list of Canton, China, mosquitoes, based on col-
lections by the late C. W. Howard, no.1, p.25-35. References, p.35;
Dyar's Canton species of *Aedes* mosquitoes, no.2, p.283-285; The ear
chigoe of rats in China, *Tunga caecigena* J. and R., no.2, p.285-287;
Buddle's Notes on the mosquitoes of the Canton Delta, no.2, p.287-289.
Riley, W. A., and Liang-yu, W. The anopheline mosquitoes of China, no.2,
p.175-191, illus. Bibliography, p.190-191.
- Linnean society of New South Wales (Sydney). Proceedings, v.46, pt.4, (no.
236, Oct.15, 1931.
Tillyard, R. J. The wing-venation of the order Isoptera. I. Introduction
and the family Mastotermitidae, p.371-390, illus.
- Milwaukee, Wisconsin. Public museum. Bulletin, v.8, no.2, May 25, 1932.
Dickinson, W. E. The crane flies of Wisconsin, with a description of a
new species by C. P. Alexander, p.139-266, illus. Bibliography; p.246.
- Musée du Congo Belge. Annales (Brussels). Zoologie, ser.3, sect.II, v.1,
fasc.2, Oct.1931.
Schouteden, H. Catalogues raisonnés de la faune entomologique du Congo-
Belge. Hemiptera, Fam. Reduviidae (1^{re} partie), p.98-161, illus.

- Nature (London), v.129, 1932; no.3262, May 7; no.3266, June 4; no.3267, June 11.
Control of Canadian insect pests, no.3262, p.683.
Davidson, J. Resistance of the eggs of *Collembola* to drought conditions, no.3267, p.867.
Frequency of insects in the air, no.3262, p.683.
Turk, F. A. Swarming of *Collembola* in England, no.3266, p.830-831. References, p.831.
- Nederlandsch-Indische bladen voor diergeneeskunde (Buitenzorg, Java), Deel 44, 1^o aflg, Feb. 1932.
Nieschulz, O. Over de beteekenis van bloedzuigende insecten bij de verspreiding van miltvuur, p.46-51.
- Notulae entomologicae (Helsingfors, Finland), v.11, no.3-4, 1931; v.12, no.1, 1932.
Henriksen, K. L. The manner of moulting in Arthropods, v.11, no.3-4, p.103-127. Literature, p.124-127.
Hertz, M. Upptredande av *Lophyrus pini* i närheten av Kärlisalmi, v.11, no.3-4, p.152-156.
Hukkinen, Y. Notizen über unsere schädlinge und nützlinge. 4. Die Thysanopterenlarven als beute der grabwespe *Spilomena troglodytes* v.d. Linden, v.12, no.1, p.21-26. Literatur, p.25-26.
- Ohara instituts für landwirtschaftliche forschungen in Kuraschildi, Japan. Berichte, bd. 5, hft.2, 1932.
Harukawa, C., and Kumashiro, S. On the pear-bark miner, *Acrocercops astaurota* Meyrick. II, p.301-310.
- Ohio Journal of Science (Columbus), v.32, no.3, May 1932.
Burgess, E. D. A comparison of the alimentary canals of the active and hibernating adults of the Mexican bean beetle, *Epilachna corrupta* Muls., p.249-258.
Cole, A. C. The rebuilding of mounds of the ant, *Pogonomyrmex occidentalis*, p.245-246, 1932. Nests of the ant, *Formica subpolita* Mayr. in the western United States, p.247-248.
Lumer, H. The reactions of certain Cladocera to colored lights of equal intensity, p.218-231.
- Panjab university (Lahore, India). Department of zoology. Bulletin, v.1, Apr.1931.
Puri, D. R. Fauna of Lahore. I. Butterflies of Lahore, p.1-61, illus. References, p.57-61.
- Philippine journal of science (Manila), v.47, no.4, 1932.
Holt, R. L., and Kintner, J. H. Antimosquito sprays, p.433-438.
Russell, P. F. The control of *Anopheles minimus* mosquito larvae in the Philippines by stranding and flushing, p.439-445.
- Porto Rico. Department of agriculture (Rio Piedras). Journal, v.16, no.1, Jan.1932.
Leonard, M. D. Additional references to the bean lace bug (*Corythucha gossypii*), p.75-76; The initiation of an insect pest survey in Porto Rico, p.59-64; The pink bollworm of cotton in Porto Rico, p.65-73. Literature, p.72-73.

Revista de entomologia (Sao Paulo, Brasil), v.2, 1932; fasc.2, Mar.31; fasc.3, May 10.

Autuori, M. Contribuicao para o estudo biologico de *Eutriatoma flavida* (Noiva), fasc.3, p.269-275, illus.

Borgmeier, T. Revisao do genero *ecitophilo Xanionotum* Brues, com a descricao de duas especies novas (Dipt. Phoridae), fasc.3, p.369-380, illus.

Bruch, C. Metamorfosis de *Entimus nobilis* Oliv. (Coleopt., Curculionidae), fasc.2, p.179-185, illus.

Revista de entomologia (Sao Paulo, Brasil) cont.

Costa Lima, A. da Insectos que atacam Borriginaccas do genero *Cordia*, fasc.2, p.176-179, illus.

Fischer, C. R. Nota taxonomica e biologica sobre *Anastrepha grandis* Macq. (Dipt. Trypetidae), fasc.3, p.302-310, illus.

Fonseca, J. Pinto da, and Autuori, M. Lista dos principais insectos que atacam plantas criticas no Brasil, fasc.2, p.202-216.

Krüber, O. Die Tabaniden-subfamilie *Bellardiinae* End. (Dipt.) der neotropischen region, fasc.3, p.289-302, illus.

Menzzi, C. Contributo alla conoscenza dei Dermatteri del Brasile, fasc.2, p.150-168, illus.

Olmedo, I. H. El tenthredinido *Neodiprion vallicola* Roh., plaga de los pinos en el estado de Michoacan, Mexico, fasc.2, p.168-175, illus.

Wille, J. *Margaronia quadristigmalis* Guén (Lepidopt. Pyralidae), ein grossschädling des olivenbaumes. (Beiträge zur schädlingfauna Perús, VI.), fasc.3, p.339-369, illus. Schriftenverzeichnis, p.369.

Revue de pathologie végétale et d'entomologie agricole (Paris), v.18, fasc.8-9, Oct.-Nov.1931.

Trouvelot, B., and Thenard, J. Remarques sur les éléments des végétaux contribuant à limiter ou à empêcher la pullulation du *Leptinotarsa decemlineata* Say sur de nombreuses espèces ou races végétales, p.277-285, illus.

Science (New York), new ser., v.76, no.1953, June 3, 1932.

Dobrovolsky, C. G. An inexpensive micrographic projector, p.588-590, illus.

Société de pathologie exotique (Paris), Bulletin, v.25, no.3, Mar.9, 1932.

Margandier, M., and Pirat, R. Etude sur les ectoparasites des rats de Toulon, p.237-244.

Thoulon, L. Sur quelques accidents consecutifs à l'infestation filarienne observés au Gabon (1929-31), p.234-237.

Toumanoff, C., and Farinaud, E. Note sur une prospection entomologique à Chapa. Présence de deux espèces anophelines jusqu'ici méconnues en Indo-chine: *T. lindesaii* Giles et *A. gigas* var., *baileyi* Edw., p.245-247.

Société d'histoire naturelle de l'Afrique du Nord (Algiers). Bulletin v.23, no.3, Mar. 1932.

Cros, A. *Toxophora maculata* Rossi (Diptera-Bombyliidae). Etude biologique, p.67-73.

- Société entomologique de France. Bulletin (Paris), v.37, 1932; no.7, Apr.13; no.8, Apr.27.
- Boulangé, H. Observations biologiques sur la larve d'*Empria* (*Poecilostoma*) *abdominalis* F. [Hym. Tenthredinidae] et les causes déterminantes du fousissement, no.8, p.127-132.
- Pussard, R. Sur la présence en France d'*Amaraphis persicae* niger Smith, [Hem. Aphididae], no.7, p.110-113.
- Royer, M. Note bibliographique [Hem.], no.7, p.114-115. [On the dates of Hahn's Wanzenartigen insecten.]
- South of England. Entomological society. Journal, (Southampton), v.1, no.1, Apr.28, 1932.
- Davis, D. H. S. Coleoptera found in a nest of the American grey squirrel (*Sciurus carolinensis* Gmelin) from Wychwood Forest, Woodstock, Oxon, 13.II.30, p.3-4.
- Haines, F. H. *Cryptorrhynchus lapathi* Linn. (Col.), a serious pest of *Salix viminalis* Linn., p.18.
- Hobby, B. M. Insects fertilising the orchid, *Listera ovata* Br., p.4; Prey of *Cantharidae* (Coleoptera), p.6.
- Hobby, B. M., and Killington, F. J. Defensive display by *Pyrameis atalanta* L. (Lep.), against attack of hornet, *Vespa crabro* L. (Hym.), p.7.
- Killington, F. J. Hymenopterous parasites bred from larvae of *Hemerobiidae* (Neuroptera), p.7-8.
- Poulton, E. B. Indirect evidence that parasemantic eye-spots are advantageous in the struggle for existence, p.2-3.
- South of England. Entomological society. Transactions (Southampton), v.7, pt.2, June 1, 1932.
- Killington, F. J. A contribution towards a biological survey of the Megaloptera and Neuroptera of Hampshire and the Isle of Wight, p.56-80. References, p.80.
- Walker, J. J. An annotated list of the Coleoptera of the Isle of Sheppey, p.81-140. References, p.139-140.
- Spolia zeylanica* (Ceylon), v.16, pt.3, Mar.18, 1932.
- Henry, G. M. Note on the diving powers of *Halobates*, p.353-354; Notes on Ceylon Tettigonidae, with descriptions of new species. Pt.1, p.229-256, illus.
- Wiener entomologische zeitung (Wien), v.49, hft.1, 1932.
- Spaeth, F. Bestimmungstabelle der Hoplionota-arten (Col. Chrysom.) von Madagaskar und nachbarinseln, p.1-15.
- Zeitschrift für wissenschaftliche biologie. Abt.C. Zeitschrift für vergleichende physiologie (Berlin), bd.16, hft.3, 1932.
- Fraenkel, G. Untersuchungen über die koordination von reflexen und automatisch-nervösen rhythmien bei insekten, p.371-462. Literaturverzeichnis, p.460-462.
- Tinbergen, N. Über die orientierung des bienen-wolfes (*Philanthus triangulum* Fabr.), p.305-334, illus. Literaturverzeichnis, p.334.
- Zeitschrift für wissenschaftliche zoologie (Leipzig), v.140, hft.4, 1932.
- Strasburger, M. Bau, funktion und variabilität des darmptractus von *Drosophila melanogaster* Meigen, p.539-649, illus. Literaturverzeichnis, p.645-649.

- Zentralblatt für bakteriologie, parasitenkunde und infektionskrankheiten.
(Jena), Abt. I. Medizinisch hygienische bakteriologie und tierische parasitenkunde. Originale, bd. 124, hft. 5/6, Mai 6, 1932.
Birk, W. Die uebertragung des Paratyphus breslau durch die *Stenoxys calcitrans*, p. 280-300. Literaturverzeichnis, p. 300.
- Zoogeographica (Jena), bd. 1, hft. 1, 1932.
Holdhaus, K. Die Europäische höhlenfauna in ihren beziehungen zur eiszeit, p. 1-53, illus. Auswahl der literatur, p. 49-52.
- Zoologischer anzeiger (Leipzig), bd. 98, hft. 3/4, Mar. 15, 1932.
Bartenef, A. Über die tageskurven des fluges von *Aeschna juncea* L. (Odonata) an hochgebirgsgewässern, p. 91-94.
Thor, S. Norwegische Tydeidae VIII-XV, mit bemerkungen über die gattung *Tydeus* und über augen, tracheen usw., p. 69-91.

19
E4852E

ENTOMOLOGY

LIBRARY
RECEIVED
★ SEP 11 1932
U. S. DEPARTMENT OF AGRICULTURE

CURRENT LITERATURE

SELECTED REFERENCES COMPILED BY THE STAFF OF THE BUREAU OF ENTOMOLOGY
LIBRARY FROM PUBLICATIONS RECEIVED IN THE LIBRARY OF THE UNITED STATES
DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

Vol. 1

July - August 1932.

No. 4

This list is confined to new books on entomology and to selected periodical literature relating chiefly to economic entomology. Publications of the U. S. Department of Agriculture and of the state experiment stations, and all articles by members of the department staff, are omitted as these are listed weekly in the Official Record of the department. The contents of the Journal of Economic Entomology have been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

Ahlberg, O.

Arttripsen (*Kakothrips robustus* Uzel). 11p. illus. Stockholm, O. L. Svanbäcks Boktryckeri, 1932. (Meddelande Nr 406 från Centralanstalten för försöksväsendet på jordbruksområdet. Lantbruksentomologiska avdelningen Nr 63.)

Aldrich, J. M.

New Diptera, or two-winged flies, from America, Asia, and Java, with additional notes. 28p. illus. Washington, D. C., Smithsonian Institution, U. S. National Museum, 1932. (U. S. Natl. Mus. Proc. v.81, art.9. [Sep. no.2932.]])

Amaral, A. do.

...Animas venenosos do Brasil... 65p. illus. Sao Paulo, 1931. At head of title: Secretaria da agricultura, industria e commercio do Estado de Sao Paulo.

Aurivillius, P. O. C.

Lepidopterorum catalogus. pars 51-52. Berlin, Junk, 1932. Contents.- pars 51. Stichel, H. Brassolidae, 115p.; pars 52. Gaede, M. Aganaidae, 39p.

Berry, P. A., and McGough, J. M.

La mosca prieta de los citrus (*Aleurocanthus woglumi*, Ashby) y su desarrollo en Cuba. 17p. Junio, 1932. Literatura citada, p.16-17.

At head of title: Cuba. Sec. agr., com. y trab. Negociado de agr. Secc. de sanid. veg.

Biologische reichsanstalt für land-und forstwirtschaft in Berlin-Dahlem.

Bibliographie der pflanzenschutzliteratur das jahr 1931. Bearbeitet von ...H. Morstatt. 251p. Berlin, Paul Parey, 1932.

Bonet, F.

...Estudios sobre colémbolos cavernícolas con especial referencia a los de la fauna española. 231-403p. illus. Madrid, Museo nacional de ciencias naturales, 1931. (Mem. Soc. española hist. nat. v.14, Mem.4)

Bibliografía, p.393-403.

Cammerloher, H.

Blütenbiologie I. Wechselbeziehungen zwischen blumen und insekten. 199p. illus. Berlin, Borntraeger, 1931. Literaturverzeichnis, p.181-188.

At head of title: Sammlung Borntraeger Bd.15.

Chevalier, J.

De chrysanthème (Pyrèthre) insecticide, culture et rendement ses principes actifs (Pyréthrinés) et leur utilisation contre les parasites des végétaux et des animaux. 26p. Paris, 1930. (France. Min. com. et l'indus. Off. Natl. mat. prem. vég. pour la droguerie...no.33.).

Clark, A. H.

The forms of the common old world swallowtail butterfly (*Papilio machaon*) in North America, with descriptions of two new species. 15p. illus. Washington, D. C., Smithsonian institution, U. S. National museum, 1932. (U. S. Natl. mus. Proc. v.81, art.11. [Sep. no.2934.]).

Congrès de la lutte contre les ennemis des cultures, Paris, 1931.

Congrès de la lutte contre les ennemis des cultures... Various paging, [Abbeville, F. Paillart, 1931.] At head of title: Exposition coloniale internationale Paris 1931. Contents.- Les ennemis des cultures en Afrique Occidentale Française, 8p.;...au Maroc. Par Mr. Regnier, 4p.; ...en Afrique Equatoriale Française, 4p.; L'Organisation d'un service météorologique colonial adapté aux besoins agricoles et en particulier a la "Lutte contre les ennemis des cultures". Par Mr. Delcambre, 12p.; Les ennemis des cultures en Syrie, 7p.; ...au Cameroun, 6p.; ...en Nouvelle-Calédonie, aux Nouvelles-Hébrides, aux Iles Loyautés et aux Iles Wallis. Par Mr. Risbec, 4p.; Organisation de la lutte et mesures de protection prises contre les parasites et maladies des cultures. Améliorations a y apporter. Algérie. By Mm. Delassus et R. Pasquier, 9p.; ...Ile de la Réunion. By A. Kopp, 7p.; ...Indochine. By H. Barat et Mr. Commun, 20p.; Les ennemis de cultures a Madagascar. Par C. Frappa et G. Bouriquet, 30p.; Les vertébrés nuisibles aux colonies. Par Mr. Chappellier, 7p.

Congrès international du paludisme [2^o Congrès] et de la célébration du cinquantième de la découverte de Laveran Alger, 19, 20, 21 Mai 1930 - Constantine, 23 mai 1930 - Laveran, 24 Mai 1930.

Comptes rendus. v.1, illus. Alger, Publiée par le Secrétaire général du Congrès, Institut Pasteur, 1931. Partial contents:- Trenszt, F. L'index maxillaire d'*Anopheles maculipennis* et la theorie du zootropisme anophelien, p.155-225. Index Bibliographique, p.220-224; Martini, E.

Congrès international du paludisme, (continued).

Ueber die flugweite der Anopheles, p.226-241; Kligler, J. J., and Mer, G. Studies on malaria: VI. Long-range dispersion of Anopheles during the pre-hibernating period, p.242-255; Ekblom, T., and Stroman, R. Geographical and biological studies on the Swedish anophelines from an epidemiological point of view, p.256-276; de Buen, Sadi, and Eliseo. Notes sur la biologie de l'*A. maculipennis*, p.277-288, illus.; Hackett, L. W., and Missiroli, A. Field studies on the causes of the natural disappearance of malaria in certain regions of Europe, p.322-347.

Dadant, C. P.

Dadant system of beekeeping. Ed.2. 117p. illus. Hamilton, Ill., American bee journal, 1932.

East Malling research station, East Malling, Kent.

Annual report (nineteenth year) 1931. 89p. illus. London, Headley brothers, 1932. Partial contents.- Masee, A. M. Notes on insect pests for the year 1931, p.51-54; Masee, A. M., and Steer, W. Entomology, p.41-44; Steer, W. The control of the raspberry and loganberry beetle by means of derris [*Byturus tomentosus* Fab.], p.81-83.

Fisher, R. C.

A survey of the damage caused by insects to hardwood timbers in Great Britain. 27p. illus. London, His Majesty's stationery office, 1932. (Great Britain. Dept. sci. indus. res. Forest products res. bul. no.16.).

Florida anti mosquito association.

Proceedings 10th annual meeting held at Clearwater, Fla., Mar.14-15, 1932. 63p. Jacksonville, Fla., 1932. Mimeographed. Proceedings of previous meetings not published.

Gabotto, L.

Gli insetti nocivi alle principali piante erbacee coltivate. 73p. illus. Torino, G. B. Paravia & C., [1931]. (Biblioteca agricola "Paravia". Serie zootecnica.).

Glaser, R. W.

Studies on *Neocaplectana glaseri*, a nematode parasite of the Japanese beetle (*Popillia japonica*). 34p. illus. Trenton, Apr. 1932. (N. J. Dept. agr. Bur. plant indus. Circ.211.). Bibliography, p.34.

Great Britain, Ministry of agriculture and fisheries.

Advisory leaflets, no.106, 109-110, 114. London, Mar.-June 1932. Contents.- no.106. Apple aphides, 4p. illus.; no.109. Flea beetles, 4p. illus.; no.110. The frit fly (*Oscinella frit* Linn.), 4p. illus.; no.114. The control of fruit pests in gardens and small orchards, 4p.

Hawaiian sugar planters' association.

Proceedings of the fifty-first annual meeting... Honolulu, Hawaii, December 7, 8, 9, 10, 1931. 753p. illus. Honolulu, Hawaii, Advertiser pub. co., ltd., 1932. (p.561-685, Report of committee in charge of the experiment station... for year ending September 30, 1931 [p.567-592, Entomology, by O. H. Swezey and C. E. Pemberton.]).

Hearle, E.

Warble flies and their control in Canada. 11p. illus. Ottawa, [F. A. Acland], 1932. (Canada. Dept. agr. Pamphlet no.147, new ser.).

Hoehn, E.

...Pharmakologische und toxiologische bedeutung der insekten. Inaugural dissertation... 37p. Würzburg, Gebrüder Kemminger, 1931. Literaturverzeichnis, p.33-36. At head of title: Aus dem Pharmakologischen Institut der Universität Würzburg.

Hoffman, F. L.

Malaria in Mississippi and adjacent states. 16p. Newark, N. J., Prudential Press, 1932.

Jamaica. Department of agriculture.

Annual report for the year ended 31st December, 1931. 36p. Jamaica, Gov't. print. off., Kingston, 1932. Report of the government entomologist, p.22-24. W. H. Edwards.

Lindner, E.

Die fliegen der palaerktischen region. lfg.62-63. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1932. Contents.- lfg.62, Czerny, L. Lauxaniidae (Sapromyzidae), p.1-76, illus.; lfg.63. Sack, P. Syrphidae, p.385-451, illus.

Mauritius, Colony of.

Report on the operations for the control of *Phytalus smithi* (Arrow) during the season 1930-31. 8p. July 16, 1931. Signed: A. Delord, Chief *Phytalus* officer.

Plavilstshikov, M. N.

Cerambycidae II. Teil. Cerambycinae: Cerambycini II. 142 [4]p. Troppau, Edm. Reitter, 1932. (Bestimmungstabellen der europäischen Coleopteren, Hft.102.).

Die Rohstoffe des tierreichs, hrsg. von Ferdinand Pax und Walther Arndt.

lfg. 9. Arthropodenseiden, by Friedrich Bock. p.881-962, illus. Berlin, Borntraeger, 1932.

Schmiedeknecht, O.

Opuscula ichneumonologica. Supplement-bänd. Neubearbeitungen, fasc.xiv. Blankenburg i Thür, 1932. Contents.- Genus *Stylocryptus* Thoms., p.37-55; Genus *Phygadeuon* Grav., p.1-60.

Sorauer, P.

Handbuch der pflanzenkrankheiten. Bd.5, Tierische schädlinge an nutzpflanzen. Zweiter teil. Vierte, neubearbeitet auflage... herausgegeben von L. Reh. 1032p. illus. Berlin, Paul Parey, 1932.

Step, E.

Bees, wasps, ants and allied insects of the British Isles... 238p. illus. London, Frederick Warne & co., Ltd., [c.1932.]. (The wayside and woodland series.).

U. S. Department of commerce. Bureau of standards.

Wire insect screen cloth. Simplified practice recommendation R122-31. 16p. Washington, Government printing office, 1932. [Issued Mar.6, 1932; Effective date, Nov.1, 1931.].

PERIODICALS

- Agricultural gazette of New South Wales (Sydney), v.43, pt.6, June 1, 1932.
Magee, C. J. Diseases and pests of glass-house tomatoes, p.427-437, illus.
- American entomological society. Transactions (Philadelphia), v.58, no.2, June 1932.
Bell, E. L. Studies in the genus *Phocides* with descriptions of new species (Lepidoptera: Hesperiidæ), p.169-199, illus.
Painter, R. H. A monographic study of the genus *Geron* Meigen as it occurs in the United States (Diptera: Bombyliidæ), p.139-167, illus.
Rehn, J. A. G. New or little known neotropical Blattidae (Orthoptera). Number three, p.103-137, illus.
- Annales des epiphyties (Paris), Année 17, no.6, Nov.-Dec. 1931.
Trouvelot, B. Recherches sur les parasites et predateurs attaquant le doryphore en Amerique du Nord et envoi en France des premières colonies des espèces les plus actives, p.408-445, illus. Bibliographie, p.444-445.
- Anzeiger für schädlingkunde (Berlin), Jahrg.8, hft.6, 1932.
Babel, A. Starkes auftreten von *Lyonetia clarkella*, p.70-71, illus.
Beling, I. Schädlingbekämpfung im 18. jahrhundert, p.66-69.
- Archives de l'institut Pasteur d'Algérie (Algiers), v.10, no.2, 1932.
Senevet, G. Contribution à l'étude des nymphes d'anophelines (3.^e mémoire), p.204-254, illus.
Sergent, E., Catanei, A., Trenszy, F., and Sergent, A. Expérience de destruction des Anopheles au moyen des gambouses dans un barrage-réservoir algérien, p.153-156, illus.
Les barrages-réservoirs et le paludisme, p.313-316.
- Archivio zoologico Italiano (Torino), v.16, fasc.3-4, 1932.
André, M. De l'immunisation chez l'espèce humaine contre les attaques du *Leptus autumnalis* Shaw, p.1350-1354. Index bibliographique, p.1353-1354.
Buchner, P. Symbiontengestalt und wirtsorganismus, p.1380-1387, illus. Literatur, p.1386-1387.
Dunkerly, J. S. Parasites and the theory of natural selection, p.1363-1368.
Fraenkel, G. Beiträge zur physiologie der atmung der insekten, p.905-921, illus.
Hoffman, W. C. Notes on the bionomics of some oriental Pentatomidae (Hemiptera), p.1010-1027.
Jucci, C. Sulla presenza di batteriociti nel tessuto adiposo dei Termitidi, p.1422-1429.
Kadoesa, G. Vorfrucht und bodenbearbeitung in kampf gegen die drahtwürmer, p.1028-1045.
Mayné, R. Observation sur une pyrale nouvelle nuisible à l'*Elaeis guineensis*, *Pimelephila ghesquieri* Tams., p.1097-1101, illus.
Menozzi, C. Lotta artificiale e naturale contro taluni insetti piu dannosi alla barbabietola da zucchero in Italia, p.1090-1096.
Paoli, G. Caratteri diagnostici delle Empoasca e descrizione di nuove specie, p.1046-1054, illus.
Pierantini, U. La simbiosi ereditaria negli Eterotteri, p.1389-1391.
1932.
Drake, C. J., and Decker, G. C. Late fall activity and spring emergence of the Hessian fly in Iowa, p.345-349.
Hinds, W. E., and Osterberger, B. A. Sugarcane root-stock weevils, p.337-342, illus.

Argentina. Ministerio de agricultura de la nación. Boletín (Buenos Aires), v.30, no.4, Oct.-Dec.1931.

Ogloblin, A. A. Segundo informe sobre un nuevo parasito del trigo (*Pro-saldius rufus*, Hust.), p.207-213, illus.

Bericht des Forschungsinstitutes der Cechoslovakischen zuckerindustrie in Prag für das jahr 1931-32, no.35, 1932.

Neuwirth, F. Schädlinge und krankheiten der rübe im jahre 1931, p.223-231.

Rambousek, F. Schädlinge und krankheiten der zuckerrübe im jahre 1930, p.59-71, illus.

British Columbia. Entomological society. Proceedings (Vancouver), no.29, 1932.

Beall, G. The life history and behavior of the European earwig, *Forficula auricularia*, L. in British Columbia, p.28-43.

Graham, K. Booklice in British Columbia homes, p.21-22.

Spencer, G. J. *Epidapus scabies* Hopk. as a greenhouse pest in Vancouver, p.19-20; Further notes on *Rhyncocephalus sackeni*, Will. (Diptera, Ne-mestrinidae), p.25-27.

Bulgarischen entomologischen gesellschaft in Sofia. Mitteilungen, bd.7, 1932.

Drenski, P. Kleine entomologische mitteilungen II. 1. *Argas persicus* Fisch-Valdh. als überträger des *Spirochaetosis avium* unter den raubvögeln des Königlichen zoologischen gartens - Sofia, p.62-66, illus.; 2. Die Gastrophilenlarven bei den pferden in Bezirk Sofia, p.66-73, illus.; 3. Die edelkastanienbohrer *Balaninus ellephas* Gyll. im Bezirk Petritsch (Bulgarien), p.73-75, illus.; 4. Rapsgallenrüssler *Ceutorhynchus sulcicollis* Gyll. in Bulgarien, p.76-77. Text in Bulgarien.

Stateloff, N. Ein pathogener bazillus auf den larven der *Barbistes amplipennis*, p.56-61. Text in Bulgarien. German summary, p.61.

Bulletin of entomological research (London), v.23, pt.2, July 1932.

Boone Webster, J. A remarkable malformation in the male hypopygium of *Aedes* (*Stegomyia*) *albopictus* Skuse, p.233-234, illus.

Brug, S. L. Chitinisation of parasites in mosquitoes, p.229-231, illus. References, p.231.

Currie, G. A. Oviposition stimuli of the burr-seed fly, *Euaresta aequalis*, Loew (Dipt. Trypetidae), p.191-193, illus.

Hodson, W. E. H. A comparison of the larvae of *Eumerus strigatus*, Flin., and *Eumerus tuberculatus*, Rond. (Syrphidae), p.247-249, illus.

Jolles, P. A study of the life-history and control of *Cerambyx dux*, Fald., a pest of certain stone-fruit trees in Palestine, p.251-256, illus.

Le Pelley, R. H. On the control of *Antestia lineaticollis*, Stål (Hem., Pentatom.) on coffee in Kenya Colony, p.217-228, illus. References, p.228.

MacLagan, D. S. An ecological study of the "Lucerne flea" (*Smynturus viridis* Linn.), p.151-169, illus.

Miller, M. C. F. Observations on *Meloboris* sp. in the

heitem, p.1340-1349.

Ries, E. Die symbiose der Pedicelliden und Mallophagen, p.1408-1421, illus. Theodor, O. Über eine neue methode zur klassifizierung von Phlebotomen und ihre bedeutung für das studium der durch Phlebotomen übertragenen krank-

U. S. Department of commerce. Bureau of standards.

Wire insect screen cloth. Simplified practice recommendation R122-31. 16p.

Washington, Government printing office, 1932. [Issued Mar.6, 1932; Effective date, Nov.1, 1931.]

O campo (Rio de Janeiro), v.3, 1932; no.4, Apr.; no.5, May.

Monte, O. Algunos cassidideos pragas da batata doce, no.4, p.62-64, illus.

Raymundo, B. Nomenclatura popular dos lepidopteros do Districto federal e seus arredores, no.4, p.49-50, illus.; no.5, p.18-19.

O escorpias dos livros, no.5, p.74-75, illus.

Canadian entomologist (Orillia), v.64, 1932; no.6, June; no.7, July.

Balch, R. E., and Simpson, L. J. A European sawfly (*Diprion polytomum* (Hartig) attacking spruce in the Gaspé Peninsula, Que., no.7, p.162-163.

Beamer, R. H. Some *Erythroneura* (Grape leaf hoppers) of the Maculata group (Homoptera, Cicadellidae), no.7, p.158-162.

Graham, K. Variations within the species of the nemestrinid fly *Rhyncocephalus sackeni* Williston, no.7, p.167-168.

Hicks, C. H. Notes on *Sphex aberti* (Hald.), no.7, p.145-151. Bibliography, p.151.

Hoffmann, C. H. The biology of three North American species of *Mesovelia* (Hemiptera - Mesovelidae) [*M. douglasensis* Hung.; *M. cryptophila* Hung.; *M. mulsanti bisignata* Uhl.], no.6, p.126-134.

Putnam, L. Chrysopids as a factor in the natural control of the oriental fruit moth [*Laspeyresia molesta* Busck], no.6, p.121-126.

Twinn, C. R. The occurrence of the odd beetle and a brief note on other dermestid species in Canada, [*Thylocladius contractus* Mots.], no.7, p.163-165.

Walley, G. S. A new species of *Forcipomyia* (Dipt. Chironomidae) [*Forcipomyia simulata*], p.165-166.

Ecology (Brooklyn, N. Y.), v.13, no.2, Apr. 1932.

Cole, A. C., Jr. Use of the quadrat in studying the plant-cutting activities of the ant, *Pogonomyrmex occidentalis*, p.213-214.

Park, T. Studies in population physiology: the relation of numbers to initial population growth in the flour beetle *Tribolium confusum* Duval, p.172-181, illus. Literature cited, p.181.

Shelford, V. E. Basic principles of the classification of communities and habitats and the use of terms, p.105-120. Literature cited, p.119-120.

Elisha Mitchell scientific society. (Chapel Hill, N. C.). Journal, v.47, no.2, May 1932.

Traver, J. R. Mayflies of North Carolina [Cont.], p.163-236. Bibliography, p.235-236.

Valentine, J. M. A classification of the genus *Pseudonophthalmus* Jeannel (Fam. Carabidae) with descriptions of new species and notes on distribution, p.261-280, illus.

Entomological news (Philadelphia), v.43, no.7, July 1932.

McClure, H. E. Incubation of bark bug eggs. [*Neuroctenus pseudonymus*] (Hemiptera: Aradidae.), p.188-189.

Miller, F. W. The red and black cherry aphid [*Aphis feminea* Hottes] in Massachusetts (Homop.: Aphididae), p.178-180.

Rehn, J. A. G. On preparing grasshoppers (Orthop. Acrididae), p.175-177.

Entomological society of America. Annals (Columbus, Ohio), v.25, no.2, June, 1932.

Drake, C. J., and Decker, G. C. Late fall activity and spring emergence of the Hessian fly in Iowa, p.345-349.

Hinds, W. E., and Osterberger, B. A. Sugarcane root-stock weevils, p.337-342, illus.

Entomological society of America. Annals (continued)

Lawson, P. B. The genus *Tinobregmus* (Homoptera, Cicadellidae), p.359-365, illus.

Painter, R. H. A review of the genus *Apiocera* Westwood from North America, (*Apioceridae*, Diptera), p.350-357, illus.

Stanley, W. W. Observations on the flight of noctuid moths, p.366-368.

Yeager, J. F., and Tauber, O. E. Determination of total blood volume in the cockroach, *P. fuliginosa*, with special reference to method, p.315-327. References, p.327.

Entomologische Zeitschrift (Frankfurt-M), v.46, no.8, July 22, 1932.

Weiss, G. Einiges über die zucht von *Acherontia atropos* L., p.86-88.

Entomologist's monthly magazine (London), ser.3, v.18 (whole ser. v.68), no.212 (whole no.819), Aug.1932.

Blair, K. G. *Syagrius intrudens* Waterh., an Australian fern-weevil, at Horsham, p.187.

Killington, F. J. The life history of *Hemerobius simulans* Walker (*Orotypus* Wall.) (*Neuroptera*, *Hemerobiidae*), p.176-180.

Entomologist's record (London), v.44, no.7-8, July-Aug.1932.

Burr, M. Brachypterous earwigs. A problem for field workers, p.98-99.

Forestry (London), v.6, no.1, June 1932.

Campbell, M. G. A chemical approach to the study of wood preservation, p.82-89. Literature references, p.88-89.

Fisher, R. C. Prevention and control of damage by wood-boring insects, p.67-74. Literature references, p.73-74.

Gembloux. L'institut agronomique et des stations de recherches. Bulletin, v.1, no.1, Feb.1932.

Mayné, R., and Bruel, W. van den. La question de la mouche de la betterave en Belgique (*Pegomyia hyoscyami* var. *betae*, Curt.), p.[46]-62, illus.

Gesellschaft für Vorratsschutz E. V. Mitteilungen (Berlin-Steglitz), Jahrg.8, nr.4, July 1932.

Schneider, H. Ueber den Frassschaden des Kornkäfers (*Calendra granaria* L.), p.49-52.

Highland and agricultural society of Scotland. Transactions (Edinburgh), ser.5, v.44, 1932.

Macdougall, R. S. Insect and other enemies in 1931, p.130-151.

Journal of Parasitology (Urbana, Ill.), v.18, no.4, June 1932.

Fenstermacher, R., and Jellison, W. L. Porcupine louse infesting the monkey, [*Eutricophilus setosus* (Giebel) Mjöberg], p.294.

Frost, F. M. A comparative study of the male terminalia of Californian Anophelines, p.282-284.

Herns, W. B., and Frost, F. M. A comparative study of the eggs of Californian anophelines, p.240-243. References, p.243.

Journal of the ministry of agriculture, Great Britain (London), v.39, 1932; no.4, July; no.5, Aug.

Edwards, E. E. Winter-spraying trials in the West Midlands, no.5, p.411-420, illus.

Miles, H. W. The control of wireworms under glass, no.4, p.352-358.

- Journal of the South-Eastern agricultural college Wye, Kent, no.30, July 1932.
Austin, M. D., Jary, S. G., and Martin, H. Studies on the ovicidal action of winter washes, 1931 trials, p.63-86.
- Journal of tropical medicine and hygiene (London), v.35, no.13, July 1, 1932.
Feng, L. Investigations on malaria and its transmission in Amoy, Fukien Province, South China, p.198-202, illus. (To be continued.).
- Lenin academy of agricultural sciences in U. S. S. R. Institute for plant protection. Bulletin of plant protection, (Leningrad), Ser. I: Entomology, nr.3, 1932.
Popova, A. A. On the biology and significance of the red spider (*Eutrombidium debilipes* Leonardi) as parasite of the migratory locust (*Locusta migratoria* L.), p.131-170. Literature, p.166-169. Russian text. English summary, p.162-166.
Rajevsky, V. On the organisation of the control of the adult Maroccan locust with poisoned bran mash, p.5-12. Russian text.
Rohdendorf, B. B. Beiträge zur kenntnis der zweiflügeligen parasiten der Acrididen, p.171-190, illus. Russian text. German summary, p.185-190.
Rubzov, I. A. The habitats and conditions of grasshoppers outbreaks in East Siberia, p.33-130, illus. Bibliography, p.128-130. Russian text. English summary, p.123-127.
- London. Entomological society. Transactions, v.80, pt.1, June 30, 1932.
Myers, J. G. Biological observations on some neotropical parasitic Hymenoptera, p.121-136.
- London. Linnean society. Journal, Zoology, v.38, no.257, June 27, 1932.
Badcock, H. D. Arachnida from the Paraguayan Chaco, p.1-48, illus. References to literature, p.48. (Reports of an expedition to Paraguay and Brazil in 1926-7, supported by the Trustees of the Percy Sladen Memorial Fund and the Executive committee of the Carnegie Trust for the Universities of Scotland.).
- London. Royal society. Proceedings, Ser.B, v.110, no.B768, May 2, 1932; v.111, no.B770, July 1, 1932.
Harrison, J. W. H. The recent development of melanism in the larvae of certain species of Lepidoptera, with an account of its inheritance in *Selenia bilunaria* Esp., v.111, no.B770, p.188-200.
Hughes, A. W. M. Induced melanism in Lepidoptera, v.110, no.B768, p.378-402.
- Musée zoologique de l'Académie des sciences de l'URSS. Magazine de parasitologie (Leningrad), no.2, 1931.
Andresen, E. Alteration de l'oeil du lapin sous l'influence du coléoptère vénimeux *Paederus albipilus* Solzky, p.151-156, illus. Russian text. German summary, p.156.
Baškareva, A. Quelques données sur les moustiques suceurs de sang de la Station malarienne de Sotchi (Kaukasus), p.55-58. Russian text. German summary, p.58.
Burakova, L. Contribution à la biologie du *Scatopse fuscipes* Mgn., un ennemi possible des mosquitos (Phlebotomus), p.113-118, illus. Russian text. German summary, p.118.
Byčkov, V., et Borzenkov, A. Sur les changements visibles dans le tube digestif de la puce sous l'influence du bacille de la peste, p.135-149, illus. Russian text. German summary, p.148-149.

Magazine de parasitologie (Leningrad) (continued)

Gucević, A. La reproduction et le développement du moustique de la fièvre jaune dans les conditions de l'expérience, p.35-54. References, p.53. Russian text. German summary, p.53-54.

Lisova, A. Le cycle de développement du *Phlebotomus chinensis* Newstead, p.91-112. References, p.110-111. Russian text. German summary, p.111-112.

Pavlovskij, E. Sur la distribution de l'*Anopheles maculipennis* dans la région de Zniajy-Dvor (Chimsk, arrond. de Novgorod) et la question de la zoophilie de ce moustique, p.59-72. Russian text. German summary, p.72; Sur quelques biotopes nouveaux de *Ornithodoros papillipes* et sur les agents vecteurs centralasiatiques du typhus récurrent, p.23-34, illus. References, p.33-34. Russian text. German summary, p.34.

Muséum national d'histoire naturelle. Bulletin (Paris), ser.2, v.4, no.4, May 1932.

Phisalix, M. Action vaccinnante réciproques des venins d'abeille et de vipère aspic, p.388-392.

Nature (London), v.130, 1932; no.3272, July 16; no.3274, July 30.

Cameron, A. E. The rearing of *Haematopora pluvialis*, Linné (Cleg, Tabanidae) under controlled experimental conditions, no.3272, p.94-95.

Hall, A. H. Eradication of slugs and snails, no.3274, p.170.

Nederlandsche entomologische vereniging (The Hague). Entomologische berichten, Deel viii, no.186, Juli 1932.

Franssen, C. J. H. Eene nieuwe prepareermethode voor langen tijd in alcohol bewaarde Aphiden, p.403-404.

New York entomological society. Journal, v.40, no.2, June 1932.

Davis, W. F. Additional records of North American Cicadas with descriptions of new species, p.241-265, illus.

Hockett, H. C. The North American species of the genus *Limnophora* Robineau-Desvoidy, with descriptions of new species (Muscidae, Diptera), p.105-158. (To be continued).

Peterson, A. Are economic entomologists becoming "insecticide minded"?; p.159-165.

New Zealand journal of science and technology (Wellington), v.13, no.6, June 1932.

Cottier, W. Insecticidal treatment of the grass-grub (*Odontria zealandica* White), p.317-340, illus. References, p.340.

Ohara instituts für landwirtschaftliche forschungen in Kuraschiki, Japan. Berichte, v.5, hft.2, 1932.

Harukawa, C. On the toxic action of Hanahiri-no-ki and its application for the control of Yuri-mimizu, p.311-324. Literature cited, p.323-324.

[Hanahiri-no-ki, Sneezee tree, Ericaceae; Yuri-mimizu, Aquatic Oligochaeta.]

Harukawa, C., and Kumashiro, S. On the pear-bark miner, *Acrocercops asturota* Meyrick, p.301-310.

Ohio journal of science (Columbus), v.32, no.4, July 1932.

Cowan, F. A. A study of fertility in the blowfly, *Phormia regina* Meigen, p.389-392. Literature cited, p.392.

DeLong, D. M. Further studies of the genus *Empoasca*. (Homoptera Cicadellidae) Part I. Nine new species of *Empoasca*, p.393-401, illus.

Portici. Laboratorio di zoologia generale e agraria del R. Istituto superiore agrario. Bollettino, v.26, 1932.

Barnes, H. F. A new saprophytic gall midge, *Asynapta furcifer* sp. n., on olives; p.51-53; illus.

Boselli, F. B. Studio biologico degli emitteri che attaccano le nocciuole in Sicilia; p.142-309; illus.

Martelli, G. M. Note di biologia sulla "*Rhagoletis cerasi*" (L.) Loew (Diptera-Trypaneidae), p.20-46; Notizie biologiche e morfologiche sull'*Athalia colibri* Christ. e su due suoi parassiti, p.313-333, illus.

Russo, G. Contributo alla conoscenza degli Scolitidi III.- Ilesinini del olivo. Note biologiche, p.87-114, illus.

Quarterly review of biology (Baltimore), v.7, no.1, Mar. 1932.

Gause, G. F. Ecology of populations, p.27-46. List of literature, p.45-46.

Queensland agricultural journal (Brisbane), v.37, pt.6, June 1, 1932; v.38, pt.1, July 1, 1932.

Jarvis, E. Entomological hints to canegrowers. The cane grub problem, v.37, pt.6, p.296-297.

Veitch, R. Biological control of insect pests, v.37, pt.6, p.301-303.

Weddell, J. A. The banana weevil borer [*Cosmopolites sordida* Chev.]. Brief notes on *Plaesius javanus* Er., the histerid predator, v.38, pt.1, p.24-29, illus.

Records of the malaria survey of India (Calcutta), v.3, no.1, June 1932.

Bose, K. Confirmation of *A. philippinensis* as a malaria carrier in Bengal, p.161-162.

Covell, G. Malaria in Calcutta, p.1-82; Malaria in Patiala State, p.83-101.

Covell, G., and Bailey, J. D. Malaria in Sind, p.103-124.

Manson, D., and Ramsay, G. C. Some findings in a malaria survey carried out on a group of tea estates in the Sibsagar District of Assam from August 1, 1930, to July 31, 1931, p.143-160.

Mulligan, H. W., and Majid, A. Some experiments to determine the efficacy of wire gauze screens of different apertures in excluding anopheline mosquitoes in India, p.163-169.

Revue de Botanique appliquée et d'agriculture coloniale (Paris), v.12, no.126, Feb. 1932.

Vayssière, P. Sur les recherches scientifiques en vue de la protection des cultures coloniales contre leurs parasites, p.26-36.

Revue de pathologie végétale et d'entomologie agricole (Paris), v.19, fasc.2, Feb. 1932.

Frappa, C. Sur *Dactylopius tomentosus* Lam. et son acclimatement a Madagascar, p.48-55, illus. Bibliographie, p.54-55.

Revue de zoologie agricole et appliquée (Bordeaux), Année 31, 1932; no.1, Jan.; no.2, Feb.; no.3, Mar.; no.4, Apr.

Bruneteau, J. A propos des invasion de sphinx, no.1, p.9-15.

Feytaud, J. Les ennemis du tabac, no.1, p.1-9; no.2, p.22-26, illus.; Le pou de San José (*Aspidiotus perniciosus* Comst.), no.3, p.33-40, illus.; no.4, p.49-58, illus. (à suivre).

J. D. Variétés: Sur les nématodes parasites des plantes à bulbes.- Sterilisation des couches à semis par la vapeur, no.2, p.26-28; La désinfection des châtaignes, no.4, p.58-60.

- Revue de zoologie et de botanique africaines (Terwueren), v.21, fasc.4, May 15, 1932; et Supplément: Bulletin du Cercle zoologique Congolais, v.3, fasc.3-4, 15 mai et 15 juin, 1932.
- Burgeon, L. Les coprophages, Suppl., fasc.3, p.[93]-[102], illus.
- Collart, A. Le fourmi tisserande congolaise (*Oecophylla smaragdina longiroda* Latr.), Suppl., fasc.4, p.[109]-[116], illus.
- Rhodesia agricultural journal (Salisbury), v.29, no.5, May 1932.
- Do tsetse flies feed on plant juices?, p.323-325.
- Tsetse fly operations, p.325-326.
- Science (New York), new ser., v.76, no.1962, Aug.5, 1932.
- Rebrassier, R. E., and Martin, E. D. *Syringophilus bi-punctinatus*, a quill mite of poultry, p.128.
- Societa entomologica Italiana. Bollettino (Genova), v.64, no.5, May 20, 1932.
- Ris Lambers, H. A new species of *Chaitophorus* Koch (Aphid. Homoptera) from *chrysanthemum* [*Chaitophorus chrysanthemi* sp. nov.], p.74-75.
- Société de biologie (Paris). Comptes rendus, v.90, no.20, June 10, 1932.
- Blanchard, L., and Dinulescu, G. Le métabolisme glucidique chez les larves de gastrophiles au cours de l'inanition et de l'anaérobiose, p.343-344, illus.
- Caminopetros, J. La réaction scrotale du cobaye provoquée par inoculation des tiques (*Rhipicephalus sanguineus*) infectées avec le virus de la fièvre boutonneuse, p.344-346.
- Société de pathologie exotique (Paris). Bulletin, v.25, no.4, Apr.13, 1932.
- Wagner, J., and Roubaud, E. Sur un pulicide nouveau, parasite des rats domestiques à Madagascar, [*Synopsyllus fonquernii* Wagner et Roubaud], p.327-332, illus.
- Société royale entomologique d'Egypte (Cairo). Bulletin, Année 25 (v.16), fasc.1-2, 1932.
- Bodenheimer, F. S. Studies on the ecology of Palestinean Coleoptera: I. Coleoptera at light traps, p.52-65.
- Kryger, I. P. One new genus and species, and three new species of Trichogramminae from Egypt with remarks upon *Neocentrobia hirticornis*, *Alaptus minimus*, and *Trichogramma evanescens*, p.38-44, illus. [*Sethosiella* n. g. *priesneri* n.sp.; *Abella dimorpha* n.sp.; *Neocentrobia similis* n.sp.; *Oligosita thoracica* n.sp.].
- Rivnay, E. The influence of relative humidity upon the development of the bed-bug *C. lectularius* L., p.13-16. Literature, p.16.
- R. Stazione di patologia vegetale. Bollettino (Firenze), Anno 12, nuova serie, no.2, 1932.
- Curzi, M. I tripidi come causa della "malattia del pennacchio" del pesco, p.238-243, illus.
- Tijdschrift voor entomologie (The Hague), v.75 (1932), June 15, 1932.
- Reclaire, A. Maamlijst der in Nederland en het omliggend gebied waargenomen wantsen (Hemiptera-heteroptera) met aantekeningen omtrent de voedsel- of verblijfplant en de levenswijze, p.59-258. Met medewerking van D. Mac-Gillavry.

- Tokyo. Imperial university. College of agriculture. Journal, v.11, no.4, June 30, 1932.
- Kusano, S. The host-parasite relationship in *Olpidium*, p.359-426, illus. Bibliography, p.425-426.
- [Trinidad]. Sugar cane investigation committee (Formerly Froghopper investigation committee), v.4, pt.1, June 1932.
- Pickles, A., and Robinson, C. K. Progress reports... Division of entomology, ecology and biological control, p.5-11, 18-21, 27-28, 34-36, 44-46, 56-57.
- Washington. Entomological society. Proceedings, v.34, no.6, June 1932.
- Bridwell, J. C. The subfamilies of the Bruchidae (Coleoptera), p.100-106.
- Sherman, F. Data on captures of the grasshopper *Paratylotropidia beutenmuelleri* Morse (Orthoptera: Acrididae), p.85-86.
- Welsh journal of agriculture (Cardiff), v.8, Jan. 1932.
- Thompson, H. W. The control of a watercress leaf-beetle (*Phaedon cochleariae*), p.233-236.
- Zeitschrift für angewandte entomologie (Berlin), v.19, hft.2, June 1932.
- Andersen, K. T. Kann sich *Calandra granaria* L. im mehl fortpflanzen ?, p.307-311, illus. Literatur, p.311.
- Beling, I. Zur biologie von *Nemeritis canescens* Grav. (Hym. Ophion.), I. Zuchtungsverfahren und ökologische beobachtungen, p.223-249, illus. Literatur, p.248-249.
- Eliescu, G. Beiträge zur kenntnis der morphologie, anatomie und biologie von *Lophyrus pini* L., p.188-206, illus. Literatur, p.205-206.
- Fischer, K. R. Beiträge zur ernährungsbiologie von *Hylobius abietis* L. und untersuchungen über die ökologie und klimatologie seines nahrungsraumes, p.250-277. Literatur, p.277.
- Friederichs, H. F. Zur biologie von *Ptinus tectus* Boield, p.301-306, illus. Literatur, p.306.
- Geiger, R. Meteorologische beobachtungen bei der mittelfränkischen kiefern-eulenbekämpfung mit flugzeug und motor im frühjahr 1931, p.207-222.
- Langenbuch, R. Beiträge zur kenntnis der biologie von *Agriotes lineatus* L. und *Agriotes obscurus* L., p.278-300. Literatur, p.299-300, illus.
- Zwölfer, W. Beiträge zur kenntnis der schädlingsfauna Kleinasiens II. Über die beziehungen der getreidewanze *Eurygaster intergriceps* Put. zu biotischen umweltafaktoren. (Nebst bemerkungen über deren praktische verwertbarkeit.), p.161-187, illus. Literature, p.187.
- Zoologischer anzeiger (Leipzig), Bd.99, nr.1-2, June 10, 1932.
- Haupt, H. Die mundteile der Dryinidae (Hym.), p.1-18, illus. Literatur, p.17-18.
- Thor, S. *Opsereynetes*, eine neue augentragende gattung aus der familie Ereyнетidae A. C. Oudemans 1931, in Norwegen gefunden, p.27-30, illus.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data. The text also mentions that regular audits are necessary to identify any discrepancies or errors in the accounting process.

In addition, the document highlights the need for a clear and concise reporting structure. Management should be provided with timely and accurate financial statements that clearly show the company's performance over a specific period. This information is crucial for making informed decisions and for communicating the company's financial health to stakeholders.

Furthermore, the document stresses the importance of maintaining up-to-date financial records. This includes not only the current year's data but also historical records for comparison and trend analysis. Proper record-keeping is essential for compliance with tax regulations and for providing a clear audit trail. The text also notes that digital accounting systems can significantly improve the efficiency and accuracy of these processes.

Finally, the document concludes by stating that a strong financial foundation is key to the long-term success of any business. By adhering to these principles of accurate record-keeping, clear reporting, and up-to-date maintenance, companies can ensure their financial health and build a solid reputation in the market. The document serves as a guide for businesses looking to optimize their financial management practices.

The document also provides a list of recommended accounting software solutions that offer robust features for tracking expenses, generating reports, and managing taxes. These tools are designed to streamline the accounting process and reduce the risk of human error. Additionally, the document offers advice on how to choose the right software for a business's specific needs and budget.

ENTOMOLOGY

LIBRARY
RECEIVED
★ NOV 15 1932 ★
U. S. Department of Agriculture

CURRENT LITERATURE

SELECTED REFERENCES COMPILED BY THE STAFF OF THE BUREAU OF ENTOMOLOGY
LIBRARY FROM PUBLICATIONS RECEIVED IN THE LIBRARY OF THE UNITED STATES
DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

Vol. 1

September - October 1932.

No. 5

This list is confined to new books on entomology and to selected periodical literature relating chiefly to economic entomology. Publications of the U.S. Department of Agriculture and of the state experiment stations, and all articles by members of the department staff, are omitted as these are listed weekly in the Official Record of the department. The contents of the Journal of Economic Entomology have been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

Algeria. Gouvernement général. Direction de l'agriculture et de la colonisation. Céréales d'Algérie 1930. [Rapport 19] Delassus, and Pasquier, Les insectes nuisibles aux céréales en Algérie et les moyens pratiques de les combattre. 34p. illus.

Australia. Council for scientific and industrial research.

Pamphlets no.29,30,31. Melbourne, H.J. Green, Government printer, 1932.

Contents.-no.29. Currie, G.A., and Garthside, S. The possibility of the entomological control of St. John's wort in Australia - Progress report, 28p. illus. Bibliography, p.24-25; no.30. Evans, J.W. The bionomics and economic importance of Thrips imaginis Bagnall, with special reference to the effect on apple production in Australia, 48p. illus.; no.31. Handschin, E. A preliminary report on investigations on the buffalo fly (*Lyperosia exigua* de Meij.) and its parasites in Java and northern Australia, with appendix by L. F. Graham, 24p. illus. [*Spalangia orientalis*, n. sp.; *S. sundaica*, n.sp.].

Balfour-Browne, F.

A text-book of practical entomology. 191p. illus. New York, Longmans Green & co., 1932.

Bandini, M.

... Aspetti economici della invasione fillosserica in Toscana. Osservatorio di economia agraria per la Toscana. 166p. illus. Milano, Treves-Treccani-Tumminelli, 1932. ([Italy]. Istituto nazionale di economia agraria. Studi e monografie. n.17.).

Barasc, C.

... Ma technique apicole. Nouveau manuel d'apiculture... 304p. illus. Paris, J. B. Baillière et fils, 1932. (Bibliothèque des connaissances utiles.).

Berlin. Biologische reichsanstalt für land-und forstwirtschaft.

Anleitung für die untersuchung von pflanzen, obst und kartoffeln bei der einfuhr 21p. illus. Berlin, 1931.

Binet, L.

La vie de la mante religieuse. 92p. illus. Paris, Vigot frères, éditeurs, 1931. Bibliographie, p.87-92.

Borg, J.

Scale insects of the Maltese Islands. 20p. Malta, Government printing office, 1932.

Ceylon. Tea research institute.

Bulletin no.8. Annual report for the year 1931. 55p. Kandy, [1932]. Partial contents.-King, C. B. R. Report of the entomologist, p.20-29 (Nettle grubs, p.21-28).

Curran, C. H.

New species of Trypanidae, with key to the North American genera. 19p. New York, Sept.12, 1932. (Amer. mus. nov. no.556.).

Edwards, W. H.

Lecture delivered under the auspices of the Citrus producers' association on the occasion of the importation into Jamaica of a parasite (*Eretmocerus serius*, Silv.) of the citrus black fly (*Aleurocanthus woglumi*, Ash.). 12p. Kingston, Government printing office, 1932. (Jamaica. Dept. sci. agr. Ent. bul. no.6.). References, p.11.

Encyclopédie entomologique. Ser. B. Mémoires et notes. II. Diptera. Parasitologie biologique - systématique...publiées sous la direction de E. Ségué. v.6. 212p. illus. Paris, Paul Lechevalier et fils, 1932.

Eyer, J. R.

Laboratory and field manual of economic entomology. 162p. illus. Ann Arbor, Mich., Edwards brothers, 1932. Multigraphed; printed title page.

Gabriel, A. G.

Catalogue of the type specimens of Lepidoptera Rhopalocera in the Hill Museum.. 40p. London, John Bale, sons & Danielsson, Ltd., June 1932.

Gazala, C.

1^{re} thèse... Contribution à la parasitologie des plantes cultivées en Irak. 2^e thèse. Propositions données par la faculté. 140p. illus. Nancy, Ancienne imprimerie Vagner, 1931. Thèses présentées à la faculté des sciences de Nancy pour obtenir le grade de Docteur de l'Université de Nancy.

Harris, W. V.

The migratory locust [*Locusta migratorioides*, R. and F.] 18p. Dar Es Salaam, Government printer, 1932. (Tanganyika Ter. Dépt. agr. Pamphlet no.6.).

Highland and agricultural society of Scotland.

The warble fly problem. Report on experiments conducted in Scotland in 1931. By R. Stewart McDougall. 75p. illus. Edinburgh, William Blackwood & Sons, Ltd., 1932.

Hingston, R. W. G.

A naturalist in the Guiana forest. 384p. illus. New York, Longmans, Green & Co., London, Edward Arnold & Co., 1932. Pt. II. Natural history [mainly insects], p.85-377.

Hubbell, T. H.

A revision of the Puer group of the North American genus *Melanoplus*, with remarks on the taxonomic value of the concealed male genitalia in the Cyrtacanthacrinae. (Orthoptera, Acrididae). 64p. illus. Ann Arbor, Mich., Published by the University, June 6, 1932. (Univ. Mich. Mus. zool. Misc. pub. no.23.).

Kala-azar commission, India.

Report no. II (1926-1930). By H. E. Shortt, Director, et al. 200p. illus. Calcutta, Thacker, Spink & Co. Ltd., 1932. (Indian med. res. mem. no.25). Contents.-Sect. I. Introduction and acknowledgments, p.1-8; Sect. II. Clinical and parasitological studies on kala-azar and demal leishmanoid, p.9-31; Sect. III. Studies on methods of transmission of kala-azar, p.32-112; Sect. IV. Studies on the life-history of *Leishmania donovani*, p.113-140; Sect. V. Studies on the bionomics of sandflies [*Phlebotomus argentipes*; *P. minutus*], p.141-157; Sect. VI. Epidemiological and protozoological studies connected with sandflies, p.158-177; Sect. VII. Studies on *Triatoma* and *Culicoides*, p.178-186; Sect. VIII. Miscellaneous, p.187-194; Sect. IX. References, p.195-200.

Lewis, E. A.

A study of the ticks in Kenya Colony. The influence of natural conditions and other factors on their distribution and the incidence of tick-borne diseases. Pt. II. A report on an investigation into the tick problem in the Rift Valley (contd.), the Uasin Gishu and the Trans Nzoia districts, Kenya Colony. 33p. map, Nairobi, Government printer, 1932. (Kenya Colony. Dept. agr. Div. vet. res. Bul.6.).

New Jersey mosquito extermination association.

Proceedings of the nineteenth annual meeting held at Atlantic City, New Jersey, February 17, 18, 19, 1932. 133p. illus. New Brunswick, N.J., [1932]. Partial contents.-Hearle, E. Notes on the more important mosquitoes of Western Canada, p.7-15; Miller, F. W. A summary of New Jersey mosquito control accomplishments in 1931, p.37-52; Britton, W. E., and Botsford, R. C. The extent of the mosquito problem in Connecticut and its solution, p.52-56; Rudolfs, W. Sewage treatment works and mosquito breeding, p.56-60; Williams, L. L. Mosquito control activities and investigations of the United States Public Service, p.64-70; Miller, F. W. The aeroplane as an aid in inspection and survey work, p.73-79, illus.; Myhre, H. The mosquito problem and a resume of current control activities on Cape Cod, p.79-81; Miller, S. Report on presentation of memento to Dr. L. O. Howard, p.90-91; McNeel, T. E. Observations on the biology of *Mansonia perturbans* (Walk.). Diptera, Culicidae, p.91-96, illus.; Vannote, R. L. The use of the aeroplane for the distribution of oils and larvicides, p.97-102, illus.; Freston, T.E. The effort to control mos-

New Jersey mosquito extermination association, (continued).
mosquitoes in New York City, p.102-105; Headlee, T.J. The development of mechanical equipment for sampling the mosquito fauna and some results of its use, p.106-128, illus.; Smith, L.W. One year's experience with pyrethrum larvicide, p.128-131; Butchard, E. Mosquito control in Nassau County, p.131-133.

Paramonov, S. J.

... Beiträge zu Monographie der Bombyliiden-gattungen *Amictus*, *Lyophlaeba* etc. (Diptera). 218p. Kiev, 1931. (Académie des sciences d'Ukraine. Mém. classe sci. nat. tech. no.9.) German text. Russian summary.

Philippine sugar association.

Annual reports. 31p. Manila, P. I., Oct, 1931 [1932]. Partial contents.-
Lopez, A.W. Insects attacking cane below ground, p.227-242, illus.; Additional information on natural enemies of white grubs, p.242-246, illus.; A hyperparasite [*Trogaspidia minor* Ash.] of scoliid cocoons discovered, p.246-247; Progress report on the exchange of scoliid wasps with Australia, p.247-252; The top-borer, *Topocates* (*Scirpophaga*) *intacta* Sn, p.254-255; Report on cane insects found on eastern coast of Negros and Cebu, p.260-273; Goseco, F. The insect parasites of *Bunga*, *Aeginetia indica* Roxb., and their life histories, p.282-285, illus.

Porta, A.

Fauna coleopterorum Italica, v.5. Rhynchophora - Lamellicornia. Anthribidae, Brentidae, Curculionidae, Nemonychidae, Ipidae, Lucanidae, Scarabaeidae. 476p. illus. Piacenza, Stabilimento tipografico Piacentino, 1932.

Queensland. Department of agriculture and stock. Division of entomology and plant pathology.

Entomological leaflets no.17-21. [Brisbane, Frederick Philips, Government printer], 1931-32. Contents.-no.17. Roberts, F.H.S. The bacon fly or ham skipper [*Piophilha casei* Linn.], 2p, illus.; no.18. Summerville, W.A.T. The control of the bronze orange bug [*Rhoecocoris sulciventris* Stal], 4p.; no.19. Veitch, R. Economic entomology, 4p.; no.20. Veitch, R. The leaf-eating ladybird [*Epilachna 28punctata* Fab.], 4p, illus.; no.21. Veitch, R. Biological control of insect pests, 4p.

Römer, F.

Fauna arctica. bd.6, lief.3. Jena, Gustav Fischer, 1932. Partial contents.-
May, E. Die odonaten des arktischen gebietes, p.175-182; Ulmer, G. Die triopteren, ephemeropteren und plecopteren des arktischen gebietes, p.207-226.

Société entomologique de France.

Livre du centenaire... 729p. illus. Paris, Au siège de la société, 1932.

Swellengrebel, N.H. and Rodenwaldt, E.

Die anophelen von Niederländisch-Ostindien. 3te auflage von prof. dr. N. H. Swellengrebel's "De Anophelinen van Nederlandsch Oost-Indië".. Herausgegeben mit hilfe des Königlichen kolonial-instituts in Amsterdam. 242p. illus. Jena, G. Fischer, 1932. Literatur, p.225-232.

University college of North Wales (Bangor). Department of agriculture.

Advisory leaflet. The warble fly [*Hypoderma* spp.], 4p. Bangor, Jarvis & Foster, printers, 1930.

Vaud (Canton) Switzerland. Département de l'agriculture, de l'industrie et du commerce. 3^{me} service: Agriculture.

Reconstitution de vignoble et phylloxéra. Rapport sur les essais viticoles cantonaux et la lutte contre le phylloxéra durant l'année 1931. 40p. Lausanne, Imprimerie F. Baumgartner, 1932.

Venzmer, G.

Giftige tiere und tierische gifte. 79p. illus. Stuttgart, Franck'sche verlagshandlung, 1932. (Kosmos. Gessellschaft der naturfreunde [Die ordentlichen veröffentlichungen]). Verzeichnis der benützten literatur, p.79.

Voukassovitch, P.

... Contribution à l'étude de l'eudémis (*Polychrosis botrana* Schiff.), de la pyrale de la vigne (*Oenophthira pilleriana* Schiff.) et de leurs parasites. 248p. illus. Toulouse, E. H. Guizard, 1924. Thèse - Univ. de Toulouse. Index bibliographique, p.237-244.

Williams, A. C.

Trout flies. A discussion and a dictionary. 223p. illus. London, A. & C. Black, Ltd., 1932.

Williamson, E. B.

Dragonflies collected in Missouri, 40p. Ann Arbor, Mich. Published by the University, June 6, 1932. (Univ. Mich. Mus. zool. Occas. papers no.240.).

Zappi-Recordati, A.

... Apicoltura pratica. 503p. illus. Roma, Opera nazionale combattenti editrice, [1931]. Bibliografia, p.503-504. At head of title: Collana agraria dell'Opera nazionale combattenti.

PERIODICALS

American museum of natural history (New York). Bulletin, v.63, art.4, 1932.

Schwarz, H.G. The genus *Melipona*. The type genus of the Meliponidae or stingless bees, p.231-460, illus.

American naturalist (Garrison, N.Y.), v.66, no.706, Sept.-Oct.1932.

Forbes, W. T. M. How old are the Lepidoptera?, p.452-460.

Whiting, P. W., and Anderson, R. L. Temperature and other factors concerned in male biparentalism in *Habrobracon*, p.420-432, Literature cited, p.432.

Annals of applied biology (London), v.19, no.1, Feb.1932.

Newton, H. C. F. On *Atomaria linearis* Stephens (Coleoptera, Cryptophagidae) and its larval stages, p.87-97, illus. References, p.97.

Story, E. H. The filtration of the virus of streak disease of maize, p.1-5, illus. References, p.5. [*Cicadulina mbila* Naude].

Annals of tropical medicine and parasitology (Liverpool), v.26, no.2, July 14, 1932.

Hicks, E. P. A simple apparatus for breeding fleas, p.147-148, illus.

James, S. P., Nicol, W. D., and Shute, P. G. *Plasmodium ovale* Stephens: passage of the parasite through mosquitoes and successful transmission by their bites, p.139-145.

Kerr, J. A. Studies on the transmission of experimental yellow fever by *Culex thalassius* and *Mansonia uniformis*, p.119-127. References, p.127.

Anzeiger für schädlingkunde (Berlin), v.8, hft.7, 1932.

Hase, A. Über die dauerwirkung des mottenschutzes durch eulan. I. Teil. Über 10 jahre lang bestehende mottensicherheit von wolle durch imprägnierung mit "eulan F".; p.73-82, illus. Literaturverzeichnis, p.82.

Huben, I. Über insekten-tötende pflanzenstoffe. I. Die derris-giftstoffe. A. Geschichtliches und literatur, p.83-88.

Archivio zoologico Italiano (Torino), v.17, fasc.3-4, 1932.

De Lerma, B. Osservazioni sui corpora allata del Grillotalpa, p.417-453, illus. Lavori citati, p.430.

Australia. Council for scientific and industrial research (Melbourne). Journal, v.5, no.3, Aug.1932.

Fuller, M. D. The blowfly problem. Notes on the effect of carcass burial, p.162-164.

Handschin, E. Buffalo-fly problem, p.191-192.

Liberation of the Moggora burr seed-fly [*Euaressta aequalis*] in Queensland, p.192.

Berichte über das auftreten der krankheiten und beschädigungen der kulturpflanzen im bereich der hauptstelle für pflanzenschutz in Landsberg (Warthe). Vegetationsperiod 1929/30-1930/31.

Goetze, G. Tierische schädlinge im weizenbau, p.41-52, illus.

Berlin. Zoologisches museum. Mitteilungen, v.18, no.1, June 1932.

Reichardt, A. Beiträge zu einer monographie der Saprininae (Coleoptera, Histeridae). I. Teil. Gattungen *Chalcionellus* nov., *Zorius* nov., *Pholioxenus* nov., und *Hypocacculus* Bickel, 168p. illus. Literaturverzeichnis, p.157-164.

Biological reviews (London), v.7, no.3, July 1932.

Hirner, A. Die temperaturverhältnisse bei den sozialen hymenopteren, p.224-253, illus. Schriftenverzeichnis, p.253.

Bollettino di zoologia (Napoli), Anno 3, N.4, Agosto 1932.

Candura, G. S. Contributo alla conoscenza biologica del *Troctes divinatorius* Müller, p.177-184, illus.

Parenzen, P. Sull'incompatibilità di convivenza fra Isopodi ed Ascidie, p.161-167, illus.

Brooklyn entomological society (Lancaster, Penn.). Bulletin, v.27, no.4, 1932.

Bronley, S. W. Observations on the Chinese mantid *Paratenodera sinensis* Saussure, p.196-201.

Cooper, K. W. Additions to the New York State list of insects, p.189-195.

O'Byrne, E. Notes on butterfly migration, p.185-188. Literature cited, p.187-188.

Bulletin of entomological research (London), v.23, pt.3, Sept.1932.

Faure, J. C. The phases of locusts in South Africa, p.293-405, illus., map. References, p.404-405.

O campo (Rio de Janeiro), Anno 3, no.7, July, 1932.

Monte, O. Notas biológicas sobre o lepidoptero noctuideo, *Xanthopastis tinais* Cran., p.41-42, illus.

Raymundo, B. Nomenclature popular dos lepidopteros do Districto Federal e Sevs Arredores, p.20-21, illus.

Citrus leaves (Redlands, Calif.), v.12, 1932; no.7, July; no.8, Aug.

Smith, R. H. The tank mixture method of using oil sprays in citrus groves, no.7, p.12-14, 18, 20; no.8, p.8-9.

Entomological society of America. Annals (Columbus, Ohio), v.25, no.3, Sept.1932.

Ball, E. D. The food plants of the leafhoppers, p.497-501.

Cole, A. C. Analyses of the stomach contents of two species of Idaho lizards, with special reference to the Formicidae, p.638-640.

Faust, E. C. Discussion of symposium papers, p.629-630. Flies and human welfare.

Herms, W. B. Non-bloodsucking flies as vectors of pathogenic micro-organisms, p.623-628.

Hinman, E. H. Mosquitoes in relation to human welfare, p.613-623.

Hopping, G. R. A revision of the Clytini of Boreal America, (Cerambycidae, Coleoptera). Pt. 1, p.529-578, illus.

Hubbell, T. H. An unusual occurrence of spiders in northern Florida, p.502-504, illus.

Mills, H. B. The life history and thoracic development of *Oligotoma texana* (Mel.) (Embiidina), p.648-652, illus.

Schwardt, H. H. Bloodsucking flies (exclusive of Culicidae) in relation to human welfare, p.603-613; The life histories of two horse-flies [*Tabanus atratus*; *T. trimaculatus*], p.631-637. Literature cited, p.637.

Smith, R. C. The Chrysopidae (Neuroptera) of Canada, p.579-602, illus.

Entomologist (London), v.65, 1932; no.832, Sept.; no.833, Oct.

Higgins, L. G. Some observations upon *Melitaea athalia* Rott., no.833, p.217-223, illus. Bibliography, p.223.

Killington, F. J. The life-history of *Hemerobius atrifrons* McLach [Neuroptera], no.832, p.201-203, illus.

Niblett, M., and Burkill, H. J. Gall-causing Cynipidae in Britain, no.832, p.193-197; Idem, pt.II, by M. Niblett, J. Ross, and H. J. Burkill, no.833, p.232-235. (To be continued).

Sheldon, W. G. *Pyrameis atalanta* in winter, no.832, p.206-208.

Entomologist's monthly magazine (London), ser.3, v.18 (whole ser.v.68), 1932;no.213 (whole no.820), Sept.; no.214 (whole no.821), Oct.

Bristowe, W. S. Mantispa, a spider parasite, no.214, p.222-224.

Pearman, J. V. Notes on the genus *Psocus*, with special reference to the British species, no.213, p.193-204.

Farming in South Africa (Pretoria), v.7, no.76, July 1932.

Mally, C. W. Mealybug in vines, [*Pseudococcus maritimus*], p.149-151.

Smit, B. The plague of ants [*Iridomyrmex humilis* and *Plagiolepis custodiens*], p.134 and 156; Fumigating citrus trees by new methods, p.157-158, illus.

Indian forest records (Calcutta). (Entomology series), v.17, pt.1, 1932.

Dover, C. Entomological investigations on the spike-disease of sandal (*Santalum album* Linn.). Pt.1. An introductory survey of the problem, p.1-53, illus. References to literature, p.50-53.

Indian journal of medical research (Calcutta), v.20, no.1, July 1932.

Buxton, P. A. The climate in which the rat-flea [*Xenopsylla cheopis*] lives, p.281-297, illus. References, p.296-297.

Sinton, J. A. Notes on some Indian species of the genus *Phlebotomus*. Pt.XXX. Diagnostic table for the females of the species recorded from India, p.55-74, illus.

Sundar Rao, S., and Iyengar, M. O. T. Experimental infection of some Indian mosquitoes with *Wuchereria (Filaria) bancrofti*, p.25-41, illus. References, p.41.

p.41.

Institut Pasteur de Tunis. Archives, v.21, no.1, July 1932.

Mooser, H. Essai sur l'histoire naturelle du typhus exanthématique, p.1-19.
(Transmission du virus tunisien du rat au rat par *Xenopsylla cheopis*, p.6-10). Index bibliographique, p.16-17.

Nicolle, C., and Sparrow, H. Application au cobaye et à l'homme de la méthode de vaccination contre le typhus exanthématique par emploi d'intestins phéniqués de poux (méthode de Weigl), p.25-31.

International institute of agriculture (Rome). International bulletin of plant protection, Year 6, 1932; no.8, Aug.; no.9, Sept.

Algeria and Tunisia: desert locusts (*Schistocerca gregaria*) (1), no.9, p.141-146.

French North Africa: desert locust (*Schistocera gregaria*), no.8, p.125-132.

French West Africa: desert locusts (*Schistocerca gregaria*) in Mauritania (1), no.9, p.141.

Iowa state college journal of science, v.6, no.3, Apr.1932.

Richardson, C. H., and Haas, L.E. The relative toxicity of pyridine and nicotine in the gaseous condition to *Tribolium confusum* Duval. p.287-298, illus. Literature cited, p.297-298.

Yeager, J. P., Shull, W.E., and Farrar, M.D. On the coagulation of blood from the cockroach, *Periplaneta orientalis* (Linn.), with special reference to blood smears, p.325-339, illus. References, p.337-339.

Journal of tropical medicine and hygiene (London), v.35, no.16, Aug.15, 1932.

De Buen, E. Studies relating to the biology of *Anopheles maculipennis* with special reference to the dwellings of man and animals, p.242-247.

Kansas. University (Lawrence). Science bulletin, v.20, nos.7-21 (comprising pt.2), May 15, 1932.

Anderson, L. D. A monograph of the genus *Metrobates* (Hemiptera, Gerridae), p.297-311 (no.16), illus.

Lingnan science journal (Canton, China), v.2, no.3, July 1932.

Painter, R. H. The Bombyliidae of China and near-by regions, p.341-374, illus.

Riley, W.A., and Chen, H.T. Notes on fleas of Canton, China, rats, p.445-448.

London. Entomological society. Proceedings, v.7, pt.1, June 30, 1932.

Benson, R. B. On the predacious habit in *Tenthredo marginella*, F., and on possible mimetic association in sawflies, p.15-16.

China, W.E. Reduviid bugs (*Apiomerinae*) capturing their insect prey by means of adhesive resin-covered fore-legs, p.12.

Hobby, B. M. The prey of sawflies (*Hym. Tenthredinidae*), p.14-15.

Main, H. Recent insect immigrants, p.24.

Nash, T. A. M. A *Sphodromantis* with a convolvulus hawk-moth as prey, p.22.

London. Royal society. Proceedings, Ser.B, v.111, no.3772, Sept.1, 1932.

Gillett, J.D., and Wigglesworth, V.B. The climbing organ of an insect, *Rhodnius prolixus* (Hemiptera: Reduviidae), p.364-376, illus. References, p.376.

London. Zoological society. Proceedings 1932, pt.2, July 1932.

Fisher, K. *Agriotypus armatus* (Walk.) (Hymenoptera) and its relations with its hosts, p.451-461, illus. Bibliography, p.461.

Maulik, S. On the structure of larvae of hispine beetles. II, p.293-322, illus.

- Medeelingen van den dienst der volksgezondheid in Nederlandsch-Indië (Batavia),
Jaargang 21, no.2, 1932.
- Essed, W. F. R. De gezondmaking van banjoewangi, een typisch voorblad van
species-assainering volgens Swellengrebel, [*Anopheles (Myzomyia) ludlowi*],
p.41-50, illus. English summary, p.50.
- Lallemant, G.F.M. Avé, Soerno, M., and Stoker, W.J. Proeven over de vlieg-
wijdte van enkele Anophelinen (pt.2), p.17-20. Brief English summary, p.20.
- Museo de La Plata. Revista, v.33, (ser.3, v.9), 1932.
- Bruch, C. Notas biológicas y sistematicas acerca de "*Bruchomyrma acutidens*"
Santschi, p.31-55, illus.
- Muséum national d'histoire naturelle (Paris). Bulletin, 2^e ser., v.4, no.3, 1932.
- André, M. Note sur un Acarien (*Penthaleus major* Dugés) nuisible aux plantes
potagères, p.284-291, illus. Index bibliographique, p.290-291.
- Nature (London), v.130, 1932; no.3278, Aug.27; no.3279, Sept.3; no.3281, Sept.17;
no.3283, Oct.1.
- Adler, S., and Theodor, O. Vectors of Mediterranean kala azar [*Phlebotomus*,
spp.], no.3283, p.507.
- Fricke, H., and Sizer, I. Radiographs of insects, no.3281, p.436-437, illus.
- Marshall, J.F., and Staley, J. Influence of light on gorging of *Culex pipiens*
L., no.3283, p.506-507.
- Purthi, H.S. Colonisation of the sea by insects, no. 3278, p.312. References.
- Tate, P., and Vincent, M. Influence of light on the gorging of *Culex pipiens*
L., no.3279, p.366-367.
- Neuheiten auf dem gebiete des pflanzenschutzes herausgegeben von der Bundesanstalt
für pflanzenschutz (Wien), Jahrg.1932, no.1-2, July.
- Fulmek, L. Die San-José schildlaus (*Aspidiotus perniciosus* Comst.) in Mittel-
europa, p.1-6.
- New Zealand journal of science and technology (Wellington), v.14, no.1, Aug.1932.
- Clark, A. F. The pine-bark beetle, *Hylastes ater*, in New Zealand, p.1-20.
References, p.20.
- Kennedy, D. The fumigation of douglas-fir seed, p.58-61.
- Pan-Pacific entomologist (San Francisco), v.8, no.4, Apr.1932.
- Essig, E. O. The California salmon fly [*Pteronarcys californica* Newport], p.162.
- Felt, E.P. A new predaceous gall midge for California [*Silvestrina koebelei*
Felt, n.sp.], p.167-168.
- Pickens, A.L. Observations on the genus *Reticulitermes* Holmgren, p.178-180.
- Parasitology (London), v.24, no.2, June 1932.
- Cameron, A. E. The nasal bot fly, *Cephenomyia auribarbis* Meigen (Diptera,
Tachinidae) of the red deer, *Cervus elaphus* L., p.185-195, illus. Refer-
ences, p.194-195.
- Gater, B.A.R. Malayan trombidiid larvae, pt. 1. (Acarina: Trombididae) with
descriptions of seventeen new species, p.143-174. References, p.173-174.
- Leeson, H.S. The effect of temperature and humidity upon the survival of cer-
tain unfed rat fleas, p.196-209, illus. References, p.208-209.
- Lewis, E.A. Some tick investigations in Kenya Colony, p.175-182. References,
p.182.
- MacGregor, M.E. The ova of *Aedes (Finlaya) geniculatus* Olivier, p.183-184.
- Sharga, U.S. A new nematode, *Tylenchus aptini*, n. sp., parasite of *Thysanop-
tera* (Insecta: *Aptinothrips rufus* Gmelin), p.268-279, illus. References,
p.279.

Philippine journal of agriculture (Manila), v.3, no.2, 1932.

Otanes, F. Q. Notes on a venomous spider in the Philippines (*Latrodectes* sp. near *hasselti* Thorell), p.83-88, illus.

Philippine journal of science (Manila), v.48, 1932; no.2, June; no.3, July.

Palo, M.A. Anthracnose and important insect pests of the mango in the Philippines, with a report on blossom-spraying experiments, no.2, p.209-235.

Russell, P. F., and West, A. F. Charcoal as a diluent for Paris green in the destruction of *Anopheles* larvae larvicide studies, no.3, p.291-297, illus.

Psyche (Cambridge, Mass.), v.39, nos.1-2, Mar.--June 1932.

Bequaert, J. *Amblyomma* *dissimile* Koch, a tick indigenous to the United States (*Acarina: Ixodidae*), p.45-46.

Cole, A. C. Jr. The thatching ant, *Formica obscuripes* Forel, p.30-33.

Dov, R. Biological notes on Cuban wasps and their parasites, p.8-19.

Dunn, L.H. An effective method for collecting ectoparasites from live animals and birds, p.26-29.

Quarterly journal of microscopical science (London), v.75, 1932; pt.1 (n.s. no.297), Feb.; pt.2, (n.s. no.298), June.

Henson, H. The development of the alimentary canal in *Pieris brassicae* and the endodermal origin of the Malpighian tubules of insects, pt.2, p.283-305, illus.

Metcalf, M.E. The structure and development of the reproductive system in the Coleoptera with notes on its homologies, pt.1, p.49-129, illus. Literature, p.122-125.

Wigglesworth, V.B. On the function of the so-called "rectal glands" of insects, pt.1, p.131-150, illus. References, p.148-150.

Revista Chilena de historia natural (Santiago de Chile), Año 34 for 1930, pub.1930; Año 35 for 1931, pub.1932.

Arangua, E.V. Contribuciones al estudio de los Cicindelidae VII. Notas zoológicas sobre algunos Cicindelidae americanos, Año 34, p.152-158.

Porter, C.E. El genero *Chenoderus*, F. & G., Año. 34, p.332-337, illus.; Entomologia agricola. El "chape" del peral y del cerezo [*Eriocampoides limacina*], Año 33, p.370-373; Observaciones biológicas. Sobre la larva de un Díptero nematócero [*Chironomid*], Año 34, p.376-378.

Reed, E.P. Piojos y sarna como parasitos de dípteros hippoboscidos chilenos, Año 35, p.102-103.

Revue de zoologie agricole et appliquée (Bordeaux), v.34, no.5, May 1932.

Feytaud, J. La question doryphorique au début de la campagne 1932, p.65-78.

Sapporo Natural history society (Sapporo, Japan). Transactions, v.12, pt.2 and 3, 1932.

Watanabe, C. A revision of braconid-species parasitic in the injurious insects of rice-plant and sugar-cane in Japan and Formosa, p.63-71. Literature cited, p.70-71.

Science (New York), new ser., v.73, 1932; no.1968, Sept.16; no.1969, Sept.23; no.1970, Sept.30.

Jacot, A. P. A knockdown "Berlese funnel", no.1970, p.299-300, illus.

Patterson, J.T. A method for mounting specimens of *Drosophila* on microscopic slides, no.1968, p.258.

Sanders, J. P. A method for the preservation of book bindings, no.1969, p.277-278.

Sociedad entomologica Argentina (Buenos Aires). Revista, Año 7, núm.21 (v.5,no.1), July 1932.

Bonet, F. Introduccion al estudio de los Colémbolos, p.36-48, illus.

Bourquin, F. Observaciones biológicas sobre "Agathodes desigualis" (fam.Pyraustidae), p.13-14, illus.

Hayward, K. J. Lepidópteros Argentinos (Familia Hesperidae), p.19-35, illus. (Continuará).

Köhler, P. Los Pericopinae Argentinos (Lep. Het.), p.6-12, illus.; Una gramínea trampa para insectos, p.61, illus.

Lahille, F. Ciencia aplicada y ciencia pura entomología y parasitología, p.49-60.

Società dei naturalisti in Napoli. Bollettino, v.42, 1931, pub. Apr.15, 1932.

Candura, G. S. Ricerche sulla vita degli insetti e sui danni da essi causati ai prodotti dell'economia rurale o delle industrie agrarie. 2º contributo. Gli insetti della camomilla secca e di altre erbe medicinali e industriali disseccate, p.343-352, illus.; Osservazioni biologiche sulla Tephroclystia pumiliata Hb., lepidottero geometride che fa seccare i bocciolo di rose, p.353-359. Bibliografia, p.358-359.

Société de pathologie exotique (Paris). Bulletin, v.25, no.6, June 1932.

Gaschen, H. Influence de la temperature et de la nutrition larvaire sur le développement de Culex pipiens (race autogène), p.577-581, illus.

Lefrou, G. Considérations étiologiques sur l'épidémie de peste de 1929 à Saint-Louis du Sénégal, p.597-606. (Rôle des puces, p.601-606.).

Phisalix, Mme. Action vaccinnante réciproque des venins d'abeille et de vipère aspic, p.581-585.

Toumanoff, C. Sur les gîtes larvaires types des Anophèles au Tonkin, p.639-656, illus. Bibliographie, p.656.

South African veterinary medical association (Pretoria). Journal, v.3, no.3, Sept. 1932.

Du Toit, R. Farming conditions in the north western Cape District and their bearing on the scab problem, p.115-120.

South-eastern agricultural college, Wye, England. Journal, no.30, July 1932.

Jary, S. G. The strawberry blossom weevil, Anthonomus rubi (Herbst.), p.171-182, illus. References, p.181-182; Pyrethrum, p.182-185, illus.

Silvestri, F. Biological control of insects and weed pests, p.87-96.

Tropical agriculture (Trinidad), v.9, 1932; no.9, Sept.; no.10, Oct.

Cleare, L. D. Moth-borer [Diatraea spp.] damage in relation to sugar-cane varieties in British Guiana, no.9, p.264-271. References, p.271.

Urich, F. W. The arrowroot leaf roller (Calpodes ethlius), no.10, p.299-300.

United States naval medical bulletin (Washington, D. C.), v.30, no.4, Oct.1932.

Hall, W. W., and Vogelsang, W. A. Spider poisoning: a study of the toxin of the black widow spider (Latrodectus mactans), p.471-478, illus. References, p.478.

United States public health reports (Washington, D. C.), v.47, no.35, Aug.26, 1932.

Mayne, B. Note on experimental infection of Anopheles punctipennis with quartan malaria, p.1771-1773.

Zeitschrift für angewandte entomologie (Berlin), Bd.19, hft.3, Sept.1932.

Blunck, H. Zur kenntnis der lebensgewohnheiten und der metamorphose getreidebewohnheiten und der metamorphose getreidebewohnender Halticinen, p.357-394, illus. Literature, p.391-394.

Zeitschrift für angewandte entomologie (continued).

- Klein, H. Z. Studien zur Ökologie und epidemiologie der Kohlweisslinge. I. Der einfluss der temperatur und luftfeuchtigkeit auf entwicklung und mortalität von *Pieris brassicae* L., p.395-448, illus. Literatur, p.447-448.
- Kojima, T. Beiträge zur kenntnis von *Lyctus linearis* Goeze, p.325-356, illus. Literatur, p.355-356.

Zeitschrift für wissenschaftliche biologie. Abt.B. Zeitschrift für zellforschung und mikroskopische anatomie (Berlin), bd.15, hft.4, July 1932.

- Schwartz, H. Der chromosomenzyklus von *Tetraneura ulmi* De Geer, p.645-687. Literatur-verzeichnis, p.686-687.

Zeitschrift für wissenschaftliche biologie. Abt.F. Zeitschrift für parasitenkunde (Berlin), bd.4, hft.3, May 18, 1932.

- Andresen, E. Veränderungen des kaninchenauges unter der giftwirkung der käfer *Epicauta* und *Mylabris*, p.387-394. Schrifttum, p.394.
- Jancke, O. Mitteilungen über Anopluren IV-IX, p.522-541, illus. Literatur, p.541.
- Roesler, R. Über eine durch Notoedres-milben erzeugte gallbildung (thylacium) an einer fledermaus, p.407-408, illus.
- Schulze, P. Neue und wenig bekannte arten der zeckengattungen *Amblyomma* und *Aponomma*, p.459-476, illus. Literatur, p.474-475.
- Vitzthum, H. G. Der erreger der "rüsselbildung" bei *Myotis nigricans* Wied. [*Notoedres* spp.], p.400-406, illus.

Zeitschrift für wissenschaftliche insektenbiologie (Berlin), bd.27, hft.1/2, June 15, 1932.

- Jordan, K.H.C. Zur kenntnis des eies und der larven von *Microvelia schneideri* Schltz., p.18-22, illus.
- Plaas, G. Der stachelbeerspanner *Abraxas grossulariata* L. in Schleswig-Holstein, p.12-17. Literatur-verzeichnis, p.15-17. (Schluss aus Nr.7/10, vol. XXVI).
- Rammer, W. Zur biologie und entwicklungsgeschichte der schildkäfer [*Cassida murraea* L.], p.1-11, illus. Literatur, p.11.

Zeitschrift für wissenschaftliche zoologie (Leipzig). Abt.A, bd.141, hft.4, July 1932

- Falkenham, H.-H. Biologische beobachtungen an *Sminthurides aquaticus* (Collembola), p.525-580. Schriftenverzeichnis, p.579-580.

Zoologische jährbücher (Jena). Abt. für systematik, ökologie und geographie der tiere, bd.63, hft.3, 1932.

- Jordan, K. H. C. Beitrag zur kenntnis der eier und larven von Aradiden, p.281-299, illus. Literaturverzeichnis, p.299.

Zoologischer anzeiger (Leipzig), bd.99, 1932; hft.5/6, July 1; hft.7/8, July 15.

- Stammer, H. J. ...Zur kenntnis der verbreitung und systematik der gattung *Asellus*, insbesondere der mitteleuropäischen arten (*Isopoda*), hft.5/6, p.113-131, illus. Literatur, p.131.
- Thienemann, A., and Harnisch, O. Chironomiden-metamorphosen. IV. Die gattung *Circoptopus* v.d.W., hft.5/6, p.135-143, illus. Literatur, p.143-145.
- Wladimirow, M., and Smirnov, E. Experimente an wasserinsekten, die sich von *Culiciden*larven ernähren, hft.7/8, p.192-206, illus.

ENTOMOLOGY

CURRENT LITERATURE

SELECTED REFERENCES COMPILED BY THE STAFF OF THE BUREAU OF ENTOMOLOGY
LIBRARY FROM PUBLICATIONS RECEIVED IN THE LIBRARY OF THE UNITED STATES
DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

Vol. 1

November - December 1932.

No. 6

This list is confined to new books on entomology and to selected periodical literature relating chiefly to economic entomology. Publications of the U. S. Department of Agriculture and of the state experiment stations, and all articles by members of the department staff, are omitted as these are listed weekly in the Official Record of the department. The contents of the Journal of Economic Entomology have been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

Aurivillius, P. O. C.

Lepidopterorum catalogus. pars 53. Berlin, Junk; 1932. Contents.-
Talbot, G. Pieridae, 320p.

Balachowsky, A.

Étude biologique des Coccides du Bassin occidental de la Méditerranée...
214 + LXXI p. illus. Paris, Paul Lechevalier & fils, 1932. Bibliographie, p.201-214. (Encyclopedie entomologique Ser.A, 15.).

Belgium. Musée royal d'histoire naturelle.

Memoires. Hors serie. Resultats scientifiques du voyage aux Indes Orientales Néerlandaises de LL. AA. RR. le Prince et la Princesse Leopold de Belgique, publiés par V. Van Straelen. v.4, fasc.3. Heterometabola II.
1.- Odonata, by F. C. Fraser. 2. Orthoptera-Acrididae, by C. Willemse.
34p. illus. Bruxelles, 1932.

Bestimmungs-tabellen der europäischen Coleopteren. heft 103-104. Troppau, Verlag: Edmund Reitter's nachf. Emmerich Reitter, 1932. Contents.- heft 103. Zimmerman, A. Monographie der paläarktischen Dytisciden. III. Hydroporinae (3. Teil), 43p.; heft 104. Breuning, S. Monographie der gattung Carabus L., 288p.

California. Department of agriculture.

Economic poisons 1931-1932. 74p. Sacramento, Harry Hammond, State printer, 1932. (Special pub. no.116. Contrib. Div. chem.).

Ceylon. Department of agriculture.

Administration report of the Director of agriculture for 1931. (Dr. F. Youngman). 163p. Colombo, Ceylon government press, 1932. (Ceylon administration reports. Pt.IV.-(D)). Partial contents.- Report on the work of the Plant pest inspectorate, p.93-103; Hutson, J. C. Report on the work of the Entomological division, p.111-121.

Corbett, G. H.

Insects of coconuts in Malaya. 106p. illus. Kuala Lumpur, Caxton press, 1932. (Fed. Malay States. Dept. agr. [Bul.] General series, no.10.).

Denmark. Statens plantepatologiske forsg.

Plantesygdomme i Danmark 1931. Plant diseases and pests in Denmark 1931. With a summary in English. p.349-395. København, Nielsen & Lydiche (Axel Simmelkjaer), 1932. (Saertryk af Tidsskrift for planteavl 36.Bind.).

Döderlein, L.

Bestimmungsbuch für deutsche land-und süßwassertiere. Insekten, 2.Teil. Wanzen, fliegen und schmetterlinge. 271p. illus. München, R. Oldenbourg, 1932.

Ewert, R.

Die nektarien in ihrer bedeutung für bienenzucht und landwirtschaft. 96p. illus. Leipzig, "Leipziger bienen-zeitung", 1932. Schriftenverzeichnis, p.93-96.

Fluiter, H. J. de

De bloedluis Eriosoma lanigerum (Hausmann) in Nederland... Publicatie no.8, 125p. illus. Wageningen, Uitgave der stichting "Fonds landbouw export bureau 1916-1918", 1931. Literature, p.116-117.

Fonseca, J. P. da, and Autuori, M.

Principaes pragas do café no Estado de São Paulo. 87p. illus. São Paulo, Escolas profissionais do Lyceu coracao de Jesus, 1932. At head of title: Instituto biologico de defesa agricola e animal. Divisão vegetal. Seção de entomologia e parasitologia agricolas. 3

Frew, J. G. H.

Report on the Tsetse fly survey of Sierra Leone. September 1927-February 1929. 16p. Freetown, Sierra Leone, Government printing office, 1929. At head of title: Sierra Leone - Tsetse fly survey.

Horvath, G., Editor.

General catalogue of the Hemiptera. fasc.IV. Fulgoroidea. pt.1. Tettigometridae, by Z. P. Metcalf. 69p. Northampton, Mass., Smith college, 1932.

Jensen-Storch, S., and Henriksen, K. L.

1ste beretning over forsg vedrørende midler mod husbukke [Hylotrupes bajulus L.]. 62p. illus. København, [G. Rasmussen], 1932. (Udvalget til undersøgelse af midler mod træødelæggende organismer. Meddelelse no.1.).

- Kennedy, C. H.
Methods for the study of the internal anatomy of insects. 103p. illus.
Columbus, Ohio State univ., 1932. Reference works on microscopical technique, p.93. Mimeographed by H. L. Hedrick.
- Kenya colony and protectorate. Department of agriculture.
Annual report 1931. 343p. Nairobi, Government printer, 1932. Partial contents.- Appendix I. Entomological section. Annual report, 1931. By the acting senior entomologist [H. Wilkinson] and staff, p.99-117; Appendix V. Coffee section. Annual report, 1931. By the senior coffee officer [Arthur Trench], p.158-175. Pests and diseases, p.161-164; Appendix VIII. Annual report of the chief veterinary research officer [J. Walker] for the year 1931, p.288-314. Ticks, p.294-297, 302-303, 312.
- Kessel, F.
Fauna brasiliensis coleopterologica... I. Beitrag. 32p. [Berlin, 1932].
- Lindner, E.
Die fliegen der palaearktischen region. lfg.64-65. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1932. Contents.- lfg. 64. Duda, O. Chloropidae, p.1-48, illus.; lfg.65. Engel, E. O. Bombyliidae, p.1-48, illus.
- McIntosh, A.
Description of a tick, *Dermacentor halli* from the Texas peccary, with a key to the North American species of *Dermacentor*. 6p. illus. Washington, D. C., Smithsonian institution, U. S. National museum, 1932. (U. S. Natl. mus. Proc. v.82, art.4. [Sep. no.2945].).
- Matheson, R.
Medical entomology. 489p. illus. Springfield, Ill., C. C. Thomas, 1932. "References" at end of chapters.
- Meier, N. F.
...Biologicheskii metod bor'by s vrednymi nasekomymi. 119p. illus. Moskva, Gosudarstvennoe izdatel'stvo sel'skokhoziaistvennoi i kolkhozno-kooperativnoi literatury, 1931. Ukazatel literatury, p.116-119. The biological method of combating pests.
- Morris, H. M.
Insect pests and fungus diseases of Cyprus and their control. 56p. illus. Nicosia, Cyprus, Government printing office, 1932. (Cyprus. Dept. agr. Bul.3 Ent. ser.).
- Panama Canal health department.
Report for calendar year 1931, J. F. Siler, chief health officer. 127p. illus. Mount Hope, Panama Canal press, 1932. Partial contents.- Curry, D. P. The anopheline mosquitoes of the Isthmus, p.52-56; Mosquito breeding areas in the vicinity of Panama City, and their control by dusting with Paris green from airplanes, p.59-64, illus.
- Pic, M.
cola, sp. n.], no.58, p.412-419.
Mosely, H. E. A revision of the European species of the genus *Leuctra* (Plecoptera), no.55, p.1-41, illus. References, p.38-39.

- California. Department of agriculture.
Economic poisons 1931-1932. 74p. Sacramento, Harry Hammond, State printer, 1932. (Special pub. no.116. Contrib. Div. chem.).
- Ceylon. Department of agriculture.
Administration report of the Director of agriculture for 1931. (Dr. F. Youngman). 163p. Colombo, Ceylon government press, 1932. (Ceylon administration reports. Pt.IV.-(D)). Partial contents.- Report on the work of the Plant pest inspectorate, p.93-103; Hutson, J. C. Report on the work of the Entomological division, p.111-121.
- Corbett, G. H.
Insects of coconuts in Malaya. 106p. illus. Kuala Lumpur, Caxton press, 1932. (Fed. Malay States. Dept. agr. [Bul.] General series, no.10.).
- Denmark. Statens plantepatologiske forsg.
Plantesygdomme i Danmark 1931. Plant diseases and pests in Denmark 1931. With a summary in English. p.349-395, København, Nielsen & Lydiche (Axel Simmelhaer), 1932. (Saertryk af Tidsskrift for planteavl 38.Bind.).
- Döderlein, L.
Bestimmungsbuch für deutsche land- und süßwassertiere. Insekten, 2.Teil. Wanzen, fliegen und schmetterlinge. 271p. illus. München, R. Oldenbourg, 1932.
- Ewert, R.
Die nektarien in ihrer bedeutung für bienenzucht und landwirtschaft. 96p. illus. Leipzig, "Leipziger bienen-zeitung", 1932. Schriftenverzeichnis, p.93-96.
- Fluiter, H. J. de
De bloedluis Eriosoma lanigerum (Hausmann) in Nederland... Publicatie no.8, 125p. illus. Wageningen, Uitgave der stichting "Fonds landbouw export bureau 1916-1918", 1931. Literature, p.116-117.
- Fonseca, J. P. da, and Autuori, M.
Principaes pragas do café no Estado de São Paulo. 87p. illus. São Paulo, Escolas profissionais do Lyceu coracao de Jesus, 1932. At head of title: Instituto biologico de defesa agricola e animal. Divisão vegetal. Seção de entomologia e parasitologia agricolas. 3
- Frew, J. G. H.
Report on the Tsetse fly survey of Sierra Leone. September 1927-February 1929. 16p. Freetown, Sierra Leone, Government printing office, 1929. At head of title: Sierra Leone - Tsetse fly survey.
- Horvath, G., Editor.
General catalogue of the Hemiptera. fasc.IV. Fulgoroidea. pt.1. Tettigometridae, by Z. P. Metcalf. 69p. Northampton, Mass., Smith college, 1932.
- Jensen-Storch, S., and Henriksen, K. L.
1ste beretning over forsg vedrørende midler mod husbukke [Hylotrupes bajulus L.]. 60p. illus. København, [G. Rasmussen], 1932. (Udvalget til undersøgelse af midler mod trædelaeggende organismer. Meddelelse no.1.).

- Kennedy, C. H.
Methods for the study of the internal anatomy of insects. 103p. illus.
Columbus, Ohio State univ., 1932. Reference works on microscopical technique, p.93. Mimeographed by H. L. Hodrick.
- Kenya colony and protectorate. Department of agriculture.
Annual report 1931. 343p. Nairobi, Government printer, 1932. Partial contents.- Appendix I. Entomological section. Annual report, 1931. By the acting senior entomologist [H. Wilkinson] and staff, p.99-117; Appendix V. Coffee section. Annual report, 1931. By the senior coffee officer [Arthur Trench], p.158-175. Pests and diseases, p.161-164; Appendix VIII. Annual report of the chief veterinary research officer [J. Walker] for the year 1931, p.288-314. Ticks, p.294-297, 302-303, 312.
- Kessel, F.
Fauna brasiliensis coleopterologica... I. Beitrag. 32p. [Berlin, 1932].
- Lindner, E.
Die fliegen der palaearktischen region. lfg.64-65. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1932. Contents.- lfg. 64. Duda, O. Chloropidae, p.1-48, illus.; lfg.65. Engel, E. O. Bombyliidae, p.1-48, illus.
- McIntosh, A.
Description of a tick, *Dermacentor halli* from the Texas peccary, with a key to the North American species of *Dermacentor*. 6p. illus. Washington, D. C., Smithsonian institution, U. S. National museum, 1932. (U. S. Natl. mus. Proc. v.82, art.4. [Sep. no.2945].).
- Matheson, R.
Medical entomology. 489p. illus. Springfield, Ill., C. C. Thomas, 1932. "References" at end of chapters.
- Meier, N. F.
...Biologicheskii metod bor'by s vrednymi nasekomymi. 119p. illus. Moskva, Gosudarstvennoe izdatel'stvo sel'skokhoziaistvennoi i kolkhozno-koopere-rativnoi literatury, 1931. Ukazatel literatury, p.116-119. The biological method of combating pests.
- Morris, H. M.
Insect pests and fungus diseases of Cyprus and their control. 56p. illus. Nicosia, Cyprus, Government printing office, 1932. (Cyprus. Dept. agr. Bul.3 Ent. ser.).
- Panama Canal health department.
Report for calendar year 1931, J. F. Siler, chief health officer. 127p. illus. Mount Hope, Panama Canal press, 1932. Partial contents.- Curry, D. P. The anopheline mosquitoes of the Isthmus, p.52-56; Mosquito breeding areas in the vicinity of Panama City, and their control by dusting with Paris green from airplanes, p.59-64, illus.
- Pic, M.
Melanges exotico-entomologiques. fasc.60. 36p. Moulins, "Les imprimeries reunies", 1932.

Piontkovskii, I. A.

...Materialy po biologii i ekologii khlopkovogo pautinnogo kleshchika, *Tetranychus* (*Excitetranychus*) sp. 35p. illus. Moskva [etc.] Ob"edinenie gosudarstvennykh izdatel'stv Sredneaziatskoe otделение, 1932. Bibliography, p.36. At head of title: Nauchno-issledovatel'skii institut po khlopkovodstvu. Materials for the biology and ecology of the red spider on cotton.

Priesner, H., and Hosny, M.

Contributions to a knowledge of the white flies (Aleurodidae) of Egypt. (I). 8p. illus. Cairo, Government press, 1932. (Egypt. Min. agr. Tech. and sci. serv. (Plant protect. serv.), Bul. no.121.).

Queensland. Department of agriculture and stock.

Tobacco growing in Queensland. 86p. illus. Brisbane, Frederick Phillips, Government printer, 1931. Partial contents.- Smith, J. E. Tobacco pests, p.47-65. (Reprinted from the Queensland agr. jour. Aug.1931.).

Rodríguez, D. A.

Problemas agrícolas de Puerto Rico. 22p. illus. San Juan, P. R., Negociado de materiales, imprenta, y transporte, 1932. (Puerto Rico. Estac. Expt. insular, Rio Piedras, Circ. no.99.).

Römer, F., and Schaudinn, F.

Fauna arctica. bd.6, lief.4. Jena, Gustav Fischer, 1932. Partial contents.- Zunker, M. Die Mallophogen des arktischen gebietes, p.281-294, illus. Literatur, p.294.

Roepke, W.

De vlinders van Java. 142p. illus. Batavia, Soerabaia [etc.], E. Dunlop & co. [1932].

Shchegolev, V. N.

...Khlebynye pilil'shchiki (Biologiya, ekologiya, mery bor'by) iz trudov otdela entomologii Severo-Kavkazskoi kraevoi sel.-khoz. opytnoi stantsii. 120p. illus. Moskva. [etc.], 1930. "Spisok literatury", p.116-120. At head of title: Komitet po povysheniiu urozhainosti pri narkomzeme RSFSR... Grain saw-flies (biology, ecology and control.).

Summerville, W. A. T.

The larger horned citrus bug (*Biprorulus bibax* Breddin). 37p. illus. Brisbane, Frederick Phillips, 1931. (Queensland, Dept. agr. stock. div. ent. Bul.8, new ser.).

Symes, C. B.

Notes on the infectivity, food and breeding waters of Anophelines in Kenya. 28p. Nairobi, Government printer, 1932. (Kenya Colony. Med. dept. Med. research lab. Records no.4.).

Takei, S., Miyajima, S., and Ono, I.

Über rotenon, den wirksamen bestandteil der derriswurzel, I-XIII. Mitteilung. 26p. Kyoto, Japan, Imperial university, 1932. (Kyoto imp. univ. Col. agr. Mem. no.23 (Chem. ser. no.13).).

Talitskii, V. I.

...Tablitsy dlia opredeleniia vreditelci i povrezhdenii kulturuzy v SSSR. 71p. illus. Moskva [etc.], Gosudarstvennoe izdatel'stvo sel'skokhoziâistvennoi i

- Talitskii, V. I. Continued
kolkhozno-kooperativnoi literatury, 1932. Tables for the determination of grain pests in the USSR.
- Vsesoiuznaia aviakhimicheskaiia konferentsiia. 1st, Moscow, 1930.
...Aviatsiia v bor'be s vrediteliami sel'skogo i lesnogo khoziaistva. Materialy I i Vsesoiuznoi aviakhimicheskoi konferentsii v Moskve, noiabr 1930 g. 23lp. illus. Moskva, Sel'kolkhozgiz, 1932. Aviation in the control of agricultural and forest pests. Proceedings of the 1st All-Union chemical aviation conference in Moscow, Nov., 1930.
- Winkler, A. ed.
Catalogus Coleopterorum regionis palaearticae. pars 12. p.1394-1519, Wien, Albert Winkler, 1932.

PERIODICALS

- Agricultural gazette of New South Wales (Sydney), v.43, pt.11, Nov.1932.
Hely, P. C. Insect pests of rice crops on the Murrumbidgee Irrigation Area, p.809-812.
- Agriculture and live-stock in India (Calcutta), v.2, pt.4, July 1932.
Ramakrishna Ayyar, T. V. Bionomics of some thrips injurious to cultivated plants in South India, p.391-403, illus. References, p.402-403.
- American journal of hygiene (Baltimore), v.16, no.2, Sept.1932.
D'Herelle, F. Clover and malaria, p.608-617. Bibliography, p.616-617.
- American journal of tropical medicine (Baltimore), v.12, no.5, Sept.1932.
Kumm, H. W., and Frobisher, M. Attempts to transmit yellow fever with certain Brazilian mosquitoes (Culicidae) and with bedbugs (Cimex hemipterus), p.349-361. References, p.360-361.
- Annales des epiphyties (Paris), v.18, 1932; no.1, Jan.-Feb.; no.2-3, Mar.-June.
Feytaud, J. Recherches sur le doryphore (Leptinotarsa decimlineata Say), no.2-3, p.97-220, illus.
Rapport phytopathologique pour l'annee 1931 par le directeur de la station entomologique et de le directeur de la station de pathologie vegetale de Paris, no.1, p.1-53.
Rapports sommaires sur les travaux accomplis dans les laboratoires en 1931, no.1, p.54-96.
- Annales des sciences naturelles. Zoologie (Paris), ser.10, v.15, no.2, Oct.1932.
Bouvier, E. L. Etude des Saturnoides normaux famille des Hemilucides, p.363-426, illus.
- Annals and magazine of natural history (London), ser.10, v.10, 1932; no.55, July; no.58, Oct.
Bagnall, R. S., and Cameron, W. P. L. Descriptions of two species of Hercotrips injurious to cotton in the British Sudan, and of an allied species on grass [Hercotrips fumipennis, sp. n.; H. sudanensis, sp. n.; H. gramini-cola, sp. n.], no.58, p.412-419.
Mosely, H. E. A revision of the European species of the genus Leuctra (Plecoptera), no.55, p.1-41, illus. References, p.38-39.

- Annals of tropical medicine and parasitology (Liverpool), v.26, no.3, Oct.1932.
Gibbins, E. G. Natural malaria infection of house-frequenting Anopheles mosquitoes in Uganda, p.239-266, illus.
- Gordon, R. H., Hicks, E. P., Davey, T. H., and Watson, M. A study of the house-haunting Culicidae occurring in Freetown, Sierra Leone; and of the part played by them in the transmission of certain tropical diseases, together with observations on the relationship of Anophelines to housing, and the effects of anti-larval measures in Freetown, p.273-345, illus. References, p.344-345.
- Hicks, E. P. The transmission of *Wuchereria bancrofti* in Sierra Leone, p.407-422, illus. References, p.422.
- Patton, W. S. Studies on the higher Diptera of medical and veterinary importance. A revision of the species of the genus *Musca* based on a comparative study of the male terminalia. I. The natural grouping of the species and their relationship to each other, p.347-405, illus. References, p.404-405.
- Anzeiger für schädlingskunde (Berlin), Jahrg. 8, 1932; hft.9; hft.10.
Jensen-Storch, S. Eine Übersicht über die entwicklung der hausbockfrage in Dänemark und eine methode zur untersuchung des relativen wertés der verschiedenen konservierungsflüssigkeiten als bekämpfung- und vorbeugungsmittel, hft.9, p.101-105; hft.10, p.121-126, illus. Literaturverzeichnis, p.126.
- Peters, G. Die organisation der schildlausbekämpfung in den citruskulturen der welt, hft.10, p.113-119, illus.
- Stuppy, C. Stechmücken als überträger der hühnerpocken, hft.10, p.119-120.
- Trenkle, Ist der apfelblütenstecher, schädlich? [*Anthonomus pomorum* L.], hft.9, p.105-110.
- Archives de zoologie expérimentale et générale (Paris), v.74 (Jubilare), no.2, Nov.1931; no.5, Jan.1932; no.6, Jan.1932; no.15, June 1932.
Brocher, F. Le mecanisme de la respiration et celui de la circulation du sang chez les insectes, no.2, p.25-32, illus.
- Chopard, L. Les Orthopteres cavernicoles de la faune paléarctique, no.15, p.263-286, illus.
- Constantineanu, M. J. Cas d'anomalie chez quelques espèces d'Ichneumonides, no.5, p.69-79, illus.
- Georgevitch, J. Protistologica XXI(1) Recherches sur les flagellés des termites de Yougoslavie, no.6, p.81-109, illus. Auteurs cites, p.108-109.
- Biological reviews (London), v.7, no.4, Oct.1932.
Buxton, P. A. Terrestrial insects and the humidity of the environment, p.275-320, illus. References, p.315-320.
- British mycological society (London). Transactions, v.17, pt.3, Nov.11, 1932.
Petch, T. A list of the entomogenous fungi of Gt. Britain, p.170-178.
- Brooklyn entomological society. Bulletin (Lancaster, Penn.), v.27, no.5, Dec.1932.
Aguayo, C. G. Notes on West Indian ants, p.215-227.
- Beall, G. The efficiency of traps in controlling the European earwig, *Forficula auricularia*, Linn., in British Columbia, p.231-238, illus.
- Bulletin agricole du Congo Belge (Bruxelles), v.23, 1932; no.1, Mar.; no.2, June.
Bredo, H. J. L'invasion de sauterelles migratrices au Congo Belge, p.70-91, illus. Bibliographie, p.91.

Bulletin agricole du Congo Belge (Bruxelles), continued.

- Opsomer, J. E. La culture du kápókier à Java avec quelques notes sur la culture en d'autres régions, no.2, p.166-204. (Maladies et ennemis, p.178-186), Listes bibliographiques, p.200-204.
- Pynaert, L. Le sorgho (Suite.). Ennemis et maladies, no.1, p.92-104, illus.
- Vrydagh, J. Le "ver rose" du coton "*Gelechia gossypiella* Saund." dans les districts des deux Uele, no.1, p.54-61, illus.; Les invasions de criquets migrants dans la Province Orientale, no.2, p.147-165. Bibliographie, p.165.

California. Department of agriculture (Sacramento). Monthly bulletin, v.21, nos.7-8-9, July-Aug.-Sept. 1932.

- Fleury, A. C. Mexican fruit fly [*Anastrepha ludens*] infestation in the Lower Rio Grande Valley, Texas, p.316-321.
- Krebs, H. M. The wax moth as an enemy of bees, p.350-353.
- Lewis, H. C. Citrus dusting equipment, p.324-339, illus.
- Mackie, D. B. *Ephestia figulilella* Greg. A storage pest taken feeding upon fresh grapes, p.311-315, illus.

California university (Berkeley). Publications in entomology, v.6, 1932; no.1, Oct.27; no.2, Nov.8; no.3; Nov.4.

- Essig, E. O. A genus and species of the family Aphididae new to North America, [*Thoracaphis umbellulariae*, n.sp.], no.1, p.1-8, illus. Bibliography, p.7.
- McKenzie, H. L. The biology and feeding habits of *Hyperaspis lateralis* Mulsant (Coleoptera-Coccinellidae), no.2, p.9-20, illus. Bibliography, p.17.
- True, G. H. Jr. Studies of the anatomy of the Pajaroello tick, *Ornithodoros coriaceus* Koch. I. The alimentary canal, no.3, p.21-48, illus.

Canadian entomologist (Orillia), v.64, no.11, Nov.1932.

- Ball, E. D. The food plants of the leafhoppers formerly included in the genus *Platymetopius* Burm., p.251-255.
- Birdsong, R. E. Some notes on *Actias luna* (Lepid.), p.263.
- Brown, W. J. The North American species of *Glichrochilus* (Coleop.), p.255-262, illus.
- Pepper, J. H. Observations on a unidirectional flight of army cutworm moths and their possible bearing on aestivation, p.241-242.
- Ross, H. H. Records of additional European sawflies in America and descriptions of new varieties of North American species, p.247-251.
- Walley, G. S. New Canadian Tryphoninae (Hymenop.: Ichneumonidae), p.242-247.

Durham [Eng.] University. Philosophical society. Proceedings, v.9, pt.1, 1931-1932, June 1932.

- Regnart, H. C. The genus *Pyrameis* with special reference to its geographical distribution, and some notes on the chromosomes and cytoplasmic inclusions in two species, p.24-30, illus. References, p.30.

Entomological society of the South of England. Journal (Southampton), v.1, no.2, Nov.23, 1932.

- Killington, F. J. Web-making spiders as enemies of Neuroptera, p.29-31; Predacious insects as enemies of Neuroptera, p.31-33; Neuroptera feeding upon Lepidoptera, p.33-34.
- Poulton, E. B. A new method for ascertaining the hours at which certain moths are on the wing, p.27-28.

Entomological society of the South of England. Transactions (Southampton), v.8, pt.1, Nov.14, 1932.

Audcent, H. British Tipulidae (Diptera, Tipulidae), p.1-34, illus. Bibliography, p.26-28.

Johnson, C. G. The oviposition and ovipositor of *Notostira erratica* L. (Hemiptera), p.50-57, illus. References, p.54.

Killington, F. J. Notes on the life-history of *Hemerobius pini* Steph. (Neuroptera), p.41-44, illus.

Richards, O. W. Observations on the genus *Bethylus* Latr. (*Perisemus* Foerst) (Hymenoptera, Bethylinidae), p.35-40. References, p.40.

Entomologisk tidskrift (Stockholm), v.53, no.2-3, 1932.

Trägårdh, I. Further notes on the mouth-parts of the Oribatiids, p.119-122, illus. Literature, p.122.

Entomologiske meddelelser (København), v.18, no.1, Apr.29, 1932.

Hoffmeyer, E. B. Ueber sensillen in den Hymenopteren-flügeln, p.58-74, illus.

Nielsen, E. T. Sur les habitudes des Hyménoptères aculéates solitaires. I. (Bethylinidae, Scoliidae, Cleptidae, Psammodontidae), p.1-57, illus. Littérature, p.49-57.

Florida entomologist (Gainesville, Fla.), v.16, no.3, Nov.1932.

Wilson, J. W. Notes on the biology of *Laphygma exigua* Huebner, p.33-39, Bibliography, p.39.

Forestry chronicle (Toronto), v.8, no.2, June 1932.

Simpson, L. J. The effect of the birch leaf skeletonizer and the sawfly leaf-miner on the growth of birches in New Brunswick, p.89-92, illus.

Hawaiian entomological society (Honolulu). Proceedings for the year 1931, v.8, no.1, Nov.1932.

Bodenheimer, F. S. [Principle of population movements among insects], p.18-20.

Carter, W., and Ito, K. Some effects of *Pseudococcus brevipes* (Ck.) on pineapple fruit, p.37-39.

Fullaway, D. T. Synopsis of the Hawaiian Diaspinidae (Coccidae), p.93-110.

Literature consulted, p.109-110; Hymenopterous parasites of the Coccidae, etc., in Hawaii, p.111-120.

Ito, K., and Carter, W. Notes on insects found on pineapple planting material, p.41-44.

Pemberton, C. E. Irritation caused by the sting of the bethylid wasp, *Holepyris hawaiiensis* Ashm., p.125-126.

Swezey, O. H. The host trees of the endemic Cerambycidae in Hawaii, p.127-140;

Notes on Hawaiian Lepidoptera, with descriptions of new species, p.197-202, illus.

Swezey, O. H., and Williams, F. X. Frederick A. G. Muir - The work of Dr. Frederick A. G. Muir in the biological control of sugar cane insects in Hawaii, p.141-152. Published writings of Dr. F. A. G. Muir, p.147-152.

Timberlake, P. H. Three new parasitic Hymenoptera [*Scelio serdangensis*; *S. pembertonii*; *Anagyrus saccharicola*, n. spp.] from the Indo-Malayan region, p.153-162.

Williams, F. X. Notes on a small collection of Philippine weevils that feed in the fleshy receptacles or "fruits" of wild figs, p.193-195; *Exallonyx philonthiphagus*, a new proctotrypid wasp in Hawaii, and its host, p.205-208, illus.

Indian journal of agricultural science, (Calcutta), v.2, pt.3, 1932.

Husain, M. A., and Khan, A. W. Food plants of *Dialeurodes citri*, Ashmead (*Aleyrodidae*). Is *Jasminum* one of them?, p.242-253, illus. References, p.253.

Notes - New international symbols for the mapping of locusts, p.340.

Indian journal of medical research (Calcutta), v.20, no.2, Oct.1932.

Furi, I. M. Studies on Indian Simuliidae. Pt.V. Species and varieties of the *Striatum* series, p.515-532, illus. References, p.531.

Sinton, J. A. Some further records of *Phlebotomus* from Africa, p.565-576, illus.

Indiana horticultural society. Transactions (Lafayette), v.71 for the year 1931.

Davis, J.J. The codling moth problem. With special reference to use of summer oil sprays, p.16-21; Bands and codling moths, p.72-76.

Institut Pasteur d'Algerie. Archives (Alger), v.10, no.3, 1932.

Parrot, L. Nouvelles observations sur la biologie de *Phlebotomus papatasi* (Scop.), p.407-409, illus.

Sergent, E. Sur l'utilisation du vert de Paris comme larvicide en Algérie, p.356-358; A propos de l'instinct de *Culex pipiens*, p.403-405.

Institutions royales d'histoire naturelle à Sophia-Bulgarie. Bulletin, v.5, 1932.

Apfelbeck, V. Beiträge zur Kenntnis der bulgarischen Curculioniden (Col.). I, p.153-161. Text in German.

Buresch, I., and Tuleschkow, K. Die horizontale verbreitung der schmetterlinge (Lepidoptera) in Bulgarian. III; p.67-144. Text in Bulgarian.

Drenowski, A. K. Beitrag zur fauna der blattwespen (Tenthredinidae, Hymenoptera) Bulgariens, p.149-152. Text in German.

Jordan, K. Die Siphonaptera Bulgariens, p.145-148. Text in German.

Obenberger, J. Catalogue raisonné des Buprestides de Bulgarie, p.15-66. Text in French.

Journal of parasitology (Urbana, Ill.), v.19, no.2, Dec.1932.

Ford, N. Observations on the behaviour of the sarcophagid fly, *Wohlfahrtia vigil* (Walk.), p.106-111. References cited, p.111.

Hinman, E.H., and Faust, E.C. The ingestion of the larvae of *Tenebrio molitor* L. (meal worm) by man, p.119-120. References cited, p.120.

Journal of the department of agriculture of South Australia (Adelaide), v.36, no.3, Oct.1932.

Davidson, J. Insects observed on crops in South Australia during the period June, 1930, to June, 1932, p.283-286.

Journal of the ministry of agriculture, Great Britain (London), v.39, no.9, Dec.1932.

Davies, W., and Jones, E. Extension work on the control of warble flies, p.805-813.

Howorth, H. G. Acarine disease of bees, p.833-841.

Journal of tropical medicine and hygiene (London), v.35, 1932; no.20, Oct.15; no.21, Nov.1; no.22, Nov.15.

Anderson, D. Notes on mosquito-borne diseases in Southern Nigeria; III. Differences in the periodicity of various mosquitoes, no.20, p.305-308, illus.; IV. The sex ratio of house-haunting mosquitoes, no.22, p.340-342, illus.

Jafar, M. Malaria in Mingaladon Cantonment, Burma, no.21, p.330-331.

Sur, S. N. Sarkar, H. P., and Banerji, K. M. Plasmodium as a malarial gametocyte, no.21, p.330.

Lambillionea (Namur), Année 32, nos.8 & 9, Aug.25 & Sept.25, 1932.

Portier, P. Comment les papillons respirent pendant qu'ils volent. Role des ailes et des écailles, p.157-164.

Linnean society of New South Wales (Sydney), Proceedings, v.57, pts.1-2, nos.239-240, May 1932.

Alexander, C. P. A review of the Tipulidae of Australia (Diptera). I, p.1-26, illus.

Fuller, M. E. The larvae of the Australian sheep blowflies, p.77-91, illus. Bibliography, p.91.

London. Zoological society. Proceedings, 1932, pt.3, Sept.

Fedford, G. A. H. Trichodectidae (Mallophaga) parasitic on Proaviidae, p.709-730, illus. List of references, p.730.

Norris, M. J. (Mrs. G. W. Richards). Contributions towards the study of insect fertility. 1. The structure and operation of the reproductive organs of the genera Ephestia and Plodia (Lepidoptera, Phycitidae), p.595-611, illus. References, p.608-609.

Malayan agricultural journal (Kuala Lumpur), v.20, no.10, Oct.1932.

Corbett, G. H., and Shariff, M. The coffee clear wing hawk moth (*Cephenodes hylas* L.), p.508-517, illus. Literature, p.517.

Georgi, C. D. V., and Teik, G. L. The rotenone content of Malayan tuba root [Derris], p.498-507. References, p.507.

Miller, W. C. E. Entomological notes. Third quarter 1932, p.524-526. (Lac, p.524-525; Tea, p.525-526.).

Mededeelingen van het Deli proefstation te Medan-Sumatra (Batavia), ser.2, no.76, 1932.

Mohr, J. C. van der Meer. Entomologische aanteekeningen II. A. *Pycnoscelus surinamensis* L., eene nieuwe vijand van Deli-tabak, p.3-8, illus.; B. Over schade aan jonge tabak door engerlingen, p.9-12, illus.; C. Beschadiging van gefermenteerde tabak door *Anomala viridis* F. en *Pentelia discedens* Sharp. (Summary, A-C, p.15-16 [in English].).

Muséum national d'histoire naturelle (Paris). Bulletin, ser.2, v.4, no.5, June 1932.

André, M. Compte rendu d'une mission dans le Sud-Algérien (Mai 1932) pour l'étude d'un Acarien [*Phoenix dactylifera* L.] nuisible au dattier, p.521-532, illus.

Naturaliste Canadian (Quebec), v.59, 1932; no.10, Oct.; no.11, Nov.

Beaulne, J. I. Longicornes nuisibles aux végétaux ligneux du Canada, no.10, p.196-203; no.11, p.219-222.

Daviault, L. La pyrale des pousses de pin dans la Province de Québec. *Rhyacionia* (*Evetria*) *frustrana* Comstock. Pine shoot moth, p.185-188. Bibliographie, p.188.

Nature (London), v.130, 1932; no.3284, Oct.8; no.3286, Oct.22; no.3292, Dec.3.

Foulton, E. B. "Protective" adaptations of animals, no.3292, p.848-849.

Rothschild, [L. W.] The pioneer work of the systematist, no.3284, p.529-531.

Tate, P., and Vincent, M. Susceptibility of English *Culex pipiens* L. to infection with bird malaria, no.3286, p.630.

- Naturforschende gesellschaft in Basel. Verhandlungen, v.42, 1930-31.
Werder, A. O. Beitrag zur kenntnis der Aphiden-fauna von Basel und umgebung, p.1-98. Literatur verzeichnis, p.93-98.
- New York entomological society. Journal (Lancaster, Penn.), v.40, no.3, Sept. 1932.
Nicolay, A. S., and Weiss, H. B. Synopsis of the Cicindelidae, I, p.341-355. Bibliography, p.354-355.
- New Zealand journal of science and technology (Wellington), v.14, no.2, Oct.1932.
Dumbleton, L. J. The apple leaf-roller (*Tortrix postvittana* Walker), p.83-92, illus. Bibliography, p.92; Codling-moth investigations, p.114-117, illus.
- Ohio journal of science (Columbus), v.32, no.6, Nov.1932.
Osborn, H. Supplemental records and notes on Ohio leafhoppers, p.513-517.
- Peking natural history bulletin (Peiping), v.7, pt.1, Sept.1932.
Feng, H. T. Aquatic insects of China. Article II. Catalogue of Chinese Dytiscidae, p.17-37.
Ulmer, G. Aquatic insects of China. Article III. Neue chinesische Trichopteren, nebst übersicht über die bisher aus China bekannten arten, p.39-70, illus.
- Philippine journal of science (Manila), v.48, no.4, Aug.1932; v.49, no.2, Oct. 1932; no.3, Nov.1932.
Alexander, C. P. New or little known Tipulidae from eastern Asia (Diptera) XI, v.49, no.3, p.373-406, illus.
Holt, R. L., and Russel, P. F. Malaria and Anopheles reconnaissance in the Philippines, v.49, no.3, p.305-371, illus. References, p.366-369.
Reyes, G. M. An unreported fungous disease of the Philippine migratory locust; p.49, no.3, p.407-418. (*Beauveria globulifera* (Speg.) on *Pachytylus migratorioides*, Rich. and Frm.); Artificial infection of the coconut leaf miner [*Promecotheca cuningi* Baly] with *Beauveria globulifera* (Spegazzini) Picard, v.49, no.3, p.419-441, illus. Literature cited, p.439-440.
Russell, P. F., and Santiago, D. *Anopheles minimus* larvae from wells in Laguna Province, Philippine Islands, v.49, no.2, p.219-223, illus. References, p.222.
West, A. P., and Russell, P. F. Paris green partially adsorbed on charcoal as a larvicide for *Anopheles* mosquitoes. Larvicide studies, II, v.48, no.4, p.545-559.
- Queensland agricultural journal (Brisbane), v.38, 1932; pt.3, Sept.; pt.4, Oct.; pt.5, Nov.
Carew, J. Sheep parasites and diseases, pt.5, p.438-453, illus.
Roberts, F. H. S. The botflies of the horse, pt.4, p.338-343, illus.
Smith, J. H. Pin-hole borers of the walnut bean (*Endiandra palmerstoni*), pt.3, p.229-246, illus.
- Revue de pathologie végétale et d'entomologie agricole (Paris), v.19, no.3, Mar.1932.
Faes, H. Insectes et champignons parasites des arbres fruitiers, p.81-87.
Gimingham, G. T. On the winter spraying of fruit trees in England, p.70-75.

- Revue de zoologie et de botanique Africaines (Tervueren), v.22, no.2, Oct.1932:
et Supplément: Bulletin du Cercle zoologique Congolais, v.9, no.2.
Ghesquière, Quelques Coccides Congolais, Suppl. p.[58-61], illus.
Priesner, H. Thysanoptères aus dem Belgischen Congo, Revue, pp.192-221,
illus.
Schouteden, Un moustique utile [*Megarhinus brevipalpis*], Suppl., p.[56];
Un "rouget" Congolais [larves de Trombidides], Suppl., p.[56-57].
- Scottish forestry journal (Edinburgh), v.46, pt.1, Mar.1932.
Chrystal, R. N., and Skinner, E. R. Studies in the biology of the woodwasp
Xiphydria prolongata Geoffr. (*Dromedarius* F.) and its parasite *Thalassa*
curvipes, Grav., p.36-51, illus. Bibliography, p.50-51.
Gilchrist, W. Note on the pine sawfly (*Lophyrus pini*), p.80-81.
Laing, E. V. *Borkhausenia pseudospretella*, Stn., p.81-82, illus.
- Société entomologique de France (Paris). Annales, v.100, Année 1931, pt.3-4,
Aug.1932; v.101, Année 1932, pt.1, Mar.31; pt.3, Oct.31.
Berland, L. Voyage de Mm. L. Chopard et A. Méquignon aux Açores (Aout-
Septembre 1930). II. Araignées, v.101, pt.1, p.69-84, illus.
Chopard, L. Voyage de Mm. L. Chopard et A. Méquignon aux Açores (Aout-
Septembre 1930). I. Orthoptères, v.101, pt.1, p.55-68, illus.
Fleutiaux, E. Coléoptères des Iles Mascareignes - Mission scientifique de
P. Carié (1910-1913). Melasidae et Elateridae, v.101, pt.1, p.25-39.
Hustache, A. Curculionidae Gallo-Rhénans (Suit et fin), v.100, pt.3-4,
p.153-470, illus.
Lesne, P. Coléoptères des Iles Mascareignes (Mission scientifique de P.
Carié, 1910-1913. Bostrychides, Clérides, supplément aux Buprestides,
v.101, pt. 1, p.1-24.
Pic, M. Coléoptères des Iles Mascareignes. Mission scientifique de P. Carié,
(1910-1913). Malacodermes, Ptinides, Anthicides et Hylophilides, v.101,
pt.1, p.40-54, illus.
Rondou, J.P. Catalogue des Lépidoptères des Pyrénées, v.101, pt.3, p.165-
244, (à suivre.).
- Société entomologique de France. Bulletin v.37, no.15, Oct.12, 1932.
Mesnil, L., and Pétré, F. Un Anthomyidae [Dipt.] nuisible aux céréales en
France, p.217-222, illus. Bibliographie, p.222.
- Der Tropenpflanzer (Berlin), Jahrg.35, no.10, Oct.1932.
Golf, A. Eine möglichkeit zur bekämpfung von insekten, besonders auch der-
jenigen, die als träger von tropenkrankheitserregern auftreten, p.424-427.
- Tropical agriculture (St. Augustine, Trinidad), v.9, no.11, Nov.1932.
Jarvis, E. The biological control of cane-grubs, p.331-333, illus.
- United States public health reports (Washington, D.C.), v.47, 1932; no.43, Oct.21;
no.47, Nov.18.
Eskey, C. R. Epidemiological study of plague in Peru with observations on
the antiplague campaign and laboratory work, no.47, p.2191-2207, illus.
(Relation of flea species to plague, p.2197-2199.).
Philip, C. B., Davis, G. E., and Parker, R. R. Experimental transmission of
Tularaemia mosquitoes, no.43, p.2077-2088. References, p.2087-2088.
- Washington, Entomological society. Proceedings, v.34, no.8, Nov.1932.
Gardner, J. C. M. The larva of *Catapiestus indicus* Fairm. (Coleoptera:
Tenebrionidae), p.142-145, illus.

Washington. Entomological society. Proceedings, continued.

Hinman, E. H. A description of the larva of *Anopheles atropos* D. & K., with biological notes on the species, p.138-142, References, p.142.

Russell, P. F. Daytime resting places of *Anopheles* mosquitoes in the Philippines. (Second report), p.129-138, illus.

Wiener entomologische zeitung, v.49, no.3, Oct.10, 1932.

Priesner, H. Neue Thysanopteren aus Mexiko, gesammelt von Prof. Dr. A. Dampf, p.170-185, illus.

Zeitschrift für wissenschaftliche zoologie (Leipzig). Abt. A., v.142, no.1-2, Aug. 1932.

Güsswald, K. Ökologische studien über die ameisenfauna des mittleren maingebietes, p.1-156, illus. Literaturverzeichnis, p.152-156.

Meyer, A. E. Über heiligkeitsreaktionen von *Lepisma saccharina* L., p.254-312, illus. Literatur, p.311-312.

Scheffler, H. Beobachtungen und versuche zur ökologie der Trichopterenlarven, p.157-190, illus. Schriftenverzeichnis, p.189-190.

Zoologischer anzeiger (Leipzig), v.100, 1932; no.1-2, Sept. 1; no.3-4, Sept. 15.

Barendrecht, G. Zur frage der sog. "hintern wurzel" der Corpora pedunculata bei den insekten, no.3-4, p.49-52. Literatur, p.52.

Marcu, O. Zur kenntnis der stridulationsorgane der Hymenopteren-gattung

Mutilla, no.1-2, p.47-48, illus.; Beitrag zur kenntnis der stridulationsorgane von *Hyrophilus* und *Hydrobius*, no.3-4, p.80-81, illus.

