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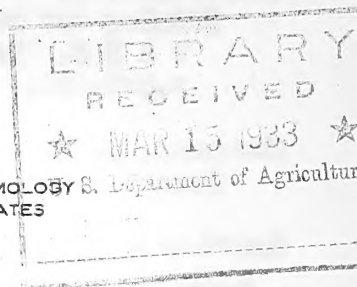
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ENTOMOLOGY

CURRENT LITERATURE

SELECTED REFERENCES COMPILED BY THE STAFF OF THE BUREAU OF ENTOMOLOGY, U. S. DEPARTMENT OF AGRICULTURE,
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No. 1

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

Alfaro Flores, C. E.

El ácaro del café (Epitetranychus althaeae, von Haust). 26p. illus. San José, Impre. Alsina, 1932. At head of title: Escuela nacional de agricultura, San José, Costa Rica.

Armbruster, L.

Bienenzucht - ob und wie? 103p. Berlin, Armbruster, 1932.

Bestimmungs-tabellen der europäischen Coleopteren. heft 105. Troppau, Verlag: Edmund Reitter's nachf. Emerich Reitter, 1932. Contents.- Breuning, S. Monographie der gattung Carabus L. (II. teil), p.291-496.

Brolemann, E. W.

Éléments d'une faune des myriapodes de France. Chilopodes. 405p. illus. Paris, Paul Lechevalier, 1932. (Fed. française soc. sci. nat. Off. cent. faun. Faune de France 25.). Index bibliographique, p.362-405.

Canada. Minister of agriculture.

Report for the year ended March 31, 1932. 225p. Ottawa, F. A. Acland, 1932. The entomological branch, p.166-193.

- Charitonov, D.
Katalog der russischen spinnen. 205p. Leningrad, 1932. (Acad. sci. U R S S. Beilage zum Ann. Mus. zool. v.XXXII.). Literaturverzeichnis, p.190-203.
- Cheesman, L. E.
Insect behaviour. 189p. illus. London, Philip Allan, 1932.
- Conférence internationale et congrès colonial du rat et de la peste. 2d, Paris, 1931.
Deuxième conférence internationale e congrès colonial du rat et de la peste, Paris, 7-12 octobre 1931. Document réunis et publiés par la professeur Gabriel Petit. 650p. illus. Paris, Vigot frères, 1932. "Quelques travaux recents sur le rat et la peste", p.636-637.
- Currie, G. A.
The brown cutworm (*Euxoa radians* Guen.). 64p. illus. Brisbane, Frederick Phillips, 1931. (Queensland. Dept. agr. and stock. Div. ent. Bul.7, new ser.).
- Dustan, A. G.
Vegetable insects and their control. 74p. illus. Ottawa, [F. A. Acland], 1932. (Canada. Dept. agr. Bul.161, new ser. [Ent. bul.32].).
- Edwards, F. W.
Diptera. Fam. Culicidae. 258p. illus. Bruxelles, Louis Desmet-Verteneuil, 1932. (Wytzman, P. Genera insectorum, fasc.194.). Short bibliography, p.252-256.
- Esaki, T., Hori, H., and others.
Nippon konchu zukan. (Iconographia insectorum japonicorum)... Editio prima, 2241p. illus. Tokyo, Hokuryukan, 1932.
- Fraenkel, G.
Die wanderungen der insekten. 238p. illus. [Nicht im handel], 1932. Literatur, p.212-238. Sonderabdruck aus Ergebnisse der biologie hrsg. von K. von Frisch. Bd.9, 1932, Verlag von Julius Springer in Berlin.
- Franssen, C. J. H., and Heurn, W. C. van
Biologie en bestrijding van de sjalottenthrips (*Thrips tabaci* Lindn.). 20p. Buitenzorg, Archipel Drukkerij, 1932. (Buitenzorg, Institut voor planten-ziekten. Korte mededeeling no.18.). Literatuur, p.19-20. English summary, p.20.
- Gertsch, W. J.
Notes on American spiders of the family Thomisidae. 22p. illus. New York, Jan.26, 1933. (Amer. mus. nov. 593.).
- Henning, M. W.
Animal diseases in South Africa. v.2. 409-878p. illus. [Pretoria], South Africa central news agency, limited, 1932. Tick paralysis, p.619-629. References, p.628-629.
- India. Burma. Entomologist.
Report for the year ended 31st March 1932. 14p. Rangoon, Supdt. Government printing and stationery, Burma, 1932. C. C. Ghosh, Entomologist.

Lindner, E.

Die fliegen der palaearktischen region. lfg.66-67. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1932. Contents.- lfg.66. Hendel, F. Agromyzidae, p.257-320; lfg.67. Engel, E. O. Bombyliidae, p.49-96, illus.

Luigioni, P.

I coleotteri d'Italia; catalogo sinonimico - topografico - bibliografico. 1159p. Roma, Scuola tipografica, Pio X, 1929. (Added t.-p.: Memorie della Pont. accademia delle scienze i nuovi linnei. ser.II, v.13.). "Materiali per una bibliografia coleotterologica italiana", p.[1049]-1129.

Maidl, F.

Die lebensgewohnheiten und instinkte der staatenbildenden insekten. lfg.1, p.1-64, illus. Wien, Fritz Wagner, 1933.

Miller, N. C. E.

A preliminary list of food plants of some Malayan insects. 54p. Nov.25, 1932. (Fed. Malay States. Dept. agr. Bul.38, supplement.). Mimeographed.

Nakayama, S.

A guide to general information concerning Korean butterflies. 21p. illus. Oct. 1932.

Nova Guinea. Resultats des expeditions scientifiques à la Nouvelle Guinée publiées sous la direction de M. le Dr. L. F. de Beaufert, et de A. A. Pulle et L. Ruttem. v.15 Zoologie. Livr. V, 435-602p. illus. Leide, E. J. Brill, 1932. Partial contents.- Lieftinck, M. A. The dragonflies (Odonata) of New Guinea and neighboring islands. Part 1. Descriptions of new genera and species of the families Lestidae and Agrionidae, p.485-602, illus.

Peirson, H. B.

Field book of destructive insects. [ed.2], 24p. Kennebec Valley protective association and Maine Forest Service, 1932.

Pettey, F. W.

The codling-moth and measures for its control in South Africa. 36p. illus. Pretoria, Government printer, 1932. (Union So. Africa. Dept. agr. Bul.108 (Bul.9 rev.).

Plantenziektenkundigen dienst te Wageningen.

Verslagen en mededeelingen no.67-68, Wageningen, H. Venman and Zonen, 1932. Contents.-no.67. [Schoevers, T. A. C.] Bestuiven en bestuivers. 23p, illus.; no.68. [Poeteren, N. van] De coloradokever. 24p. illus.

Queensland. Bureau of sugar experiment stations.

Annual report 32. 61p. Brisbane, Frederick Phillips, Government printer, 1932. Partial contents.-Report of Mr. E. Jarvis, entomologist in charge at Meringo, p.51-55. (Breeding digger wasp parasites, p.51); Report of Mr. R. W. Montgomery, Assistant entomologist, Bundaberg, p.55-57; Report of Mr. W. A. McDougall, Assistant entomologist, Mackay, p.57.

Queensland prickly-pear land commission.

8th annual report ...for the year ended 30th June 1932. 27p. map. Brisbane, Government printer, 1932. Cactoblastis and cochineal insects against pear.

Saunders, A. A.

Butterflies of the Alleghany State Park. 270p. illus. Albany, University of the State of New York, 1932. (New York State Museum handbook 13.). Bibliography, p.265-266.

Schenkling, S.

Coleopterorum catalogus. Pars 121-124. Berlin, W. Junk, 1932. Contents.- pars 121. Csiki, E. Carabidae; Harpalinae VI, p.1023-1278; pars 122-123. Dalla Torre, K. W. von, Schenkling, S., and G. A. K. Marshall. Curculionidae: Subfam. Hylobiinae, Curculioninae, p.1-112, 1-46; pars 124. Csiki, E. Carabidae: Harpalinae VII, p.1279-1598.

Schmiedeknecht, O.

Opuscula ichneumonologica. Supplement-band. Neubearbeitungen, fasc. XV. Various paging, Blankenburg i Thtr, 1932. Contents.- Genus Phygadeuon Grav.; Tribus Hemitelini: Genus Otacustes Först; Genus Cecidonimus Bridgm.; Genus Catalytus Först; Genus Aclastoneura Kriechb.; Genus Allocota Först; Genus Hemiteles Grav.

Smith, J. H.

Pin-hole borers of the walnut bean (*Endiandra palmerstoni*). 12p. illus. [Brisbane, Frederick Phillips, Government printer], 1932. (Queensland Dept. agr. and stock. Div. ent. and plant path. Pamphlet no.2.). Damage chiefly caused by *Crossotarsus grevilleae* Lea., and *Xyleborus hirsutus* Lea.

Smith, J. H.

The tobacco stem borer [*Phthorimaea heliopa* Low]. 7p. illus. [Brisbane, Frederick Phillips, Government printer] 1932. (Queensland. Dept. agr. and stock. Div. ent. and plant path. Ent. leaflet no.22.).

Sociedad Argentina de patologia regional del Norte.

Septima reunión celebrada en Tucuman... 5,6 y 7 de Octubre de 1931. Segunda mitad, p.527-1060, illus. Buenos Aires, [1932]. Partial contents.- Pinto, C. Simuliidae da America Central e do Sul (Diptera), p.661-763, illus.; Theodor, O. Sobre sistemática de los flebotomos sudamericanos, p.764-786, illus.; Parma, B., Romana, C., and Codazzi Aguirre, J. A. Comprobación de la ura en el Norte Santafecino, p.797-800, illus. [*Dermatobia hominis*]; Mazza, S. and Rios, M. de los. Primera comprobación de miasis cutánea por *Dermatobia hominis* in Jujuy, p.786-796, illus.; Codazzi Aguirre, J. A. Nota sobre miasis por *Cochliomya macellaria* en el Norte Santafecino, p.801-803.

Winkler, A. ed.

Catalogus Coleopterorum regionis palaearticae. pars 13. p.1521-1698. Wien, Verlag von Albert Winkler, 1932.

Womersley, E.

The Collembola-Symphyleona of Australia: A preliminary account. 47p. illus. Melbourne, H. J. Green, Government printer, 1932. (Australia. Council Sci. Indus. Research. Pamphlet no.34.). Bibliography, p.44-47.

PERIODICALS

- American medical association. Journal (Chicago), v.100, no.2, Jan.14,1933.
Sharkey, T. P., and Simpson, W. M. Accidental sodium fluoride poisoning. Report on eight cases, with one fatality, p.97-100.
- American microscopical society. Transactions (Manhattan, Kans.), v.51, no.4, Oct. 1932.
Geiman, Q. M. Retortamonas caudacus (n.sp.), an intestinal flagellate from a beetle larva, Gyrinidae sp., p.219-224, illus. Literature cited, p.224.
- Annals of applied biology (London), v.19, 1932; no.3, Aug.; no.4, Nov.
Metcalf, M. E. On a suggested method for determining the number of larval instars in Sitotroga panicea L., no.3, p.413-419. References, p.419.
Miles, E. W. On the biology of the apple sawfly, Hoplocampa testudinea Klug, no.3, p.420-431, illus. References, p.431.
Read, W. H. The toxicity of the vapours of volatile organic compounds to the red spider mite (Tetranychus telarius L.). Pt. 1. Some aliphatic alcohols and their formic esters, no.3, p.432-438. References, p.438.
Smith, K. M. Studies on plant virus diseases. XI. Further experiments with a ringspot virus; its identification with spotted wilt of the tomato, no.3, p.305-330, illus. References, p.328-329. (Carried by Thrips tabaci.).
Whitehead, T., and Currie, J. F. Virus diseases in relation to commercial seed potato production, with a study of the aphid population at selected farms, no.4, p.529-549. References, p.549.
- Annals of tropical medicine and parasitology (Liverpool), v.26, no.4, Dec.16,1932.
Gibbins, E. G. A note on the relative size of the anal gills of mosquito larvae breeding in salt and fresh water, p.551-554.
Hamlyn-Harris, R. Some further observations on Chara fragilis in relation to mosquito breeding in Queensland, p.519-524. References, p.524.
Lester, E. M. O. The influence of cyclical transmission by Glossina tachinoides on a strain of Trypanosoma brucei, made resistant to human serum, p.525-542, illus.
Rice, J. B. Experiments on plasmoquine as a prophylactic among West African negroes exposed to bites of A. costalis infected with subtertian malaria, p.555-576. References, p.576.
- Anzeiger für schädlingkunde (Berlin), Jahrg.8, 1932; hft.11, Nov.; hft.12, Dec.; Jahrg.9, hft.1, Jan.1933.
Blunck, H. Bourletiella signata (Nic.) Agren als gurkenschädling, Jahrg.9, hft.1, p.9-12, illus. Schrifttum, p.11-12.
Dingler, M. Chemische bekämpfung der spargelfliege, Jahrg.9, hft.1, p.1-9, illus.
E[scherich], K. Der coca-strauch Perus und seine schädlinge, Jahrg.8, hft.12, p.155-156.
Prinz, J. Zur epidemiologie der schmierlaus (Pseudococcus citri R. in Transkaukasien), Jahrg.8, hft.12, p.145-148, illus.
Schedl, K. E. Auch ein wort zur frage mathematik und entomologie, Jahrg.9, hft.1, p.12-13.
Schmitt, N. Ein neues verfahren zur besseren ausnutzung des wirksamen stoffes aus rotenonhaltenden pflanzen, Jahrg.9, hft.1, p.14-15.
Voigt, G. Galle oder blattmine? Beitrag zur histologie der vergallten mine und anderer sedumminen von Apion sedi Germ. (Curculion.), Jahrg.8, hft.11, p.135-143, illus. Schriftenverzeichnis, p.142-143.

Anzeiger für schädlingkunde (Berlin), continued.

Winning, E. von Die bekämpfung des kartoffelkäfers (*Leptinotarsa decimlineata* Say) in Frankreich, Jahrg. 8, Hft. 11, p. 129-135, illus.

Bombay natural history society. Journal (London), v. 35, no. 4, July 15, 1932; v. 36, no. 1, Nov. 15, 1932.

McCann, C. Termite fungi, v. 35, no. 4, p. 909-910.

Prater, S. H. Behavior of the red tree ant, (*Oecophylla smaragdina*), v. 36, no. 1, p. 230-231.

Spence, R., Prater, S. H., and McCann, C. Methods of dealing with plagues of ants, v. 36, no. 1, p. 279-280.

Tainish, J. The giant locust (*Saga ephippigera*), v. 35, no. 4, p. 908-909.

Brooklyn entomological society. Bulletin (Lancaster, Penn.) v. 28, no. 1, Feb. 1933

DeLeon, D. Notes on the biology of *Meteorus hypophloeii* Cushman. (Hymenoptera-Braconidae), p. 32-36, illus.

Bulletin biologique de la France et de la Belgique (Paris), v. 67, no. 1, 1933.

Rabaud, E. L'interdependance des ailes des insectes et la capacite de vol. p. 34-43.

Tonkes, P. R. Recherches sur les poils urticants des chenilles, p. 44-99, illus. Index bibliographique, p. 96-99.

Vandel, A. Un cas d'inversion sexuelle parasitaire produit chez *Odynerus innumerabilis* Saussure par un Strepsiptère du genre *Pseudoxenos*, p. 125-134, illus. Bibliographie, p. 134.

Bulletin of entomological research (London), v. 23, pt. 4, Dec. 1932.

Beattie, M. V. F. The physico-chemical factors of water in relation to mosquito breeding in Trinidad, p. 477-496, illus. References, p. 495-496.

Davies, W. H. Ecological studies on aphides infesting the potato crop, p. 535-548, illus. References, p. 547-548.

Edwards, F. W. Mosquito notes. XI, p. 559-562, illus.

Golding, F. D. Sodium fluosilicate as a poison against the hoppers of *Locusta migratorioides*, R. & F., in Nigeria, p. 449-461, illus. References, p. 460-461.

Hardy, G. H. Some Australian species of *Calliphora* (subgenera *Neopollinia* and *Proelton*), p. 549-558, illus.

Hodson, W. E. H. The large narcissus fly, *Herodon equestris* Fab. (Syrphidae), p. 429-448, illus. References, p. 447-448.

Mer, G. The determination of the age of *Anopheles* by differences in the size of the common oviduct, p. 563-566, illus.

Pomeroy, A. W. J., and Morris, K. R. S. The tsetse problem on the eastern cattle route in the Gold coast, p. 501-531, illus.

Taylor, A. W. Pupal parasitism in *Glossina morsitans* and *G. tachinoides* at Gadau, Northern Nigeria, p. 463-487, illus. References, p. 467.

California university (Berkeley). Publications in entomology, v. 6, no. 4, 5, Jan. 12, 1933.

Jones, W. W. The description and biology of *Nepticula braunella* new species (Lepidoptera - Neptidulidae) a species of leaf miner on *Prunus ilicifolia* Walp. and the variety *integrifolia* Sarg., no. 4, p. 49-78, illus. Literature reviewed or cited, p. 75-78.

Light, S. F. Termites of western Mexico, no. 5, p. 79-164, illus. Literature cited, p. 151-152.

Canadian entomologist (Orillia), v. 64, no. 12, Dec. 1932; v. 65, no. 1, Jan. 1933,

Jacot, A. P. Evaluation of the forest flora population, v. 64, no. 12, p. 265-267.

Canadian entomologist (Orillia), continued.

Miller, F. W. Notes on several species of aphids collected on *Populus angustifolia* in Idaho, v.65, no.1, p.3-5.

Twinn, C. R. The blackfly, *Simulium venustum* Say, and a protozoon disease of ducks, v.65, no.1, p.1-3. References cited, p.3.

Chosen, Japan. Government-General. Agricultural experiment station. Journal, (Suigen), no.18, pt.1-2, June 1931. (Received Feb. 1933).

Nakayama, S. Biological studies on the dermestid beetle, *Trogoderma granarium* Everts, p.1-23, illus. References, p.23. English summary, p.20-23; Biological studies on the rice-weevil, *Calandra oryzae* Linnaeus, p.25-69, illus. References, p.66-69. English summary, p.62-65.

Deutsche botanische gesellschaft, Berichte (Berlin), v.50, no.10, Jan.26, 1933.

Werth, E. Die galle des *Pemphigus cornicularis* Pass. on *Pistacia terebinthus* L., p.529-538, illus.

Ecology (Lancaster, Penn.), v.13, no.4, Oct.1932.

Park, O., and Keller, J. G. Studies in nocturnal ecology, II. Preliminary analysis of activity rhythm in nocturnal forest insects, p.335-346, illus. Literature cited, p.345-346.

Rice, L. A. The effect of fire on the prairie animal communities, p.392-401. Literature cited, p.400-401.

Entomologica americana (Lancaster, Penn.), v.12, no.3, Dec.1931; no.4, Mar.1932.

Klots, A. B. A generic revision of the Pieridae (Lepidoptera) together with a study of the male genitalia, no.3, p.139-204; no.4, p.205-242, illus.

Entomological news (Philadelphia), v.44, 1933; no.1, Jan.; no.2, Feb.

Beall, G. The use of a modified McIndoo olfactometer for the European earwig, *Forficula auricularia* (Dermap.), no.1, p.6-10.

Bequaert, J. The nesting habits of *Paranysson*, an African genus of fossorial wasps (Hymenoptera, Sphegoidea), no.2, p.36-39.

French, A. M. Observations on the beetle, *Mordellistena nigricans* (Coleop.: Mordellidae), no.2, p.33-35.

Hinman, E. H. Dragon-flies predacious on *Tabanus* spp. (Dipt.: Tabanidae), no.2, p.49-50.

Jones, F. M. Another oriental mantis well established in the United States (*Tenodera angustipennis* Saussure, Orthoptera: Mantidae), no.1, p.1-3, illus.

McClure, H. E. The effectiveness of the sting of *Aenoplex carpocapsae* Cushman (Hymen.: Ichneumonidae), no.2, p.48-49.

Rehn, J. A. G. Chief morphological and color features separating *Tenodera angustipennis* and *T. sinensis* (Orthoptera: Mantidae), no.1, p.4-5.

Entomological society of America. Annals (Columbus, Ohio), v.25, no.4, Dec.1932.

Bartholomew, P. S. Six new species of aphids, with records of other species new to California, p.713-729, illus.

Breakey, E. P. A review of the nearctic species of *Macropsis* (Homoptera, Cicadellidae), p.787-844, illus.

Doering, K. C. The genus *Acanalonia* in America north of Mexico (Fulgoridae, Homoptera), p.758-786, illus.

Entomologische rundschaу (Stuttgart), Jahrg.50, 1933; no.2, Jan.15; no.3, Feb.1.

Hüsing, H. Sind die wachsmotten [*Galleria mellonella* L.] wirklich keine schädlinge?, no.2, p.9-11.

Entomologische rundschau (Stuttgart), continued.

- Kleine, R. Weitere biologische mitteilungen über Brenthiden, no.3, p.25-28, illus. (Schluss folgt.).
Krancher, O. Die wachsmotten [Galleria mellonella L.] sind arge schädlinge!, no.2, p.11-13.
Röber, J. Sind die wachsmotten [Galleria mellonella L.] schädlinge?, no.3, p.32-33.

Entomologisk tidskrift (Stockholm), Arg.53, häft 4, 1932:

- Gebhardt, A. v. Daten zur kenntnis der ökologischen verhältnisse und der zoogeographischen verbreitung der Buprestiden (Col.), p.196-201.

Entomologist's monthly magazine (London), ser.3, v.19 (whole ser. v.69), no.217 (whole ser. no.824), Jan.1933.

- Austin, M. D. The insect and allied fauna of cultivated mushrooms, p.16-19, illus.

Entomologist's record (London), v.44, no.12, Dec.1932.

- Querci, O. An account of my studies in the biology of Pieris rapae, p.168-176.

Gesellschaft für vorratsschutz E. V. Mitteilungen (Berlin-Steglitz), Jahrg.8, no.6, Nov.1932; Jahrg.9, no.1, Jan.1933.

- Kunike, G. Eine mischung von aethylenoxyd und kohlendensäure zur schädlingsbekämpfung in gelagertem getreide, Jahrg.9, no.1, p.7-8.
Zacher, F. Brasilianische speicherschädlinge, Jahrg.8, no.6, p.68-72; Fortschritte in der vorratsschädlingbekämpfung, Jahrg. 9, no.1, p.3-5.
Lr.-- Ist die weizenwanze eine gefahr für müllerei, bäckerei und landwirtschaft ?, Jahrg.9, no.1, p.1-3, illus.

Hilgardia (Berkeley, Cal.), v.7, 1932; no.3, Nov.; no.7, Dec.

- Hermes, W. B. Deterrent effect of artificial light on the codling moth, no.7, p.263-280, illus.
Severin, H. H. P. Transmission of carrot, parsley, and parsnip yellows by Cicadula divisa, no.3, p.163-179, illus. Literature cited, p.179.

Indian journal of agricultural science, (Calcutta), v.2, pt.4, Aug.1932.

- Rahman, K. A. Observations on the immature stages of some Indian Psyllidae [Homoptera: Rhyncho], p.358-377, illus. References, p.374-375.
Thompson, W. R. The biological control of sugar cane pests, p.409-417.

Insecta Matsumurana (Sapporo, Japan), v.6, no.4, Nov.1932.

- Matsumura, S. New genera and new species described in "6000 illustrated insects of Japan-Empire", p.199-200.
Uchida, T. Beiträge zur kenntnis der Japanischen Ichneumoniden, p.145-168, illus.
New species and genera of insects from Japan described during the year 1931, p.192-198.

Institut Pasteur de Tunis. Archives, v.21, no.2, 1932.

- Wassilieff, A. Les rongeurs et les puces de la Tunisie et leur rôle dans la propagation de la peste. II. Revision des rongeurs de Tunisie. III. Revision des puces, p.298-340, illus.

Japan. Imperial agricultural experiment station. Bulletin (Tokyo), v.3, no.3, Mar.1932.

- Ishii, T. The Encyrtinae of Japan. II. Studies on morphology and biology,

- Japan. Imperial agricultural experiment station. Bulletin (Tokyo), v.3, no.3, Mar.1932. continued.
p.161-202, illus. Bibliography, p.196-199; Some Philippine Eucharids with notes on their oviposition habits, p.203-212, illus. Literature, p.212.
- Misaka, K. Zur Kenntnis der peristaltischen bewegung von *Chilo simplex* Butler in ihrer abhaengigkeit von der temperatur, p.217-223, illus. Literaturverzeichnis, p.223; Ueber die wirkung des nikotinsulfates auf die embryonalentwicklung von *Chilo simplex* Butler, p.224-242, illus. Literaturverzeichnis, p.240-241.
- Yagi, N. Temperature characteristics of pulsation and growth in mosquito pupae as basis for determination of lower developmental threshold point, p.213-216, illus. Literature cited, p.216.
- Journal of general physiology (Baltimore), v.16, no.1, Sept. 20, 1932.
Thompson, W. R., and Tennant, R. Studies in respirometry. II. Influence of infra-red radiation upon carbon dioxide respiration of *Drosophila* imago in dry air, p.23-31, illus.
- Journal of the ministry of agriculture, Great Britain, v.39, no.11, Feb.1933.
Petherbridge, F. R., and Thomas, I. The control of the raspberry beetle [*Byturus tomentosus* F.], p.1017-1028.
- Journal of the royal army medical corps (London), v.59, no.6, Dec.1932.
Christian, C. R. A case of typhus due to tick bite, p.445-450, illus.
Woods, T. F. M. Two simple anti-mosquito measures, p.450-452, illus.
- Kansas entomological society. Journal (McPherson), v.5, no.3, July 1932; v.6, no.1, Jan.1933.
Lawson, P. B. A new *Penthimia* [*P. floridana*, sp. n.] (Homoptera, Cicadellidae), v.6, no.1, p.34-35.
Painter, R. H. New subgenera and species of *Bombyliidae* (Diptera), v.6, no.1, p.5-18.
Smith, R. C. A summary of the population of injurious insects in Kansas for 1931, v.5, no.3, p.65-92, illus.
- Konowia (Wien), v.11, no.3, Nov.25, 1932.
Lindinger, L. Beiträge zur kenntnis der schildläuse, p.176-205.
- Lambillionca (Bruxelles), v.33, no.1, Jan.1933.
Schepdael, J. van. Deux cas de parasitisme chez les papillons. I. Un diptere parasite [*Forcipomyia papilionivora* Edwards] de *Phalera bucephala* L. imago, p.26-27; II. Un acarien parasite d'*Apatura iris* L. imago, p.27-28.
- Lingnan science journal (Canton, China), v.11, no.4, Nov.15, 1932.
Compere, H. Search for parasites of the red scale [*Chrysomphalus aurantii*], p.573.
Hoffmann, W. E. The economic status of the genus *Eurydema* with biological notes on *E. pulchrum* Westw. (Hemiptera, Pentatomidae), p.553-564, illus. References, p.564.
- London. Entomological society. Proceedings, v.7, pt.2, Dec.31, 1932.
Altson, A. M. On the feeding habits and breeding of *Ochromyia* (*Bengalia*) *depressa*, R.-D., and *O. peuhi*, B. B., p.36-40.
- London. Entomological society. Transactions, v.30, pt.2, Dec.31, 1932.
Bristowe, W. S. Insects and other invertebrates for human consumption in Siam, p.387-404.

- London. Entomological society. Transactions, continued.
- Carpenter, G. D. H. The forms of *Acraea johnstoni*, Godm. (Lep. Nymphalidae), and their distribution, p.251-266, illus Bibliography, p.265-266.
- Janisch, E. The influence of temperature on the life-history of insects, p.137-168. Literature, p.168.
- Jones, F. M. Insect coloration and the relative acceptability of insects to birds, p.345-385, illus.
- Richards, O. W., and Thomson, W. S. A contribution to the study of the genera *Ephestia*, Gn. (including *Strymax*, Dyar), and *Plodia*, Gn. (Lepidoptera, Phycitidae), with notes on parasites of the larvae, p.169-250, illus. Bibliography, p.231-247.
- Wainwright, C. J. The British Tachinidae (Diptera). First supplement, p.405-404.
- Wilkinson, D. S. A revision of the Ethiopian species of the genus *Apanteles* (Hym. Bracon.), p.301-344, illus.
- London. Royal society. Proceedings, Ser. B, v.112, no. B 774, Nov.1, 1932.
- Storey, H. H. The inheritance by an insect vector [*Cicadulina mbila*] of the ability to transmit a plant virus, p.46-60. References, p.59-60.
- Malayan agricultural journal (Kuala Lumpur), v.21, no.1, Jan.1933.
- Corbett, G. E. Some preliminary observations on the coffee berry borer, *Stephanoderes* (*Cryphalus*) *hampel* Ferr., p.8-22, illus.; Spraying v. dusting for leaf-eating caterpillars of coconuts, p.35-37, illus.
- Muséum national d'histoire naturelle (Paris). Bulletin, v.4, ser.2, no.7, Nov.1932.
- Floutiaux, E. Révision des espèces Malagaches du genre *Dorygonus* Candèze (Coleoptera - Elateridae), p.856-867. Littérature, p.867.
- National academy of sciences, Washington. Proceedings, v.19, no.1, Jan.1933.
- Skull, A. F. The time of embryonic segregation in aphids as determined from intermediate types, p.164-175.
- Nature (London), v.131, 1933; no.3297, Jan.7; no.3299, Jan.21; no.3301, Feb.4.
- Munro, J. W. Infestation of stored products by insects, no.3299, p.82-84. References, p.84.
- A new source of rubber, no.3297, p.21. (*Bradyrhiza gilveolella* Tr., and *Sphenoptera foveola* Gebl. used to cause large flow of latex from roots of *Chondrilla*.)
- Population density and egg-laying in flies, no.3301, p.176.
- New York entomological society. Journal (Lancaster, Penn.), v.40, no.4, Dec. 1932.
- Beck, D. E. Life history notes and a study of the effects of humidity on adult emergence of *Rhagoletis suavis* Cress., from pupae at a constant temperature (Diptera, Trypetidae), p.497-500, illus.
- Decker, G. C. Biology of the bidens borer, *Epiblema otiosana* (Clenens) (Lepidoptera, Olatruseutidae), p.503-509, illus.
- Briggers, B. F. Cocoon parasites of the oriental fruit moth, p.489-496, References, p.496.
- Rudolfs, W. Studies on the chemical changes during the life cycle of the tent caterpillar (*Moltesoma americana* Fab.). V. Weight and data, p.481-488.
- Stollmeyer, C. R. Notes on the life history of *Morpho peleides insularis* Fruhstorfer, p.523-526, illus.

New Zealand journal of science and technology (Wellington), v.14, no.3, Dec. 1932.

Cottier, W. A study of the insect fauna of swede turnips infected with dry-rot, p.142-145. Literature cited, p.145.

Norsk entomologisk tidsskrift (Oslo), v.3, no.1-2, 1932.

Grønlien, N. Notes on Norwegian Nepticalids, p.103-114, illus.

Hanssen, H. K. Målselvens Koleoptera, p.17-71.

Munster, T. Tillaeg og bemaerkninger til Norges Koleopterfauna. III, p.83-96.

Natvig, L. R. Om myiasis samt to nye norske kasus, p.117-122. Benyttet litteratur, p.122.

Scheerpelz, O. En ny belysningsanordning for stereo-mikroskoper av Greenough-typen, p.141-144, illus.

Ohio journal of science (Columbus), v.33, no.1, Jan.1933.

Lowry, P. R. Cicadellidae leafhoppers of New Hampshire, p.59-80. References, p.80.

Pan-Pacific entomologist (San Francisco), v.9, no.1, Jan.1933.

Van Dyke, E. C. A short review of *Dyslobus* LeConte, a genus of broad-nosed weevils of the subfamily Otiorhynchinae with descriptions of new species, p.31-47.

Walther, E. A practical method of controlling *Dendroctonus valens* Lec., p.47.

Perm, U.S.S.R. Institut des recherches biologiques. Bulletin, v.8, no.2, 1932.

Bryssowa, G., and Puschkina, Z. Die larven von *Hypoderma bovis* in der sowjet wirtschafft Jugokamsk (Kreis Perm), p.95-104, illus. Russian text. English summary, p.104.

Danilova, M., and Briukhanova, A. Malaria in the subdistrict Bredy, Ural Province, U.S.S.R., p.65-94. Russian text. English summary, p.92-94.

Danilova, M. and Zubareva, S. On the influence of light on the larval development of *Anopheles maculipennis*, p.57-64, illus. Russian text. English summary, p.63-64.

Philippine journal of agriculture (Manila), v.3, no.1, 1932.

Gonzales, S. S. Further studies of the biology of the migratory locust (*Pachytylus migratorioides* Reiche and Fairm.), Locustidae-Orthoptera, p.1-38, illus.

Parasitology (London), v.24, no.3, Oct.1932.

Bedford, G. A. H. Trichodectidae (Mallophaga) found on African carnivora, p.350-363, illus. References, p.363-364.

Buxton, P. A. The relation of adult *Rhodnius prolixus* (Reduviidae, Rhyncho-ta) to atmospheric humidity, p.429-439, illus. References, p.439.

Green, R. A rapid method of staining and mounting mid-guts of mosquitoes for the demonstration of oocysts, p.305-306.

Imms, A. D. Observations on some parasites of *Oscinella frit* Linn., p.440-447, illus. References, p.447.

Kirby, H. Protozoa in termites of the genus *Anitermes*, p.289-304, illus. References, p.303-304.

Macleod, J. The bionomics of *Ixodes ricinus* L., the "sheep tick" of Scotland, p.382-400, illus. References, p.400.

Marshall, J. F., and Staley, J. On the distribution of air in the oesophageal diverticula and intestine of mosquitoes, p. 368-381, illus. References, p.380-381.

Parasitology (London), continued.

Mellanby, K. Effects of temperature and humidity on the metabolism of the fasting bed-bug (*Cimex lectularius*), Hemiptera, p.419-428, illus. References, p.428.

Taylor, A. W. The development of West African strains of *Trypanosoma gambiense* in *Glossina tachinoides* under normal laboratory conditions, and at raised temperatures, p.401-418. References, p.417.

Wigglesworth, V. B. The hatching organ of *Lipeurus columbae* Linn. (*Hallophaga*), with a note on its phylogenetic significance, p.365-367, illus. References, p.367.

Psyche (Cambridge, Mass.), v.39, no.3, Sept. 1932.

Bill, J. P. Swarming Chironomidae, p.68.

Jacot, A. P. Concerning Oudemans' "Kritisch historisch overzicht der Acarologie" in its bearing on nomenclature of the moss-mites, p.59-63.

Miller, F. W. Muscle variations in the tibia of several species of aphids, p.64-67, illus.

O'Byrne, H. November observations on *Pieris protodice vernalis* Edw. in Missouri (Lepid. Pieridae), p.85-86.

Quarterly journal of microscopical science (London), new ser. no.299 (v.75, pt.III, Nov. 1932.

Metcalf, M. E. Notes on the structure and development of the reproductive organs in *Philaenus spumarius* L., p.467-481, illus. Literature, p.480-481.

Queensland agricultural journal (Brisbane), v.38, pt.6, Dec.1932; v.39, pt.1, Jan.1933.

Atherton, D. O. Pests of cotton in the Callide Valley, v.38, pt.6, p.488-492.

Jarvis, E. Cane pest combat and control. The grey-back beetle [*Lepidoderma albohirtum* Waterh.], v.38, pt.6, p.472-475, illus.; v.39, pt.1, p.5-8, illus.

Shelton, E. J. Diseases of the pig. External parasites of the pig, v.38, pt.6, p.519-521.

Summerville, W. A. T. Notes on the onion thrips (*Thrips tabaci* Lindeman), v.39, pt.1, p.41-46.

Revista de entomologia (Sao Paulo, Brasil), v.2, no.4, Dec.28, 1932.

Moulton, D. The Thysanoptera of South America (1), p.451-484. (To be cont.)

Revista do Museu Paulista (Sao Paulo), v.17, pt.2, 1932.

Mello-Leitao, [C.de]. Opiliones do Brasil, p.1-511, illus.

Revue de zoologie agricole et appliquée (Bordeaux), Année 31, 1932; no.6, Jun.; no.7, July; no.8, Aug.; no.9, Sept.; no.10, Oct.

Feytaud, J. Le pou de San José (*Aspidiotus perniciosus* Const.) (suite et fin). Le risque pour l'Europe, no.6, p.89-94. Bibliographie, p.94; Un nouvel appât pour la destruction des courtilières [mole crickets], no.7, p.105-107; Le pou de San José en Europe, no.8, p.121-123. Bibliographie, p.123.

Lataste, F. Nouvelles observations sur le criocère du lis. I. Vitalité et fécondité, no.10, p.161-163.

Voukassovitch, P. Contribution à l'étude des parasites et hyperparasites d'*Hyponomeuta malinellus* Zell., no.7, p.108-120, illus.; no.8, p.124-136, illus.; no.9, p.137-145, illus.; no.10, p.153-160, illus.

La nicotine, no.9, p.145-151.

Contre la mouche des fruits [*Ceratitis capitata*], no.10, p.164-166.

- Rhodesia agricultural journal (Salisbury), v.29, 1932; no.9, Sept.; no.11, Nov.
Hopkins, J. C. F. Further notes on leaf curl of tobacco in southern Rhodesia
no.9, p.680-686, illus. References, p.686. (Carried by white fly).
Jack, R. W. Tsetse fly operations in Lomagundi district, no.11, p.886-905,
illus.
Mossop, M. C. Cultural methods and tobacco whitefly in southern Rhodesia,
no.11, p.869-872.
Tsetse fly: eastern border, no.9, p.673-675.
- Rivista di patologia vegetale (Pavia), Anno 22, no.9-10, Sept. and Oct. 1932.
Martelli, G. M. Deposizione di "Calliphora vomitoria" sui fiori di piante
del gen. "Stapelia", p.311-314, illus.
- Société de biologie (Paris). Comptes rendus, v.111, no.34, Nov.14, 1932.
Panayotatou, A. Les rats et les puces, reservoirs et vecteurs du typhus ex-
anthématique à Alexandrie, p.496-498, illus.
- Société de pathologie exotique (Paris). Bulletin, v.25, 1932; no.7, July 6; no.8
Nov.9; no.10, Dec.14.
Cazanove, F. Les moustiques à Dakar en 1931, no.7, p.797-817.
Delanoë, P. L'importance de la puce de l'homme, *Pulex irritans* L., dans
les épidémies de peste au Maroc no.9, p.958-960; Au sujet de la présence
chez deux carnassiers du Maroc d'une variété de la puce de l'homme, *Pulex*
irritans Linné variété *fulvus* Ioff. 1929, no.9, p.960-962.
Roubaud, E. Recherches sur les variations trophiques et biologiques des
peuplements de l'*Anopheles maculipennis*, no.7, p.755-762.
Roubaud, E., and Colas-Belcour, J. Observations sur la biologie de l'
Anopheles plumbeus. I. Le comportement larvaire, no.7, p.763-770, illus.
Roubaud, E., and Gaschen, H. Différenciation des races biologiques de
Culex pipiens L. par l'adaptation larvaire aux milieux ammoniacaux, no.10,
p.1053-1058.
Senevet, G., and Trenszy, A. A propos de l'*Aedes mariaae* (Sergent, 1903),
no.7, p.702-709, illus. Bibliographie, p.709.
Toumanoff, C. Contribution à l'étude de la faune anophélienne d'altitude
au Tonkin, no.7, p.770-788, illus. Bibliographie, p.788; La transmission
du paludisme au Tonkin en fonction de la physiographie des lieux, no.9,
p.976-985.
Wagner, J., and Roubaud, E. Sur un pulcicide nouveau parasite des rongeurs
et insectivores de Madagascar, (2^e note), no.9, p.962-964, illus.
- Société entomologique de France (Paris). Annales, v.101, Année 1932, no.4,
Dec.31, 1932.
Boucomont, A. Synopsis des *Onthophagus* d'Amérique du Sud [Col. Scarab.],
p.293-332. Bibliographie, p.331-332.
- Société entomologique de France (Paris). Bulletin v.37, no.20, 1932.
Pussard, R. Contribution à l'étude de la nutrition des *Psyllides* [Hem.].
Présence de gaines dans les tissus de la plante hôte et son importance,
p.292-297, illus. Bibliographie, p.296-297.
- Société royale entomologique d'Égypte. Bulletin (Le Caire), Année 1932, no.3.
Hood, J. D. New species of the genus *Thrips* from Central Africa and Egypt,
p.115-140, illus.
Priesner, H. Preliminary notes on *Scirtothrips* in Egypt, with key and
catalogue of the *Scirtothrips* species of the world, p.141-155.
Priesner, H., and Hosny, M. The "masked scale" (*Chrysomphalus personatus*),
in Egypt, p.92-96, illus.

South African journal of science (Johannesburg), v.29, Oct.1932.

Dicke, B. H. The tsetse-fly's influence on South African history, p.792-796.

Harris, R. H. T. P. Some facts and figures regarding the attempted control of *Glossina pallidipes* in Zululand, p.495-507, illus.

Henkel, J. S., and Bayer, A. W. The wattle bag worm (*Acanthopsyche junodi* Heyl.): an ecological study, p.355-365. References, p.365.

Murray, D. P. The early stages of some South African Hesperids, p.534-588, illus.

Ripley, L. B., and Petty, B. K. Possibilities of combatting wattle bag-worm with insecticidal dusts, p.544-561, illus.

R. Stazione sperimentali agraria de Modena. Annali, nuova ser., v.2, Ann.1930-1931, 1932.

Iaopolito, G. d' Esperienze di lotta contro la mosca delle ciliege, p.281-286.

Tijdschrift voor entomologie (The Hague), v.75, Jahrg.1932; no.3-4, Dec.; Supplement...70^{ea} geboortedag van Dr. J. Th. Oudemans.

Betrem, J. G. Eine merkwürdige Ichneumonidengattung *Klutiana* nov. gen., Sup., p.89-96, illus. Literaturverzeichnis, p.95-96.

Bonne-Wepster, J. Over symbiose tusschen muskietenlarven en waterplanten, Sup., p.254-258, illus.

Coldeway, H. Twee jaren vlindervangst met electrisch licht, Sup., p.182-187.

Kempers, J. W. B. De monddeelen der Coleoptera, Sup., p.60-70, illus.

Lycklama à Nijeholt, H. J. Melanisme bij Lepidoptera, Sup., p.29-35, illus.

Macfie, J. W. S. Ceratopogonidae from the wings of dragonflies, no.3-4, p.265-283, illus.

Meijere, J. C. H. de. Aus nepenthes-bechern gezüchtete Syrphiden, Sup., p.153-162.

Schuurmans Stekhoven Jr., J. H. Tabanids from Sumatra and Borneo (Fifth supplement to my monograph: The Tabanids of the Dutch East Indian Archipelago), Sup., p.78-83, illus.

Voute, A. D. Een nieuw geval van bestrijding van een insectenplaag met behulp van een inheemschen parasiet. (*Agoniaspis* sp., parasiet van *Phyllocnistis citrella* Staint.), Sup., p.128-135.

Weber, M. Dr. Johannes Theodorus Oudemans, Sup. p.I-XVI, portrait. (Zoologische geschriften van Dr. J. Th. Oudemans, p.V-XVI).

United States public health reports (Washington, D. C.), v.47, no.53, Dec.30, 1932.

Badger, L. F. Rocky Mountain spotted fever (eastern type) virus recovered from the dog tick *Dermacentor variabilis* found in nature, p.2365-2369. References, p.2369.

Victorian naturalist (Melbourne), v.49, no.8, Dec.1932; no.9, Jan.1933.

Coleman, E. Pollination of *Diuris pedunculata* R. Br. [by *Halictus lanuginosus* Smith], no.8, p.179-186, illus.; Pollination of orchids: Genus *Prasophyllum* [by *Anatella spinolae*], no.9, p.214-221, illus.

Washington. Biological society. Proceedings, v. 46, Feb.20, 1933.

Ball, E. D. Some new treehoppers from the Southwest with notes on others, p.25-32.

Hottes, F. C. Descriptions of Aphididae from western Colorado, p.1-24.

Washington. Entomological society. Proceedings, v.35, no.2, Feb.1933.

Ross, H. H. The description and life history of a new sawfly, *Sterictiphora apios* (Argidae: Hymen.), p.13-19, illus.

Wiener entomologische zeitung, v.49, no.4, Dec.1932.

Eggers, H. Borkenkäfer (Ipidae Col.) aus Südamerika V. . Die gattung *Problechilus* Eichh. mit 8 neuen arten, p.226-235.

Emden, F. von Zweite revision der gattung *Simianellus* Emd. 1924.(17. beitrage zur kenntnis der Sandalidae, zugleich Philippinische Sandalidae 1), p.189-211.

Lindinger, L. Beiträge zur kenntnis der schildläuse Hemiptera-Homoptera, Coccidae, p.217-225.

Schmidt, E. Zur kenntnis der familie Pyrrhocoridae Fieber (Hemiptera-Heteroptera), p.236-281.

Zeitschrift für wissenschaftliche biologie. Abt.B. Zeitschrift für zellforschung und mikroskopische anatomie, Berlin v.16, 1932; no.2, Oct.27; no.3-4, Dec.8.

Lange, H. H. Die phagocytose bei Chironomiden, no.3-4, p.753-805. Literaturverzeichnis, p.804-805. illus.

Naville, A. Les bases cytologiques de la théorie du "crossing-over": étude sur la spermatogénèse et l'ovogénèse des Calliphorinae, no.2, p.440-470, illus. *Travaux cités*, p.468-469.

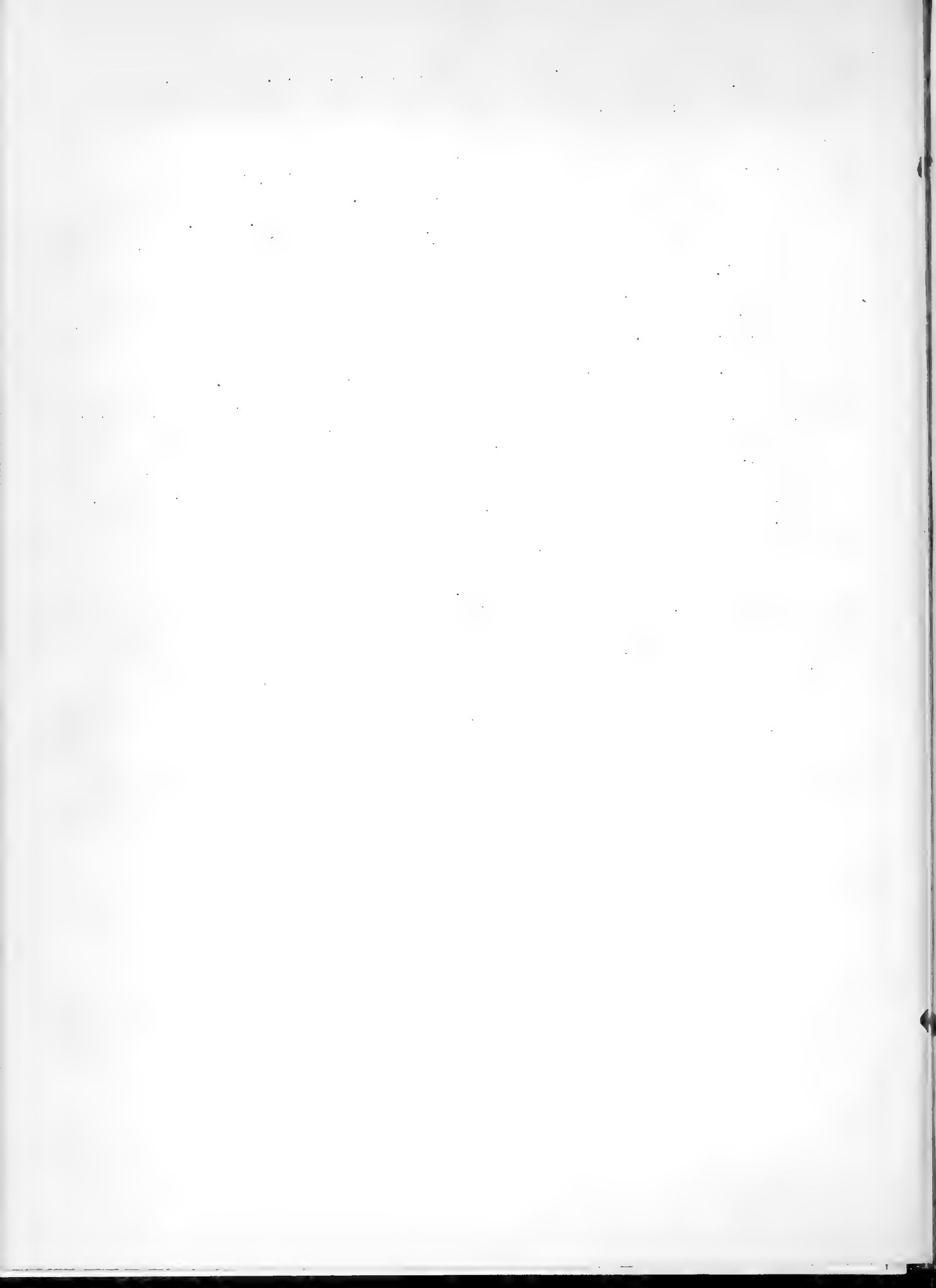
Ries, E. Die prozesse der eibildung und des eiwachstums bei pediculiden und mallophagen, no.2, p.314-388. Literaturverzeichnis, p.386-388.

Zeitschrift für wissenschaftliche biologie. Abt.F. Zeitschrift für parasitenkunde (Berlin), v.4, no.4, Sept.5, 1932.

Bequaert, J. On the ornate nymphs of the tick genus *Amblyomma* (Acarina: Ixodidae), p.776-783, illus.

Hase, A. Beobachtungen an venezolanischen Triatoma-arten, sowie zur allgemeinen kenntnis der familie der Triatomidae (Hemipt.-Heteropt.). Beiträge zur experimentellen parasitologie 8, p.585-652, illus. Schriftenverzeichnis, p.649-652.

Zachvatkin, A. A. Beschreibung eines merkwürdigen *Meloe-triungulinus* aus Turkestan, nebst einigen bemerkungen zur morphologie und systematik dieser larven, p.712-721.



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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

- Austen, E. E., and Hughes, A. W. M.
Clothes moths and house moths; their life-history, habits and control. 56p. illus. London, Printed by order of the Trustees of the British Museum, 1932. (Brit. mus. (Nat. hist.). Econ. ser. no.14.).
- Berland, L.
Les Arachnides (Scorpions, Araignées, etc.). Biologie systématique. 485p. illus. Paris, Paul Lechevalier et fils, 1932. (Encyclopédie entomologique. Série A. v.16). "Bibliographie" at end of each chapter.
- Bose research institute, Calcutta.
Transactions... v.7, 1931-32, edited by Sir Jagadis Chunder Bose. 343p. illus. London, Longmans, Green and co. 1933. Partial contents.-Bhattacharjee, G.C. The fish-eating spiders [*Lycosa annandalei*] in Bengal and their habits, p.238-249.
- Cousin, G.
Etude expérimentale de la diapause des insectes. 341p. illus. Paris, Laboratoire d'évolution des êtres organisés, 1932. (Sup. au Bul. biol. France et Belgique. Sup. XV.). Liste des ouvrages consultés, p.315-331.

Fletcher, T. B.

Life histories of Indian Microlepidoptera (second series). Alucitidae (Pterophoridae), Tortricina and Gelechiadae. 58p. illus. Calcutta, Government of India central publication branch, 1932. (Imp. council agr. research. Sci. monog. no.2.).

Gahan, C. J.

Furniture beetles...Ed.3, rev. and enlarged by Frederick Laing. 30p. illus. London, Printed by order of the Trustees of the British Museum, 1932. (Brit. Mus. (Nat. Hist.). Econ. ser. no.11.).

Garcia Mercet, P.

Los parásitos de los insectos perjudiciales. Primera edición... 151p. illus. Barcelona, Salvat Editores, S. A., 1932. Bibliografía, p.149-151. At head of title: Biblioteca agrícola Salvat.

Hering, H.

Die schmetterlinge nach ihren arten dargestellt. 545p. illus. Leipzig, Verlag von Quelle und Meyer, 1932. (Brohmer, P., Ehrmann, P., and Ulmer, G. Die tierwelt Mitteleuropas. Ergänzungsband I.).

Horticultural education association.

The H. E. A. yearbook. v.1, 1932. 92p. Wye, Kent, Hort. ed. assoc. Dec. 1932. Partial contents.-Martin E. The present uses and future development of spray spreaders, p.76-84. References, p.83-84; Austin, M.D., Jary, S.G., and Martin, E. Some new insecticides and possible insecticide-fungicide combinations, p.85-92. References, p.92.

Houard, C.

Les zoocécidies des plantes de l'Amérique du Sud et de l'Amérique Centrale; description des galles; illustration, bibliographie détaillée, répartition géographique, index bibliographique. 519p. illus. Paris, Librairie scientifique Hermann et cie. 1933. Index bibliographique, p.453-491.

Howard, L. O.

Fighting the insects: the story of an entomologist. Telling of the life and experiences of the writer. 333p. New York, The Macmillan company, 1933.

Kenya colony and protectorate. Department of agriculture.

Papers read at the "Coffee planters' days", Nairobi, June 29th and 30th, 1932. Various paging. Nairobi, Printed by the government printer, 1932. Partial contents.- Coffee mealy bug research. By H.C. James. 18p. (Bul. 18 of 1932.) Coffee capsid bug (*Lygus simonyi* Reut.) and the use of kerosene extracts of pyrethrum for the control of "Lygus" and "Antestia". By R.H. Le Pelley. 18p. (Bul. 22 of 1932.).

Koidsumi, K.

Experimental studies on the influence of low temperatures upon the development of fruit flies. Second report - On the fatal action of extremely low temperatures upon the pupae and larvae of melon-fly (*Chaetodacus cucurbitae* Coquillett). 38p. Formosa, Japan. Government research institute, Nov.1932. (Govt. research inst. Formosa, Japan. Bul.92.). Text in Japanese. English summary, p.38.

Krishnamurti, B.

The potato *Epilachna* beetle, *Epilachna viginti octo-punctata* (Fabr.). 16p. illus. Bangalore, Printed at the government press, 1932. (Mysore state. Dept. agr. Ent. ser. Bul. no.9.)

Leefmans, S.

Ziekten en plagen der cultuurgewassen in Nederlandsch Oost-Indie in 1930.
84p. Batavia, Landsdrukkerij, 1933. (East Indies. Dept. landb., nijv. en handel. Alg. proefsta. landb. Meded. inst. plantenziekten no.81.).

Lindner, E.

Die fliegen der palaearktischen region. lfg.68-69. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1933. Contents.- lfg.68. Duda, O. Chloropidae, p.49-112; lfg.69. Engel, E. O. Bombyliidae, p.97-144, illus.

Mátyás, A. von

Fortschritte in der bienenwohnungsfrage... 1 Aufl. 320p. illus. Budapest (Ungarn). Druck und verlag: Stadium Sajtóvállalat, 1932.

Merwe, C. P. van der

Pernicious scale [*Aspidiotus perniciosus*]. 11p. illus. Pretoria, The government printer, 1932. (Union of South Africa. Dept. agr. Bul. no.118.). Text in Dutch and English.

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

Memento, no.2-3, 5-6, 8-9, 11, 17, 1932. Contents.- no.2. Lutte contre les acridiens. Préparation et mode d'emploi des appâts toxiques, 7p. Dec.1932; no.3. La teigne du pêcher, *Anarsia lineatella* Zell. (Lepidoptères Gelechiidae), 4p. illus. Sept.1932; no.5. La mouche des fruits [*Ceratitis capitata* Wied.], 6p. Dec.1932; no.6. La mouche de l'olive (*Dacus oleae*, Rossi), 6p. Nov.1932; no.8. La cecidomye des céréales (*Mayetiola destructor*, Say. Diptère, Cecidomyidae), 5p. Nov. 1932; no.9. Les pucerons des arbres fruitiers, 9p. June 1932; no.11. La cochenille Australienne (*Icerya purchasi* Mask.), 7p. illus. Aug.1932; no.17. Les chenilles des friches [*Ocnogyna boetica* Rbr. Var. *meridionalis* Seitz], 5p. Nov. 1932.

Munro, H. K.

Some dacine and ceratitine Trypetidae (Diptera) from Africa in the collection of the American museum of natural history. 10p. New York, American museum of natural history, Feb.25, 1932. (Amer. mis. novitates no.597.).

Mysore state. Department of agriculture.

The potato beetle (A serious pest of the potato crop). 4p. illus. Bangalore, Printed at the government press, 1932. (Mysore state. Dept. agr. Circ.no.49.).

Oldham, J. W.

Helminths in the biological control of insect pests. 6p. 1933. References, p.6. (Imp. bur. agr. parasitol. (St. Albans, Eng.). Notes and mem. no.9.).

Ontario. Entomological society.

Sixty-second annual report, 1931. 98p. illus. Toronto, Printed by the printer to the King's Most Excellent Majesty, 1932. Partial contents.- Dustan, A.G. and Matthewman, W.G. Some notes on the cyclamen mite (*Tarsonemus pallidus* Banks) a pest of strawberry plants, p.34-37; Thompson, R.W. The black vine weevil (*Brachyrhinus sulcatus* Fab.) attacking Japanese yew, p.37-39; Ross, W.A. History of the Oriental fruit moth [*Grapholita molesta* Busck.] infestation in the Niagara Peninsula, p.40-43, illus.; Putman, W.L. Chrysopids as a factor in the natural control of the Oriental fruit moth, p.44-45; Hutson, R. Control measures for apple tree borers, p.46-47; Marshall, J. Observations on the

Ontario entomological society, continued .

trapping of apple maggot flies [*Rhagoletis pomonella* Walsh.], p.47-48; Caesar, L. The apple and thorn skeletonizer (*Sineethis pariana* Clerck), p.48-49; Ross, W.A. The status of lubricating oil sprays in Ontario, p.49-57, illus.;; Mitchener, A.V. The brown-headed spruce sawfly, *Pachymetopus ocreatus* (Harr.) Marlatt, p.57-61, illus.; Balch, E.R. *Dreyfusia piceae* (Ratz.) and its relation to "gout disease" in balsam fir, p.61-65, illus. Literature cited, p.65; Steenburgh, W.E. van The parasites of the Oriental fruit moth (*Laspesyesia molesta* Busck.) in Ontario 1931, p.66-69; Stirrett, G.M., and Armott, D.A. Observations on the outbreak of sod webworms during the season of 1931, p.69-75, illus. Bibliography, p.74-75; Stirrett, G.M. Observations on the outbreak of green clover worm attacking beans during the season 1931, p.75-82. Bibliography, p.80-82; Kendall, E.W. Notes on the onion maggot (*Hylemyia antiqua*, Meigen), p.82-84; Dustan, A.G., and Matthewman, W.G. Notes on *Taeniothrips gladioli* Moulton and Steinweden, p.84-87; Thompson, R.W. Notes on control substances for sowbugs, p.87-89; Caesar, L. The European corn borer situation in Ontario in 1931, p.89-91; Kingscote, A.A. Myiasis in ranch raised foxes, p.91-93.

Quebec society for the protection of plants.

Annual report 23 and 24, 1930-1932. Supplement to the Report of the Minister of Agriculture. 206p. illus. Quebec, Printer to His Most Excellent Majesty the King, 1932. Partial contents.-Dickison, W. The grape mealybug (*Pseudococcus maritimus* Ehrhorn). Order: Homoptera. Family: Coccidae, p.97-104. Bibliography, p.103-104; Sutherland, J.R.G. Some observations on the common mealybug, *Pseudococcus citri*, Risso, p.105-118, illus., Bibliography, p.115-116; Gibson, A. Mosquito investigations in Canada during 1931, p.137-148; Twinn, C.R. Summary of insect conditions in Canada, in 1930, p.149-168; Daviault, L. The pine shoot moth, *Rhyacionia (Evetria) frustana* Comstock, in the Province of Quebec, p.170-172. Bibliography, p.172.

Schultz, E. F.

La *Icerya purchasi* o cochinilla algodonosa y sa represión por medio de la *Ve-dalia cardinalis*. 6p. illus. [1933?]. (Tucuman. Estac. expt. agr. Circ. no.52.).

Seyrig, A.

Les Ichneumonides de Madagascar. I. Ichneumonidae pimplinae. 183p. illus. Tananarive, 1932. (Mémoires de l'Académie malgache, fasc.11). Bibliographie, p.182.

Simon, St. L.

Diagrams and sketches of some insect vectors and other Arthropoda injurious to man or beast. For use of students. 8 fold. plates. [London, Garrett & Campbell, Ltd., 1932.].

Sweden. Centralanstalten för försöksväsendet på jordbruksområdet.

Lantbruksentomologiska avdelningen, no.61, 1931; no.63-66, 1932. Stockholm, O.L. Svenbäcks Boktryckeri. Contents.- no.61. Lindblom, A., and Sjöberg, K. Studier rörande fruktträdskarbolineum. Undersökningar av fruktträdskarbolineumpreparatens praktiska värde och sambandet mellan effektiviteten hos dem och några av deras kemiska och fysikaliska egenskaper, 28p. illus. Litteratur, p.23. (Kemiske avdelningen Nr.44). German summary, p.26-28; no.65. Aalberg, O. Ärttripsen (*Kakothrips robustus* Uzel). 11p. illus.; no.64. Lindblom, A., and Mählow, J. Två undersökningar rörande vetemyggans skadegörelse och ekonomiska betydelse, 24p. illus. German summary, p.21-24; no.65. Lindblom, A., Jämförande försök med insektdödande vinterbesprutningsvätskor för fruktträdgården,

24p. illus. German summary, p.19-24; no.66. Lindroth, C.H. Timotejveck-laren (*Tortrix paleana* Hb.) ett skadedjur på vallar, 32p., illus. Litteratur, p.31-32. German summary, p.28-31.

Takahashi, R.

Aleyrodidae of Formosa. Pt.II. Observations on the Coccidae of Formosa. Pt.III. 64p. illus. Taihoku, Formosa, Published by the institute, 1933. (Formosa, Japan. Gov't. research inst. Dept. agr. Report no.60.).

Taylor, J.S.

Report on cotton insect and disease investigations. Pt. II. Notes on the American bollworm (*Heliothis obsoleta* Fabr.) on cotton, and on its parasite *Microbracon brevicornis*, Wesm. 18p. Pretoria, The Government printer, 1932. (Union of South Africa. Dept. agr. Sci. bul. no.113.). References, p.17-18.

Tillyard, R. J., and Seddon, H. R., Editors.

The sheep blowfly problem in Australia. Report no.1, by the Joint blowfly committee... 136p. illus. Melbourne, H.J. Green, Government printer, Jan. 1933. (Council for sci. indust. research. Pamphlet no.37; New South Wales Dept. agr. Sci. bul. no.40.). References to literature, p.132-136.

Union of South Africa. Department of agriculture.

Entomology memoirs. Memoir no.8. 45p. illus. Pretoria, The Government printer, 1932. Contents.-New species of South African Psyllids, III, by F.W. Pettey, p.3-23, illus.; Records of South African fruit-flies (*Trypetidae*, *Diptera*) with descriptions of new species, by H.K. Munro, p.25-45, illus.

Union of South Africa. Department of agriculture. Director of veterinary services and animal industry, Onderstepoort, Pretoria.

Eighteenth report August 1932, pt.1-2. 1094p. illus. Pretoria, Government printer, 1932. Partial contents:-pt.1. Curson, H.H. Distribution of *Glossina* in the Bechuanaland Protectorate, p.197-219, illus.; Bedford, G.A.H. Description of *Argas striatus*, a new species of tick, p.221-222, illus.; Bedford, G.A. H. A synoptic check-list and host-list of the ectoparasites found on South African Mammalia, Aves and Reptilia. (Second edition), p.223-523. List of references, p.515-523; Whitnall, A.B.M. The trypanosome infections of *Glossina pallidipes* in the Umfolosi game reserve, Zululand. (Preliminary report), p.21-30, illus.; pt.2, Section IX. Dips and dipping. A. Lime sulphur dips. Paper I. Graf, E., and Wilken-Jorden, T.J. General introduction. Lime-sulphur dips, p.1005-1014, illus. Literature, p.1013; Paper II. Wilken-Jorden, T.J. A new laboratory method of chemical analysis, p.1015-1027, illus. Literature, p.1027; Paper III. Wilken-Jorden, T.J. A preliminary study of a colorimetric method as a rapid means of control of polysulphide solutions, p.1029-1035. Literature, p.1035.

Van Duzee, M. C.

New Dolichopidae from North America with notes on several described species. 27p. illus. New York, American museum of natural history, Mar. 21, 1933. (Amer. mus. novitates no.599.).

Waterhouse, G. A.

What butterfly is that? A guide to the butterflies of Australia. 291p. illus. Sydney, Australia, Angus & Robertson Ltd., 1932.

Weber, H.

Lehrbuch der entomologie. 726p. illus. Jena, Gustav Fischer, 1933. Literaturverzeichnis, p.682-697.

Wheeler, W. M.

Colony-founding among ants with an account of some primitive Australian species. 179p. illus. Cambridge, Harvard university press, 1933. Bibliography, p.161-170.

Winn, A. F., and Beaulieu, G.

A preliminary list of the insects of the Province of Quebec. Pt. II. Diptera. Revised and supplemented by C. E. Petch and J. B. Maltais. 100p. Published as a supplement to 24th Report of the Quebec society for the protection of plants, 1932.

PERIODICALS

Académie d'agriculture de France. Comptes rendus (Paris), Année 1933, no.6, Feb.8. Viala, and Blanchard, E. Les arsenicaux en arboriculture fruitière, p.180-186.

L'Amateur de papillons (Paris), v.6, no.12, Feb.1933.

Cleu, H. La chenille d'*Argyresthia chrysidella* de Peyerimhof et ses parasites, p.195-199.

Hering, M. Recherches des mines aux environs de Paris. Liste des mines d'insectes observées à Lardy et à Saint-Germain, p.187-195, illus. (à suivre).

American journal of hygiene (Lancaster, Penn.), v.16, no.3, Nov.1932.

Boyd, M. F. A note on the preparation of anopheline dissections for examination, p.836-838; Methods for the manipulation and conservation of anopheline imagines, p.839-844, illus.

Boyd, M. F., and Cain, T. L. Jr. On large scale rearing of *Anopheles quadrimaculatus* in captivity, p.832-835.

Frye, W. W., and Meleney, H. E. Investigations of *Endamoeba histolytica* and other intestinal protozoa in Tennessee: IV. A study of flies, rats, mice and some domestic animals, as possible carriers of the intestinal protozoa of man in a rural community, p.729-749, illus. Bibliography, p.746-749.

Annales de parasitologie (Paris), v.10, no.6, Nov.1, 1932.

Boissezon, P. de L'hibernation conditionnelle chez *Theobaldia annulata* Schr., p.494-496.

Galliard, H. Calicidés du Gabon. IV. Essai sur leur biologie dans ses rapports avec le paludisme local, p.465-492, illus. Bibliographie, p.490-491.

Raynal, J. and Le Gac, P. Sur la présence de *Phlebotomus papatasi* Scopoli 1786 à Marseille, p.497-503, illus.; Sur un exemplaire de *Phlebotomus larroussei* Langeron et Nitzulescu 1931, capturé à la rose (Banlieue de Marseille), p.504-508, illus.

Annals of applied biology (London), v.20, no.1, Feb.1933.

Metcalf, M. E. *Dasynura leguminicola* (Lint.) the clover seed midge, p.185-204, illus. References, p.203-204.

Annals of tropical medicine and parasitology (Liverpool), v.27, no.1, Apr.10, 1933.

Davey, T. H., and Gordon, R. M. The estimation of the density of infective anophelines as a method of calculating the relative risk of inoculation with malaria from different species or in different localities, p.27-52. References, p.51-52.

Duke, H. L. Studies on the factors that may influence the transmission of the polymorphic trypanosomes by Tsetse. Pt. 1. - A review of existing knowledge on this subject, with some general observations, p.99-118. References, p.118. Pt. 2.- On the transmitting power of different races of *Glossina*, p.119-121.

- Annals of tropical medicine and parasitology (Liverpool), continued
References, p.121. Pt. 3.-Glossina morsitans versus Glossina palpalis as a transmitter of the polymorphic group of trypanosomes, p.123-130. References, p.130.
- Gibbins, E. G. The domestic Anopheles mosquitoes of Uganda, p.15-25. References, p.25.
- Macfie, J. W. S. A new species of Culicoides from Palestine [C. judaee, sp. nov.], p.79-81, illus.
- Meillon, B. de On Anopheles funestus and its allies in the Transvaal, p.83-97, illus. References, p.97.
- Patton, W. S. Studies on the higher Diptera of medical and veterinary importance. A revision of the genera of the tribe Muscini, subfamily Muscinae based on a comparative study of the male terminalia. I. The genus Musca Linnaeus, p.135-156, illus. References, p.156; The identity of Culex aegypti L., p.182-184.
- Yorke, W., Murgatroyd, F., and Hawking, F. Studies in chemotherapy. X. Further observations on the transmissibility of trypanamide resistance by Glossina, p.157-178, illus. References, p.177-178.
- Annotationes zoologicae Japonenses (Tokyo), v.13, no.4, May 5, 1932. (Rec. Apr. 1933.)
- Iwata, K. Biology of Homonotus iwatai Yasumatsu (Hymenoptera, Psammocharidae), p.305-321, illus. Literature of the habits of Homonotus, p.317.
- Kanda, S. A new species of the genus Pseudococcus [Pseudococcus kaiensis, n.sp.], p.387-390, illus.
- Yasumatsu, K. A list of the species of the genus Homonotus of the world, with description of a new species of the genus [H. iwatai] from Japan (Hymenoptera, Psammocharidae), p.297-303, illus.
- Anzeiger für schädlingkunde (Berlin), Jahrg.9, heft 2, 1933.
- Roepke, W. Zur frage der eichenblattminierer, p.24-25, illus. [Coriscium brongniardellum F.].
- Stellwaag, F. Untersuchungen in anschluss an die beobachtung des falterfluges bei Clysia ambiguella Hübn., p.17-23, illus. Schriftenverzeichnis, p.23.
- Archiv für protistenkunde (Jena), v.79, no.1, 1933.
- Regendanz, F., and Reichenow, E. Die entwicklung von Babesia canis in Dermacentor reticulatus, p.50-71, illus. Literaturverzeichnis, p.69-70.
- Archiv für schiffs- und tropen-hygiene (Leipzig), v.37, no.2, Feb.1933.
- Kalandadse, L. Materialien zum studium der atmungs-prozesse der mückenlarven und puppen und der einwirkung von petroleum, beschattung und verunreinigung des wassers auf dieselben, p.88-103, illus. Literatur, p.103.
- Australia. Council for scientific and industrial research (Melbourne). Journal, v.6, no.1, Feb. 1933.
- Dodd, A. P. The present position and future prospects in relation to the biological control of prickly pear, p.8-13. Refers to Cactoblastis.
- Gilruth, J. A. A new apparatus for treatment of wounds and fly-struck areas on sheep during shearing and crutching operations, p.66-67.
- Boletín de patología vegetal y entomología agrícola (Madrid), Año 6, nos.23 to 26, 1931. (Published Dec. 1932.)
- Bealloch, M. La "pulgilla" de la remolacha [Chaetocnema tibialis Illig.], p.69-74. Bibliografía, p.74; Los tratamientos de invierno contra la piral, p.75-79; Un esfíngido perjudicial a la vid, p.110-114, illus. Bibliografía, p.114; La lucha contra las plagas en invierno, p.123-132, illus.; La cercospora [C. beti-

Boletín de patología vegetal y entomología agrícola (Madrid), continued.

Berro Aquilera, J. La polilla de la patata [*Phthorimaea operculella* Zell.], p.145-152, illus.

Canizo, J. del Tisanópteros de la Península Ibérica, p.98-109, illus. Bibliografía, p.107-109; La lucha contra las moscas, p.162-170.

Clemente, G. Un ensayo de lucha biológica contra la *Ceratitis capitata* en Valencia, p.80-89, illus. Bibliografía, p.89; La mosca de las frutas [*Ceratitis capitata*], p.133-144, illus.

Herce, P. Absorción de cianhídrico por las Castañas, p.115-122.

Nonell Comas, J. *Aphelinus mali* y su difusión en España, p.90-97, illus. Bibliografía, p.97.

British medical journal (London), 1933; no.3761, Feb.4; no.3764, Feb.25.

Yorke, W., Murgatroyd, F., and Hawking, F. Effect of passage through *Glossina* on the resistance of a trypanosome-fast trypanosome, no.3761, p.176-179.

Bibliography, p.179.

Trypanosomiasis and tsetse fly control, no.3764, p.333-334.

Brooklyn entomological society. Bulletin (Lancaster, Penn.), v.28, no.2, Apr. 1933.

Abbott, C. E. Notes on the life history of *Jalysus spinosus*, p.43-46, illus.

Faure, J. C. New genera and species of *Thysanoptera* from South Africa, p.55-75.

Gaines, J. C. Trap collections of insects in cotton in 1932, p.47-54, illus.

Lerch, E. C. A list of *Homoptera* from Ontario, p.76-78.

Brotéria (Lisbon), Série trimestral: Ciências naturais, v.2 (XXIX), no.1, Feb.1, 1933.

Dettner, H. Die bislang bekannten europäischen arten gattung *Callirhytis*

Förster; eine untersuchung, p.5-33, illus. Benutzte literatur, p.33.

Bulletin of entomological research (London), v.24, pt.1, Mar.1933.

Le Pelley, R. H. Field spraying with undiluted paraffin extracts of pyrethrum against *Antestia* and *Lygus* on coffee in Kenya, p.1-32. References, p.32.

Nash, T. A. M. The ecology of *Glossina morsitans*, Westw., and two possible methods for its destruction, p.107-157, illus.

Parkin, E. A. The larvae of some wood-boring *Anobiidae* (Coleoptera), p.33-68, illus. References, p.67-68.

Swynnerton, C. F. M. Some traps for tsetse-flies, p.69-102, illus.

Canadian entomologist (Orillia), v.65, 1933; no.2, Feb.1; no.3, Mar.

Daniel, D. M. A new species of *Macrocentrus* [*M. bradleyi* n.sp.] from Nova Scotia (Hymenop.), no.2, p.25-31.

Hicks, C. H. A study of *Sphex breviceps* (Smith) (Hymenop.), no.3, p.49-54.

Jellison, W. L. Faunae of nests of the magpie and crow in western Montana, no.2, p.26-31. Bibliography, p.30-31.

Elisha Mitchell scientific society (Chapel Hill, N. C.). Journal, v.48, no.1, Oct. 1932; no.2, Apr.1933.

Baroody, B. J. The effect of various chemicals on the larva and pupa of *Culex pipiens* at various temperatures, no.1, p.125-129.

Jacot, A. P. Phthiracarid mites of Florida, no.2, p.232-266, illus. Literature cited, p.265-266.

Entomological news (Philadelphia), v.44, 1933; no.3, Mar.; no.4, Apr.

Fell, E. C. *Agonoderus pallipes* Lec. (Coleop.: Carabidae), no.4, p.102-104.

Haskin, J. R. *Thecla halesus*, its life cycle and habits (Lepid.: Lycaenidae), no.3, p.72-74.

Herrick, G. W. An unusual invasion of the clothes moth, *Tineola bisselliella* (Lepid.: Tineidae), no.4, p.99-101.

Entomological news (Philadelphia), continued

O'Byrne, H. On the effectiveness of protective adaptations (Lepidoptera), no.3, p.57-61. References, p.61.

Thomas, C. A. Prothetely in an elaterid larva (Coleop.), no.4, p:91-96. References, p.93-96.

Entomological society of America. Annals (Columbus, Ohio), v.26, no.1, Mar.1933.

Halduf, W. V. The morphology of the ovipositor of *Draeculacephala*. (Cicadellidae Homoptera), p.64-75, illus.

Butcher, F. G. Hymenopterous parasites of Gyrinidae with descriptions of new species of Hemiteles, p.76-85, illus. References cited, p.83.

Hinman, E. H. Enzymes in the digestive tract of mosquito larvae, p.45-52. Bibliography, p.52.

Ritcher, P. O. The external morphology of larval Bremidae and key to certain species (Hymenoptera), p.53-63, illus. Literature cited, p.60.

Entomologist's monthly magazine (London) ser.3, v.19 (whole ser. v.69), 1933; no. 218 (whole no.825), Feb.; no.220 (whole no.827), Apr.

Altson, A. M. The association of termites with the soil found in tree-holes, and the influence on the dipterous larvae (Psychodidae, Culicidae, etc.) breeding in them, no.218, p.33-37. References, p.37; The effect of absence of humidity on the eggs of *Dysdercus* spp. in the field, no.220, p.83-85. References, p.85.

Florida entomologist (Gainesville, Fla.), v.17, no.1, Mar.15, 1933.

Wilson, J. W. The biology of parasites and predators of *Laphygma exigua* Huebner reared during the season of 1932, p.1-15, illus. Bibliography, p.14-15.

Folia zoologica et hydrobiologica (Riga), v.4, no.2, Dec.31, 1932.

Obenberger, J. Neue beiträge zur kenntnis der orientalischen prachtkäfer (Col. Bupr.), p.205-221, illus.; Über die Buprestiden-gattung *Paratrachys*, p.228-232; Eine serie von neuen neotropischen *Agriilus*-arten (Buprestidae), p.239-262.

Genetica (The Hague), v.14, no.5-6, 1932.

Sanderson, A. R. The cytology of parthenogenesis in Tenthredinidae, p.321-501, illus. References, p.433-438.

Germany. Biologische reichsanstalt für land-und forstwirtschaft. Arbeiten (Berlin), v.20, no.2; Aug.1932.

Hase, A. Weitere beiträge zur kenntnis von aethylenoxyd als schädlingbekämpfungsmittel, p.101-110, illus.

Knoche, E. Klima und nonne. I. Die entwicklungsruhe des embryo, p.193-235.

Speyer, W. Kann sich die obstmade (*Cydia pomonella* L.) ausschliesslich von blättern ernähren?, p.183-191, illus. Schriftenverzeichnis, p.191.

Gesellschaft für vorratsschutz E. V. Mitteilungen (Berlin-Steglitz), Jahrg.9, no.2, Mar.1933.

Jensen, K. Wärme als bekämpfung gegen hausböcke [*Hylotrupes bajulus*], p.15-21, illus.

Zacher, F. Fortschritte in der vorratsschädlingbekämpfung, p.13-15. (Forts. folgt.).

Indian journal of agricultural science (Calcutta), v.2, pt.5, Oct.1932.

Misra, C. S. The green peach-aphis (*Myzus persicae* Sulz.) and a new pyralid mango defoliator (*Orthaga mangiferae* n.sp.), p.536-541, illus. References, p.540.

Indian journal of medical research (Calcutta), v.20, no.3, Jan.1933.

Iyengar, M. O. T. Experimental infection of anopheline mosquitoes, p.841-861, References, p.851.

Knowles, R., and Basu, B. C. The nature of the so-called "black spores" of Ross in malaria-transmitting mosquitoes, p.757-775, illus. References, p.774-775.

Sinton, J. A. Notes on some Indian species of the genus *Phlebotomus*. Pt.32. *Phlebotomus dentatus*, n.sp., p.869-872, illus. References, p.872; Notes on some Indian species of the genus *Phlebotomus*, p.873-878, illus.

Strickland, C., Roy, D. N., and Chaudhuri, H. P. A year's observations in Calcutta on the invasion of the salivary glands of *Anopheles stephensi* by malarial sporozoites, and the influence of some climatic conditions, p.819-840, illus.

Insecta Matsumurana (Sapporo, Japan), v.7, no.1 and 2, Dec.1932.

Ishida, M. Fauna of the Thysanoptera in Japan, p.1-16, illus.

Matsumura, S. Lasiocampid-moths in the Japan-Empire, p.33-54.

Uchida, T. Ueber einige Ichneumoniden arten Japans (I), p.25-32, illus.

Watanabe, C. Notes on Braconidae of Japan. III. *Apanteles*, p.74-102, illus.

Institució Catalana d'història natural (Barcelona). Butlletí, ser.2, v.32, no.7-8-9, Oct.-Dec.1932.

Schmidt, M. Ueber die Ceratiten von Olesa bei Barcelona, p.195-222, illus. Zitierte schriften, p.222.

Institut Pasteur d'Algerie. Archives (Alger), v.10, no.4, 1932.

Balensi, E. Du rôle de l'ingénieur dans la lutte antipaludique, p.577.

Parrot, L. Biologie générale des anophèles, p.538-541.

Senevet, G. Notes sur les moustiques. I, p.470-477. Bibliographie, p.477; A propos d'*Anopheles coustani* Laveran, p.478-484. Bibliographie, p.484; Morphologie et classification des Anophèles, p.516-522, 523-535.

Sergent, Edm. Idées générales sur l'armature buccale des insectes pour comprendre celles des moustiques, p.536-537.

Sergent, Edm., and Donatien, A. Quelques observations sur la biologie des Cératopogoninés d'Algerie, p.466-470. Bibliographie, p.469-470.

Sergent, Et. Etude morphologique des plasmodium dans le corps du moustique, p.514-515; Etude des glites à Anophèles, p.556-558; Mésures antilarvaires, p.563-564.

Journal of experimental zoology (Baltimore), v.64, no.1, Nov.1932.

Michelbacher, A. E., Hoskins, W. M., and Herms, W. B. The nutrition of flesh fly larvae, *Lucilia sericata* (Meig.). 1. The adequacy of sterile synthetic diets, p.109-130, illus. Literature cited, p.127-128.

Journal of parasitology (Urbana, Ill.), v.19, no.3, Mar.1933.

Davis, N. C. Attempts to transmit yellow fever virus with *Triatoma megista* (Burmeister), p.209-214. References, p.213-214.

Russell, P. F. Automatic distribution of Paris green for malaria control, p.215-224, illus. References, p.224.

Journal of the department of agriculture of South Australia (Adelaide), v.36, no.6, Jan.16, 1933.

Fowler, R. Spraying experiments for codlin moth control - Blackwood, 1931-32, p.647-660, illus.

Quinn, G. Analyses of arsenates of lead, p.692-693.

Journal of the ministry of agriculture, Great Britain, v.39, no.12, Mar.1933.

Miles, H. W. Dusting for the control of apple sawfly [*Hoplocampa testudinea* Klug]: a preliminary experiment, p.1125-1128, illus.

Journal of the royal army medical corps (London), v.60, no.1, Jan.1933.

Iredell, A. W. An account of mosquito-proofing carried out by the Royal Air force in India, p.33-37.

Journal of tropical medicine and hygiene (London), v.36, no.6, Mar.15, 1933.

Shute, P. G. The life-history and habits of British mosquitoes in relation to their control by antilarval operations, p.83-88.

Kansai entomological society (Osaka, Japan). Transactions, no.3, Nov.1932.

Iwata, K. On the biology of two large lady-birds in Japan [*Aiolocaria mirabilis* Motschulsky and *Pseudosynonymcha japonica* Kurisaki], p.13-26, illus. References p. 25-26.

Takeuchi, K. A revision of the Japanese Argidae, p.27-42.

Tokunga, M. A new biting midge [*Dasyhelea crinume*, sp. nov.] from Japan (Diptera Ceratopogonidae), with anatomical notes on the larval head-capsule and mouth-parts, p.1-12, illus. Literature, p.12.

Kansas entomological society. Journal (McPherson), v.6, no.2, Apr.1933.

Schwardt, H. H. Life history of the lesser grain borer [*Rhizopertha dominica* Fab.], p.61-66. Literature cited, p.65-66.

Smith, R. C., and Kelly, E. G. A summary of the population of injurious insects in Kansas for 1932, p.37-60, illus.

Lingnan science journal (Canton, China), v.12, no.1, Feb.2, 1933.

Chen, H. T. A preliminary report on a survey of animal parasites of Canton, China, rats, p.65-74. References cited, p.74.

Hoffmann, W. E. Life history notes on some Kwangtung, China, Coreids (Hemiptera, Coreidae), p.97-127, illus. References cited, p.125-126.

Malayan agricultural journal (Kuala Lumpur), v.21, no.2, Feb.1933.

Miller, N. C. E. Insect pests of tobacco in Malaya, p.66-72, illus.

M. A. J. The use of derris in the control of warble flies. (Abstract), p.75-76.

Mededeelingen van het Deli proefstation te Medan-Sumatra (Batavia), ser.2, no.81, 1932; no.83, 1933.

Jochems, S. C. J., and Mohr, J. C. van der Meer, Overzicht van de ziekten en plagen der Deli-tabak in het jaar 1932. A. Ziekten der tabak, by S. C. J.

Jochems, p.3-21; B. Dierlijke plagen der tabak, by J. C. van der Meer Mohr, p.22-23 [no.83].

Mohr, J. C. van der Meer. Overzicht van de plagen van de tabak in Deli, 94p. illus. [no.81].

Nature (London), v.131, 1933; no.3303, Feb.8; no.3304, Feb.25; no.3306, Mar.11; no.3309, Apr.1.

Leeson, H. S. Insects and micro-climates, no.3306, p.363.

Miller, D. Chilean insect parasites for New Zealand, no.3304, p.283-284.

Control of the tsetse fly, no.3309, p.463.

Composition of fly swarms in dwelling houses, no.3303, p.249.

Heredity and hibernation in insects, no.3303, p.249.

Insect-eating in Siam, no.3303, p.234.

Where do flies go in winter?, no.3303, p.349.

Neuheiten auf dem gebiete des pflanzenschutzes herausgegeben von der Bundesanstalt für pflanzenschutz (Wien), Jahrg.26, no.1, Feb.1933.

Watzl, O. Wirksamkeit von obstbaumkarbolineum, p.1-6. Literatur, p.5-6.

Nisigahara, Tokyo, Japan. Imperial agricultural experiment station. Journal, v.2, no.1, Mar.1932. (Received Apr.1933).

Kawada, A. Notes on the homology of some parts of the leg in the lepidopterous pupae, p.105-108, illus. Text in Japanese. English summary, p.108.

Kinoshita, S., and Kawada, A. A revision of rice borers (*Chilo*) and their distribution, p.97-104, illus. Literature, p.102. Text in Japanese. English summary, p.102-103.

Ohio journal of science (Columbus), v.33, no.2, Mar.1933.

Fletcher, F., and Haub, J. G. Digestion in blowfly larvae, *Phormia regina* Meigen, used in the treatment of osteomyelitis, p.101-109, illus. Literature cited, p.108-109.

Pan-Pacific entomologist (San Francisco), v.9, no.2, Apr.1933.

Hicks, C. H. Note on the relationship of an Ichneumonid to certain digger wasps, p.49-52. [*Podalonia violaceipennis* Lep.; *Sphex xanthopterus* Cam.; *Paniscus* sp.]

Parasitology (London), v.24, no.4, Jan.1933.

Jöbling, B. A revision of the structure of the head, mouth-parts and salivary glands of *Glossina palpalis* Rob.-Desv., p.449-490, illus. References, p.487-488.

Miller, D. The bucco-pharyngeal mechanism of a blow-fly larva (*Calliphora quadrimaculata* Swed.), p.491-499, illus. References, p.499.

Rees, C. W. The experimental transmission of anaplasmosis by *Dermacentor andersoni*, p.569-573. References, p.573.

Philippine journal of agriculture (Manila), v.3, no.3, 1933.

Sison, P. The slug caterpillar on abaca (*Thosea sinensis* Wlk.), its life history and habits as observed in Davao, and suggestions for control, p.163-187, illus. References, p.186.

Philippine journal of science (Manila), v.49, no.4, Dec.1932.

Russell, P. F. The effect on *Culex* larvae of Paris green diluted with charcoal and notes on the feeding habits of *Culex quinquefasciatus* larvicide studies, V. p.651-675, illus.

Phytopathology (Lancaster, Penn.), v.23, 1933; no.2, Feb.1933; no.3, Mar.1933.

Carter, W. The pineapple mealy bug, *Pseudococcus brevipes*, and wilt of pineapples, no.3, p.207-242, illus. Literature cited, p.241-242; The spotting of pineapple leaves caused by *Pseudococcus brevipes*, the pineapple mealy bug, no.3, p.243-259, illus. Literature cited, p.259.

Liming, O. H. The preparation and properties of pentathionic acid and its salts; its toxicity to fungi, bacteria, and insects, no.2, p.155-174, illus.

Puerto Rico. Department of agriculture (Rio Piedras). Journal, v.16, no.4, Oct. 1932.

Alexander, C. P. The crane-flies of Puerto Rico (Diptera), p.347-387, illus.

Queensland agricultural journal (Brisbane), v.39, pt.2, Feb.1, 1933.

Roberts, F. H. S. The external parasites of sheep, p.84-90, illus.

Veitch, R. The grape Phylloxera [*Phylloxera vitifoliae*], p.79-83, illus.

Records of the Indian museum (Calcutta), v.34, 1932; pt.1, Mar.; pt.2, June.

Laidlaw, F. F. A revision of the genus *Coeliccia* (Order Odonata), pt.1, p.7-42, illus. References, p.42.

Needham, J. G. A key to the dragonflies of India, pt.2, p.195-228, illus.

Records of the malaria survey of India (Calcutta), v.3, no.2, Dec.1932.

Abraham, A. C. The anopheline mosquitoes of Hyderabad, Deccan, and their control, p.179-195, illus. References, p.189.

Barraud, P. J. *Anopheles aitkeni* James var. n. *pinjaurensis*, p.353-355, illus.

Ramsay, G. C., and Carpenter, J. A. An investigation on petroleum oils for malaria control purposes, p.203-218. References, p.218.

Revista de entomologia (Rio de Janeiro, Brasil), v.3, no.1, Mar.22, 1933.

Borgmeier, T. Um novo genero myrmecophilo de Phoridae da Argentina (Dipt.), p.45-57, illus.

Bruch, C. Coleopteros mirmeófilos de Misiones (Staph. Pselaph. Hister.), p.12-37, illus.

Fischer, C. R. Nota sobre *Anastrepha punctata* Hend. (Dipt. Trypetidae) e uma especie nova de *Cyrtotum* (Dipt. Drosophilidae), p.83-96, illus.

Moulton, D. The Thysanoptera of South America (II), p.96-133, illus. (To be cont.)

Revue de zoologie agricole et appliquée (Bordeaux), Année 31, 1932; no.11, Nov.; no.12, Dec.

Voukassovitch, P. Contribution à l'étude des parasites et hyperparasites d'*Hyponomeuta malinellus* Zell., no.11, p.174-183, illus. (Suite et fin).

G. T. Un Anthomyide [*Chortophila sepia* Meigen] nuisible aux céréales en France, no.12, p.200.

Società entomologica Italiana. Bollettino (Genova), v.65, no.2, Feb.28, 1933.

Menozzi, C. Contributo alla conoscenza delle cocciniglie (Hemip. Coccidae) d'Italia (Prima nota), p.41-47, illus.

Societas zoolog-botanicae fennicae vanamo. Annales (Helsinki), v.12, 1932.

Kontkanen, P. On the larval digestive tract of *Acanthocinus aedilis* L. (Col. Ceramb.), p.91-98, illus. Literatur cited, p.97-98; Uber die ost fennoskandischen vertreter der artengruppe von *Cryptocephalus sericeus* L. (Col. Chrysom.) p.99-106. Literatur, p.105-106.

Liro, J. Uber die Eriophyiden der Corylusarten, p.47-90, illus. Verzeichnis der zitierten literatur, p.82-90.

Société de biologie (Paris). Comptes rendus, v.112, no.4, Feb.3, 1933.

Monteiro, J. L., and Fonseca, F. da. Nouvelles experiences sur la transmission experimentale du typhus exanthematique de Sao Paulo par des tiques (*Boophilus microplus* et *Amblyomma cajennense*), p.397-400.

Société de pathologie exotique (Paris). Bulletins, v.26, no.2, Feb. 9, 1933.

Adler, S. Mode de transmission des protozoaires sanguicoles et particulièrement des leishmanioses (Rapport introductif), p.207-222. References, p.221-222.

Kofoid, C., and Donat, F. The experimental transfer of *Trypanosoma cruzi* from naturally infected *Triatoma protracta* to mammals in California, p.257-259. Literature cited, p.259.

Roubaud, E., and Stefanopoulo, G. Recherches sur la transmission par la voie stegomyienne du virus neurotrope murin de la fièvre jaune, p.305-309.

Roubaud, E., Toumanoff, C., and Gaschen, H. Les donnees de de l'indice maxillaire rapportees au rôle infectant des anopheles de l'Indochine septentrionale p.282-293, illus.

Sergeant, Edm., and Et., Parrot, L., Donatien, A., and Lestoquard, F. Revue historique du probleme de la transmission des leishmanioses, p.224-248.

Swellengrebel, N., and Buck, A. de. Les races hollandaises de l'*Anopheles maculipennis* et leurs rapports avec les races Italiennes, p.273-281. Literature, p.281.

Société d'Histoire naturelle de l'Afrique du Nord (Algiers). Bulletin, v.23, 1932; no.8, Nov.; no.9, Dec.

Andre, M. Contribution à l'étude du "bou-farouc" Tétranyque nuisible au dattier en Algérie, no.8, p.301-338, illus. [Paratetranychus simplex (Banks) Hirst].

Lecière, A. Note sur l'apparition en Algérie de Schedius (Coencytus) kuwanae How. (Hym. Encyrtidae), no.8, p.227.

Société entomologique de Belgique. Bulletin et annales (Bruxelles), v.72, no.9-10, Nov.30, 1932.

Crèvecoeur, A. Recherches biologiques sur Ammophila campestris Jur (Hym. Sphegidae), p.164-176. Bibliographie, p.176.

Ender, F. van Die larven der Callirrhypini, eine mutmassliche Cerophytum-larve und Familien-bestimmungstabelle der larven der Malacodermata-Sternoxia-Reihe (Coleoptera) (Zur Kenntnis der Sandalidae 18), p.199-259, illus.

Thomas, M. L'instinct et la psychologie des Hyménoptères. Le déterminisme des moeurs des guêpes et des abeilles sociales, p.177-198.

Société entomologique de France. (Paris). Annales, v. 102, Année 1933, no.1

Balachowsky, A. Contribution à l'étude des Coccides de France. (14^onote). Nouvelles recherches sur la faune indigène de la Corse, p.35-50, illus. Bibliographie, p.49.

Benoist, R. Deux plantes pièges pour les Lépidoptères en Guyane française, p.107-108.

Hustache, A. Liste alphabétique des tribus et genres des Curculionidae Gallo-Rhenans, p.73-76.

Laboissière, W. Observations sur les Galerucine asiatiques principalement du Tonkin et du Yunnan et descriptions de nouveaux genres et espèces (4^e partie), p.51-72, illus.

Peyrimhoff, P. de. Les larves des Coléoptères d'après A. G. Bøving et F. C. Craighead et les grands criteriums de l'ordre, p.77-106. Bibliographie.

Société entomologique de France (Paris). Bulletin, v.38, 1933; no.1, Jan.11; no.2, Jan.25; no.3, Feb.8; no.5, Mar.8.

Ferrière, C. Description d'un Chalcidien parasite du longicorne du caféier en Indo-Chine, no.1, p.9-12, illus.

Hoffmann, A. Observations sur les Otiorrhynchus du groupe singularis L. et leur distribution géographique en France [Col. Curculionidae], no.2, p.23-30, illus.

Paulian, R. Revision des Coptodactylini [Col. Lamellicornia], no.5, p.67-74, illus.

Société royale entomologique d'Egypte (Cairo). Bulletin, v.16 (Année 25), no.3, 1932.

Alfieri, A. Les Thysanoures d'Egypte et le cycle évolutif de Thermobia aegyptiaca Eschrch., p.90-91.

Hood, J. D. New species of the genus Thrips from Central Africa and Egypt, p.115-140, illus.

Priesner, H. Preliminary notes on Scirtothrips in Egypt, with key and catalogue of the Scirtothrips species of the world, p.141-155, illus.

Priesner, H., and Hosny, M. The "masked scale" (Chrysomphalus personatus), in Egypt, p.92-96, illus.

Stettiner entomologische zeitung, Jahrg.93, heft 2, 1932.

Kröber, C. Das genus Stibasoma-Schin. (Tabanidae, Diptera), p.241-259, illus. Literatur, p.242-243.

Urbahn, E. Zur biologie von Hypenodes taenialis Hb. (Lep. Noct.), p.305-309. Literatur-verzeichnis, p.308-309.

- Tijdschrift over plantenziekten (Amsterdam), Jaarg.39, afl.3, Mar.1933.
Fluiter, H. J. de. Bijdrage tot de kennis der oecologie en morphologie van *Eriosoma lanuginosum* (Hartig), de "bloedluis" onzer pereboomen, p.45-72, illus. Literatuur, p.70-71.
- Tropical agriculture (St. Augustine, Trinidad), v.10, 1933; no.3, Mar.; no.4, Apr.
Briton-Jones, H. R. Preliminary trials with a combined insecticide and fungicide [sulphemulsol], no.3, p.80-84.
Wadsworth, R. V. Cacao beans and *Ephestia elutella*, no.4, p.97-100.
- Washington. Entomological society. Proceedings, v.35, no.2, Feb.1933.
Ross, H. H. The description and life history of a new sawfly, *Sterictiphora apios* (Argidae: Hymen.), p.13-19, illus.
- Washington academy of sciences. Journal (Menasha, Wis.), v.23, no.3, Mar.15, 1933.
Uchida, T. A new parasite of *Laspeyresia molesta* Busck. [*Diocetes molestae*, new species], p.147-148, illus.
- Zeitschrift für angewandte entomologie (Berlin), v.19, no.4, Dec.1932.
Ass, M., and Funtikow, G. Ueber die biologie und technische bedeutung der holzwespen, p.557-578, illus. Literatur, p.577-578.
Bodenheimer, F. S. *Icerya purchasi* Mask. und *Novius cardinalis* Muls. Eine bevölkerungswissenschaftliche studie über die grundlagen der biologischen bekämpfung, p.514-543, illus. Literatur, p.543.
Hecht, O. Experimentelle beiträge zur biologie der stechmücken II., p.579-607. Literatur, p.605-607.
Kirschner, R. Beurteilung der giftwirkung gasförmiger insecticide auf grund der schlagfrequenz des dorsalgefasses, p.544-556, illus. Literatur, p.556.
Kruel, W. Beobachtungen über einige *Tipula*-arten bei berlebeck i. L. (Teutoburger Wald) im Mai 1932, p.622-625.
Thienenmann, A. Der produktionsbegriff in der biologie, p.618-622.
Tsai, P. H. Das reizzünslerproblem in China, p.608-614, illus.
Zwölfer, W. Methoden zur regulierung von temperatur und luftfeuchtigkeit, p.497-513, Literatur, p.512-513, illus.; Die unterscheidung von spannerpuppen aus der lebensgemeinschaft des kiefernwaldes, p.614-617, illus.; Bioklimatogramme, p.617-618.
- Zeitschrift für wissenschaftliche biologie. Abt.B. Zeitschrift für zellforschung und mikroskopische anatomie (Berlin), v.17, no.1, 1933.
Strasburger, E. H. Über den formwechsel des chromatins in der eientwicklung der fliege *Calliphora erythrocephala* Meigen, p.83-117, illus. Literaturverzeichnis, p.117.
- Zeitschrift für wissenschaftliche biologie. Abt.C. Zeitschrift für vergleichende physiologie (Berlin), v.18, no.3, 1933.
Friedrich, H. Nervenphysiologische studien an insekten. I. Untersuchungen über das reizphysiologische verhalten der extremitäten *Dixippus morosus*, p.536-561, illus. Schriftenverzeichnis, p.561.
- Zeitschrift für wissenschaftliche biologie. Abt. F. Zeitschrift für parasitenkunde (Berlin), v.5, no.1, Nov.18, 1932.
Chitwood, B. G. A synopsis of the nematodes parasitic in insects of the family Blattidae, p.14-50, illus. References, p.50.
Kemper, H. Beiträge zur biologie der bettwanze (*Cimex lectularius* L.). IV. Über das zerreißen des darmtrakts und die mortalität unter ungünstigen lebensbedingungen, p.112-137. Literaturnachweis, p.136-137.

Zeitschrift für wissenschaftliche biologie. Abt. F continued.

Mudrow, E. Über die intrazellulären symbionten der zecken, p.183-183, illus.

Literaturverzeichnis, p.182-183.

Pawlowsky, E. N., Stein, A. K., Perfiljew, P. P. Experimentelle untersuchung über die wirkung des phlebotomusstiches auf die menschenhaut, p.1-13. Literaturverzeichnis, p.12-13.

Pospelova-Stron, M. W. Beobachtungen über die biologie von *Hyalomma yakimowi* Ol. in laboratoriumsbedingungen, p.195-212.

Zeitschrift für wissenschaftliche zoologie (Leipzig), v.142, no.4, 1932.

Schrader, F. Recent hypotheses on the structure of spindles in the light of certain observations in Hemiptera, p.520-539, illus. References, p.538-539.

Zentralblatt für bakteriologie, parasitenkunde und infektionskrankheiten (Jena).

Abt. I. Medizinisch-hygienische bakteriologie und tierische parasitenkunde.

Originale, v.127, no.7/8, Feb.23, 1933.

Weyer, F. Untersuchungen zur rassenfrage bei *Anopheles maculipennis* in Nordwestdeutschland, p.297-417. Literatur, p.416-417.

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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

Andriés, H. E., editor.

Controlling plant pests in Southern Africa. A handbook for the fruitgrower, orchardist, gardener and grower of field crops. 199 p. illus. Johannesburg, Cooper & Nephews, S. Af. (Pty) Ltd., 1932.

Asociacion de tecnicos azucareros de Cuba.

Proceedings of the Sixth annual conference. 209p. Dec. 1932. Partial contents.- Scaramizza, L. C. Prospects for the control of the sugar cane moth stalk-borer (*Diatraea saccharalis* Fab.) in Cuba by means of natural enemies, p.87-93. List of references, p.92-93.

Aurivillius, P. O. C.

Lepidopterorum catalogus, editus ab Embrik Strand. pars 54-55. Berlin, Junk, 1933. Contents.- pars 54. Stichel, H. Amathusiidae, 171p.; pars 55. Schüssler, H. Saturniidae: 1. Subfam. Attacinae, 81p.

Bestimmungs-tabellen der Europäischen Coleopteren. heft 106. Troppau, Verlag: Edmund Reitter's nachf. Emmerich Reitter, 1933. Contents.- Breuning, S. Monographie der gattung *Carabus* L. (III. teil), p.499-704.

British museum (Natural history).

Diptera of Patagonia and South Chile...pt.2, fasc.5, 1931; pt.5, fasc.3, 1932. London, Trustees of the British museum. Contents.- Pt.2, fasc.5, p.233-331, illus. Chironomidae, by F. W. Edwards; Pt.5, fasc.3, p.199-293, illus. Rhagionidae, Therevidae, Lonchopteridae, by J. R. Malloch. Scenopinidae, Mydidae, by F. W. Edwards. Asilidae, by S. W. Bromley.

British museum (Natural history).

Insects of Samoa and other Samoan terrestrial Arthropoda. Pt.6 Diptera. fasc.7, 1931; Pt.7. Other orders of insects. fasc.4, 1932. London, Trustees of the British museum. Contents.- Pt.6, fasc.7. Trypetidae, by J. R. Malloch. p.253-266, illus.; Pt.7, fasc.4. Psocoptera, by H. H. Karny. p.117-129, illus.

Didier, R.

Etudes sur les coléoptères lucanides du globe. fasc.1-9, illus. Paris, Editions M. Mendel, 1928-31. Label mounted over imprint; Paris, Librairie spéciale agricole, Librairie de l'Institut national agronomique et Librairie des sciences naturelles réunies.

Eltringham, H.

The senses of insects. 126p. illus. London, Methuen & co. ltd., [1933]. Bibliography, p.113-120. (Half-title: Methuen's monographs on biological subjects.).

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

Insects, man's chief competitors. 133p. illus. Baltimore, Williams & Wilkins Co., 1932. At head of title: A century of progress series.

Fromm, P.

Untersuchungen zur medikamentösen bekämpfung der dassellarven bei rindern. Inauguraldissertation... 33p. Hannover, 1928. Literaturverzeichnis, p.31-33. At head of title: Aus der Klinik für geburtshilfe und rinderkrankheiten der Tierärztlichen hochschule zu Hannover...).

Great Britain. Economic advisory council. Tsetse committee.

Report: Developments in the treatment of animal and human trypanosomiasis and in tsetse control in the period 1925-31. 27p. London, His Majesty's stationery office, 1933.

Highland and agricultural society of Scotland.

The warble fly problem. Report on experiments conducted in Scotland in 1930, by Dr. R. Stewart Macdougall. 36p. [Received: Apr. 1933].

Honoré, R. P.

La culture du pommier dans la province de Quebec, 1932. 252p. illus. [Insects and spraying, p.155-215.], (Oka. Inst. agr. Contrib. no. 32.).

Hori, M.

Studies on the clover leaf-beetle, *Luperodes praecustus* Motschulsky, in Southern Saghalien. 105p. illus. Komuma, Saghalien, Japan, Published by the Station, 1932. (Saghalien cent. expt. sta. Reports. First ser. [Agr. and anim. husb.] no.2). Text in Japanese. English summary, p.101-105.

India. Mysore state. Department of agriculture.

Report of work on the Coffee experiment station, Balehonnur, for the years 1930 and 1931. 31p. Bangalore, Printed at the government press, 1932. Partial contents.- Testing of different sprayers, p.6-7; Testing of different fungicides and adhesives, p.7-10; Control of insect pests, p.10-11; Appendix I. Observations on spraying experiments at the Coffee experiment station during the years 1930 and 1931, by W. W. Mayne, p.18-19.

International society of sugar cane technologists.

Proceedings of the Fourth congress... held at San Juan, Puerto Rico, March 1st-16th, 1932. Pt.I. Proceedings. 174p.; Pt.II. Communications to the Congress. Bulletin 1-129, separately paged. San Juan, P. R. Bureau of supplies, printing, and transportation, 1933. Partial contents.- Bul.4. Pemberton, C. E. Insect damage to sugar cane roots in Hawaii. 1p.; Bul.5. Van Zwaluwenburg, R. H. The nematodes attacking sugar cane roots in Hawaii. 4p.; Bul.21. Hinds, W. E. A suggestion for the development of a manual of sugarcane insects of the world. 4p.; Bul.22. Myers, J. G. Ecological research on insect pests of sugarcane in the British West Indies and British Guiana. 3p.; Bul.32. Cook, M. T. The parasitism of *Marasmus sacchari* Wakker. 2p. illus.; Bul.50. López, A. W. I. An account of some scoliid wasps parasitic on sugar-cane grubs in Occidental Negros, Philippine Islands. II. Progress report on the exchange of scoliid wasps with Australia. 12p. illus.; Bul.52. Hinds, W. E., and Osterberger, B. A. Sugar-cane borer control by colonization of *Trichogramma minutum* in Louisiana. 6p.

Janse, A. J. T.

The moths of South Africa. v.1. Sematuridae and Geometridae. 376p. illus. Durban, E. P. & Commercial printing co., Ltd., 1932.

Knight, P.

The problems of insect study. 118p. illus. Ann. Arbor, Mich., Edwards Brothers, Inc., 1933. Lithoprint.

Koch, R.

Bestimmungstabellen der insekten an kiefer und lärche nach den frassbeschädigungen. Zweite, neubearbeitete auflage. 218p. illus. Berlin, P. Parey, 1932.

Maidl, F.

Die lebensgewohnheiten und instinkte der staatenbildenden insekten. 1fg.2 (bogen 5-8), 1fg.3 (bogen 9-12). p.65-128, 129-192, illus. Wien, Fritz Wagner, 1933.

Meyrick, E.

Exotic Microlepidoptera. v.4, pt.5-11, p.129-352. London, Taylor, & Francis, Oct. 1931-Dec. 1932.

Miestinger, R.

Wichtige schädlinge und krankheiten der rübe in Osterreich. 28p. illus. Wien, Agran-verlag, 1932. (Bauernschriften nr.37.).

Museu zoológico da Universidade de Coimbra.

Memorias e estudos, ser.1, no.1, fasc.9-13, 1931; no.58-61, 64, 1932. Contents.- no.1. Seabra, A. F. De. Sinópse dos hemípteros Heterópteros de Portugal. fasc.9. Piesmidæ, p.399-404, illus.; fasc.10. Tingitidæ, p.405-445, illus., fasc.11. Phymatidæ, p.447-452, illus., fasc.12. Hebridæ, p.453.

- Museu zoológico da Universidade de Coimbra, continued:
454, illus.; fasc.13. Mesoveliidae, p.455-457, illus.; no.58. Horn, W. Contributions à l'étude de la faune du Mozambique. Voyage de M. P. Lesne (1928-1929). 8^e Note.- Coléoptères, Cicindelinae, 4p. illus.; no.59. Santschi, F. Fourmis du Portugal, 3p.; no.60. Pic, M. Contributions à l'étude de la faune de Mozambique. Voyage de M. P. Lesne (1928-1929). 9^e Note.- Coléoptères, Anthicidae, Hylophilidae, Pedilidae, Scaptiidae, 26p. illus.; no.61. Dusmet y Alonso, J. M. Contribución al estudio de los Himenópteros de Portugal. 7p.; no.64. Mosely, M. E. Contributions à l'étude de la faune du Mozambique. Voyage de M. P. Lesne (1928-1929). 12^e Note.- Trichoptera, 4p. illus.
- Musgrave, A.
Bibliography of Australian entomology 1775-1930 with biographical notes on authors and collectors. 380p. Sydney, Published by the Society, September 1932. At head of title: Royal zoological society of New South Wales.
- Northern Rhodesia department of agriculture.
Annual bulletin 2 - 1932. 76p. Livingstone, Printed by the government printer, 1933. Partial contents.- The movement and breeding of locust swarms (July 1931- September 1932), p.25-34. Literature cited, p.34.
- Office international de renseignements sur les sauterelles de Damas.
Bulletin, 1930-1931. 264p. fold. map. Damas, Imp. El-Bourhan.
- Peru. Ministerio de fomento. Direccion de agricultura y ganaderia.
Informe no. 19. 10p. illus. Lima, Estación experimental agrícola de la Molina, 1933. Partial contents.- Wille, J. El control del pulgón lanigero del manzano mediante su parásito natural, el *Aphelinus mali*, p.6-10.
- Rau, P.
The jungle bees and wasps of Barro Colorado Island (with notes on other insects). 324p. illus. Kirkwood, St. Louis Co., Mo., 1933.
- Schmiedeknecht, O.
Opuscula ichneumologica. Supplement-Band. Neubearbeitungen, fasc.XVI. Genus *Hemiteles* Grav. 37-116p. Blankenburg i Thür, 1933.
- Schwarz, H. F.
Some neotropical Anthidiinae: *Anthidium*, *Heteranthidium* and *Dianthidium*. 27p.; *Paranthidium*, *Anthidiellum*, and *Hypanthidium*. 9p. New York, American museum of natural history, May 25, 1933. (Amer. Mus. Novitates no. 624, 625).
- Stackelberg, A. A., editor.
Verzeichnis der schädlichen insekten der paläarktischen region. Teil 1. Schädlinge der landwirtschaft, bearbeitet von: G. J. Bey-Bienko [and others]. 500p. Leningrad, 1932. (The Lenin acad. agr. sci. in U.S.S.R. Inst. plant protection. Bul. plant protection Ser.1; Entomology no.5). Text in Russian.
- Stichel, W.
Illustrierte bestimmungs-tabellen der Deutschen wanzen (Hemiptera-Heteroptera). lfg.8-9. Berlin-Frohnau, W. Stichel, 1933. Contents.- lfg.8; Ser. *Anonychia* Reuter (Fortsetzung). Fam. Miridae Dhrn. Subfm. Macrolophinae Reut. Subfm. Heterotominae Reut.; p.211-242, illus.; lfg.9; Ser. *Anonychia*

- Stichel, W. continued.
Reuter (Fortsetzung). Fam. Miridae Dhrn. Subfm. Heterotominae Reut. Fortsetzung). Subfm. Plagiognathinae Osh., p.243-274, illus.
- Strickland, E. H.
Insect pests of grain in Alberta. 58p. illus. Edmonton, Alberta, University of Alberta, 1933. (Univ. Alberta, Col. agr. Bul.24.).
- Strong, R. P., Bequaert, J. C., and Cleveland, L. R.
Report on the available evidence showing the relation of game to the spread of tsetse fly-borne diseases in Africa. 46p. [1933?]. (Amer. com. Internatl. wild life protect. Spec. pub. v.1, no.1.).
- Tamanuki, K.
Ecological studies upon the spruce attacking bark-beetles in Southern Saghalien. Pt. 1. On the bark-beetles fauna of dying spruce in Southern Saghalien. 54p. illus. March 1933. (Saghalien cent. expt. sta. Reports ser.2 (Forestry), no.3.). Text in Japanese.
- Uganda protectorate. Department of agriculture.
Annual report... for the year ended 31st December, 1931. (Pt.II). 78p. Entebbe, Printed by the Govt. printer, Uganda, 1932. Partial contents.-
Hargreaves, H. Annual report of the Government Entomologist, p.43-58. (Locusta migratorioides; Platyedra gossypiella Saund.; Empoasca fascialis; Mosquitoe control work.).
- Wu, C. Y.
Rat flea survey of Shanghai (First report). 14p. illus. 1932. Reprinted from: [China] National quarantine service reports. Ser.III.
- Wu, L. T., and Pollitzer, R.
A new survey of plague in wild rodents and pneumonic plague, 118p. 1932. Reprinted from: [China] National quarantine service reports. Ser.III.
- Wytzman, P.
Genera insectorum. fasc.192^c. Coleoptera Adepaga. Fam. Carabidae. Subfam. Carabinae. pt.4, par G. Vacher de Lapouge, p.581-747. Bruxelles, Louis Desmet-Verteneuil, 1932.

PERIODICALS

- Académie d'agriculture de France. Comptes rendus (Paris), v.19, 1933; no.14, Apr.26; no.16, May 10.
Balachowsky, A. Recherches sur l'action insecticide des huiles végétales utilisées en traitement d'hiver contre les cochenilles nuisibles aux arbres fruitiers, no.14, p.497-506.
Saillard, E. La mouche de la betterave, no.16, p.573-576.
- R. Academia d'agricoltura di Torino. Annali, v.75, 1932. Published 1933.
Arcangeli, A. Le mosche nella economia generale mezzi di lotta contro le stesse, p.71-134. Bibliografia, p.129-134.
- Agricultural gazette of New South Wales (Sydney), v.44, pt.5, May 1, 1933.
Dwyer, E. P. Honey bees in relation to lucerne seed setting, p.363-371. Literature cited, p.371.

- Agricultural gazette of New South Wales, continued.
McCarthy, T. Insect pests of tobacco, p.372-376, illus. (To be continued.).
- Agriculture and live-stock in India. (Calcutta), v.3, pt.1, Jan.1933.
Isaac, P. V. Notes on *Paederus fuscipes* Curt., a beetle which causes vesicular dermatitis in man, v.3, pt.1, p.33-36, illus. References, p.36.
- American entomological society. Transactions (Philadelphia), v.59, no.1, Mar.1933.
Hebard, M. Studies in the Dermaptera and Orthoptera of Colombia, p.13-67, illus.
- American journal of hygiene (Lancaster, Penn.), v.17, no.2, Mar.1933.
Jesus, P. I. De. Hydrodynamics of mosquito breeding places, p.502-514, illus. Bibliography, p.513-514.
Matheson, R., Boyd, M. F., and Stratman-Thomas, W. K. *Anopheles walkeri*, Theobald, as a vector of *Plasmodium vivax*, Grassi and Feletti, p.515-516.
- American medical association. Journal (Chicago), v.100, no.21, May 27, 1933.
Faulkner, J. M. Nicotine poisoning by absorption through the skin, p.1664-1665.
- American veterinary medical association. Journal (Chicago), v.82 (n.s. v.35), no.5, May 1933.
Kelser, R. A. Mosquitoes as vectors of the virus of equine encephalomyelitis, p.767-771.
- Annales des Épiphyties (Paris), Année 18, no.4, July-Aug.1932. (Rec. May 23, 1933).
Moreau, L., and Vinet, E. Evolution de la *Cochylis* et de l'Eudemis dans un vignoble de l'Ouest de 1911 à 1932. Peut-on prévoir l'importance des invasions?, p.250-258, illus.
- Annals and magazine of natural history (London), ser.10, v.11, no.61, Jan.1933.
Malloch, J. R. The tachinid genus *Doddiana* Curran (Diptera), p.128-139.
- Annals of applied biology (London), v.20, no.2, May 1933.
Metcalf, M. E. Some Cecidomyiidae attacking the seed of *Dactylis glomerata* L. and *Lolium perenne* L., p.327-341. References, p.341.
- Anzeiger für schädlingkunde (Berlin), Jahrg.9, 1933; heft 3; heft 4; heft 5; heft 6.
Eckstein, K. Der buchenrotschwanz (*Dasychira pudibunda* L.), heft 4, p.52-54, illus.
Escherich, K. Über den teppichkäfer (*Anthrenus scrophulariae* L.) und seine bekämpfung, heft 4, p.57-58.
Friederichs, K. Witterung und insekten in der gegend von Rostock 1932, heft 3, p.29-34.
Görnitz, K. Pathologische veränderungen bei *Vanessa io* nach aufnahme von arsenverbindungen, heft 3, p.40-41, illus.
Güsswald, K. Pyrethrum, heft 4, p.56-57.
Hase, A. Über die dauerwirkung des mottenschutzes durch eulan. II. Teil. Über jahrelang bestehende mottenechtheit von wolle durch imprägnierung mit "Eulan neu", heft 3, p.35-39, illus.
Jensen-Storch, S. Etwas über flüssige mittel gegen den hausbock (*Hylotrupes bajulus*), heft 4, p.48-50. Literaturverzeichnis, p.50.
Komárek, J. Wichtige neubeobachtungen aus der biologie der nonne, heft 6, p.77-82. (Schluss folgt.).
Maercks, H. Wird der wasserhaushalt der insekten durch das Daltonsche gesetz bestimmt?, heft 5, p.66-68, illus. Literatur, p.68.

- Anzeiger für schadlingskunde (Berlin), continued.
Ris Lambers, D. H. Über das umbetten alter Kanadabalsam-präparate von blattläusen, heft 5, p.70.
Stellwaag, F. Bekämpfung der kirschfruchtfliege, heft 5, p.61-65.
- Archiv für schiffs-und tropen-hygiene (Leipzig), v.37, no.5, May 1933.
Hecht, O. Experimentelle beiträge zur biologie der stechmücken IV, p.256-271.
Literaturverzeichnis, p.270-271.
- Australia. Council for scientific and industrial research (Melbourne). Journal, v.6, no.2. May 1933.
Womersley, H. A possible biological control [*Biscirus lapidarius* Kramer] of the clover springtail or lucerne flea (*Sminthurus viridis* L.) in Western Australia, p.83-91, illus. Literature cited, p.89.
The greenhouse white-fly [*Trialeurodes vaporariorum*] in Tasmania, p.127-128.
- Biological bulletin (Lancaster, Penn.), v.63, no.2, Oct.1932.
Cook, S. F. The respiratory gas exchange in *Termopsis nevadensis*, p.246-257.
Literature cited, p.257.
- Bollettino di zoologica (Torino), v.4, no.2, Apr.1933.
Teodoro, G. Considerazioni sulle cocciniglie e loro piante nutrici, p.69-73.
Autori citati, p.73.
- Bombay natural history society. Journal (London), v.36, no.2, Apr.15, 1933.
Ramakrishna Ayyar, T. V., and Krishna Menon, N. Notes on an acridiid grasshopper (*Gesonia punctifrons*, St.) ovipositing into stem of "Colocasia" plant, p.517-518, illus.
- British medical journal (London), no.3762, Feb.11, 1933.
Lockhart, L. P. Nicotine poisoning, p.246-247.
- Brooklyn entomological society. Bulletin (Lancaster, Penn.), v.28, no.3, June 1933.
Britton, W. E., and Harte, C. R. The recent north-eastward spread of the orange sulphur butterfly, *Colias eurytheme* Boisduv. (Lepidoptera), p.109-115.
Cooper, K. W. On the American species of *Alobates* Mots. (Col. Tenebrionidae), p.105-107, illus.
Engelhardt, G. P. The cleaning of greasy insects, p.108.
- Bulletin agricole du Congo Belge (Bruxelles), v.23, no.4, Dec.1932.
Soyer, D. La désinfection des graines de coton, p.399-421, illus. Bibliographie, p.421.
- Canadian entomologist (Orillia), v.65, no.5, May 1933.
Bruck, C. R. New species of *Carphoborus* Eich. with key to species north of Mexico (Coleoptera-Scolytidae), p.103-106.
Criddle, N. Notes on the habits of injurious grasshoppers in Manitoba, p.97-102, illus. References, p.102.
Fattig, P. W. Food of the robber fly, *Mallophora orcina* (Wied) (Diptera), p.119-120.
Knowlton, G. F., and Thomas, W. L. Food plants and distribution of some Utah Thysanoptera, p.114-119.
Milne, L. J. Notes on *Pseudolucanus placidus* (Say). (Lucanidae, Coleoptera), p.106-114, illus.

- Ceylon journal of science. Sec.D. Medical science (Colombo), v.3, pt.1, Feb.1,1933.
Hirst, F. Notes on the bacteriology of "dry-wood" termites, p.47-48; A rat flea survey of Ceylon with a brief discussion of recent work on rat-flea species distribution in relation to the spread of bubonic plague in the East Indies, p.49-113, illus. References to literature, p.111-113.
Jopson, F. P. Dry-wood-inhabiting termites as a possible factor in the etiology of sprue, p.3-46, illus. References to literature, p.41-45.
- Ecological monographs (Durham, N. C.), v.3, no.1, Jan.1933.
Rogers, J. S. The ecological distribution of the crane-flies of northern Florida, p.1-74, illus. Bibliography, p.62-64.
- Ecology (Lancaster, Penn.), v.14, no.1, Jan.1933.
Sweetman, H. L., and Wedemeyer, J. Further studies of the physical ecology of the alfalfa weevil, *Hypera postica* (Gyllenhal), p.46-60, illus. Literature cited, p.60.
- Entomological news (Philadelphia), v.44, 1933; no.5, May; no.6, June.
Foster, J. G. Swarming of *Scatopse atrata* Say (Diptera: Scatopsidae), no.5, p.136.
Haskin, J. R. The life histories of *Eurema demoditas*, *Lycaena theomus* and *L. hanno* (Lepid.: Pieridae, Lycaenidae), no.6, p.153-156.
Park, O. The food and habits of *Temesiphorus costalis* Lec. (Coleop.: Pselaphidae), no.6, p.149-151. Literature cited, p.151.
- Entomological society of the South of England. Journal (Southampton), v.1, pt.3, May 25, 1933.
Hobby, B. M. Supplementary list of the prey of Asilidae (Dipt.), p.69-74. References, p.74; Prey of Scatophaga (Dipt., Cordyluridae), p.74-77.
Poulton, E. B. Hymenoptera parasitica and Tachinidae (Diptera) bred from British Lepidoptera Heterocera by H. C. Hayward, M. A., F.E.S., p.53-55.
- Entomological society of the South of England. Transactions (Southampton), v.8, pt.2, 1932. Published May 9, 1933.
Hobby, B. M. The prey of British dragonflies, p.65-76. Bibliography, p.75-76.
Killington, F.J. The parasites of Neuroptera with special reference to those attacking British species, p.84-91. References, p.91.
- Entomologische blätter (Berlin), Jahrg.29, heft 1, Mar.1933.
Eggers, H. Zur palaarktischen borkenkäferfauna, p.1-9. (Schluss folgt.).
Heller, K. M. Beitrag zur kenntnis der papuanischen rüsselkäfergattung: *Arachnopus* Guér. (Zygopini), p.18-25.
Urban, C. Die larve des *Heterocerus parallelus* Gebl., p.9-12.
- Entomologische rundschau (Stuttgart), v.50, 1933; no.9, May 1; no.10, May 15; no. 11, June 1.
Reiss, H. Versuch einer monographie über die gruppen der *Zygaena* (*Coelestis*) *fraxini* Mén. und *olivieri* Boisd. (Lep.), no.9, p.130-136; no.10, p.144-148, illus.; no. 11, p.149-155. (Fortsetzung folgt.).
- Entomologisches nachrichtenblatt (Troppau), v.7, no.2, Apr.1933.
Machulka, V. Eine modifikation der tötung der insekten mit schwefeldioxyd, p.69-70.

Entomologisk tidskrift (Stockholm), Arg.54, haft 1, 1933.

- Ringdahl, O. Oversikt av i Sverige funna *Hylemyia*-arter, p.1-35, illus.
Ryden, N. S. Bidrag till kännedomen om svenska bladminerare. II, p.40-49.
illus. Litteraturförteckning, p.47.

Entomologist (London), v.66, 1933; no.838, Mar.1; no.839, Apr.; no.840, May.

- Adkin, R. An apparently unrecorded pupal habit of *Eucosma semifuscana*,
Steph., no.840, p.97-98.
Cockayne, E. A., and Hawkins, C. N. The life-history of *Acosmetia caliginosa*,
Hb., no.828, p.52-57, illus. (Concluded from p.39.).
Nicholson, C. Larva of *Apatura iris* feeding on heather, no.839, p.76-78.

Entomologist's monthly magazine (London), ser.3, v.19 (whole ser. v.69), 1933;
no.221 (whole ser. no.838), May; no.222 (whole ser. no.829), June.

- Austin, M. D. The insect and allied fauna of cultivated mushrooms. II, no.222,
p.132-134.
Hamm, A. H. The epigamic behaviour and courtship of three species of *Empididae*
no.221, p.113-117, illus.
Laidlaw, W. B. R. Two ichneumon parasites of *Lophyrus pini* Klug., no.222,
p.124-132. [*Lamachus pini* Bridgman, var. *caledonicus*; *Holocremna macellator*
Thunb. var. *cothurnata* Holmgr.].

Entomologist's record (London), v.45, no.5, May 1933.

- Querci, O. An account of my studies in the biology of *Pieris rapae*, Linné. II,
no.5, p.65-70.

Gardeners' chronicle (London), v.93, 1933; no.2412, Mar.18; no.2420, May 13.

- Hall, A. D. The transmission of tulip breaking, no.2420, p.330-331, illus.
[Transmitted by aphids].
Mayne, M. *Aphelinus mali* acclimatised in Belgium, no.2412, p.183.

Gesellschaft für Vorratsschutz E. V. Mitteilungen (Berlin-Steglitz), Jahrg.9, no.3,
May 1933.

- Kunike, G. Zur biologie des mehlkäfers, *Tenebrio molitor* L., p.26-34.
Literaturverzeichnis, p.33-34.

Hilgardia (Berkeley, Calif.), v.7, no.8, Jan. 1933.

- Severin, H. H. P. Field observations on the beet leafhopper, *Eutettix tenellus*,
in California, p.281-360, illus. Literature cited, p.348-350.

Indian journal of agricultural science (Calcutta), v.2, pt.6, Dec.1932.

- Bhatia, H. L., and Shaffi, M. Life-histories of some Indian Syrphidae, p.543-
570, illus. References, p.569-570.

Insecta Matsumurana (Sapporo, Japan), v.7, no.3, Mar.1933.

- Matsumura, S. Lymantriidae of Japan-Empire, p.111-152, illus.

Institut Pasteur d'Algérie. Archives (Alger), v.11, no.1, 1933.

- Chorine, V. Observation sur une maladie microbienne des chenilles (*Brythis*
(*Clottula*) *pancratii* Cyr.), p.19-23, illus.
Senevet, G. A propos des races d'*Anopheles maculipennis*, p.12-14.
Sergent, Et., and Trenszy, F. Note préliminaire sur la morphologie des oeufs
d'*Anopheles maculipennis* de France et d'Algérie, p.9-11, illus.
Trenszy, F. Sur une maladie microbienne des larves de *Aedes mariaë*, p.15-18,
illus.

Institut Pasteur de Tunis. Archives, v.21, no.3, Apr.1933.

Wagner, J., and Fassilicoff, A. Tableau analytiques pour la détermination des puces rencontrées en Algérie et Tunisie. (Manuel pour les médecins étudiant les maladies infectueuses des mammifères), p.461-467, illus. List chronologique des travaux concernant les puces nord-africaines, p.463-465.

Instituto Oswaldo Cruz (Rio de Janeiro), Memorias, v.27, no.1, Mar.1933.

Werneck, F. L. Sobre as especies de Anoplura parasitas de Lhama [*Microthoracius praelongiceps* (Neumann, 1909); *Microthoracius razzai* Werneck, 1932], p.21-32, illus.

Journal of animal ecology (London), v.2, no.1, May 1933.

Barnes, H. F. Studies of fluctuations in insect populations II. The infestation of meadow fox-tail grass (*Alopecurus pratensis*) by the gall midge *Dasyneura alopecuri* (Reuter) Cecidomyiidae, p.98-108. References, p.108.

Journal of biochemistry (Tokyo), v.16, no.1, Sept. 1932.

Sinoda, O., and Kurata, M. Nutritional study on Dermestid beetles. I. The chemical composition, and especially the nature of the ether extract of beetles, p.129-139.

Journal of the Department of agriculture of South Australia (Adelaide), v.36, no.9, Apr.15, 1933.

Davidson, J. On the control of the "lucerne flea" (*Sminthurus viridis* L.) in lucerne in South Australia, p.994-1006, illus.

Journal of the department of agriculture of Western Australia (Perth), v.9 (second ser.), no.1, 1932.

Andrewartha, H. G. The apple curculio [*Otiorrhynchus cribricollis*], its control by a poison bait, p.104-105.

Neuman, L. J. The Jarvis fruit fly lure - local tests - progress report, p.153.

Journal of the ministry of agriculture, Great Britain, v.40, no.3, June 1933.

Petherbridge, F. R. Dusting for pest and disease control in the United States and Canada, p.209-215.

Journal of tropical medicine and hygiene (London), v.36, no.9, May 1, 1933.

Hinman, E. H. The use of insects and other Arthropods in medicine, no.9, p.128-134. References, p.133-134.

Kitasato archives of experimental medicine (Tokyo), v.10, no.2, Apr.1933.

Kodama, M., and Kono, M. Studies on experimental transmission of virus of "eruptive fever" and "typhus" by several blood sucking insects, p.99-112. References, p.111-112.

Koleopterologische rundschaue (Vienna), v.19, no.1-2, 1933.

Voss, E. Monographie der Rhynchitinen- tribus Rhynchitine. 2. Gattungsgruppe Rhynchitina. V. 1...Rhynchitinae - Pterocolinae, p.25-56, illus.

Konowia (Wien), v.11, no.4 (Bogen 16-20), Mar.1933.

Lieftinck, M. A. A synopsis of the Bornean Platystictinae, with descriptions of three new species (Odon.), p.281-297, illus.

Lambillionea (Bruxelles), v.33, no.4, Apr.25, 1933.

Durand, G. Notes biologiques sur *Eucetagrotes agathina* Dup., p.97-104.
Pictet, A. Les éclosions de papillons et la météorologie, p.89-97.

- Lingnan science journal (Canton, China), v.12, no.2, Apr.4, 1933.
Hoffmann, W. E. The life history of a second species of *Laccotrephes* (Hemiptera, Nepidae), p.245-256, illus.; The biology and control of *Laccoptera chinensis* F. (Coleoptera, Chrysomelidae), p.259-260, illus.
- London. Imperial institute. Bulletin, v.31, no.1, Apr.1933.
Herford, G. V. B. The more important insect pests of cacao, tobacco and dried fruit, p.39-55, illus. References, p.55.
- London. Entomological society. Proceedings, v.7, pt.3, Apr.21, 1933.
Balfour-Browne, F. The law of priority in nomenclature, p.75-79.
Poulton, E. B., et al. Protective adaptations of animals - especially insects, p.79-96, illus. [Discussion].
- Miyazaki, Japan. College of agriculture and forestry. Bulletin, no.5, 1933.
Nakazima, S., and Furukawa, K. Bionomics and external structures of *Liparis dispar*, an insect noxious to *Livistona chinensis*, p.1-12, illus. Text in Japanese. English summary, p.12.
- Museum zoologicum polonicum, Warsaw. Annales, v.9, no.22, Jan.25, 1933.
Stach, J. *Heterolepisma horni* n.sp. oraz przeglad gatunkow rodzaju *Heterolepisma* (Thysanura). *Heterolepisma horni* n.sp. und die zusammenstellung der arten der gattung *Heterolepisma* (Thysanura), p.341-349, illus. Literatur, p.348.
- Nachrichtenblatt für den Deutschen pflanzenschutzdienst (Berlin-Dahlem), Jahrg.13, no.5, May 1933.
Thiem, H. Beitrag zur epidemiologie und bekämpfung der kirschfruchtfliege (*Rhagoletis cerasi* L.), p.33-35.
- Naturaliste canadien (Quebec), v.60 (ser.3, v.4), no.5, May 1933.
Chagnon, G. Contribution à l'étude des Coleoptères de la Province de Quebec, p.166-178, illus. (à suivre).
- Nature (London), v.131, 1933; no.3311, Apr.15; no.3313, Apr.29; no.3315, May 13; no.3319, June 10.
Darby, H. H. Insects and micro-climates, no.3319, p.839.
Davidson, J. Effect of rainfall-evaporation ratio on insects inhabiting the soil surface, no.3319, p.837-838, illus.
King, L. A. L., and Meikle, A. A. A fly pest of timothy grass, no.3319, p.837. [*Anaurosoma armillatum* Zett.].
Loughmane, J. B. Insect transmission of virus A of potatoes, no.3319, p.838-839.
Thorpe, W. H. Tracheal and blood gills in aquatic insect larvae, no.3311, p.549-550. References, p.550.
Clover mites invade dwelling houses, no.3311, p.557. [*Bryobia praetiosa*].
Eradication of prickly pear in Australia, no.3313, p.613. [*Cactoblastis cactorum*].
Mayflies and man, no.3315, p.701.
- Die naturwissenschaften (Berlin), Jahrg.21, heft 15, Apr.14, 1933.
Hase, A. Bekämpfung der bettwanze durch die spinne *Thanatos flavidus*, p.285, illus.

Nederlandsche entomologische vereeniging (The Hague). Entomologische berichten, v.8, no.191, May 1, 1933.

Fluiter, H. J. de. No-maals iets over het uitkomen van de imago van *Diplostichus tenthredinum* B.B. uit den gesloten cocon van *Diprion pini* (L.), p.487-493. Literatuur, p.492.

New York entomological society. Journal (Lancaster, Penn.), v.41, nos.1, 2, Mar., June 1933.

Chamberlin, W. J. A synopsis of the genus *Polycesta* Soliar with the description of one new species, p.37-47, illus.

Richards, A. G. Morphology of the female reproductive system of *Incurvaria russatella* Clemens (Lepid.), p.167-185, illus. Literature cited, p.174-175.

New Zealand journal of science and technology (Wellington), v.14, no.5, Apr.1933.

Cottier, W. The toxicity of arsenates. A study of the relative toxicity efficiencies of commercial acid and basic lead arsenates and of calcium arsenate, p.309-316, illus.

Ohio journal of science (Columbus), v.33, no.3, May 1933.

Eagleson, C. W. Apparatus for the maintenance of constant temperature and humidity, p.194-203.

Parasitology (London), v.25, no.2, Apr.1933.

Lewis, E. A. *Rhipicephalus ayrei* n.sp. (a tick) from Kenya Colony, p.269-272, illus.

MacLeod, J., and Gordon, W. S. Studies in tick-borne fever of sheep. I. Transmission by the tick, *Ixodes ricinus*, with a description of the disease produced, p.273-283, illus. References, p.283.

Philippine journal of science (Manila), v.50, no.3, Mar.1933.

Serrano, F. B., and Palo, M. A. Blossom-blight of mangos in the Philippines, p.211-277, illus. Literature cited, p.271.

Spaeth, F. Die Hoplionota-arten von den Philippinen-inseln (Coleoptera; Chrysomelidae), p.311-323, illus.

Tokunaga, M. A marine crane fly, *Limonia* (*Dicranomyia*) *trifilamentosa*, of the Pacific coast of Japan, with special reference to the ecology and the morphology of its immature stages, p.327-344, illus. Literature, p.342.

Phytopathology, v.23, no.5, May 1933.

Hoggan, I. A. Some viruses affecting spinach, and certain aspects of insect transmission, p.446-474, illus. Literature cited, p.474.

Psyche (Cambridge, Mass.), v.39, no.4, Dec. 1932.

Abbott, C. E. The effect of temperature and relative humidity upon the olfactory responses of blowflies, p.145-149, illus. Literature cited, p.149.

Banks, N. Concerning the genus *Notiobiella* (Neuropt.-Hemerobiidae), p.103-106.

Brues, C. T. Phoridae associated with ants and termites in Trinidad, p.134-138.

Crowell, M. F. Oviposition of the Ichneumonid *Itopectis conquisitor* (Say) in a larva of *Pyrausta nubilalis* Hubn., p.102.

Dreyer, W. A., and Park, T. Local distribution of *Formica ulkei* mound-nests with reference to certain ecological factors, p.127-133, illus. Literature cited, p.133.

Hicks, C. H. Notes on the prey and inquilines of *Podalonia violaceipennis* form *luctuosa* (F. Smith), p.150-154.

Pearson, E. O. Notes on the genus *Eysdercus* (Hemiptera-Heteroptera) in Trinidad. B. W. I., p.113-126, illus. Literature cited, p.126.

- Puerto Rico. Department of agriculture (Rio Piedras). Journal, v.17, 1933; no.1, Jan.; no.2, Apr.
Leonard, M. D. An annotated bibliography of Puerto Rican entomology, no.1, p.5-96; Notes on insect conditions in Puerto Rico for the fiscal year, July 1931 thru June 1932, no.2, p.97-137.
- Queensland agricultural journal (Brisbane), v.39, pt.4, Apr.1, 1933.
Jarvis, E. Cane pest combat and control. Complete destruction of cane stools caused by grubs of the greyback cockchafer, p.152-154, illus.
Smith, J. H. Caterpillar plagues [*Spodoptera mauritia*; *S. exempta*] in grasslands and cultivation paddocks, p.155-160, illus.
- Revista Chilena de historia natural (Santiago), Año 36 (1932).
Gomez, J. I. Evaluacion de la Cantaridina en el pilme, p.118-120, illus.
Referencias, p.120.
Stuardo, C. Sinopsis de los Nemestrinidos Chilenos del genero *Hirmoneura* Meigen (*Diptera*), p.61-81. Bibliografia, p.81.
- Revue de pathologie végétale et d'entomologie agricole (Paris), v.20, no.1, Jan.1933.
Andre, M. Sur la biologie des *Tetranyques* tisserands, p.8-25.
Mesnil, L. Sur deux *Chloropides* consideres à tort comme nuisibles, p.3-7, illus.
Bibliographie, p.7.
- Revue de zoologie agricole et appliquée (Bordeaux). Année 32, no.1, Jan.1933.
Feytaud, J. La question doryphorique au début de la campagne 1933, p.1-17, illus.
- Revue Suisse de zoologie (Genève), v.40, no.2, May 1933.
Handschin, E. Beiträge zur biologie der büffel-fliege (*Lyperosia exigua* de Meij.) und ihrer parasiten, p.187-200, illus.
- Rhodesia agricultural journal (Salisbury), v.30, 1933; no.3, Mar.; no.4, Apr.
Gundry, B. G. The construction of dipping tanks, no.4, p.297-306, illus.
Jack, R. W. The locust campaign, no.3, p.194-206.
Munro, J. W. Infestation of stored products by insects, no.4, p.279-283.
- Schweizerische entomologische gessellschaft. Mitteilungen (Bern), v.15, no.3, Jun.15, 1931; no.4, Sept.15, 1931; no.5, Dec.15, 1931; no.6, Mar.15, 1932; no.7, Jun.15, 1932; no.9, Dec.15, 1932; no.10, Mar.15, 1933.
Beuret, H. Studien über *Melitaea athalia* Rott. und *helvetica* Rühl (*pseudathalia* Rev.) (*Lep.*), no.10, p.424-455, illus. Literaturverzeichnis, p.453-454.
Gansser, A. Beitrag zur kenntnis der Schweizerischen Hypodermen, no.5, p.145-153.
Marchand, H. Beitrag zur kenntnis der gattung *Chrysochloa* Hope (*Coleoptera*), no.3, p.74-78, illus.
Pictet, A. Recherches de génétique dans des croisements de *Lasiocampa quercus* L. et de ses races alpina Frey d'altitudes moyennes et superieure, no.4, p.114-139, illus. Index bibliographique, p.139.
Steck, T. Ein eigenartiges vorkommen der dasselfliege (*Hypoderma bovis* L.), no.6, p.206-207.
Suter, P. Untersuchungen über körperbau, entwicklungsgang und rassendifferenzierung der kommaschildlaus, *Lepidosaphes ulmi* L., p.347-420. Literaturverzeichnis, p.417-420.

Scottish forestry journal (Edinburgh), v.46, pt.2, Oct.1932.

Laidlaw, W. B. R. The enemies of the elm bark beetle (*Scolytus destructor*, Oliv.) p.117-129, illus. References, p.129.

Sociedad entomológica Argentina (Buenos Aires), v.5, no.22-23, Nov.30, 1932, Feb.28, 1933.

Copello, A. Biología de *Hyperalonia morio* (Dip. Bomb.), p.117-120, illus.

Dallas, E. D. Un acaro ectoparasito de *Megadytes glaucus* (Brull.) - (Coleop. Dityscidae), p.127-128.

Hayward, K. J. Lepidopteros Argentinos, p.149-188, illus.

Jörg, H. E. Consideraciones histofisiológicas sobre los ojos de los insectos, p.93-102, illus. Bibliografía, p.101-102.

Orfila, R. N. Las especies nuevas de insectos Argentinos, p.139-147; Estudios de Lepidopterología Argentina. III^o - Catalogo sistemático de los Sphingidae (Lep.), p.189-206; Adición (IIIa) al catalogo de los lepidopteros Argentinos, p.209-212.

Pic, M. Sur divers Monommidés de l'Amérique meridionale (Col.), p.105-108.

Société de biologie (Paris). Comptes rendus, v.111, no.40, Jan.6, 1932.

L'Heritier, P. Comparaison de cinq lignées de *Drosophile*, type sauvage, au point de vue de leur survivance en presence d'une nourriture toxique, p.982-984.

Société de pathologie exotique. Bulletins, v.26, no.1, Jan.11, 1933.

Gaschon, H. Sur le presence de *Xenopsylla brasiliensis* et *Xenopsylla astia* sur les rongeurs domestiques de la region de Dakar, p.25-27.

Morin, H. G. S., and Toumanoff, C. Sur le rôle de *Anopheles masculatus* dans la transmission du paludisme au Tonkin, p.83-92, illus.

Roubaud, E., Colas-Belcour, J., and Gaschon, H. Etude du comportement sexuel comme caractère genetique, chez l'*Anopheles maculipennis*, p.27-29.

Société d'histoire naturelle de l'Afrique du Nord (Algiers). Bulletin, v.24, 1933; no.1, Jan.; no.2, Feb.

Cunin, G. Trois genres de Noctuidae [*Caradrina exiqua*, *Plusia gamma* and *Agrotis* sp.] nuisibles aux cultures de pommes de terre sur les Hauts-Plateaux Constantinois, p.34-43, illus.

Ducellier, L. Observations sur la punaise et la pourriture des raisins à Maison-Carree, p.7-8.

Peyerimhoff, P. de. Decouvertes de l'*Omophron variegatum* Ol. (Col. Carabidae) et de l'*Hydrous senegalensis* Perch. (Col. Hydrophilidae) dans le Nord de l'Afrique, p.23-24.

Société entomologique de France (Paris). Bulletin, v.38, no.6, Mar.22, 1933.

Chen, S. H. Tableau synoptique des espèces du genre *Neorthaea* Maulik (*Orthaea* Jac.), appartenant à la famille des Chrysomelidae [Col.], avec descriptions d'espèces nouvelles, p.88-96.

Vayssière, P. Le criquet pèlerin (*Schistocerca gregaria* Forsk.) aux Açores [Orth. Acrididae], p.85-86; La mouche du Cresson (*Hydrellia nasturtii* Collin [Dipt. Ephydriidae] et son parasite (*Ademon decrescens* Nees [Hym. Braconidae]), p.86-87.

Société linnéenne de Bordeaux. Actes, v.83, 1931. Received 1933.

Schirber, E. A propos du problème biologique d'*Euchloe crameri* Butler (Lep.). Procès verbaux, p.78-81.

Société nationale d'acclimatation de France. Bulletin (Paris). Année 80, no.4, Apr.1933.

Mathis, M. Utilisation des pontes et des larves de Culicidés et de Chironomides dans l'élevage des poissons, p.145-150, illus. (A suivre).

Société zoologique de France (Paris). Bulletin, v.58, no.1, Mar.31, 1933.

Grandjean, F. Etude sur le développement des Oribates, p.30-61, illus.

Rybinsky, S. B. Matériaux concernant la faune des moustiques de l'Ukraine du Nord-Ouest. 1.- Les moustiques du Polessié de l'Ukraine, p.18-29.

Index bibliographique, p.27-29.

Stylops (London), v.2, 1933; pt.4, Apr.12; pt.5, May 15.

Gardner, J. C. M. The early stages of two Indian weevils (Col. Curculionidae), pt.4, p.81-85, illus.

Ferrière, C. Chalcidoid and Proctotrupoid parasites of pests of the coconut palm, pt.4, p.86-96, illus.; pt.5, p.97-108, illus.

Tijdschrift voor entomologie (The Hague), v.76, no.1-2, May 1933.

Meijere, J. C. H. de. Über Dipteren, deren Larven in Termitennestern leben, nebst über einige weitere, z. T. neue, gleichfalls aus Djati-Wäldern auf Java, p.103-114, illus.

[Trinidad]. Sugar cane investigation committee. Proceedings, v.4, pt.2, Dec.1932.

Myers, J. G. Progress report. Division of biological control, p.105, 116-117, 123.

Pickles, A. Progress report. Division of entomology, p.75-79, 81-86, 91-97, 99-103, 109-114, 119-122, 127-130, 137-138.

Victorian naturalist (Melbourne), v.50, no.1, May 1933.

Coleman, E. Pollination of *Diuris sulphurea* R.Br., p.3-8, illus.

French, C. New records of plants attacked by native insects. No.4: "The apple root borer" (Weevil), *Leptops squalidus* Boh., p.2.

Washington. Entomological society. Proceedings, v.35, no.5, May 1933.

Arrow, G. J. A further note on the coleopterous genus *Aserica* (Melolonthinae), p.71-73.

Martini, E. The hypopygia of certain Anophelines (Diptera: Culicidae), p.61-67, illus. Literature cited, p.66-67.

Wiener entomologische zeitung, v.50, no.1-2, May 15, 1933.

Obenberger, J. *Agilus*-studien II. (Col. Buprest.), p.6-24.

Priesner, H. Neue Thysanopteren aus Mexiko, gesammelt von Prof. D. A. Dampf, p.49-63, illus.

Schauberger, E. Zur kenntnis der paläarktischen Harpilinen, p.64-78.

Zeitschrift für angewandte entomologie (Berlin), v.20, no.1, Apr.1933.

Andersen, K. T. Der einfluss der umweltbedingungen (temperatur und ernährung) auf die eierzeugung und lebensdauer eines insekts (*Sitona lineata* L.) mit postmetaboler eientwicklung und langer legezeit, p.85-116, illus. Literatur, p.115-116.

Buchmann, W. Untersuchungen über die teilchengröße der wirksamen substanz von wässrigen pyrethrum-insektenspulver-suspensionen, p.136-149. Literatur, p.148-149.

Hecht, O. Experimentelle beiträge zue biologie der stechmücken III. Blutverdauung und eireifung bei *Anopheles maculipennis* am ende der überwinterung, p.126-135, illus.

Zeitschrift für angewandte entomologie (Berlin), continued.

- Hofmann, C. Der einfluss von hunger und engem lebensraum auf das wachstum und die fortpflanzung der Lepidopteren, p.51-84, illus. Literatur, p.82-84.
Leach, J. G. The method of survival of bacteria in the puparia of the seed-corn maggot (*Hylemyia cilicrura* Rond.), p.150-161. Literature cited, p.161.
Zwölfer, W. Studien zur ökologie, insbesondere zur bevölkerungslehre der nonne, *Lymantria monacha* L. (Vermehrungspotential und sterblichkeit der entwicklungsstufen in ihren beziehungen zu temperatur und luftfeuchtigkeit), p.1-50, illus. Literatur, p.47-50.

Zeitschrift für wissenschaftliche biologie. Abt. A. Zeitschrift für morphologie und ökologie der tiere, v.26, no.3, Mar.22, 1933.

- Janische, E., and Maercks, H. Licht und insektenentwicklung, p.372-384, illus. Schriftenverzeichnis, p.384.
Peters, H. Kleine beiträge zur biologie der kreuzspinne *Epeira diademata* Cl., p.447-468, illus. Literaturverzeichnis, p.468.
Stammer, H. J. Die metamorphose der Syrphide *Tonnostoma vespiforme* (L.) und die eigenartigen anpassungen der larve dieses tieres an das bohren im holz (Dipt.), p.437-446, illus. Literatur, p.446.

Zeitschrift für wissenschaftliche biologie. Abt.C. Zeitschrift für vergleichende physiologie (Berlin), v.18, no.4, Apr.11, 1933.

- Heller, J. Über den einfluss der relativen feuchtigkeit auf den wasserverlust der überwinternden schmetterlingspuppen, p.796-802.
Hoffmann, R. W. Zur analyse des reflexgeschehens bei *Blatta orientalis* L., p.740-795, illus. Literaturverzeichnis, p.795.
Wahl, O. Beitrag zur frage der biologischen bedeutung des zeitgedächtnisses der bienen, p.709-717. Literaturverzeichnis, p.717.

Zeitschrift für wissenschaftliche zoologie (Leipzig), Abt.A, v.143, no.1, no.2, 1933.

- Bauer, H. Die histologie des ovars von *Tipula paludosa* Meig., no.1, p.53-76, illus. Literaturverzeichnis, no.1, p.76.
Munscheid, L. Die metamorphose des labiums der Odonaten, no.2, p.201-240, illus. Literaturverzeichnis, p.239-240.
Smirnov, E. Zur vergleichenden morphologie der zeichnung bei den Coccinelliden, no.1, p.1-15, illus. Zitierte literatur, p.15.

Zoologischen anzeiger (Leipzig), v.101, no.7-8, Jan.15, 1933; v.102, no.5-6, Apr.1, 1933.

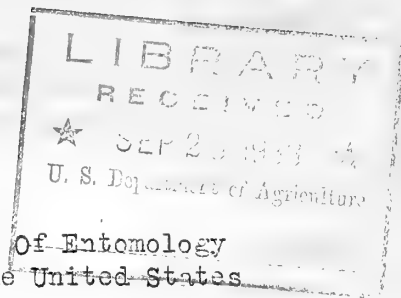
- Baumann, C. Zur kenntnis der metamorphose von *Ephialtes manifestator* L., *Coleocentrus excitator* Poda und *Echthrus reluctator* L. (Hym. Ichn.), v.102, no.5-6, p.143-155, illus. Literatur, p.154-155.
Bodenheimer, F. S. Über die aktivität von *Vespa orientalis* F. im jahresverlauf in Palästina. Ein beitrag zue ökologischen methodik, v.102, no.5-6, p.135-140, illus.
Perfiljew, P. Über neue stechmücken aus Mittelasien (Turkmenistan), v.101, no.7-8, p.231-227, illus. Literatur, p.227.
Reichensperger, A. Die stenogastre jugendform von *Termitosagma Henningsi* (Dipt.), v.102, no.5-6, p.140-142, illus.

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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.



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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 are omitted as a printed Monthly List of Publications is issued by the Office of Information, and a mimeographed List of State Experiment Station Publications by the Office of Experiment Stations. Publications of the state extension services, and all articles by members of the department staff in outside publications, are not included as they are issued monthly in Agricultural Library Notes. The contents of the Journal of Economic Entomology have also been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

Abderhalden, E.

Handbuch der biologischen arbeitsmethoden. Abt. IX. Methoden der erforschung der leistungen des tierischen organismus, Teil 7, hft.2 (Lfg.411) p.227-388, illus. Berlin & Wien, Urban & Schwarzenberg, 1933. Contents.- Rimsky-Korsakow, M. Methoden zur untersuchung von wasserhymenopteren, p.227-258, illus. Literatur, p.258; Ulrich, W. Fang und zuchtung von Strepsipteren, p.259-327, illus. Literatur über die wirtstiere, p.323-327.

Alphandéry, E.

J'apprends l'apiculture... 183p. illus. Paris, Gauthier-Villars, 1933.

Barbey, A.

Les insectes forestiers du Parc national suisse. 48p. illus. Aarau, H. R. Sauerlaender & cie, 1932. (Ergebnisse der wissenschaftlichen untersuchung des schweizerischen nationalparks, hrsg. von der Kommission der S. N. G. zur wissenschaftlichen erforschung des nationalparks ... 6.).

Belgium. Musée royal d'histoire naturelle.

Mémoires. Hors série. Résultats scientifiques du voyage aux Indes Orientales Néerlandaises de LL. AA. RR. le Prince et la Princesse Léopold de Belgique, publiés par V. Van Straelen. v.4, fasc.4-7. Bruxelles, 1932. Contents.- Fasc.4. Coleoptera I, pt.1-26; Fasc.5. Hymenoptera I, pt.1-5; Fasc.6. Lepidoptera I, pt.1-10; Fasc.7. Diptera I, pt.1-7.

Congresso internazionale di zoologia. XI^o, Padova 1930.

Atti, v.3. p.1103-1508, illus. Padova, Tipografia del Seminario, 1932. Partial contents.- Martini, E. Parasitismus in der zoologie, p.1299-1314; Theodor, O. Über eine neue methode zur klassifizierung von Phlebotomen und ihre bedeutung für das studium der durch Phlebotomen übertragenen krankheiten, p.1340-1349. Bibliographie, p.1349; Buchner, P. Symbiontengestalt und wirtsorganismus, p.1380-1387. Literatur, p.1386-1387; Pierantoni, U. La simbiosi ereditaria negli Eterotteri, p.1389-1390; Stammer, H. J. Die bakteriensymbiose der Donaciinen (Chrysomelidae, Coleoptera), p.1397-1406. Literatur, p.1406; Ries, E. Die symbiose der Pediculiden und Mallophagen, p.1408-1421; Jucci, C. Sulla presenza di batteriociti nel tessuto adiposo dei Termitidi, p.1422-1428; Poche, F. Die leitenden grundprinzipien und einige aktuelle fragen der zoologischen nomenklatur, p.1451-1481. Verzeichnis der citierten literatur, p.1477-1481.

Digges, J. R. G.

The practical bee guide. A manual of modern beekeeping. Ed.7. 306p. illus. London, Simpkin Marshall Ltd. [1932].

East Malling research station, East Malling, Kent.

Annual report (twentieth year) 1932. 163p. illus. [London, Headley Bros.] 1933. Partial contents.- Entomology, p.44-47; Moore, M. H. Some incidental effects of routine scab sprays, with special reference to apple fruit sawfly-control [*Hoplocampa testudinea*], a sidelight on the interpretation of field spraying experiments, p.90-98. References, p.98; Masee, A. M. Notes on insect pests and mites in 1932, p.100-116, illus.; Masee, A. M. Further observations on the strawberry tarsonemid mite (*Tarsonemus fragariae* Zimm.), p.117-131, illus. Bibliography of *Tarsonemus fragariae* Zimm., p.129-131; Steer, W. Two apple capsid [*Plesiocoris rugicollis* Fall.] spraying trials and some notes on spray damage, p.132-140, illus.

Faes, H., and Paschoud, A.

Notre vignoble - sa culture - sa défense - son evolution... 224p. illus. Lausanne etc., Librairie Payot & Cie, 1932. XIV. Les principaux parasites champignons et insectes de la vigne..., p.146-164.

Festschrift zum 60. geburtstag von Enoch Zander...hrsg. von A. Himmer and E. Wohl-gemuth... 131p. illus. Leipzig, Verlag von Leipziger Bienenzeitung, Liedloff, Loth und Michaelis, [1933?]. Bibliographies interspersed.

Gertsch, W. J.

Diagnoses of new American spiders. 14p. illus. New York, American museum of natural history, June 16, 1933. (Amer. Mus. novitates no.637.).

Gertsch, W. J.

New genera and species of North American spiders. 28p. illus. New York, American museum of natural history, June 15, 1933. (Amer. mus. novitates no.636.).

Great Britain - Economic advisory council - Committee on locust control

Fifth report. Proposals for the use of aircraft against locusts. 13p.

London, His Majesty's stationery office, 1933. Presented to Parliament by command of His Majesty, May 1933.

Great Britain. Ministry of agriculture and fisheries.

Advisory leaflet, no.159-160, 163-164, 170, 174-179, 183. London, April - June 1933. Contents: no.159. Bark beetles and shot borers. 4p. illus. April; no.160. Swift moths [*Hepialus humuli* Linn., *Hepialus lupulinus* Linn.]. 4p. illus. March; no.163. The onion fly [*Hylemyia antiqua* Meigen]. 4p. illus. March; no.164. The raspberry beetle [*Byturus tomentosus* Fab.]. 4p. March; no.170. Pea and bean thrips [*Frankliniella robusta* Uzel]. illus. April; no.174. The gout fly [*Chlorops taeniopus* Meigen]. 4p. illus. April; no.175. The stem eelworm [*Anguillulina dipsaci* Kuhn]. (a) Horticultural crops. 4p. illus. April; no.176. Currant and gooseberry aphides. 4p. April; no.177. The wheat bulb fly [*Hylemyia coarctata* Fall.]. 4p. illus. April; no.178. The stem eelworm (b) Agricultural crops. 4p. illus. May; no.179. Daddy longlegs or crane flies [*Tipula paludosa* Meigen]. 4p. illus. May; no.183. Narcissus flies [*Merodon equistris* Fab., *Eumerus strigatus* Flor., and *E. tuberculatus* Rdi.]. 4p. illus. June.

Great Britain. Ministry of agriculture and fisheries.

Insect pests of crops 1928-1931. 50p. London, His Majesty's stationery office, 1933. (Gt. Brit. Mins. agr. and fisheries. Bul. no.6.). References, p.39-47.

Harris, R. H. T. P.

Report on the bionomics of the tsetse fly (*Glossina pallidipes* Aust.) and a preliminary report on a new method of control, presented to the provincial administration of Natal by H. R. T. P. Harris. 75p. illus. Pietermaritzburg, The Natal witness, 1930.

Harris, R. H. T. P.

Report on the trapping of tsetse flies. 8p. illus. Pietermaritzburg, The Natal witness, 1930.

Hingston, R. W. G.

The meaning of animal colour and adornment. 411p. illus. London, Edward Arnold & co., [c1933].

Hus, I. P.

Ziekten en beschadigingen von klein fruit (bessen, frambozen, aardbeien). 4lp. illus. Wageningen, H. Veenman & Zonen, 1933. (Verslag. en Meded. Plantenziekten kund. dienst Wageningen, no.70.).

Janssens, P. E. A.

Le coton en Afrique tropicale. 402p. illus. Bruxelles, Ateliers R. Bausart, 1932. Bibliographie, p.388-402. Insectes attaquant le cotonnier, p.112-145.

Lainey, J.

La nicotine. Son pouvoir acaricide, sa toxicité, son utilisation dans le traitement des psores animales. 52p. Paris, Les Presses modernes, 1930. Bibliographie, p.51-52. These: Univ. de Paris.

Lamarck, J. B. P. An. de M. de

The Lamarck manuscripts at Harvard, edited by William Morton Wheeler and Thomas Barbour. 202 p. illus. Cambridge, Mass., Harvard University press, 1933.

Lindner, E.

Die fliegen der palaearktischen region. lfg.70-71. Stuttgart, E. Schweizerbart'sche verlagsbuchandlung, 1933. Contents.- lfg.70, Duda, O. Chlo-ropidae, p.113-176; lfg.71, Stackelberg, A. von. Dolichopodidae, p.65-128, illus.

Lutz, F. E.

Experiments with "stingless bees" (*Trigona cressoni parastigma*) concerning their ability to distinguish ultraviolet patterns. 26p. illus. New York, American museum of natural history, Feb.25, 1932. (Amer. Mus. novitates no.641.).

Maidl, F.

Die lebensgewohnheiten und instinkte der staatenbildenden insekten. lfg.4 (bogen 13-16), p.193-256. Wien, Fritz Wagner, 1933.

Marumo, N.

Studies on rice borers. I. Classification of the subfamily Crambinae in Japan. 6lp., 4p., illus. Tokyo, Japan, Tokyo imperial university, March 1933. Japanese text with 4p. English summary. (Japan. Dept. Agr. Min. agr. and forestry. Nojikairyoshiryo no.52.).

Mauritius, Colony of. Department of agriculture.

Report on the operations for the control of *Phytalus smithi* (Arrow) during the season 1931-32. 9p. Aug.17, 1932. Signed: A. Delord, Chief Phytalus officier.

Mungomery, R. W., and Bell, A. F.

Fiji disease of sugar-cane and its transmission. 28p. illus. Brisbane, Frederick Phillips, Government printer, 1933. Literature cited, p.28. (Queensland. Bur. sugar expt. sta. Div. pathol. Bul. no.4). Transmitted by *Perkinsiella saccharicida* Kirk.

New Jersey mosquito extermination association.

Proceedings of the twentieth annual meeting... held at Atlantic City, New Jersey, April 20 and 21, 1933. 115p. illus. New Brunswick, N. J. [1933]. Partial contents.- Walker, S. B. The status of mosquito control in the public mind, p.24-28; Stearns, L. A., MacCreary, D., and Newhouse, N. P. The problem of mosquito control in Delaware, p.28-32; Headlee, T. J. Summary of 1932 mosquito work in New Jersey, p.33-59; Jackson, E. W. Mosquitoes, then and now - Their prevalence and effect on industrial, urban and suburban development in Essex County, p.59-63; Marsh, H. E. The need for cooperation in mosquito work, p.90-92; Gibson, A. Mosquito suppression work in Canada in 1932, p.92-102; Botsford, R. C., and Turner, N., New developments in mosquito work in Connecticut, p.102-105; Jacques, A. D. The economic value of mosquito work on Long Island, p.105-106; Freston, T. E. The economic value of mosquito work in greater New York, p.107-108.

Roberts, F. H. S.

The external parasites of sheep. 8p. illus. [Brisbane, Frederick Phillips, Govt. printer, Feb.1933]. (Queensland. Dept. agr. and stock. Div. ent. and plant path. Stock pest leaflet no.6.).

Rogers, J. S.

Contributions toward a knowledge of the natural history and immature stages of the crane-flies. I. The genus *Polymera* Weidemann. 13p. illus. Ann Arbor, Michigan, University of Michigan press, June 29, 1933. (Univ. Mich. Mus. zool. Occas. papers no.268.).

Schmiedeknecht, C.

Opuscula ichneumonologica. Supplement-Band. Neubearbeitungen, fasc. XVII. Genus *Hemiteles* Grav.; Genus *Pezomachus* (Grav.) Först. 117-129p.; 66p. Blankenburg i Thür, 1933.

Schenkling, S.

Coleopterorum catalogus. Pars 125-128. Berlin, W. Junk, 1932-1933. Contents.- pars 125. Dalla Torre, K. W. von, Schenkling, S., and Marshall, G. A. K. Curculionidae: Subfam. Pissodinae. 29p. 1932; pars 126. Csiki, E. Carabidae: Harpalinae VIII (ultima pars), p.1599-1933, 1933; pars 127. Csiki, E. Carabidae: Carabinae III (ultima pars), p.623-648. Hetschko, A. Tretothoracidae, Jacobsoniidae, Gnostidae, Cavicoxumidae, [3p.] 1933; pars 128. Kleine, R. Lycidae, 145p. 1933.

Schmidt, E.

Bibliographia odonatologica; ein verzeichnis der titel von schriften über die libellen der erde, mit einem sachregister derselben. Mit hilfe zahlreicher mitarbeiter zusammengestellt von dr. Erich Schmidt... 1fg. 1, 114p. illus. Wien, F. Wagner, 1933.

Sørensen, W.

Descriptiones Laniatorum (Arachnidorum opilionum subordinis)... opus posthumum recognovit et edidit K. L. Henriksen, with a preface and notes in English. 199-422p. illus. København, Levin & Munksgaard, 1932. (Mém. de l'acad. roy. des sci. et des lettres de Danemark, Copenhague, Sect. des sci., 9^{me} ser. t. III, no.4.).

Sudan government. Wellcome tropical research laboratories.

Report of the Government entomologist for the year 1932. 35p. folded map, Jan. 1933. (Wellcome trop. research labs. Ent. sect. Bul.36). [H. W. Bedford, Gov't. Ent.] Mimeographed.

Sweden. Statens växtskyddsanstalt.

Flygblad, no.3-4. Experimentalfältet, May 1933. Contents.-no.3. Lindblom, A. Sprutor och bepudringsapparater för bekämpning av parasiter å Trädgårdsväxter. 9p. illus.; no.4. Lindblom, A. De vanligaste kemiska medlen i växtparasitbekämpningens tjänst, 8p. illus.

Sweden. Statens växtskyddsanstalt.

Meddelande, no.1-3. Stockholm, 1933. Contents.- no.1. Lindblom, A. Bekämpningsförsök mot myror, 16p. illus. [German summary, p.15-16]; no.2. Lindblom, A. Pyretrumprodukterna i insektbekämpningens tjänst, 24p. Använd litteratur, p.22-24. [German summary, p.20-22]; no.3. Lundblad, O. Kålflugorna. Om några i de odlade kålväxternas rot- och stamdelar levande flugarter, särskilt med hänsyn till större kålflugan (*Hylemyia floralis* Fall.), 103p. illus. Litteratur, p.94-103. [German summary, p.93-94].

Takahashi, R.

Fruit insects of Formosa. 183p. illus. 1933. (Govt. of Formosa. Bur. Indus. Pub. no.636.). Text in Japanese.

Die tierwelt Deutschlands... Teil 27. Libellen oder wasserjungfern (Odonata) von Eduard May. 124p. illus. Jena, Gustav Fischer, 1933.

Thor, S.

Acarina. Tydeidae, Ereyneidae. 84p. illus. Berlin, Walter de Gruyter & Co., 1933. (Das Tierreich, lfg.60.). Literatur-kürzungen, p. V-IX.

Titschack, E.

Die entomologische abteilung des Zoologischen staatsinstituts und Zoologischen museums in Hamburg. Ihre wissenschaftliche bedeutung, ihre aufgaben, ihre geschichte und ihre sammlungen. 64p. illus. Hamburg, [Hartung & Co.], 1932/1933.

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

Reconstitution du vignoble et Phylloxéra. Rapport sur les essais viticoles cantonaux et la lutte contre le Phylloxéra durant l'année 1932. 38p. Lausanne, Imprimerie F. Baumgartner, 1933.

Wageningen. Plantenziektenkundige Dienst.

Verslag over de werkzaamheden van den Plantenziektenkundigen Dienst in het jaar 1932. 144p. illus. Wageningen, H. Veenman & Zonen, 1933. (Verslag. en Meded. Plantenziektenkund. dienst Wageningen, no.72.).

Zacher, F.

Die tierischen samenschädlinge in freiland un lager, spinnentiere, käfer und hautflügler. 78p. illus. Neudamm, J. Neumann, 1932. (Added t.-p.: Wissenschaft und technik des gartenbaues.. hft.5.).

Zeliff, C. C.

A new protozoa [*Nyctotherus osmodermæ*, new species] from the larva of the beetle *Osmoderma scabra*. 3p. illus. Washington, D. C., Government printing office, 1933. Bibliography, p.3. (U. S. Natl. Mus. Proc. v.82, art.23. Sep. no.2964.).

PERIODICALS

Académie d'agriculture de France. Comptes rendus (Paris), v.19, no.22, June 28, 1933.

Vayssièrre, P. La lutte contre les sauterelles; son organisation internationale. Observations biologiques sur le criquet migrateur [*Locusta migratoria migratorioides* Reich. et Fairm.] et le criquet pèlerin [*Schistocerca gregaria* Forsk.], p.801-810.

Académie des sciences. Paris. Comptes rendus, v.196, 1933; no.11, March 13; no.23, June 6.

Mathias, P., and Bouille, L. Sur une larve de Chironomide (Diptère) parasite d'un mollusque, no.23, p.1744-1746.

Nouvel, L. Sur la mue des *Leander serratus* parasités par *Bopyrus fougerouxii*, no.11, p.811-812.

Académie Roumaine (Bucarest). Section scientifique. Bulletin, Année 15, 1932; no.5-6; no.7-8; no.9-10.

Caradja, A. Dritter beiträg zur kleinfalterfauna Chinas nebst kurzer zusammenfassung der bisherigen biogeographischen ergebnisse, no.5-6, p.111-123; no.7-8, p.147-153; Über einige umstrittene biogeographische fragen. Ein schlusswort zum "Dritten beiträg zur kleinfalterfauna Chinas!" no.7-8, p.159-164.

Süster, P. M. Distribution géographique des Tachinaires en Roumanie, no.9-10, p.219-234. Index bibliographique, p.234.

Agricultural gazette of New South Wales (Sydney), v.44, pt.6, June 1, 1933.

McCarthy, T. Insect pests of tobacco, p.439-442, illus.

Noble, N. S. The citrus gall wasp. (*Eurytoma fellis* Gir.), p.465-469, illus.

American entomological society. Transactions (Philadelphia), v.59, no.2, June 1933.

Duncan, P. M. The muscles and the nerves of the ovipositor of *Anax junius* (Odonata), p.145-157, illus. Bibliography, p.155.

Goldman, E. H. Comparisons of the mouth-parts of adult longhorn beetles with reference to their food (Coleoptera: Cerambycidae), p.85-102, illus. Literature cited, p.101-102.

Hobard, M. Notes on Panamanian Dermaptera and Orthoptera, p.103-144, illus.

Williams, R. C., and Bell, E. L. Studies in the American Hesperioidea. Paper I (Lepidoptera), p.69-84, illus.

Anales del instituto de biologia (Mexico City), v.4, no.2, 1933.

Ancona, L. Los jumiles de cuautla. *Euschistus zopilotensis* Distant, p.103-108, illus. Bibliografía, p.108.

Annals and magazine of natural history (London), ser.10, v.11, 1933; no.63, March; no.65, May.

Arrow, G. J. The genus *Uroxys* (Coleoptera, Copridae), with descriptions of some new species, no.63, p.385-399, illus.

Bagnall, R. S. A contribution towards a knowledge of the Thysanopterous genus *Haplothrips* Serv., no.63, p.313-334.

Malloch, J. R. The genus *Coelopa* Meigen (Diptera, Coelopidae), no.63, p.339-350.

Mosely, M. E. The genus *Pseudoleptocerus* Ulmer (Trichoptera), no.65, p.537-547, illus. References, p.547.

Annals of applied biology (London), v.20, no.3, August 1933.

Barnes, H. F. A cambium miner [*Dizygomyza barnesi* Hendel, sp. n.] (Agromyzidae) and its inquiline gall midge [*Profeltiella dizygomyzae*, sp. n.] (Cecidomyiidae), p.498-519, illus. References, p.518.

Hey, G. L., and Thomas, I. On the biology of *Cacoecia crataegana* Hub. (Lepidoptera: Tortricidae) on fruit trees in the Wisbech area, p.439-462, illus. References, p.461-462.

Petherbridge, F. R., Thomas, I., and Hey, G. L. On the biology of the plum sawfly, *Hoplocampa flava* L., with notes on control experiments, p.429-438, illus. References, p.438.

Williams, C. B. Observations on the desert locust in East Africa from July, 1928 to April 1929, p.463-497, illus. References, p.497.

Annals of tropical medicine and parasitology (Liverpool), v.27, no.2, July 7, 1933.

Duke, H. L. Relative susceptibility of the sexes of *Glossina* to infection with trypanosomes, p.355-356.

Edwards, F. W. The identity of *Culex aegypti* L., with a note by W. S. Patton, p.357-360.

Annals of tropical medicine and parasitology, continued.

- Evans, A. M. *Anopheles demeilloni* sp. n., a new name for *Anopheles transvaalensis* of authors, p.265-269, illus. References, p.269.
- Evans, A. M., and Meillon, B. de Notes on *Anopheles demeilloni* (transvaalensis) and *Anopheles garnhami* in South Africa, with descriptions of new varieties of these species, p.271-282, illus. References, p.282.
- Nieschulz, O. Some remarks about the role of true blood-sucking Musca species as transmitters of diseases, p.213-214. References, p.214.
- 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. II. A practical guide to the Palaearctic species, p.327-345, illus. (To be continued.)
- Yorke, W., Murgatroyd, F., and Hawking, F. The relation of polymorphic trypanosomes, developing in the gut of Glossina, to the peritrophic membrane, p.347-352, illus. References, p.350.

Annales de parasitologie (Paris), v.11, no.2, Mar.1, 1933.

- Toumanoff, C. Action des champignons entomophytes sur la Pyrale du maïs (*Pyrausta nubilalis* Hüb.), p.129-143, illus.

Anzeiger für schädlingskunde (Berlin), Jahrg.9, 1933; heft 7; heft 8.

- Hase, A. Über die dauerwirkung des mottenschutzes durch eulan. III. Teil. Langfristige reihenversuche an: mit "eulan NK", "eulan W extra" und "eulan neu" behandelten wollproben, heft 7, p.85-92, illus. Schriftenverzeichnis, p.92.
- Komarek, J. Wichtige neuebeobachtungen aus der biologie der nonne (*Lymantria monacha*), heft 7, p.93-96.
- Prinz, J. Der Julikafer *Polyphylla olivieri* L. als rebschädling in Transkaukasien, heft 8, p.97-104, illus.

Berlin. Zoologisches museum. Mitteilungen, v.18, no.3, 1933.

- Blüthgen, P. Beitrag zur kenntnis der äthiopischen Halictinae (Hym. Apid.) Nachtrag zum 3. beitrage. I. Die gattung *Thrincostroma* Sauss., p.363-394, illus.
- Hering, M. Morphologische untersuchungen in der gattung *Parnassius* (Lepidopt.) als beitrage zu einer kritik am begriff der unterart, p.273-317, illus.

Bernstein-forschungen (Amber studies) (Berlin), heft 3, 1932. (Published 1933).

- Brues, C. T. The parasitic Hymenoptera of the Baltic amber. Part I, p.4-178, illus.

Biologisches zentralblatt (Leipzig), v.53, no.5-6, 1933.

- Dobzhansky, T., and Boche, R. D. Intersterile races of *Drosophila pseudoobscura* Frol., p.314-330, illus. Literature cited, p.329-330.
- Franz, V. Weiteres über schreckfärbung harmloser tiere, p.250-258. Literaturverzeichnis, p.258.
- Tenenbaum, E. Zur vererbung des zeichnungsmusters von *Epilachna chrysomelina* F., p.308-313, illus. Literaturverzeichnis, p.313.

Bulletin biologique de la France et de la Belgique (Paris), v.67, no.3, 1933.

- Cousin, G. Etude biologique d'un Chalcidien: *Mormoniella vitripennis* Walk., p.371-400, illus. Bibliographie, p.398-400.

Bulletin of entomological research (London), v.24, pt.2, July 1933.

- Barnes, H. F. Gall midges (Cecidomyiidae) as enemies of mites, p.215-228.
- Chorley, C. W. Traps for tsetse-flies of the "Crinoline" and "ventilator" forms, p.315-318, illus. References, p.318.

Bulletin of entomological research (London), continued.

- Gibbins, E. G. Eggs of some Ethiopian Anopheles mosquitos, p.257-262, illus.
- Hanlynn-Harris, R. Some ecological factors involved in the dispersal of mosquitos in Queensland, p.229-232, illus.
- Lever, R. J. A. W. Status of economic entomology in the British Solomon Islands, p.253-256. References, p.256.
- Lewis, E. A. Observations on some Diptera and myiasis in Kenya Colony, p.263-269. References, p.269.
- Lloyd, L., Lester, H. M. O., Taylor, A. W., and Thornewill, A. S. Experiments in the control of tsetse fly. Part II, p.233-251, 2 maps. References, p.245-246.
- Mellanby, K. The influence of temperature and humidity on the pupation of *Xenopsylla cheopis*, p.197-202. References, p.202.
- Nash, T. A. M. The ecology of *Glossina morsitans*, Westw., and two possible methods for its destruction.- Part II, p.163-195, illus. References, p.194-195.
- Potts, W. H. Observations on *Glossina morsitans* Westw., in East Africa, p.293-300. References, p.300.
- Thorpe, W. H. Notes on the natural control of *Coleophora laricella*, the larch case-bearer, p.271-291, illus. References, p.291.
- Trägårdh, I. Methods of automatic collecting for studying the fauna of the soil, p.203-214, illus. References, p.214.
- Whitfield, F. G. S. The bionomics and control of *Dysdercus* (Hemiptera) in the Sudan, p.301-313, illus. References, p.313.
- Butantan, Brazil. Instituto seruntherapico de estado de Sao Paulo. Memorias, v.6, 1931. (Received in 1933.).
- Monteiro, J. L., Fonseca, F. da, and Prado, A. Pesquisas epidemiologicas sobre o typho exanthematico de Sao Paulo, p.139-172, illus. Bibliographia, p.172. English abstract, p.170-172. [Question of transmission by Ixodidae.].
- Prado, A. Contribuicoes ao conhecimento dos Culicideos de Sao Paulo. I-IV, p.193-212, illus. Bibliographia, p.197,203,207.
- California University (Berkeley). Publications in zoology, v.39, no.5, Apr.12,1933.
- Hendee, E. C. The association of the termites *Kaloterms minor*, *Reticulitermes hesperus*, and *Zootermopsis angusticollis* with fungi, p.111-133. Literature cited, p.133.
- Canadian entomologist (Orillia), v.65, 1933; no.6, June; no.7, July.
- Brown, W. J. Studies in the Elateridae, I (Coleop.), no.6, p.133-141.
- Criddle, N., and Handford, R. E. *Lema trilineata* Oliv. in Manitoba (Coleoptera, Chrysomelidae), no.7, p.150-151.
- Hayward, C. L. Distribution of *Polistes* in Canada, with notes on the genus (Hymenop.), no.6, p.126-128.
- Hicks, C. H. Further notes on *Aphilanthops quadrinotatus* Ashmead (Hymenop.), no.6, p.141-144.
- McDunnough, J. Notes on the early stages of certain noctuid and geometrid species, no.6, p.121-126, illus.; Biologic al notes on some of our eastern Ontario Haploptilia species (Lepid.) with descriptions of two new species, no.7, p.160-168, illus.
- O'Byrne, H. An attack on a cicada by *Polistes rubiginosus*, no.6, p.129.
- Prebble, M. L. The larval development of three barkbeetles [*Dendroctonus simplex* Lec., *Pityokteines sparsus* Lec., and *Ips pini* Say], no.7, p.145-150.

Časopis Československé společnosti entomologické (Prag), v.29, no.3-4, Sept.30, 1932.

Hahn, J. Životní prostor a jeho vliv na vývoj *Tenebrio molitor*, p.176-183.

Literatura, p.186-188. French summary, p.185-186.

Lang, J. Příspěvek k otázce regenerační schopnosti křídel u *Tenebrio molitor* L p.123-125, illus. Literatura, p.125. Brief German summary, p.125.

Vimmer, A. Druhy Tachin čsr ze starého, velkého, rodu *Exorista* Mg. Die Tachin-
enarten D. čsr der alten, grossen *Exorista*-gattung, p.126-137, illus. Refer-
ences, p.137.

La Cellule, v.41, no.4, 1933.

Conet, A. Les pieces buccales et l'appareil salivaire de la larve de *Ptychoptera albimana*, p. [391]-406. Travaux cités, p.401.

Ecological monographs (Durham, N.C.), v.3, no.3, July 1933.

Pearson, J. F. W. Studies on the ecological relations of bees in the Chicago region, p.373-441. Bibliography, p.435-438.

Entomological society of America. Annals (Columbus, Ohio), v.26, no.2, June, 1933.

Davis, M. C. Notes on some South American mosquitoes, p.277-295, illus.

References p.283.

Ellsworth, J. K. The photoreceptive organs of a flesh fly larva, *Lucilia sericata* (Meigen): an experimental and anatomical study, p.203-215, illus.

Literature cited, p.214.

McClure, H. E. Unusual variation in the life cycle of the male of *Aenoplex carpopapsae* Cush., codling moth parasite, p.345-347, illus.

Park, O. Ecological study of the ptiliid myrmecocole, *Limulodes paradoxus* Matthews, p.255-261. Literature cited, p.261.

Simanton, W. A. Determination of the surface area of insects, p.247-254, illus. Literature cited, p.254.

Thomas, E. S. *Neoconocephalus lyristes* (Rehn and Hebard) in the Middle West (Tettigoniidae, Orthopt.), p.303-308, illus. Literature cited, p.308.

Walker, E. M. On the anatomy of *Grylloblatta campodeiformis* Walter. 2. Comparisons of head with those of other orthopteroid insects, p.309-344, illus. Bibliography, p.334-335.

Entomologische Blätter (Berlin), Jahrg.29, hft 2, June 30, 1933.

Prell, E. Beiträge zur Kenntnis der Dynastien (XI). Über die arten der gattung *Stypotrupes* Burm., p.66-70.

Urban, C. Über das leben und die larve von *Opatrum riparium* Scriba, p.70-74.

Entomologische Rundschau (Stuttgart), Jahrg.50, no.15, Aug.1, 1933.

Ruediger, E. Über das seltenerwerden der flöhe, no.15, p.189-192. Literatur, p.192.

Entomologische anzeiger (Wien), Jahrg.13, no.6-7, July 10, 1933.

Lindinger, L. Beiträge zur Kenntnis der schildläuse (Hemipt.-Homopt., Coccid.) p.107-108. (Fortsetzung folgt.)

Entomologisk tidskrift (Stockholm), Arg.54, häft 2, 1933.

Bruce, N. Ytterligare bidrag till Kännedomen om de svenska Coleopteras geografiska utbredning, p.121-132.

Entomologiske meddelelser (København), v.18, no.3, 1933.

Grünwaldt, W. Die Claveliinen-gattung *Euclavelia* Arn. (Hym.Psamm.), p.252-258, illus. Literatur, p.257-258.

- Entomologiske meddelelser (København), continued
Nielsen, E. T. Sur les habitudes des Hyménoptères aculéates solitaires. III.
(Sphégidae), p.259-336, illus. Littérature, p.335-336.
- Entomologist (London), v.66, 1933; no.841, June; no.842, July.
Adkin, R. The light-trap as an adjunct to the exploration of a fauna, no.841,
p.123-129.
Niblett, M. British gall-causing Cynipidae: some notes on their emergences,
no.842, p.149-153.
- Foot-Prints on chemicals, metals, alloys and ores (Philadelphia), v.6, no.1,
June 1933.
Munch, J. C. Recent developments in the preparation and use of thallium, p.1-
21, illus. Bibliography, p.18-21.
- Genetics (Brooklyn, N. Y.), v.18, no.2, March 1933.
Nabours, R. K., Larson, I., and Hartwig, N. Inheritance of color patterns in
the grouse locust *Acrydium arenosum* Burmeister (Tettigidae), p.159-171,
illus. Literature cited, p.170-171.
- Gesellschaft für Vorratsschutz E. V. Mitteilungen (Berlin-Steglitz), Jahrg.9,
no.4, July 1933.
Krieg, H. Untersuchungen an reiskäfern, p.45.
Zacher, F. Die Vorratsschädlinge Ägyptens, p.37-45, illus. (Fortsetzung
folgt.).
- Hilgardia (Berkeley, Calif.), v.7, 1933; no.11, April; no.12, June.
Bailey, S. F. The biology of the bean thrips, [*Heliothrips fasciatus*], no.12,
p.467-522, illus. Literature cited, p.520-522.
Nel, R. G. A comparison of *Aonidiella aurantii* and *Aonidiella citrina*,
including a study of the internal anatomy of the latter, no.11, p.417-466,
illus. Literature cited, p.454-455.
- Indian forest records (Entomology series) (Calcutta), v.17, pt.8, pt.10; v.18,
pt.1-4, 6, 1933.
Entomological investigations on the spike disease of sandal (3). Membracidae
(Homopt.), by W. D. Funkhouser, v.17, pt.10, 10p. illus.; (4). Cercopidae
(Homopt.), by V. Lallemand, v.18, pt.1, 4p.; (5). Brenthidae and Lycidae
(Col.), by F. Kleine, v.18, pt.2, 4p.; (6). Anthribidae (Col.), by K.
Jordan, v.18, pt.3, 8p.; (7). The genus *Exocentrus*, Cerambycidae (Col.),
by W. S. Fisher, v.18, pt.4, 5p.; (9). Neuroptera, by N. Danks, v.18, pt.6,
4p.
Gardner, J. C. M. Immature stages of Indian Coleoptera (12) (Carabidae
contd.), v.17, pt.8, 12p., illus.
- Indian journal of agricultural science (Calcutta), v.3, pt.2, April 1933.
Mathur, R. N. Notes on the bionomics of *Odontomyia cyanea* Brunetti (Diptera:
Stratiomyidae), p.369-376, illus. References, p.376.
- Industrial and engineering chemistry (Easton, Pa.), v.25, no.6, June 1933.
Symposium on insecticides, p.616-644, illus. Literature cited, p.644.
Robinson, R. H. Removal of poisonous spray residues on fruit, p.616-620,
illus.; White, W. B. Poisonous spray residues on vegetables, p.621-623,
Literature cited, p.623; Myers, C. N., Throne, B., Gustafson, F., and
Kingsbury, J. Significance and danger of spray residue, p.624-628.
Literature cited, p.628; Alvord, E. B., and Dietz, H. F. Control of insects
on plants by chemical means. Recent developments, p.629-633. Literature

Industrial and engineering chemistry (Easton, Pa.), continued

cited, p.632-633; Gnadinger, C. B. Selenium. Insecticides material for controlling red spider, p.633-637. Literature cited, p.637; Murphy, D. F., and Peet, C. H. Insecticidal activity of aliphatic thiocyanates II. Mealy bug [*Pseudococcus citri*], p.638-639; Roark, R. C. Rotenone, p.639-642. Literature cited, p.642; Birdsall, R. W. Commercial aspect and future possibilities of rotenone, p.642-644. Literature cited, p.644.

Insecta Matsumurena (Sapporo, Japan), v.7, no.4, June 1933.

Kôno, H. Die Hylobiinen aus Formosa (Col. Curc.), p.182-189.

Takizawa, M. The Dytiscidae of Japan. Part II. (Hydroporinae), p.165-179.

Uchida, T. Ueber die schmarotzerhymenopteren von *Grapholitha molesta* Busck in Japan, p.153-164, illus.

Watanabe, C. On two new species of Braconidae bred from some curculionid-larvae in Japan, p.180-181.

Institut agronomique et des Stations de recherches de Gembloux. Bulletin, v.2, no.1, 1933.

Bruel, W. van den. Contribution à l'étude des mouches de la chicorée-witloof *Napomyza lateralis* Fall. et *Ophiomyia pinguis* Fall. (Agromyzides), p.17-44, illus. Bibliographie, p.41. Summaries in Dutch, German and English, p.41-44.

Institut Pasteur d'Algérie. Archives (Alger), v.11, no.2, 1933.

Parrot, L., Donatien, A., and Lestoquard, F. Notes et réflexions sur la biologie de *Phlebotomus perniciosus* Newstead en Algérie, p.183-191. Bibliographie, p.190-191.

Senevet, G. Notes sur les moustiques. -II, p.198-207, illus.

Trensz, F. Etude expérimentale sur la fonction des chambres à air de l'oeuf d'*Anopheles maculipennis*, p.192-197, illus. Bibliographie, p.197.

Instituto superiore agrario (Bologna). Laboratorio di entomologia. Bollettino, v.5, 1932-1933.

Grandi, G. Sugli uriti degli adulti del gen. *Cephalonomia* Westw. e di altri Imenotteri e sulla loro interpretazione morfologica, p.13-21, illus.; Morfologia ed etologia comparata di insetti a regime specializzato. III. La morfologia delle larve endofite di due Coleotteri Curculionidi, p.93-103, illus.; IV. La morfologia comparata di vari stati larvali di 30 Microlepidotteri minatori appartenenti a 15 generi ed a 11 famiglie, p.143-307, illus.

Samoggia, A. Nota sulla *Rhagoletis cerasi* L., p.22-48, illus.

Servadei, A. Contributo alla conoscenza dei Tentredinidi (Hymenoptera Symphta) delle rose. I. *Ardis sulcata* Cam., p.109-132, illus.

Internationale entomologische zeitschrift (Guben), Jahrg.27, 1933; no.10, June 8; no.13, July 1; no.14, July 8; no.16, July 22; no.17, Aug.1.

Meyrick, E. Eine neue Aulecudia (Pyralidae: Phycitinae) aus Ost-Afrika, deren raupe in "springenden Bohnen" lebt, no.14, p.162-164, illus.

Müller, L. *Picris bryoniae* O. und *napi* L., no.10, p.105-110; no.13, p.141-145; no.16, p.173-176; no.17, p.181-183 (Fortsetzung folgt.).

Japanese journal of zoology (Tokyo), v.4, no.4, Mar.31, 1933.

Issiki, S. Morphological studies on the Panorpidae of Japan and adjoining countries and comparison with American and European forms, p.315-416, illus. Bibliography, p.414-416.

Journal of the department of agriculture of South Australia (Adelaide), v.36, no.10, May 15, 1933.

Davidson, J. The species of blowflies in the adelaide District of South Australia and their seasonal occurrence, p.1148-1153, illus.

Journal of the Ministry of agriculture, Great Britain, v.40, no.4, July 1933.

Staniland, L. N. The treatment of narcissus bulbs with hot water, p.343-355, illus.

Kansas entomological society. Journal (McPherson), v.6, no.3, July 1933.

Bryson, H. R. The amount of soil brought by insects to the surface of a watered and an unwatered plot, p.81-90.

Horsfall, W. R., Dowell, A. W., and Palm, C. E. Relative importance of species of grasshoppers in northwestern Arkansas, p.98-104.

Howe, E. W. A note on the hatching of eggs of *Ceratonia undulose* Wlk. in a constant temperature incubator, p.104-105.

Peters, H. T. The genus *Xestocephalus* (Homoptera, Cicadellidae), p.73-80, illus.

Lanbillionnea (Bruxelles), v. 33, no.7, July 25, 1933.

Pictet, A. Encore les papillons et la meteorologie, p.158-161.

Lingnan science journal (Canton, China), v.12, (Supplement), May 22, 1933.

Hoffmann, W. E. Some basic needs of entomology in China, p.233-240; A preliminary list of the aquatic and semi-aquatic Hemiptera of China, Chosen (Korea), and Indo-China, p.243-253.

March, A. W. Observations on termites of East China, p.157-163, illus.

Piel, O. *Monena flavescens* Wkr, and its parasites (Lepidoptera, Heterogeneidae), with an appendix by H. Belval. Analysis of the cocoons of the *Monena flavescens* Wkr., p.173-202. Bibliography, p.200-201.

Waitzinger, L. A. Effect of various illuminations upon the silkworm (*Bombyx mori* L.) during its growth, p.165-172. (To be continued).

Wu, C. F. A preliminary check list of Hemiptera heretofore recorded from Kwangtung Province, South China, p.203-231.

London. Entomological society. Transactions, v.81, pt.1, June 30, 1933.

Deshpande, V. G. On the anatomy of some British Aleurodidae, p.117-132, illus. Bibliography, p.130.

Eltringham, H. On the tarsal sense-organs of Lepidoptera, p.33-36, illus.

Gibbins, E. G. Studies on Ethiopian Simuliidae. *Simulium dannosum*, Theo., p.37-51, illus. References, p.51.

Hincks, W. D. The Passalidae of the Belgian Congo, p.53-65, illus.

Lyle, G. T. A catalogue of the British Braconidae, p.67-74.

Mansbridge, G. H. On the biology of some Ceroplatinae and Macrocerinae (Diptera, Mycetophilidae), with an appendix on the chemical nature of the web fluid in larvae of Ceroplatinae, by H. W. Buston, p.75-92, illus. References, p.89-90.

Williams, C. B. Further collected records relating to insect migration, p.103-115.

London. Royal entomological society. Proceedings, v.8, pt.1, June 30, 1933.

Mellanby, K. The temperature of the insect's environment, p.22-24.

Marcellia (Naples), v.28, fasc.1, 1932-1933.

Trotter, A. Di una rara deformazione parassitaria del "pinus mugus", p.3-7 illus. [Eriophyes pini].

Nachrichtenblatt für den Deutschen pflanzenschutzdienst (Berlin-Dahlem), Jahrg.13, no.6, June 1933.

Tomaszewski, W. Über eine erfolgreiche massenzucht von *Trichogramma minutum* Riley (Hymenoptera, Chalcidoidea), p.41-43, illus. Schriftenverzeichnis, p.43.

Nature (London), v.132, no.3322, July 1, 1933.

A parasite of gorse and its economic possibilities, p.37. (*Apion ulicis*).

Die naturwissenschaften (Berlin), Jahrg.21, heft 24, June 16, 1933.

Schilling, C. Die aufzucht von tsetsefliegen im heimischen laboratorium, p.464-465, illus.

Novitates zoologicae (London), v.38, no.2, June 15, 1933.

Jordan, K. Two new South American bird-fleas (*Dasyipsyllus comatus*; *D. aemulus*), p.358-361, illus.; New oriental Anthribidae (Coleoptera), p.362-383.

Nyt magazin for naturvidenskaberne (Oslo), v.71, 1932.

Curran, C. H. Diptera. (Excl. of Tipulidae and Culicidae), p.347-366, illus. (Diptera of the Wollibaek Galapagos expedition).

Stach, J. Die Apterygoten aus den Galapagos-Inseln, p.331-345, illus.

Stitz, H. Formicidae, p.367-372, illus.

Ohara instituts für landwirtschaftliche forschungen in Kuraschiki, Japan. Berichte v.5, no.3-4, 1932-1933.

Harukawa, C., Takato, R., and Kumashiro, S., Studies on the seed-corn maggot (*Hylemyia cilicrura* Rondani). II, p.457-478. Literature cited, p.478.

Pennsylvania academy of science. (Harrisburg). Proceedings, v.6, 1932.

Miller, F. W. The digestive epithelium of the aphid, *Macrosiphum sanbornii*, p.148-151, illus.

Speicher, B. R. The demonstration of muscle contraction in insects, p.152-153, illus. Bibliography, p.153.

Polskie pismo entomologiczne (Lwów), v.11, no.1-4, 1932.

Minkiewicz, R. Gniazda i zwierzyna iowna Grzebaczowatych w Polsce. Nids et proies des Sohegiens de Pologne. Deuxieme serie de fragments ethologiques, p.98-112, illus. Text in French.

Psyche (Cambridge, Mass.), v.40, no.1, March 1933.

Bates, M. Notes on American Trypetidae (Diptera) II, p.48-56; illus. Bibliography, p.56.

Wheeler, W. M. Mermis parasitism in some Australian and Mexican ants. p.20-31, illus.

Quarterly review of biology (Baltimore), v.8, no.1, March 1933.

Bodenheimer, F. S. The progression factor in insect growth, p.92-95. List of literature, p.95.

Queensland agricultural journal (Brisbane), v.40, pt.1, July 1, 1933.

Jarvis, E. The greyback beetle. Termination of grub condition, p.4-6, illus.; Codling moth control experiments, 1930-33, p.25-34.

Revista de entomologia (Rio de Janeiro, Brasil), v.3, no.2, July 20, 1933.

Moulton, D. The Thysanoptera of South America (III), p.227-262, illus.

Reichensperger, A. Ectitophilen aus Costa Rica (II), Brasilien and Peru (Staph.

- Rhodesia agricultural journal (Salisbury), v.30, 1933; no.5, May; no.6, June.
Gundry, B. G., and Sinclair, J. M. The construction of dipping tanks.- II, and Notes on their management, no.5, p.404-422, illus.
Jack, R. W. The tsetse fly problem in Southern Rhodesia, no.5, p.365-384, map; Experiments with tsetse fly traps against *Glossina morsitans* in Southern Rhodesia, no.5, p.393-398; Locusts. Instructions for dealing with flying swarms, no.5, p.399-403; Locust invasion, 1933. Southern Rhodesia. Monthly report no.4, March 1933, no.5, p.423-425; Locust invasion, 1933. Southern Rhodesia. Monthly report no.5, April 1933, no.6, p.507-508.
- Sociedad entomologica Argentina (Buenos Aires). Revista, v.5, no.24, May 30, 1933.
Blanchard, E. E. Contribucion al conocimiento de los parasitos de *Oeceticus kirbyi*, Guild, p.277-294, illus.
Bourquin, F. Notas biologicas de la *Castnia archon* Burm., p.295-298, illus.; Apuntes biologicos sobre *Automeris grammivora* Jones, p.321-325, illus.
Hayward, K. J. Lepidopteros Argentinos. Familia Hesperidae III, p.219-275, illus. (Continuara).
Liebermann, J. El control internacional de los Acridios y su organizacion por el Instituto imperial de entomologia del Museo real Britanico de historia natural, p.327-329.
Marelli, C. A. El piojillo de la nutria Argentina *Pitrufulquenia mollis* n.sp., p.299-303, illus.
- Società entomologica Italiana. Memorie (Genova), v.11, fasc.2, 1932. Published Feb.28, 1933.
Guiglia, D., and Capra, F. Le Polistes Italiane, p.166-180, illus. Bibliografia, p.180.
Rocci, U. La struttura e la variabilità delle armature maschili in alcuni gruppi specifici del gen. *Melitaea* F. (Lepidopt.- Nymphal.), p.123-161, illus.
- Societas pro fauna et flora fennica. Memoranda 7, 1930-31.
Frey, R. Uppträdandet av den europeiska sträckgräshoppan (*Pachytulus migratorius*) i Finland sommaren 1930, p.172-174.
Hellén, W. Zur kenntnis der Lepidopterenfauna von Lapponia Inarensis, p.166-172.
Lindberg, H. Die kästchenkäfer Finnlands (anlässlich Professor H. von Lengerkens arbeit: "Die salzkäfer der Nor-und Ostsee usw."), p.147-165, illus. Literatur, p.165; Die Hemipterenfauna Petsamos, p.193-235, illus. Literatur, p.234-235.
- Société de pathologie exotique (Paris). Bulletins, v.26, 1933; no.4, April 5; no.6, June 14.
Colombani, L'importance respective du rat et de la puce de l'homme dans les epidémies de peste au Maroc, no.5, p.562-566.
Moutoussis, C. Recherches sur l'anophélisme et le paludisme en Grèce, no.5, p.584-590.
Toumanoff, C. Recherches sur la fréquence saisonnière de diverses espèces anophéliennes au Tonkin Bassin du fleuve Rouge, Premier note: *A. (Myz.) minimus* Théo. et *A. (Myz.) aconitus* Dön.; Deuxième note: *A. (Pseudomyzomyia) vagus* Dön., no.6, p.857-867. Bibliographie, p.862-863, 867.
- Société entomologique de France (Paris). Annales, v.102, no.2, 1933.
Chopard, L. Une blatte récemment acclimatée en France [*Supella supellectilium* Serv.], p.172.
Ferreira d'Almeida, R. Recherches biologiques sur les papillons du Brésil, p.173-179.

Société entomologique de France (Paris). Annales. Continued.

Piel, O. Recherches biologiques sur les Hyménoptères du Bas Yang-Tse (China).
Spheg isodontia nigellus F. Smith, p.109-154, illus. Bibliographie, p.152-154.

They, A. Etude sur les espèces Africaines du genre *Anthaxomorphis*, p.161-171, illus.

Société entomologique de France (Paris). Bulletin, v.38, 1933; no.8, April 26; no.11, June 14; no.12, June 28.

Frappe, G. Sur deux nouveaux Scolytides du genre *Xyleborus* nuisibles aux rameaux du caféier à Madagascar (Col.), no.12, p.178-181.

Goux, L. Notes sur les Coccides de la France (5^e note). Etude d'une espèce nouvelle (*Chlamydolecanium conchioides*, n.sp.) constituant un genre nouveau, no.8, p.119-123, illus.

Grandjean, F. Observations sur les organes respiratoires des Oribates (Acariens), no.8, p.123-127.

Verity, R. Des variations géographiques et saisonnières du *Boloria selene* Schiff. (Lep. Nymphalidae), no.8, p.116-118; Les races occidentales de *l'Argynnis hecate* Schiff. (Lep. Nymphalidae), no.11, p.173-176.

Société nationale d'acclimatation de France. Bulletin (Paris), Année 80, no.5, May 1935.

Mathis, M. M., Utilisation des pontes et des larves de Culicides et de Chironomides dans l'élevage des poissons, p.182-185, illus. (Suite et fin). Bibliographie, p.184-185.

Société royale entomologique d'Égypte (Cairo). Bulletin, v.16 (Année 25), no.4, 1932.

Alfkin, J. D. Beitrag zur Kenntnis der Chalicodoma-Arten von Aegypten, p.223-230.

Carmin, J., and Scheirkin, D. The fauna of Palestinian plants; 3. *Alhagi Mauro-rum* D. C., p.204-217, illus.

Malouf, N. S. R. The skeletal motor mechanism of the thorax of the "stink bug" *Nezara viridula* L., p.161-203, illus. References, p.199-200.

South-eastern agricultural college, Wye, England. Journal (London), no.32, July 1933.

Austin, M. D. A note on *Lygus pabulinus* L., p.168-170, illus. References, p.170.

Austin, M. D., and Jary, S. G. Investigations on the insect and allied pests of cultivated mushrooms. I. *Sciara fenestralis* Zett., p.59-62, illus. References, p.62.

Austin, M. D., Jary, S. G., and Martin, E. Studies on the ovicidal action of winter washes, 1932 trials, p.63-83, illus. References, p.83.

Austin, M. D., and Martin, H. The incorporation of contact insecticides with protective fungicides. Potato field trials, 1930-1932, p.49-58. References, p.58.

Southern medical journal (Birmingham, Ala.), v. 26, no.5, May 1933.

Symposium on malaria. Papers and reports presented before the National malaria committee, meeting conjointly with the Southern medical association at its twenty-sixth annual meeting, Birmingham, Alabama, November 15-18, 1932 p.447-473, illus.

Tijdschrift voor entomologie (The Hague), v.76, no.3, June 1933.

Kruseman, G. Jr. Tendipedidae Neerlandicae. Pars I. Genus *Tendipes* cum generibus finitimis, p.119-216, illus. Benutzte literatur, p.200-208.

Tonkin. Chambre d'agriculture. Bulletin, no.215, Mar.-Apr. 1933.

Vialar, P. A. S. d'un appareil aspirateur d'insectes. La merveilleuse découverte d'une jeune fille, p.156-160. (Extrait des Annales politiques et littéraires du 3 mars 1933 no.2.433).

Der tropenpflanzer (Berlin, Jahrg.36, no.6, June 1933.

Ms. Der rotenongehalt von malaisischen derris-wurzeln, p.260-262.

United States public health reports (Washington, D. C.), v.48, no.31, Aug.4, 1933.

Mayne, B. The injection of mosquito sporozoites in malaria therapy, p.909-916.

Washington. Entomological society. Proceedings, v.35, no.6, June 1933.

Dozier, H. L. Miscellaneous notes and descriptions of Chalcidoid parasites (Hymenoptera), p.85-100, illus.

Wisconsin academy of sciences, arts and letters (Madison). Transactions, v.28, 1933.

Fluke, C. L. jr. Revision of the Syrphus flies of America north of Mexico (Diptera, Syrphus S. L.). Part 1, p.63-127, illus.

Zeitschrift für wissenschaftliche biologie. Abt. A. Zeitschrift für morphologie und ökologie der tiere (Berlin), v.26, no.4, May 8, 1933.

Aschner, M., and Ries, E. Das verhalten der kleiderlaus bei ausschaltung ihrer symbionten. Eine experimentelle symbiosestudie, p.529-590, illus. Literaturverzeichnis, p.590.

Dobkiewicz, L. V. Morphologische studien zur metamorphose von Papilio podalirius. Teil I: Die gestaltlichen veränderungen des darmkanals, p.469-528, illus. Literaturverzeichnis, p.528.

Steiniger, F. Die erscheinungen der katalepsie bei stabheuschrecken und wasserläufern, p.591-708, illus. Literaturverzeichnis, p.707-708.

Zeitschrift für wissenschaftliche biologie. Abt.C. Zeitschrift für vergleichende physiologie (Berlin), v.19, no.1, May 22, 1933.

Peters, H. Weitere untersuchungen über die fanghandlung der kreuzspinne (Epeira diademata Cl.), p.47-67, illus. Literaturverzeichnis, p.67.

Zoogeographica (Jena), v. 1, no.4, July 1933.

Franz, H. Auswirkung des mikroklimas auf die verbreitung mitteleuropäischer xerophiler Orthopteren, p.551-565. Auswahl der literatur, p.564-565.

Zoologisch-botanische gesellschaft, Vienna. Verhandlungen, v.83, no.1-2, April 1, 1933.

Heberdey, R. F., and Meixner, J. Die Adephegen der östlichen hälfte der Ostalpen. Eine zoogeographische studie, p.1-164. Literaturverzeichnis, p.40-42.

Zoologische jahrbücher (Jena). Abt. für systematik, ökologie und geographie der tiere, v.64, no.2, April 4, 1933.

Goetsch, W. Die chilenischen Termiten, p.227-244, illus. Literaturverzeichnis, p.243-244.

Zoologischer anzeiger, v.102, no.3-4, March 10, 1933.

Heymons, R., and Lühmann, M. Die vasa Malphigi von Galerucella viburni Payk. (Coleoptera), p.78-86, illus. Literatur, p.86.



ENTOMOLOGY

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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 are omitted as a printed Monthly List of Publications is issued by the Office of Information, and a mimeographed List of State Experiment Station Publications by the Office of Experiment Stations. Publications of the state extension services, and all articles by members of the department staff in outside publications, are not included as they are issued monthly in Agricultural Library Notes. The contents of the Journal of Economic Entomology have also been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

Alencastre, J. I.

Las enfermedades parasitarias mas comunes del ganado en el Peru. Lima, Peru, Imp. Lit. E. del T., 1933. 35p. illus. (Peru. Min. fomento. Dir. agr. ganad. Cartilla no.14.).

Antigua. Colonial development fund. Sugar-cane moth borer (*Diatraea*) investigations.

Outline of work done in Antigua and St. Kitts during the year 1932. Report upon the introduction and establishment of the Cuban parasite, *Lixophaga diatraeae* Townsend, by H. E. Box. 40p. Barbados, Advocate Co., Ltd. Sept.1933.

Aurivillius, P. O. C.

Lepidopterorum catalogus editus ab Embrik Strand. pars 56-57. Berlin, Junk, 1933. Contents.- pars 56. Schussler, H. Saturniidae; 2. Subfam. Saturniinae I, p.86-324; pars 57. Shepard, H. H. Hesperidae; Subfamilia Ismeninae, 55p.

- Australia, Commonwealth of. Council for scientific and industrial research. Investigations on the buffalo fly *Lyperosia exigua* de Meij. 40p. illus. Melbourne, H. J. Green, Government printer, 1933. Contents.- I. The host preference of *L. exigua* (résumé), by B. J. Krijgsman and G. L. Windred; II. The relation between the adult *L. exigua* and mammalian faeces, by B. J. Krijgsman and G. L. Windred; III. Some food reactions of the larvae of *L. exigua*, by G. L. Windred; IV. The influence of moisture on the larvae of *L. exigua*, by G. L. Windred.
- Bovingdon, H. H. S.
Report on the infestation of cured tobacco in London by the cacao moth *Ephestia elutella* HB. Prepared for the Empire marketing board's Committee on infestation of stored products. 88p. illus. London, Printed and published by His Majesty's stationery office, 1933. Bibliography, p.83-85. (E. M. B. 67).
- Brittain, W. H. [and others].
Apple pollination studies in the Annapolis Valley, N. S. Canada 1928-1932. 193p. illus. [Ottawa, J. O. Patenaude, Acting King's printer, 1933]. Literature cited, p.190-193. (Canada. Dept. agr. Bul. no.162 - new ser.). Partial contents:--Part IV. Field studies in the role of insects in apple pollination, p.91-157; Part V. Studies in bee poisoning as a phase of the orchard pollination studies, p.158-189.
- Butovitsch, E. von, and Lehner, W.
Bestimmungstabelle der wichtigsten in märkischen Kiefernwaldböden vorkommenden insektenlarven. 16p. Berlin, Julius Springer, 1933.
- California. Department of agriculture. Division of chemistry.
Economic poisons, 1932-1933. 52p. Sacramento, California state printing office, Harry Hammond, State printer, 1933. (Calif. Dept. agr. Div. chem. Spec. pub. no.123.).
- California. San Jose State teachers college. Natural science department.
Insects: a book for teachers, students, and all others interested in the vast world of the six-footed... Gayle Pickwell, editor. 304p. illus. Los Angeles, Suttonhouse-Publishers, 1933. References, p.280-289. (Western nature study series.).
- Carpenter, G. D. H., and Ford, E. B.
Mimicry... 134p. illus. London, Methuen & co., Ltd., 1933. References, p.125-128.
- The Central co-operative anti-malaria society Ltd.
12th Annual report...held at the Albert Institute on 30th April, 1932. 104p. map. Calcutta, [Unique printing works, 1933].
- Ceylon. Department of agriculture.
Administration report of the director of agriculture for 1932. (Dr. W. Youngman) July 1933. D 177p. Colombo, Ceylon government press, 1933. Partial contents.- Jepson, F. P. Report on the work of the Division of plant pest control, p. D107-D115; Hatson, J. C. Report of the work of the entomological division, p. D123-D133. (Termites, p. D125-D129).

Cleare, L. D.

The white grubs or "hardback beetles" injurious to sugar-cane in British Guiana. 28p. illus. Georgetown, Printed by "The Daily Chronicle", 1933. Literature cited, p.27-28. (Brit. Guiana. Dept. agr. Ent. bul. no.2.).

Cyprus. Department of agriculture.

Importation of plants, fruit, etc., into Cyprus. 6p. [Nicosia, Cyprus, Government printer, 1933?]. (Cyprus. Dept. agr. Leaflet no.20.).

Encyclopaedia Britannica...

Fishes, insects and reptiles - A selection of articles from the new 14th edition... New York & London, Encyclopaedia Britannica, c 1933. 265p. illus. (Britannica booklet no.8.).

Federated Malay States. Department of agriculture.

[Bulletin]. Scientific series. no.11-12, Kuala Lumpur, Kyle, Palmer & Co., Ltd., 1933. Contents.- no.11. Miller, N. C. E. Lac in Malaya. Part I. Observations on a lac insect (*Laccifer javanus*, Chamb.) and an account of attempts to propagate it. 24p. illus.; no.12. Georgi, C. D. V., and Teik, G. L. The valuation of tuba root. 30p. References, p.30.

Fletcher, T. B.

Life-histories of Indian Microlepidoptera (second series). Cosmopterygidae to Neopseustidae. 85p. illus. Delhi, Manager of Publications, 1933. (Imp. council agr. research. Sci. mon. no.4.).

Friend, R. B., and West, A. S.

The European pine shoot moth (*Rhyacionia buoliana* Schiff.) with special reference to its occurrence in the Eli Whitney Forest. 65p. illus. New Haven, Yale university, 1933. (Yale univ. School of forest. Bul. no.37). Bibliography, p.62-65.

Hadorn, C.

Recherches sur la morphologie, les stades evolutifs et l'hivernage du *Bostryche liseré* (*Xyloterus lineatus* Oliv.). 120p. illus. Berne, Imprimerie Buchler & Cie, 1933. (Supplément aux organes de la Soc. forestière Suisse no.11, 1933). At head of title: De l'institut entomologique de l'école polytechnique Fédérale a Zurich. Direction: Prof. Dr. O. Schneider-Orelli.

Kauntze, W. H., and Symes, C. B.

Anophelines and malaria at Taveta. 26p. folded maps. Nairobi, Printed by the Government printer, 1933. (Kenya Colony. Med. dept. Rec. med. research lab. no.5).

Lindner, E.

Die fliegen der palaearktischen region. lfg.72-73. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1933. Contents.- lfg.72. Duda, O. Chloropidae, p.177-248. Literatur, p.233-240; lfg.73. Hendel, F. Pyrgotidae, p.1-15, illus.

Maidl, F.

Die lebensgewohnheiten und instinkte der staatenbildenden insekten. lfg.5. (bogen 17-20). 257-320p. illus. Wien, Verlag von Fritz Wagner, 1933.

Naturwissenschaftlicher verein für Bielefeld und umgegend.

Sechster bericht. Festschrift zum 25 jährigen bestehen des vereins am 29. Januar 1933. Im auftrage des vereins herausgegeben von Dr. Fritz Koppe. 256p. illus. Bethel bei Bielefeld, Anstalt Bethel, 1933. Partial contents.- Rehm, H. Die ameisenfauna im naturschutzgebiet Kipshagen, p.227-228; Beckmann, K. von. Schmetterlinge, p.229-231; Barner, K., and Peetz, F. Über der käferfauna des naturschutzgebietes Kipshagen, p.233-249. Literatur, p.249.

Neave, S. A.

The history of the entomological society of London, 1833-1933, by S. A. Neave...assisted by F. J. Griffin...with an introduction by E. B. Poulton... and a financial chapter by A. F. Hemming... 224p. illus. London, [Bungay, Suffolk, Printed in Great Britain by R. Clay & sons, limited], 1933.

New York state veterinary college at Cornell university.

Report for the year 1931-32. 190p. Albany, J. B. Lyon company, printers, 1933. (Legislative document (1933) no.18). Partial contents.- Crane, D. B. Some studies on the use of rotenone as a canine insecticide, p.86-120. Bibliography, p.114-120.

Nursery and market garden industries development society, limited. Experimental research station Turner's Hill, Cheshunt, Herts.

18th annual report, 1932. 72p. The Cheshunt press, Limited, 1933. Partial contents.- Entomological investigations. 1. Speyer, E. R. Mushroom pests, p.49-51; 2. Speyer, E. R. The red spider mite [*Tetranychus telarius* L.], p.51-52; 3. Speyer, E. R. Poison baits for woodlice, p.52-53; 4. Speyer, E. R. Thrips as pests of glasshouse plants, p.53-54; 5. Speyer, E. R. Experiments on the control of thrips, p.54-55; 6. Orchard, O. B., and Read, W. H. Red spider mite control, p.55-56; 7. Orchard, O. B. Cucumber root fly larvae. *Plastociara pernicioso*, Edw., & *Pynxia scabici*, Hopk., p.57.

Perret-Maisonneuve, A.

L'apiculture intensive et l'élevage des reines. 733p. illus. Paris, Editions agricoles Maurice-Mendel, Les presses universitaires de France, [1933]. At head of title: 4^e edition.

Richards, P. B., and Sharma, H. N.

The damage caused by insects on some commonly grown fruits in the plains of the United Provinces. Control methods and materials. 17p. Allahabad, Superintendent, Printing and stationery, United Provinces, 1933. (India. United Provinces. Dept. agr. Bul. 3 (Fruit series)).

Seale-Hayne agricultural college. Department of plant pathology.

Ninth annual report for the year ending September 30th, 1932. 43p. Newton Abbot, Devon, 1932. (Pamphlet no.40). Partial contents.- Notes on unusual eelworm attacks on narcissus (Var. Soleil d'Or), p.5-7, illus.; Notes on a new aphid pest of violets, *Myzus ornatus* sp.n., p.7-10; Notes on pests during the year, p.13-16; Pests reported from Devon & Cornwall, p.17-25.

Shattuck, G. C.

The peninsula of Yucatan medical, biological, meteorological and sociological studies. 576p. illus. Washington, D. C., Carnegie institution of Washington, 1933. (Carnegie Inst. Wash. Pub. no.431). Chap. XXIX. Bequaert, J. C. Contribution to the entomology of Yucatan, p.547-574.

Spain. Estación de fitopatología agrícola de Levante, Burjasot, Valencia.

[Publications] Valencia, Imprenta Hijo de F. Vives Mora, 1929-32.

Contents.- La "cuca" o "gusano negro" de la alfalfa (*Colospidema atrum* Oliv.). 6p. 1929; Instrucciones para la preparación del caldo bordelés. 4p. n.d.; Lucha contra la mosca de las frutas con cazamoscas de vidrio. 6p. n.d.; Alfaro Moreno, A. El gusano y el moteado de las manzanas y peras. 2lp. 1932; La lucha natural. Estudio acerca de la *Icerya purchasi* Mask. y de su parasito el *Novius cardinalis* Muls. 55p. 1929; Los pulgones de los arboles frutales y plantas de huerta. 10p. 1931; Trabajos de propagación del *Novius cardinalis*, parasito de la *Icerya purchasi* (Cochinilla acanalada) durante los años 1925 a 1929. 7p. 1929.

University of Bristol. Agricultural and horticultural research station (The national fruit and cider institute) Long Ashton, Bristol.

Annual report... 1932. 260p. illus. Bath, Mendip Press, Ltd. [n.d.].

Partial contents.- Swarbrick, T. The spraying of farm orchards as a means of increasing the cider fruit crop, p.47-65; Kearns, H. G. H., Marsh, R. W., and Pearce, T. J. P. Experiments with combined insecticide-fungicide sprays for apples. Progress report, p.66-85. References, p.85; Kearns, H. G. H., and Swarbrick, T. Further observations on the control of the apple sawfly, *Hoplocampa testudinea* (Klug), p.90-94; Kearns, H. G. H., and Walton, C. L. *Psila nigricornis* Meig. as a pest of *Chrysanthemums*, p.95-96, illus.; Kearns, H. G. H., and Walton, C. L. Experiments on the control of the green house symphalid (*Scutigera immaculata*), p.97-101. References, p.101.

Utah academy of sciences.

Proceedings v.10. 183p. Provo, Utah, Utah academy of sciences, 1933.

Partial contents.- Beck, D. E. Morphological study of the male genitalia of various genera of bees, p.89-137, illus.; Hayward, C. L. Notes on the taxonomy and distribution of the wasp genus *Polistes* in the Intermountain West, with description of two new varieties, p.139-147, illus.; Tanner, V.M., and Davis, O. M. Notes on Utah Lepidoptera, p.151-152.; Knowlton, G. F., Janes, M. J., and Thomas, W. L. Some Utah Diptera, p.155-157; Knowlton, G. F. Notes on injurious Utah insects; Potato psyllid, p.153; Notes on injurious Utah insects - 1932, p.159-162. Literature, p.162.

Van Duzee, M. C.

New American Dolichopidae. 20p. illus. New York, American museum of natural history, Sept.8, 1933. (Amer. mus. novitates no.655.).

Wolcott, G. N.

An economic entomology of the West Indies. 688p. illus. San Juan, The Entomological society of Puerto Rico, 1933. Bibliographies interspersed.

Zander, E.

Zeitgemasse bienenzucht. Heft II. Zucht u. pflege der bienenkönigin. Vierte verbesserte auflage. 45p. illus. Berlin, Parey, 1933. (Flugschriften der Deutschen gesellschaft für angewandte entomologie Nr.6.).

PERIODICALS

- Agricultural gazette of New South Wales (Sydney), v.44, 1933; pt.8, Aug.1; pt.9, Sept.1.
Benton, R. J. Removing bordeaux spray from oranges. Immersion in hydrochloric acid proved efficient and economical, pt.9, p.683-684.
Eastwood, H. W. Bunchy top control. Early identification, eradication of infective aphids, and destruction of diseased stools, pt.8, p.611-614, illus.
McCulloch, R. N. A kangaroo louse [*Heterodoxus longitarsus* (Piguet)], infesting dogs, pt.8, p.617-619, illus. References, p.619.
Zedl, E. H. Investigations on the green vegetable bug (*Nezara viridula* Linn.), pt.8, p.591-594. (To be concluded).
- Agriculture and live-stock in India (Calcutta), v.3, pt.4, July 1933.
Isaac, P. V., and Misra, C. S. The chief insect pests of sugarcane and methods for their control, p.315-324, illus.
- American naturalist (Garrison, N. Y.), v.67, no.712, Sept.-Oct. 1933.
Bridges, C. B., and Darby, H. H. Culture media for *Drosophila* and the pH of media, p.437-472. Literature cited, p.471-472.
Brues, C. T. Progressive change in the insect population of forests since the early tertiary, p.385-406. Literature cited, p.405-406.
- American veterinary medical association. Journal (Chicago), n.s. v.36, no.2. (whole ser. v.83, no.2), Aug. 1933.
Mitchell, W. C., and Corbett, N. G. Field observations relative to control of *Oestrus ovis*, p.247-254, illus.
- Annales des sciences naturelles. Zoologie (Paris), ser.10, v.16, fasc.1, 1933.
Roubaud, E. Essai synthétique sur la vie du moustique commun (*Culex pipiens*). L'évolution humaine et les adaptations biologiques du moustique, p.1-138, illus. Index bibliographique, p.159-163.
- Annals and magazine of natural history (London), v.12 (Tenth ser.), no.67, July 1933.
Masse, A. M. The rôle of the mite, *Eriophyes cheriani* Mass., in the Cephalonion gall of *Pongamia glabra* Vent., p.136-140.
- Anzeiger für schädlingskunde (Berlin), Jahrg.9, 1933; heft 9; heft 10.
Deckert, W. Hausbockbekämpfung und Hausbockzucht [*Hylotrupes bajulus*], heft 9, p.112-114, illus.
Hartzell, A. Ein besuch der pyrethrumfelder von Dalmatien, heft 9, p.118-119.
Meier, O. W., and Parfentjev, I. A. Die bekämpfung des kartoffelkäfers (*Leptinotarsa decemlineata* Say), heft 10, p.121-123. Literaturverzeichnis, p.123.
Reh, L. Witterung und insekten, heft 9, p.102-112.
Stellwaag, F. Verbrennungen durch schädlingsbekämpfungsmittel im obstbau, heft 9, p.114-117, illus.
Spr. Einige bemerkungen zum anbau von pyrethrum, heft 9, p.119-120.
- Archiv für naturgeschichte (Leipzig), neue folge, v.2, no.2, July 6, 1933.
Kröber, O. Die neotropischen arten der Tabaniden-gattung *Fidena* Walk., p.261-284, illus.

Archiv für naturgeschichte (Leipzig) continued

Timoféeff-Ressovsky, N. W. Über die relative vitalität von *Drosophila melanogaster* Meigen und *Drosophila funebris* Fabricius (Diptera, Muscidae acalyptratae) unter verschiedenen wuchtbedingungen, in zusammenhang mit den verbreitungsarealen dieser arten, p.285-290. Literaturverzeichnis, p.289-290.

Archivos da Escola superior de agricultura e medicina veterinaria (Rio de Janeiro), v.10, no.1, June 1933.

Pinto C. Profilaxia das babesioses e anaplasmoses dos animaes domesticos do Brasil, p.99-131, illus.

Pinto, C., and Souza Lopes, H. De. Anatomia, biologia e papel patogenico da "*Neivamyia lutzi*", mosca sugadora de sangue dos equideos do Brasil, p.77-88, illus.

Souza Lopes, H. de. Sarcophagas do Brasil, p.65-71, illus.

Australia. Council for scientific and industrial research (Melbourne). Journal, v.6, no.3, Aug. 1933.

Cohen, W. E. An analysis of termite (*Eutermes exitiosus*) mound material, p.166-169.

Evans, J. W. Thrips investigation. I. The seasonal fluctuations in numbers of Thrips imaginis Bagnall and associated blossom thrips, p.145-159.

Holdaway, F. G. The composition of different regions of mounds of *Eutermes exitiosus* Hill, p.160-165, illus. References, p.165.

Biologisches zentralblatt (Leipzig), v.53, no.9-10, 1933.

Friza, F., and Przibram, H. Johnston'sche sinnesorgane en den fühlerrfüßen (Aristopeden) der Sphodromantis und *Drosophila* (zugleich: Homoeosis VIII. Mitteilung), p.516-530, illus. Literaturverzeichnis, p.529-530.

Molitor, A. Neue beobachtungen und experimente mit grabwespen, IV, p.496-512, illus.

Thomsen, M., and Henning, L. Experimentel zur erzielung eines erblichen melanismus bei dem spanner *Selenia bilunaria* Esp., p.541-560, Literaturverzeichnis, p.560.

Bulletin of entomological research (London), v.24, pt.3, Sept.1933.

Andrewartha, H. G. The bionomics of *Otiorrhynchus cribricollis*, Gyll., p.373-384, illus. References, p.384.

Carmichael, J. The virus of rinderpest and its relation to *Glossina morsitans*, Westw., p.337-342. References, p.342.

Davidson, J., and Swan, D. C. A method for obtaining samples of the population of *Collembola* (Symphypleona) in pastures, p.351-352, illus.

Evans, A. C. Comparative observations on the morphology and biology of of some hymenopterous parasites of carrion-infesting Diptera, p.385-405, illus. References, p.404-405.

Evans, J. W. A simple method of collecting thrips and other insects from blossom, p.349-350, illus.

James, H. C. The biology and control of *Asterolecanium coffeae*, Newst., the fringed scale of coffee, in Kenya Colony, p.421-427, illus. References, p.427; Taxonomic notes on the coffee mealybugs of Kenya Colony, p.429-436, illus. References, p.436.

Lewis, D. J. Observations on *Aedes aegypti*, L. (Dipt. Culic.) under controlled atmospheric conditions, p.363-372, illus. References, p.371-372.

Mackerras, M. J. Observations on the life-histories, nutritional requirements and fecundity of blowflies, p.353-362. Bibliography, p.361-362.

Bulletin of entomological research (London), continued.

- Moreau, R. E. The food of the red-billed oxpecker, *Buphagus erythrorhynchus* (Stanley), p.325-335.
- Saliternik, Z. The breeding of *Anopheles mauritiamus* in Palestine, p.343-344.
- Simmonds, H. W. The biological control of the weed *Clidemia hirta*, D. Don, in Fiji, p.345-348, [*Liothrips urichi*].
- Uvarov, B. F. Ecology of the Moroccan locust in Iraq and Syria and the prevention of its out-breaks, p.407-418, illus. References, p.415; Preliminary experiments on the annual cycle of the red locust (*Nomadacris septemfasciata*, Serv.), p.419-420.

O campo (Rio de Janeiro), v.4, 1933; no.7, July; no.8, Aug.

- Cardoso, L. A industria da preparacao de ovulos do bicho da seda, no.7, p.32-33, illus.
- Pinto da Fonseca, J. Uma abelha nociva ás plantas cítricas, no.8, p.31-32, illus. [*Melipona ruficrus* Latr.].
- Instruções para o combate á broca da bananeira, *Cosmopolites sordidus* (Germ.), no.8, p.48, illus.

Canadian entomologist (Orillia), v.65, 1933; no.8, Aug.; no.9, Sept.

- Brown, W. J. Studies in the Elateridae II, no.8, p.173-182; Two undescribed species of the old family Silphidae with notes on some characters that have been used to divide the group, no.9, p.213-215. [*Pteroloma nebricoides*, n.sp.; *Catopocerus ulkei*, n.sp.].
- Glendinning, R. A successful parasite introduction into British Columbia [*Blastothrix sericea* Daln.], no.8, p.169-171. [Against *Eulecanium coryli*].
- Montgomery, B. E. Preliminary studies of insect parasites in Indiana, no.8, p.185-190.
- Stirrett, G. M. A new flea-beetle from Iowa (subfamily Halticinae, family Chrysomelidae), no.9, p.208-210, illus.

Chacaras e quintaes (Sao Paulo), v.48, no.3, Sept.15, 1933.

- Andrade, E. N. de. Combate á "Irapuá" [*Melipona ruficrus* Latr.] inimiga do laranjal, p.313-315, illus.
- Conceicao, J. Broca das mirtaceas, p.337-338, illus.

Entomological news. v.44, no.8, Oct. 1933.

- Hicks, C. H. Observations on a chrysid parasite and its host (Hymenop.: Chrysididae, Megachilidae), p.206-209, illus. [*Chrysis* (*Holochrysis*) *pacifica* Say, or an unnamed variety or race of *pacifica*].

Entomological society of America. Annals (Columbus, Ohio), v.26, no.3, Sept.1933.

- Davis, N. C. Transmission of yellow fever virus by *Culex fatigans* Wiedemann, p.491-494, folded table. References, p.494.
- Forbes, W. T. M. The pupa of *Hyblaea* (Lepidoptera, Hyblaecidae), p.490.
- Gould, G. E. Some notes on the genus *Ringovelia* with descriptions of a new species (Hemiptera - Veliidae), p.465-470, illus. Literature cited, p.470. [*R. hungerfordi*, n.sp.].
- Miller, F. W. The musculature of the woolly aphid of the elm (*Schizoneura americana*), p.473-489, illus. Bibliography, p.483.
- Wall, R. E. A study of color and color-variation in *Aphis gossypii* Glover, p.425-460, illus. Literature cited, p.459-460.
- Symposium - The influence of civilization on the insect fauna of North America. Contents.- I. Graham, S. A. The influence of civilization on

- Entomological society of America. Annals, (continued).
the insect fauna of forests, p.497-503; II. Claassen, P. W. The influence of civilization on the insect fauna in regions of industrial activity, p.503-510; III. Smith, R. C. The influence of civilization on the insect fauna in cultivated areas, p.510-518; IV. Smith H. S. The influence of civilization on the insect fauna by purposeful introductions, p.518-528.
- Entomologische rundschau (Stuttgart), Jahrg.50, 1933; no.18, Sept.15; no.20, Oct.15.
Caradje, A. Gedanken über herkunft und evolution der europäischen Lepidopteren, no.18, p.236-240. (Schluss folgt).
Hepp, A. Zur entwicklungsgeschichte von *Cetonia aurata* L. (Col. Scarabaeidae), no.20, p.261-265.
Reiss, H. Versuch einer monographie über die gruppen der *Zygaena* (Coelostis) *fraxini* Mén. und *olivieri* Boisd. (Lep.), no.18, p.241-243.
- Entomologist (London), v.66, 1933; no.844, Sept.; no.845, Oct.
Jacobs, S. N. A. *Aphomia gularis* (Zell.) and other rare warehouse moths, no.844, p. 195.
Sheldon, W. G. Barro Colorado: A tropical nature reserve, no.845, p.217-221.
- Entomologist's monthly magazine (London), ser.3, v.19 (whole ser. v.69), no.226 (whole ser. no.833), Oct.1933.
Barnes, E. F. Two further instances of flies swarming at Rothamsted experimental station, with some references to this phenomenon, p.230-232.
- Florida entomologist, v.17, 1933; no.2, Aug.; no.3, Oct.
Bates, M. Insect parasites of citrus in Central America, no.2, p.29-32; no.3, p.45-47. Literature cited, p.47.
Tissot, A. N. Additions to the aphid fauna of Florida, no.3, p.37-45, illus.
Watson, J. R., and Thompson, W. L. Food habits of *Leis conformis* Boisd. (Chinese ladybeetle), no.2, p.27-29.
- Germany. Biologische reichsanstalt für land-und forstwirtschaft. Arbeiten (Berlin), v.20, 1933; no.3; no.4.
Beling, I. Zur biologie und zucht der schlupfwespe *Angitia armillata* Gr. (Hymenopt. Ichneum. Ophion.), no.3, p.237-244, illus. Literatur, p.244.
Börner, C., and Schilder, Ueber das bisherige auftreten der blattgallenreblaus in Deutschland, no.3, p.325-346, illus.
Jancke, O. Gespinstmotten als grosschädlinge an obstbäumen, no.4, p.431-441, illus. Schriftum, p.441.
Jancke, O., and Böhmel, W. Beitrag zur biologie und bekämpfung der kirschfliege, no.4, p.443-456, illus. Schriftum, p.456.
Janisch, E. Untersuchungen über die oekologie und epidemiologie der nonne. I. Die abhängigkeit der entwicklungsdauer von temperatur und luftfeuchtigkeit, no.3, p.269-290. Schriftenverzeichnis, p.289-290.
Kaufmann, O. Der glanzstreifige schildkäfer (*Cassida nobilis* L.) nebst einigen bemerkungen über den nebligen schildkäfer (*Cassida nebulosa* L.), no.4, p.457-516, illus. Schriftenverzeichnis, p.516.
Maercks, H. Der einfluss von temperatur und luftfeuchtigkeit auf die embryonalentwicklung der mehlmottenschlupfwespe *Habrobracon juglandis* Ashmead, no.3, p.347-390. Schriftenverzeichnis, p.390.

- Gesellschaft für vorratsschutz E. V. Mitteilungen (Berlin-Steglitz), Jahrg.9, no.5, Sept.1933.
Herold, W. Über einige wohnungsschädlinge (Glyciphagus, Lathridius, Ptinus, Tenebrio und Lariophagus), p.51-56, illus.
Zachar, F. Die vorratsschädlinge Ägyptens, p.56-59, illus. (Fortsetzung folgt).
Ein neuer deutscher speicherschädling; Der samenzünsler. *Aphomia gularis* Zeller, p.49-50.
Starkes auftreten des kornkäfers und des Kabinettkäfers, p.50-51.
- Gesellschaft naturforschender freunde (Berlin). Sitzungsberichte, Jahrg. 1932, pt.1, Jan.-Mar.
Künchberg, P. Zur biologie des Odonaten genus *Anax* Leach..., pt.1, p.67-86, illus. Literatur, p.85-86.
- Hilgardia (Berkeley, Calif.), v.7, no.13, July 1933.
Davey, A. E., and Smith, R. E. The epidemiology of fig spoilage, p.523-551, illus. Literature cited, p.551. (Question of insect transmission).
- Indian forest records (Entomology series) (Delhi), v.17, pt.9, Aug.10, 1933; v.18, pt.7, pt.9, 1933.
Eason, C. F. C. Entomological investigations on the spike disease of sandal (2). Bostrychidae, Platypodidae and Scolytidae (Col.), v.17, pt.9, 10p.
Fleutiaux, E. Entomological investigations on the spike disease of sandal (10). Meloidae and Elateridae (Col.), v.18, pt.7, 16p. Text in French.
Gardner, J. C. K. Immature stages of Indian Coleoptera (13) (Bostrychidae), v.18, pt.9, 19p. illus.
- Indian journal of medical research (Calcutta), v.21, no.1, July 1933.
Iyengar, K. C. E. Oviposition in mosquitoes of the sub-genus *Nanonioides*, p.101-102, illus.
Napier, L. E., Smith, R. O. A., Das Gupta, C. R., and Mukerji, S. The infection of *Phlebotomus argentipes* from dermal leishmanial lesions, p.173-177. References, p.177.
Puri, I. K. Studies on Indian Simuliidae. Part VIII. Descriptions of larvae, pupae, males and females of *S. aurcohirtum* Brunetti and *S. aureum* Fries, p.1-9, illus. References, p.9; Part IX. *S. equinum* var. *mediterraneum* Puri and *S. paraequinum* sp. n., p.11-16, illus. References, p.16.
Sinton, J. A. Notes on some Indian species of the genus *Phlebotomus*. Part XXXIV. *Phlebotomus iyengari*, n.sp., p.221-224, illus. References, p.224; Part XXXV. Additions and alterations to the diagnostic table of females, p.225-228, illus. References, p.228.
Strickland, C., Chowdhury, K. L., The sporozoite rate of Anophelines caught wild in the Terai, 1931, with a note on some correlations in the infectivity of *A. funestus*, by H. P. Chaudhuri, p.67-89.
- Internationale entomologische zeitschrift (Guben), Jahrg.27, no.24, Sept.22, 1933.
Graddl, F. *Coenonympa oedipus* F. in Vorarlberg und Livhtenstein, p.257-264. (Fortsetzung folgt).
- R. Istituto superiore agrario, Portici. Annali, S. r. III, v.6, 1933.
Eua, G. Esperimenti del 1932 con costanne attrattive per la mosca delle olive, p.66-77, illus.

Japan. Imperial agricultural experiment station. Bulletin (Nishigahara, Tokyo), v.2, no.2, Mar.1933. (Received Oct.1933).

Yuasa, H. On the structure of some Japanese Buprestid larvae, with notes on their life-history, p.263-282, illus. Text in Japanese. English summary, p.279-281.

Journal of the Ministry of agriculture, Great Britain, v.40, no.7, Oct.1933.

Harper Gray, R. A., and Brooks, H. E. Winter spraying trials against the apple capsid bug [*Plesiocoris rugicollis*] on mixed varieties of apple trees, p.630-635, illus.

Colorado beetle at Tilbury, p.581-582.

Kansas entomological society. Journal (McPherson), v.6, no.4, Oct.1933.

Lindquist, A.W. Amounts of dung buried and soil excavated by certain Coprini (Scarabaeidae), p.109-125, illus. Literature cited, p.122-123.

Thomas, R. L. The genera *Stirellus* and *commellus* (Homoptera, Cicadellidae) p.126-136, illus.

Konowia (Wien), v.12, no.1-2, Aug.25, 1933.

Peus, F. von. Zur kenntnis der Aedes-arten des deutschen faunengebietes (Dipt. Culicid.). Die weibchen der Aedes Communis-gruppe, p.145-159, illus.

Lingnan science journal (Canton, China), v.12, no.3, July 11, 1933.

Hoffmann, W. E. Biological note on *Cosmoscarta bispecularis* (White) (Homoptera, Cercopidae), p.447-451, illus. References cited, p.451.

Liu, G. Catalogue of the phytophagous beetles of China, p.389-408. Bibliography, p.403-408. (To be continued).

Mickel, C. E. The Mutillidae of Eastern Asia, p.289-325. Bibliography, p.325.

Waitzinger, L. A. Effect of various illuminations upon the silkworm (*Bombyx mori* L.) during its growth. II. Daylight and darkness, p.349-365. (To be continued).

Linnean society of New South Wales (Sydney). Proceedings, v.58, pts.1-2, nos. 245-246, May 15, 1933.

Turner, A. J. Revision of Australian Lepidoptera. Oecophoridae. II, p.80-98.

London. Zoological society. Proceedings, 1933, pt.1, March.

Balfour-Browne, F. The life-history of the "small eggar moth", *Eriogaster lanestris* L., p.161-180, illus. Bibliography, p.180.

Metcalf, M. E. The morphology and anatomy of the larva of *Dasyneura leguminicola* Lint. (Dipt.), p.119-130, illus. Literature, p.128-129.

Malayan agricultural journal (Kuala Lumpur), v.21, no.8, Aug. 1933.

Corbett, G. H. Results on stem borer experiments in Krian during the 1931-1932 padi season. Compiled by G. H. Corbett...from records obtained by H. T. Pagden, p.362-378.

Mededelingen van het Deli proefstation te Medan-Sumatra (Batavia), ser.2, no.85, 1933.

Meer Mohr, J. C. van der. Entomologische aantekeningen, III. A. Over eenige op tabakszaadbedden voorkomende insecten; B. Over *Polanisia viscosa* DC., voedsterplant van de tabaks-Capside; C. Over *Nysius lacustrinus* Dist.; D. Schildluizen op tabaks-wortels. 11p. illus.

Nachrichtenblatt für den Deutschen pflanzenschutzdienst (Berlin-Dahlem),
Jahrg.13, no.8, Aug.1933.

Börner, E. Die verbreitung der reblaus in Deutschland nach dem stande
des jahres 1932, p.59-62.

Die San José-schildlaus auch in Portugal und Spanien !, p.64-65.

Spritzschäden an kirschen durch verwendung von fluornatrium zur bekämpf-
ung der kirschfliege, p.63-64.

Nature (London), v.132, 1933; no.3329, Aug.19; no.3331, Sept.2; no.3337,
Oct.14; no.3338, Oct.21.

Hill, L., and Taylor, H. J. Locusts in sunlight, no.3329, p.276.

Thompson, G. B. Association of Hippoboscids with lice, no.3337, p.605-606.

Colorado beetle in Great Britain, no.3331, p.343.

Insect transmission of spike-disease, no.3337, p.592-593.

Protection against yellow fever, no.3338, p.628-629.

Nederlandsch-Indische bladen voor diergeneeskunde (Buitenzorg, Java), v.45,
no.4, Aug.1933.

Bubberman, C., and Kraneveld, F. C. Over een dermatitis squamosa et
crustosa circumscripta bij het rund in Nederlandsch-Indië, genaamd
cascado. I. Onderzoekingen over aard en wezen der cascado, p.239-278,
illus. English summary, p.278. (Takes up question of insect trans-
mission).

Handschin, E. Die rolle von temperatur und feuchtigkeit im auftreten und
in der verbreitung von *Lyperosia exigua* de Meij., p.217-227. Litera-
tur. p.226-227.

Mieschulz, O. Over de reactie van *Stomoxys* op verschillende temperaturen,
p.231-238. Brief English summary, p.238.

Neuheiten auf dem gebiete des pflanzenschutzes herausgegeben von der Bundes-
anstalt für pflanzenschutz (Wien), Jahrg. 26, no.5, Oct.1933.

Werneck, H. L. Die maulwurfsgrille (*Gryllotalpa vulgaris* Latr.) und ihre
wirtschaftliche bedeutung für Oberösterreich, p.97-101. Schrifttum,
p.101.

New York entomological society. Journal (Lancaster, Pa.), v.41, no.3, Sept.
1933.

Bell, E. L. Studies in the Pyrrhopyginae, with descriptions of new species
(Lepidoptera, Rhopalocera, Hesperidae), p.265-295. (To be continued).

Pycnon, L. The shielding effects of various materials when insects are
exposed to the lines of force in a high frequency electro-static field,
p.241-252. Literature cited, p.252.

Stewart, M. A. Revision of the list of Siphonaptera from New York State,
p.253-262. References, p.261-262.

Pan-Pacific entomologist (San Francisco), v.9, no.3, July 1933.

Darlington, P. J., Jr. A new tribe (Gehringiini) of Carabidae (Coleoptera)
from western United States, p.110-114, illus. Papers cited, p.114.

Prentiss, R. W. Regeneration of the corci in *Forficula auricularia* L.,
p.129-130.

Phytopathology (Lancaster, Pa.), v.23, no.9, Sept.1933.

Vaughan, E. K. Transmission of the crinkle disease of strawberry, p.738-740, illus. [*Myzus fragaefolii*].

Walker, M. M. Occurrence of watermelon mosaic, p.741-747, illus. [*Aphis gossypii*].

Plant protection (Leningrad), 1932, fasc. no.1-3. (Received Oct.1933).

Bey-Bienko, G. J. The importance and outlooks of aviation in the controlling of injurious grasshoppers, no.1, p.43-50. Bibliography, p.50.

Russian text. English summary, p.49-50.

Esterberg, L. K. On two little known insect pests of onion [*Ceutorrhynchus jakovlevi* Schze.; *Hydroecia micacea* Esp.], no.2, p.79-82. Russian text.

Iljinsky, A. M., and Vorobjeva, K. S. On the substitution of cooper [copper?] with other materials in the farm-machinery for pests and diseases control, no.3, p.100-105. Russian text.

Jaroslavtzev, G. M., and Moltchanova, O. F. The autumn investigation on the amount of the sugar beet web worm (*Loxostege sticticalis* L.), no.2, p.1-24. Russian text. English summary, p.21-24.

Medjakova, O. I. On the economic effect of *Harmolita eremitum* Portschi, no.1, p.56-63. Bibliography, p.63. Russian text. English summary, p.67-68.

Meyer, N. F., and Telenga, N. A. Ueber biologische bekämpfung der blutblattlaus (*Eriosoma lanigerum* Hausm.) durch ihren parasit - *Aphelinus mali* Hald. in USSR, no.3, p.17-24, illus. Russian text. German summary, p.24.

Rubtsov, J. A. On the determination of the absolute amount of locusts by the method of scything, no.1, p.69-80. Bibliography, p.80. Russian text. English summary, p.79-80.

Semenov, A. E. On the control of *Eyturus tomentosus* F., no.2, p.83-84. Russian text.

Stratchitzky, K. J. On the necessity of addition of lime in the suspension of Paris-green for orchard spraying, no.2, p.53-56.

Stschegolev, W. N. On the economic importance of *Etiella zinckenella* Tr. - a pest of soja beans [soya beans?], no.3, p.65-70. Bibliography, p.70. Russian text.;...*Pyrausta nubilalis*, no.1, p.114-121. Russian text.

Tchugunin, J. Efficiency of the faring of the garden-weevils under various conditions, no.3, p.81-99, illus. Bibliography, p.99. Russian text.

Vodinskaja, K. Some data on *Eurytoma amygdali* End., no.1, p.97-106, illus. Bibliography, p.106. Russian text. English summary, p.104-105.

Weber, J. C. A new mass pest of oak-trees - *Coriscium brongniardellum* L., no.2, p.57-63, illus. Russian text.

Zacharov, L. Z. A theory of migrations of the migratory locust [*Locusta migratoria* L.], no.3, p.123-130. Russian text.

Znamensky, A. V. The plan of scientific research of plant protection at the year 1932 in USSR, no.1, p.1-41. Russian text.

Psyche (Cambridge, Mass.), v.40, no.2, June 1933.

Bequaert, J. Notes on Hippoboscidae. 4. On the larger species of *Lynchia* Weyenbergh (*Olfersia* of authors; *Icosta* Speiser; *Ornithoponus* Aldrich), p.68-82.

Wheeler, W. M. A second parasitic *Crematogaster* [*Crematogaster* (*Acrocœlia*) *creightoni* sp.nov.], p.83-86.

Queensland agricultural journal (Brisbane), v.40, 1933; pt.2, Aug.1; pt.3, Sept.1.

Atherton, D. O. Experiments with baits for the control of certain cotton pests, pt.3, p.183-190.

Harold-Smith, J. Seed-harvesting ants, pt.3, p.183-190.

Queensland agricultural journal (Brisbane), continued.

- Jarvis, E. Cane pests combat and control. Entomological notes for August. Occurrence of both grubs and pupae in subterranean cells, pt.2, p.88-90, illus.; The grey-back beetle (September notes), pt.3, p.176-179, illus.
Voitch, R. The history of economic entomology in Australia, pt.2, p.94-97; Cutworm control, pt.3, p.180-182, illus.

Records of the malaria survey of India (Calcutta), v.3, no. 3, June 1933.

- Barraud, P. J. Additional records of the distribution of Anopheline mosquitoes in India (from January 1, 1931 to April 15, 1933), p.507-525; Note on a mosquito with the pollinia of an orchid attached to its proboscis, p.527-528, illus.
Basu, B. C. Report on a brief survey of malaria and Anophelines in Patna, p.577-578.
Jaswant Singh, S. A. S. Some observations on the mosquitoes and sandflies of Rajputana, p.579-581.
Manson, D., and Ramsay, G. C. Further observations on a malaria survey in the Jorhat District, Assam, with some notes on the anti-malaria measures employed, p.479-494, illus. References, p.494.

Revue de zoologie agricole et appliquée (Bordeaux), Année 32, 1933; no.2, Feb.; no. 3, Mar.; No.4, Apr.

- Suire, J. Note sur les Apanteles parasites de la fausse-teigne des ruches, Galleria mellonella L., no.3, p.45-51; no.4, p.63-66, illus. Travaux cités, p.66. (Suite et fine).
Voukassovitch, P. Sur l'action des parasites et hyperparasites d'Hyponomeuta malinellus Zell., No.2, p.29-43.; No.3, p.51-60; No.4, p.67-76.
J. B. La chasse aux insectes en aéroplane, no.2, p.43-44.

Revue Suisse de zoologie (Genève), v.40, fasc.3, July 1933.

- Handschin, E. Studien an *Lyperosia exigua* de Meijere und ihren parasiten. I. Teil. *Lyperosia exigua* in Java und Nordaustralien, p.449-528, illus.
Stäger, R. Fütterungsversuche mit unsern einheimischen Ameisenarten, p.349-363.

Rhodesia agricultural journal (Salisbury), v.30, no.8, Aug.1933.

- Symes, C. B. The black maize beetle (*Heteronychus licas*, Klug.). Observations on life history and control, p.616-643, illus.

Royal society of Queensland (Brisbane). Proceedings, v.44 for 1932, pub.1933.

- Hardy, G. H. Notes on Australian Stratiomyiidae, p.41-49.

Royal society of tropical medicine and hygiene. Transactions (London), v.27, no.2, July 28, 1933.

- Cochrane, E. First reported cases of dengue fever in British Guiana, p.211-212. [*Aedes argenteus*].
Wallace, R. B. Paris green as a larvicide on an inland hilly estate in Malaya, p.131-146, illus. References. p.146.

Science (New York), v.78, no.2025, Oct.20, 1933.

- Slifer, E. H., and King, R. L. Grasshopper eggs and the paraffin method, p.366.

Scientific agriculture (Ottawa), v.13, no.10, June 1933.

- King, K. M., and Glen, R. A co-operative investigation of the quantitative relation between summer-fallow methods and the wireworm in Saskatchewan, p.646-652.

Société zoologique de France (Paris). Bulletin, v.58, 1933; no.2, May 20; no.3-4, Sept. 25.

Fage, L. A propos du parasitisme des Eporides (Diptères), no.2, p.90-92, illus.

Paulian, R. Dimorphisme des caractères sexuels secondaires chez les males de quelques espèces d'Onthophagus (Col. Lamell.), no.2, p.95-99, illus. Bibliographie, p.98-99.

Picard, F. Sur les Hyménoptères parasites des oothèques de Mantides, avec la description d'un Chalcidide: *Iridophaga lichtensteini* N.g. et n.sp., no.3-4, p.235-241, illus.

Society for the preservation of the fauna of the Empire. Journal (Hertford, England), new series, pt.20, Aug. 1933.

Bevan, L. E. W. The control of the tsetse fly, p.28-33.

Sophia, Bulgaria. Institutions royales d'histoire naturelle. Bulletin, v.6, 1933.

Drensky, P. Die parasitären fliegen der familie Oestridae in Bulgarien, p. 125-149, illus. Bibliography, p. 147-148. Text in Bulgarian. Brief German summary, p.149.

Oberbenger, J. Catalogue raisonné des Buprestides de Bulgaria. II. Partie, p.49-115. Text in French.

South London entomological and natural history society. Transactions and proceedings (London), 1932-1933. Published 1933.

Cockayne, E. A. The life history of *Isturgia carbonaria*, Clerck, p.50-56, illus.

Hawkins, C. N. The pupa of *Isturgia (Fidonia) carbonaria* Clerck, p.57-60, illus.

Niblett, M. Plant galls and their causes, p.36-45.

Smith, M., and Stanley, F. A home-made light trap for moths, p.46-49, illus.

Tonge, A. E. The ova of British Lepidoptera. Pt. III. Geometridae, etc., p.11-25, illus.

Spolia zeylanica (Ceylon), v.17, pt.3, May 19, 1933.

Fraser, F. C. The Flatystictas of Ceylon (order Odonata), p.201-224, illus. References to literature, p.224.

Henry, G. M. Descriptions and records of Ceylanese Acrididae, p.155-200, illus. References to literature, p.198.

Stettiner entomologische zeitung. Jahrg.94. heft 1, May 5, 1933.

Voss, E. Monographie der Rhynchitinen-tribus Aulexini - III. Teil der monographie der Rhynchitinae-Pterocolinae (37. Beitrag zur kenntnis der Curculioniden), p.108-136. (Fortsetzung folgt).

Stylops (London), v.2, pt. 10, Oct. 14, 1933.

Marshall, J. F., and Staley, J. Variations in the surface pattern of eggs of *Anopheles maculipennis* (Diptera, Culicidae) obtained in the south of England, p.238-240, illus. References, p.240.

Taihoku imperial university (Taihoku, Formosa, Japan). Faculty of science and agriculture. Memoirs, v.8, Entomology no.2, July 1933. (Received Oct. 1933).

Shiraki, T. A systematic study of Trypetidae in the Japanese Empire. 509p. illus. Literature, p.495-501. Text in English. (At head of title: Contribution no.43. Entomological laboratory).

Tropical agriculture (St. Augustine, Trinidad), v.10, 1933; no.9, Sept.; no.10, Oct.

Napier-Bax, S. Task-work versus day-work methods in anti-tsetse clearings, no.9, p.249-254, illus.

Pickles, A. Entomological contributions to the study of the sugar-cane froghoppers. II. The influence of host relations and of cultural operations in limiting blight incidence amongst plant canes, no.9, p.240-245; no.10, p.286-295. Literature cited, p.295.

The tsetse problem, no.9, p.237-239.

Washington academy of sciences. Journal (Menasha, Wis.), v.23, no.10, Oct.15, 1933.

Ball, E. D. The genus *Myndus* Stal in North America (Homoptera Fulgoridae), p.478-484.

Zeitschrift für angewandte entomologie (Berlin), v.20, no.2, July 1933.

Baudet, E. A. R. F., and Nieschulz, O. Über fliegenlarveninfektionen (*Lucilia sericata*) bei schafen im wieringermeerpolder (Zuiderzeegebiet), p.324-325.

Boas, J. E. V. Ein ernster angriff von *Lyda arvensis* Panz., p.268-280, illus.

Dauberschmidt, K. Vergleichende morphologie des Lepidopterendarmes und seiner anhänge, p.204-267, illus. Literatur, p.265-267.

Enderlein, G. *Chortophila rubicola* n.sp. ein schädling der himbeertriebe, p.327-328.

Fähringer, J. Über Braconiden und ihre wirte, p.307-323.

Körting, A. Beitrag zur kenntnis der entwicklung von *Haplothrips aculeatus* F., p.281-295, illus. Literatur, p.294-295.

Langenbuch, R. Beiträge zur kenntnis der biologie von *Agriotes lineatus* L. und *Agriotes obscurus* L. (II. Teil.), p.296-306, illus. Literatur, p.306.

Marcus, A. Die entwicklung der forleule (*Panolis flammea* Schiff.) 1931 im Lorenzer Reichswald, p.169-203, illus. Literatur, p.202-203.

Zeitschrift für wissenschaftliche biologie. Abt. A. Zeitschrift für morphologie und ökologie der tiere (Berlin), v.27, no.1, 1933.

Gerhardt, U. Neue untersuchungen zur sexualbiologie der spinnen, insbesondere an arten der mittelmeeerländer und der tropen, p.1-75, illus. Literaturverzeichnis, p.74-75.

Scheinert, W. Symbiose und embryonalentwicklung bei rüsselkäfern, p.76-128, illus. Literaturverzeichnis, p.127-128.

Zeitschrift für wissenschaftliche biologie. Abt. B. Zeitschrift für zellforschung und mikroskopische anatomie (Berlin), v.19, no.1, Aug.15, 1933.

Dehn, M. von. Untersuchungen über die bildung der peritrophischen membran bei den insekten, p.79-105, illus. Literaturverzeichnis, p.103-105.

Prokofiewa, A. Vergleichend-karyologische studien von elf arten der familie Corixidae (Hemiptera, Heteroptera), p.1-27, illus. Literaturverzeichnis, p.26-27.

Zeitschrift für wissenschaftliche biologie. Abt. C. Zeitschrift für vergleichende physiologie (Berlin), v.19, no.3, Aug.17, 1933.

Priebatsch, I. Der einfluss des lichtes auf farbwechsel und phototaxis von *Dixippus (Carausius) morosus*, p.453-488, illus. Literaturverzeichnis, p.487-488.

Schnieirla, T. C. Some important features of ant learning, p.439-452, illus. General references, p.452. Text in English.

Zeitschrift für wissenschaftliche biologie. Abt. F. Zeitschrift für parasitenkunde (Berlin), v.5, no.3-4, May 20, 1933; v.6, no.1, Sept.6, 1933.

Hase, A. Über starrezustände bei blutasaugenden insekten, insbesondere bei wanzen. II. Mitteilung betr. *Panstrongylus (Triatoma) geniculatus* Pinto 1931, v.5, no.3-4, p.708-723, illus. Schriftenverzeichnis, p.722-723; Zur fortpflanzungsphysiologie der blutsaugenden wanze *Rhodnius pictipes* (Homipt. Heteropt.). Beiträge zur experimentellen parasitologie. 9., v.6, no.1, p.129-144, illus. Schriftenverzeichnis, p.144.

Janisch, E. Beobachtungen bei der aufzucht von bettwanzen. I. Über das verhalten von populationen bei verschiedenen zuchtbedingungen, v.5, no.3-4, p.460-514, illus. Literaturverzeichnis, p.513-514.

Jaschke, W. Beiträge zur kenntnis der symbiontischen einrichtungen bei Hirudineen und Ixodiden, v.5, no.3-4, p.515-541, illus. Literatur, p.539-541.

Lartschenko, K. Die unempfänglichkeit der raupen von *Loxostege sticticalis* L. und *Pieris brassicae* L. gegen parasiten, v.5, no.3-4, p.679-707, illus. Schriftenverzeichnis, p.706-707.

Zeitschrift für wissenschaftliche zoologie (Leipzig), v.144, no.1, 1933.

Klein, H. Z. Zur biologie der Amerikanischen schabe (*Periplaneta americana* L.), p.102-122, illus. Literatur, p.122.

Zoologische anzeiger (Leipzig), v.103, 1933; no.7-8, July 15; no.9-10, Aug.1

Bodenstein, D. Die unterdrückung der beinregeneration bei *Dixippus morosus* durch transplantation von hypodermis auf die wundfläche. Zugleich eine methode der transplantation bei ametabolen insekten, no.7-8, p.209-213, illus. Literatur, p.212-213.

Marcu, O. Zur kenntnis der stridulationsorgane bei Curculioniden, no.9-10, p.270-273, illus.

Schmidt, E. Über die wahren cerci der Odonatenimagineen, no.9-10, p.263-266, illus. Literatur, p.266.

Weyer, F. Neuere variationsstatistische ermittlungen über flügelänge und maxillenindex als rassenmerkmal von *Anopheles maculipennis*, no.9-10, p.244-253, illus.



ENTOMOLOGY

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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 are omitted as a printed Monthly List of Publications is issued by the Office of Information, and a mimeographed List of State Experiment Station Publications by the Office of Experiment Stations. Publications of the state extension services, and all articles by members of the department staff in outside publications, are not included as they are issued monthly in Agricultural Library Notes. The contents of the Journal of Economic Entomology have also been omitted because nearly all the technical workers have access to it. Periodical references to apiculture are not included.

BOOKS

Abderhalden, E.

Handbuch der biologischen arbeitsmethoden. Abt. IX. Methoden der erforschung der leistungen des tierischen organismus, Teil 7, hft.3 (Lfg.416) p.389-592, illus. Berlin & Wien, Urban & Schwarzenberg, 1933. Contents.- Zacher, F. Haltung und züchtung von vorratsschädlingen.

Appel, O.

Taschenatlas der gemüsekrankheiten. 24 col. pl. and a page of description with each. Berlin, Paul Parey, 1933. Lettered on cover: Pareys taschenatlanten II.

Australia. Commonwealth. Council for scientific and industrial research. Register of agricultural research in progress in Australia, 1933. 239p. (Multigraphed). Melbourne, H. J. Green, government printer, 1933. Partial contents.- VII. Insect and other pests of plants, p.138-165.

- Baeza Cuellar, I.
Estudio médico de los Culícidos hematófagos. 158p. illus. Madrid,
Talleres gráficos Herrera, 1933. Bibliografía, p.155-158.
- Bestimmungs-tabellen der europäischen Coleopteren. heft 111. 41p. Troppau,
Ed. und Reitter's nachf. Emmerich Reitter, 1932. Contents.- Zimmerman, A.
Monographie der paläarktischen Dytiscidae. IV. Hydrogorinae (4. teil).
- Corbett, G. H., and Miller, W. C. E.
A list of insects with their parasites and predators in Malaya, compiled...
from the records obtained in the Entomological laboratory 1920-1932.
15p. Kuala Lumpur, Printed at the Caxton Press, 1933. (Fed. Malay
States Dept. agr. [Bul.]. Sci. ser. no.13).
- Curran, C. H.
New North American Diptera. 11p. illus. New York, American museum of
natural history, Nov.6, 1933. (Amer. mus. novitates no.673).
- Curran, C. H.
The North American species of Anorostoma Loew (Helomyzidae; Diptera). Sp.
New York, American museum of natural history, Nov.25, 1933. (Amer. mus.
novitates no.676).
- Deplace, E.
Manuel d'arboriculture fruitière. Preface par J. M. Guillon. 450p. illus.
Paris, J. Lamarre, 1933. Partial contents.- Les ennemis des arbres
fruitiers I. Les insectes, p.141-171.
- Faes, H., Staehelin, M., and Bovey, P.
Les traitements effectués contre les parasites des arbres fruitiers, insectes
et champignons en 1930 et 1931. 17-77p. illus. Berne, Imprimerie
fédérative S. A. 1933. Tirage à part de l'Annuaire agricole de la Suisse
1933.
- Federated Malay States. Department of agriculture.
Reports of the research, economic and agricultural education branches for the
year 1932. 86p. Kuala Lumpur, Printed by Kyle, Palmer & Co., Ltd. 1933.
(Fed. Malay States Dept. agr. [Bul.] Gen. ser. no.14). p.53-53. Division
of entomology.
- Felt, E. P.
The Dutch elm disease (*Graphium ulmi*) and its control. 23p. illus.
Stamford, Conn., Bartlett tree research laboratories, 1933. At head of
title: Educational bulletin no.60.
- Gnadinger, C. B.
Pyrethrum flowers. 269p. illus. Minneapolis, Minn., McLaughlin Gormley
King Co., [c1933]. References, p.231-265.
- Gomez Clemente, F.
El *Cryptolaemus montrouzieri* Muls. parásito del *Pseudococcus citri* Risso
(Cotonet o algodón del naranjo). Ed.2. 59p. illus. Valencia,
Imprenta Hijo de F. Vives Mora, 1932. Bibliografía, p.53. At head
of title: Servicio agronómico nacional. Estación de fitopatología
agrícola de Levante Burjasot (Valencia).

Hertz, M.

Tutkimuksia tavallisesta männynneulospistiimisestä (*Lophyrus pini* L.) ja sen metsätaloudellisesta merkityksestä. 53p. illus. Helsinki 1933. References, p.44-45. German summary, p.44-45. At head of title: Communications Instituti Forestalis Fennicae 13.6.

India. Mysore state. Department of agriculture. Mysore coffee experiment station.

Bulletin no.9-11. Bangalore, Printed at the government press, 1933. Contents.- no.9. Mayne, W. W., Narasimhan, M. J., and Sreenivasan, K. H.. Spraying of coffee in South India. 68p. illus. Literature cited, p.67-69; no.10. Mayne, W. W. Annual report of the coffee scientific officer, 1932-33. 16p.; no.11. Mayne, W. W., and Subramanyam, V. K. Nematode worms in relation to the cockchafer and mealy bug problem in Coorg. 34p. illus. Literature cited, p.34.

Japan. Ministry of agriculture and forestry. Department of agriculture.

Scientific bulletin no.3. 51 p. illus. Tokyo, Japan, August 1933. Contents.- I. The diaspine Coccidae of Japan, VII; II. Key to genera of Diaspinae in Japan; III. An index to species of Coccids recorded in the Diaspine Coccidae of Japan, I-VII, by I. Kuwana.

Joy, W. H.

British beetles. Their homes and habits including chapters on how to identify, collect and study. 142p. illus. London & New York, Frederick Warne & Co., Ltd., [c1933].

Kenya Colony and protectorate. Department of agriculture.

Annual report 1932. 327p. Nairobi, Printed by the government printer, 1933. Partial contents.- Entomological section. Report of the Senior Entomologist [T. J. Anderson] et al, p.95-110.

Leng, C. W., and Mutchler, A. J.

Second and third supplements 1925 to 1932 (inclusive) to Catalogue of the Coleoptera of America, north of Mexico. 112p. Mount Vernon, N. Y., John D. Sherman, Jr., Dec.18, 1933.

Lindner, E.

Die fliegen der palaarktischen region. 1fg.74-75. Stuttgart, E. Schweizerbart'sche verlagsbuchhandlung, 1933. Contents.- 1fg.74, Band I (Handbuch), p.161-203, illus.; 1fg.75, Sack P. Nemestrinidae, p.1-42, illus.

Magnan, A., and Planiol, A.

Sur l'excédent de puissance des insectes. 26p. illus. Paris, Hermann et Cie, 1933. (Actualités scientifiques et industrielles, 66. Exposés de morphologie dynamique et de mécanique du mouvement, publiés sous la direction de M. A. Magnan...VI.).

Maidl, F.

Die lebensgewohnheiten und instinkte der staatenbildenden insekten. 1fg.6 (bogen 21-24), 321-384p. Wien, Fritz Wagner, 1933.

Fatras, R. H.

Preliminary notes on some entomogenous fungi in Egypt. 9p. illus. Cairo, Government press, 1932. References, p.8. (Egypt, Min. agr. Tech. and sci. serv. Bul.120). (Received, Dec.1933).

Palestine. Department of agriculture, Veterinary service.

The hornet and methods of combating it [*Vespa orientalis* Fab.] 6p. illus. Oct.5, 1933. (Palestine. Dept. agr. Vet. serv. Ser.VII. Poultry and bee keeping no.1).

Pic, M.

Mélanges exotico-entomologiques. Fasc.62. 36p. Moulins, "Les imprimeries réunies", Sept.8, 1933.

Rendl, G. A.

The way of the bee. Translated from the German by Patrick Kirwan, with a frontispiece by Edna Clarke Hall. 168p. New York, Henry Holt and company, 1933.

Ribbe, C. von

Anleitung zum sammeln in tropischen ländern. 214p. illus. Stuttgart, Alfred Kernen, [1931].

Sealas, U.

Viljelykskasvien tuho- ja hyötyhyönteiset sekä muut selkärangattomat eläimet. 676p. illus. Helsinki, Werner Söderström Osakeyhtiö, [1933]. [Bibliography], p.637-647. (Insects and other invertebrata injurious and beneficial to agriculture).

Schenkling, S. ed.

Coleopterorum catalogus. Pars 129,131. Berlin, W. Junk, 1933. Contents.- pars 129. Scheerpeltz, O. Staphylinidae VII: Supplementum I. p.[989]-1500, 1933; pars 131. Günther, K., and Zumpt, F. Curculionidae: Subfam. Tanyminae. 131p. 1933.

Schmiedeknecht, O.

Opuscula ichneumonologica. Supplement band. Neubearbeitungen, fasc. XVIII. Genus *Pezomachus* (Grav.) Fürst. Genus *Pimpla* F. p.67-110: Unterfamilie Pimplinae, p.1-36. Blankenburg i Thür, 1933.

Smith, K. H.

Recent advances in the study of plant viruses. With a foreword by F. T. Brooks. 423p. illus. London, J. & A. Churchill, 1933. References at ends of chapters. Glossary of terms used in virus studies, p.407-409.

Uvarov, B. P. comr.

The locust outbreak in Africa and Western Asia, 1925-31. 87p. London, Printed and published by his Majesty's Stationery office, 1933. Appendix 2. Bibliography of the literature on locusts and grasshoppers and on their control for the period 1926-31, p.32-35. At head of title: Economic advisory council committee on locust control.

Wheeler, W. H.

Three obscure genera of ponerine ants. 23p. illus. New York, American museum of natural history, Nov.6, 1933. (Amer. mus. novitates no.572). [*Cryptopone*, *Pseudocryptopone*, *Selenopone*].

Zolk, K.

Viljapuukarbolineumi tarvitamine varakevadel. Verwendung des obstbaumkarbolineums zu frühjarsbespritzungen in Estland. Sp. illus. Tartu, Aratrükk Kuukirjast, 1933. (Tartu Ülikooli entomoloogia-katsejaama teadaanded nr.24). Text in Estonian. German summary, p.8

PERIODICALS

Agricultural gazette of New South Wales (Sydney), v.44, 1933; pt.10, Oct.1; pt.11, Nov. 1.

Hely, P. C. Citrus red scale. Experiments with liquefied hydrocyanic acid gas fumigation, pt.11, p.823-826.

McCalloch, R. N. Jetting mixtures for the control of sheep blowfly attack.

Experiments carried out during 1932-33, pt.10, p.766-774.

Morgan, W. L. The pumpkin beetle. *Aulacophora hilaris* Boisd., pt.11, p.811-815, illus. Literature cited, p.815.

Fruit flies. The law compels you to control them, pt.11, p.819-822, illus.

Agriculture and live-stock in India (Calcutta), v.3, pt.5, Sept. 1933.

Narayanan, E. S. Biological control of insect pests and the possibility of utilising *Trichogramma minutum* Riley in India for the control of sugarcane borers, p.459-464. References, p.464.

American entomological society. Transactions, v.59, no.3, Sept. 1933.

Blaisdell, F. E. Studies in the Tenebrionidae, no.III, p.191-210; A monographic revision of the species of *Centronopus solier* inhabiting America north of Mexico (Coleoptera; Tenebrionidae), p.211-228, illus.

Braun, A. F. Pupal tracheation and imaginal venation in Microlepidoptera, p.229-268, illus. Literature cited, p.260-261.

American philosophical society. Proceedings (Philadelphia), v.73, no.1, 1934.

Calvert, P. P. The rates of growth, larval development and seasonal distribution of dragonflies of the genus *Anax* (Odonata: Aeshnidae), p.1-70, illus. Literature cited, p.64-68.

Annales des épiphyties (Paris), Année 18, no.6, Nov.-Dec. 1932; Année 19, nos.1 and 2, Jan.-Apr. 1933. (Received Nov.24, 1933)

Shabetai, C. R. Le traitement des graines de coton et de blé, par la chloropicrine, Année 18, no.6, p.398-413.

Zolotarevsky, B. N. Contribution à l'étude biologique du criquet migrateur (*Locusta migratoria capito* Sauss.) dans ses foyers permanents, Année 19, nos.1 and 2, p.47-142, illus. Bibliographie, p.140-142.

Annales des sciences naturelles. Zoologie (Paris), ser.10, v.16, no.2, 1933.

Janvier, H. Etude biologique de quelques Hyménoptères du Chili, p.209-[356], illus.

Annals and magazine of natural history (London), ser.10, v.12, no.69, Sept.1933.

Nixon, G. E. J. A further contribution to the study of South African Scelionidae (Insecta, Hymenoptera, Proctotrupoidea), p.288-304, illus. (To be continued.).

Annals of applied biology (London), v.20, no.4, Nov.1933.

- Jackson, D. J. Observations on the flight muscles of *Sitona* weevils, p.731-770, illus. References, p.768-769.
- Leach, R., and Snee, C. Gnarled stem canker of tea caused by the capsid bug (*Heloneltis bergrothi* Reut.), p.691-706, illus.
- Mansbridge, G. H. The breeding of *Ephestia kühniella* Zl. in large numbers for experimental work, p.771-774.
- Miles, H. W., Thomas, I., and Hey, G. L. On *Hoplocampa flava* L., the plum sawfly, p.722-730, illus. References, p.729.
- Thomas, I. On the bionomics and structure of some dipterous larvae infesting cereals and grasses. I. *Opomyza florum* Fabr., p.707-721, illus. References, p.721.
- Wilson, S. E. Changes in the cell contents of wood (Xylem parenchyma) and their relationships to the respiration of wood and its resistance to *Lyctus* attack and to fungal invasion, p.661-690, illus. References, p.690.

Annals of tropical medicine and parasitology (Liverpool), v.27, no.3, Oct.21,1933.

- Duke, H. L. Studies on the factors that may influence the transmission of the polymorphic trypanosomes by tsetse. IV. On the spontaneous disappearance of flagellates from an infected *Glossina*, p.431-435; V. On the effects of temperature, p.437-450. References, p.450; VI. On the duration of the biological cycle in *Glossina*, p.451-467. References, p.467.
- 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. II. A practical guide to the palaerctic species, p.397-430, illus. References, p.430; A new haematophagous species, of *Musca* from Malaya, p.477-480, illus.
- Shute, P. G. A simple method of obtaining eggs of mosquitoes, p.469-470, References, p.470.

Archiv für schiffs - und tropen-hygiene (Leipzig), v.37, no.10, Oct.1933.

- Lörincz, F., and Szentkiralyi, Z. Über das vorkommen von *Phlebotomus macedonicus* (Adler und Theodor, 1931) in Ungarn (Untersuchungen über Hunde-kala-azar), p.458-464, illus.
- Popow, P. P., and Golzowa, R. D. Zur kenntnis der wasserstoffionenkonzentration im darmkanale einiger blutsaugender Arthropoden, p.465-466.

Berlin. Zoologisches museum. Mitteilungen, v.19, Sept.29, 1933.

- Delkeskamp, K. Die arten der gattung *Encaustes* Lac. (Col., Erot.), p.188-193, illus.
- Hedicke, H. Beiträge zur systematik der gattung *Andrena* F. (Hym. Apid.), p.199-220.
- Hering, M. Die palaearktischen arten der gattung *Leucoptera* Hon. (*Cemiostoma* Zell.) (Lep. Cemiost.), p.64-79, illus.
- Kuntzen, E. Aus den verbreitungstafeln mitgefolgerte neue auffassungen über das system einiger Scarabaeiden-genera vornehmlich der paläarktischen region, p.453-474.
- Ramme, W. Revision der Phaneropterinen-gattung *Poecilimon* Fisch (Orth. Tettigon.), p.497-576, illus.

British Columbia. Entomological society. Proceedings (Vancouver), no.30, March 1933.

- Buckell, E. R. A convenient method of storing entomological specimens in alcohol, with particular reference to dragonflies, p.23-24.
- Denny, A. A. Materials used as canker paints in woolly aphis control, p.8-10.

- British Columbia. Entomological society. Proceedings (Vancouver) cont.
Glendenning, P. Notes on the life history of the entomological society of British Columbia, p.3-7.
Hearle, E. Notes on a serious outbreak of tick paralysis in cattle, p.11-16.
Jones, J. R. J. L. Some food plants of lepidopterous larvae, p.25-26.
Spencer, G. J. The identity of the carnation maggots of British Columbia, p.21-22.
Venables, E. P. Notes on the tarnished plant bug in the dry belt of British Columbia, p.17-20. (*Lygus pratensis* L.).
- Brooklyn entomological society. Bulletin (Lancaster, Penn.), v.28, no.4, Oct. 1933.
Engelhardt, G. P. The fall canker worm *Alsophila pometaria* Peck in Westchester County, N. Y., p.172-173.
- Bulletin agricole du Congo Belge (Bruxelles), v.24, no.2, June 1933.
Bredo, H. J. Note sur un insecte [*Monochamus scabiosus* Quod.] destructeur des *Mesopsis eminii* Engl., p.157-161, illus.
- Bydgoszcz, Poland. Państwowy instytut naukowy gospodarstwa wiejskiego-wydział chorób roślin. Prace, no.13, 1933.
Garbowski, L. Choroby wirusowe ziemniaków w okresie 1928-1932 r. Les maladies à virus des pommes de terre pendant la période 1928-1932, p.3-136, illus. Bibliography, p.130-135. Text in Polish.
Kóler, S. Przyczynek do znajomości fauny owadów ziemniaka. (A contribution toward the knowledge of the insects feeding on potato), p.137-139. Text in Polish.
- California university (Berkeley). Publications in entomology, v.6, no.7, 1933.
Sumner, E. C. The species of the termite genus *Zootermopsis* Emerson (= *Termopsis* Hagen), p.197-230, illus. Literature cited, p.220-223.
- Canadian entomologist (Orillia), v.65, no.11, Nov.1933.
Compere, E. The parasites of *Pseudococcus comstocki* Kw., p.243-247.
Knowlton, G. F. Ladybird beetles as predators of the potato psyllid, p.241-243. [*Hippodamia* spp. against *Paratrioza cockerelli* (Sulc.)].
Walley, G. S. New and little known Canadian parasitic Hymenoptera (Ichneumonidae), p.253-261.
- Chemistry and industry (London), v.52, no.43, Oct.27, 1933.
Woodman, R. M. Wetting, spreading, and emulsifying agents for use with spray fluids. VI. The effect of varying proportions of water and aid to dissolution on miscible oil formation and on the character of the emulsions subsequently formed from these miscible oils, p.351T-352T.
Woodman, R. M., and Barnoll, H. R. Wetting, spreading, and emulsifying agents for use with spray fluids. VII. The effect of gelatin on water losses from leaves, p.352T-354T.
- Entomologica Americana (Lancaster, Penn.), v.13, (new ser.), 1932; no.2, Sept.; no.3, Dec. (Received Nov. and Dec. 1933).
Bequaert, J. The nearctic social wasps of the subfamily Polybiinae (Hymenoptera: Vespidae), no.3, p.87-148, illus.
Keifer, H. H. Some Pacific Coast otiorhynchid weevil larvae, no.2, p.45-[85], illus.

Entomological news (Philadelphia), v.44, no.10, Dec.1933.

Fulton, B. B. Stridulating organs of female Tettigoniidae (Orthoptera), p.270-275, illus. Literature cited, p.275.

Haskin, J. R. Butterfly clouds, their origin and infrequent occurrence (Lepid.: Pieridae), p.255-257.

Entomologische rundschaue (Stuttgart), Jahrg.50, nr.24, Dec.15, 1933.

Kleine, B. Biologische mitteilungen über Erenthiden und beschreibung neuer gattungen und arten. (Schluss), p.322-327.

Entomologische zeitschrift (Frankfurt-a), Jahrg.47, 1933; no.16, Nov.22; no.17, Dec.8.

Michalk, O., and Riedel, M. P. Ueber wanzenfliegen (Phasiinae-Dipt. Tachinidae), no.13, p.128-130. (Fortsetzung folgt).

Wenzel, G. Die erfolgreiche zucht von Lomonia dumi L. (Lep.), no. 17, p.133-135.

Entomologisches nachrichtenblatt (Troppau), v.7, no.3, Oct. 1933.

Mařan, J. Beitrag zur kenntnis der gattung Marolia Muls. mit der beschreibung einer neuen species (Col. Serropalpidae), p.110-113.

Entomologisk tidskrift (Stockholm), Arg.54, häft 3-4, 1933.

Nordström, F. Om några misskända Athetis (Caradrina) arter, p.220-229, illus. Litteraturförteckning, p.226-227. German summary, p.228-229.

Entomologiske meddelelser (Köbenhavn), v.18, no.4, 1933.

Hansen, H. J. External organs in Dermaptera, especially Forficulidae, p.349-358. Text in English.

West, A. Tillæg og rettelser til fortegnelserne over de danske Coleoptera. II, p.359-400.

Entomologist (London), v.66, no.846, Nov.1933.

Cockerell, T. D. A. A new parasitic bee taken by Admiral Lynes in Morocco [Nomada lynesi, sp.n.], p.242.

Entomologist's monthly magazine (London), ser.3, v.19 (Whole ser. v.69), 1933; no.227 (whole ser. no.834), Nov.; no.228 (whole ser. no.835), Dec.

Collenette, C. L., and Carpenter, G. D. H. New species, and descriptions of larvae, of Lymantriidae from Uganda, no.227, p.258-264; no.228, p.265-270.

Cowley, J. The larvae of the European species of Gomphus Leach (Odonata), no.227, p.251-252, illus.

Entomologist's record (London), v.45, no.11, Nov.1933.

Sevastopulo, D. G. The early stages of Indian Coleoptera, p.148-149. (To be continued).

A few of the newly described forms of species [of Lepidoptera] that occur in the British Isles, p.152-153.

Farming in South Africa (Pretoria), v.8, no.90, Sept.1933.

Naude, T. J., and Allwright, W. J. Control of citrus thrips [Scirtothrips aurantii], p.337-338, 340.

Vries, A. H. de. A cheap and effective blowfly trap, p.351-353, illus.

Finland. Matäatieteellisten tutkimuslaitoksen Julkaisuja. Communicationes instituti forestalis fenniae 18. 1933. (Contents: 7 separately pages articles).

Hertz, H. Tutkimuksia Tavallisesta männynnolvas - Pistäisistä (Lophyrus pini L.) Ja senmetsätlandellisesta merkityksestä...1933. 45p. illus.

Kirjallisuutta, p.44-45. (no.186).

Hawaiian academy of science (Honolulu). Proceedings, 8th, 1933.
 Fullaway, D. T. A new *Thripoctenus* [*T. vinctus*] parasite from the Philippines, p.21-23.

Hawaiian entomological society (Honolulu). Proceedings, v.8, no.2, Nov. 1933.
 Chapman, R. N. The causes of fluctuations of populations of insects, p.279-297, illus. Bibliography, p.291-292.
 Felt, E. P. A hibiscus bud midge [*Contarinia maculipennis* n.sp.] new to Hawaii, p.247-248.
 Pemberton, C. E. Delayed incubation period among eggs of *Oxya chinensis* (Thun.) (Orthoptera), p.251-252; Introduction to Hawaii of Malayan parasites (Scelionidae) of the Chinese grasshopper *Oxya chinensis* (Thun.) with life history notes, p.253-264, illus. Literature cited, p.261-262.
 Perkins, R. C. L. New Hawaiian Coleoptera, with notes on some previously known species, p.265-272.
 Szecey, O. H. New Hawaiian Lepidoptera, p.299-304; Notes on *Tromatobia rufopectus* (Cross.), a recent immigrant in Hawaii (Hymenoptera), p.305-306.
 Van Duzec, H. C. New Dolichopodidae from the Hawaiian Islands (Diptera), with a preface by F. X. Williams, p.307-348.
 Woehler, W. H. An ant new to the fauna of the Hawaiian Islands, p.275-278, illus. [*Strumigenys* (*Cephaloxys*) *membranifera* Emery, *williamsi* var. nov.].

India. Punjab. Department of Agriculture. Seasonal notes, v.11, no.2, Oct.1933.
 Singh, A. Some suggestions for control of rice stem borer, [*Chilo simplex* Butt.], p.58-59.

Indian forest records (Entomology series) (Calcutta), v.18, 1933; pt.5, Sept.12; pt.8, Sept.15; v.19, pt.1, Oct.24,1933.
 Andrewes, H. E. Entomological investigations on the spike disease of sandal (8). Carabidae (Col.), v.18, pt.5. 2lp. illus.
 Chatterjee, N. C. Entomological investigations on the spike disease of sandal (11). The life-history and morphology of *Sarina nigroclypeata*, Mel. Fulgeridae (Homopt.), v.18, pt.8. 26p. illus. Literature consulted, p.23.
 Moulton, D. New Thysanoptera from India, v.19, pt.1. 6p.

Indian museum (Calcutta), Memoirs, v.9, no.6, Feb.1933.
 Fraser, F. C. A revision of the Fissilabioidae (Cordulegasteridae, Petaliidae and Petaluridae) (Order Odonata), Part II. Petaliidae and Petaluridae and Appendix to Part I, p.205-260, illus. Additional bibliography, p.259-260.

Insecta matsumurana (Sapporo, Japan), v.8, no.2, Oct. 1933.
 Matsumura, S. A list of Cymatophoridae in Japan, Korea and Formosa with a generic key, p.89-103, illus.
 Tamanuki, K. A list of the longicorn-beetle[s] from Saghalien, with the descriptions of one new species, one new variety and one new aberrant form, p.69-88, illus.

Internationale entomologische zeitschrift (Guben), Jahrg.27, 1933; no.28, Oct.22; no.32, Nov.22.
 Reisser, E. Beitrag zur Kenntnis der Axiidae (Lep. Heteroc.). Die biologie der *Axia* (*Cimelia*) *napoleona* Schaw. nebst uübersetzung der Chrétien'schen arbeit über *Cimelia margarita* Hb.; no.32, p.357-364, illus.
 Warnocke, G. Uübersicht über die bisher als myrmekophil bekannt gewordenen palaearktischen schmetterlingsraupen der familie der Lycaeninae (Lep. Rhop.), no.28, p.305-309, illus.

- Japan. Agricultural experiment station Government-General of Chosen. Journal (Suigen, Chosen), no.19, Oct.1933.
- Eguchi, M. Biological studies of *Diatraea shariinensis* Eguchi, p.1-20, illus. Text in Japanese. English summary, p.19.
- Nakayama, S., and Tabashi, I. Biological studies of *Anadastus fucosus* Lewis, p.21-32, illus. Text in Japanese. English summary, p.32.
- Nakayama, S., Masaki, J., and Tabashi, I. Notes on the life history and control measures of *Phaedon incertum*, Baly, p.33-48, illus. Text in Japanese. English summary, p.47-48.
- Journal of animal ecology (London), v.2, no.2, Nov.1933.
- Holdaway, F. G. Differential behaviour of *Lucilia sericata* Meig. and *Lucillia caesar* L. in natural environments, p.263-265.
- Jackson, C. H. N. On a method of marking tsetse flies, p.289-290; On the true density of tsetse-flies, p.204-209. References, p.209.
- Moss, J. E. The natural control of the cabbage caterpillars, *Pieris* spp., p.210-231, illus. References, p.231.
- Nash, T. A. M. A statistical analysis of the climatic factors influencing the density of tsetse flies, *Glossina morsitans* Westw., p.197-203, illus. References, p.203.
- Journal of entomology and zoology (Claremont), v.25, no.4, Dec.1933.
- Inglis, L. G. The succession of insects in tree trunks as shown by the collections from the various stages of decay, p.57-60.
- Journal of forestry (Washington, D. C.), v.31, no.7, Nov.1933.
- Friend, R. B., and Wilford, B. H. The spruce gall aphid as a forest pest, p.816-825. References, p.825.
- Journal of the department of agriculture of South Australia (Adelaide), v.37, no.3, Oct.16, 1933.
- Davidson, J. The "Lucerne flea" problem in South Australia, p.291-297, illus. [*Sminthurus viridis*].
- Koleopterologische mundschau (Wien), v.11, no.3, Oct.1, 1933.
- Zimmermann, A. Monographie der paläarktischen Dytisciden. IV. Hydroborinae (4.teil), p.135-193. [Fortsetzung... folgt].
- Lingnan science journal (Canton, China), v.12, no.4, Oct.16, 1933.
- Hoffmann, W. E. Additional data on the life history of *Lethocerus indicus* (Hemiptera, Belostomatidae), p.595-601, illus. References cited, p.600; Notes on *Cosmoscarta heros* F. with a description of the last nymphal stage (Homoptera, Cercopidae), p.605-607, illus.
- Kwai-Shang, C. A biological study of an orange-brown galerucid pest of cucurbits, p.577-592. [Probably *Rhaphidopalpi* (*Aulacophora*) *femoralis* Motsch.].
- Liu, G. Catalogue of the phytophagous beetles of China, p.473-488. (To be continued).
- Waitzinger, L. A. Effect of various illuminations upon the silkworm (*Bombyx mori* L.) during its growth, p.507-540. Bibliography, p.538-540.
- London. Royal society. Proceedings, Ser.B, v.113, no.B785, Sept.1, 1933.
- Storey, E. E. Investigations of the mechanism of the transmission of plant viruses by insect vectors. - I, p.463-485, illus. References, p.485.

- Mexico. Secretaria de agricultura y fomento. Comision nacional de irrigacion. Irrigacion en Mexico, v.6, no.3, Sept.1933.
Dampf, A. Estudio sobre el oviscapto de las moscas de la fruta (*Anastrepha* spp.) de Mexico, p.253-265, illus.
- Münchener entomologische Gesellschaft. Mitteilungen (Munich), v.23, no.2, 1933.
Osthelder, L., and Pfeiffer, E. Lepidopterenfauna von Marasch in türkisch Nordsyrien. Noctuidae, p.45-102. (Fortsetzung folgt).
- Museum zoologicum Polonicum. Warsaw. Annales, v.10, no. 2, May 27, 1933. (Rec. Nov.1933).
Nast, J. Beiträge zur morphologie und geographischen verbreitung der mittel-europäischen und mediterranen arten aus der subfamilie Cercopinae (Homoptera, Cercopidae), 32p. illus. Literaturverzeichnis, p.28-30.
- Nachrichtenblatt für den Deutschen pflanzenschutzdienst (Berlin-Dahlem), Jahrg.13, 1933; no.9, Sept.; no.11, Nov.
Knoll, M. Bericht über die maikäferkämpfung im werderschen und glindower obstbaugebiet im jahre 1933, no.11, p.11-12, illus.
Küssner, W. Zur biologie und bekämpfung der maulwurfsgrille, no.9, p.74-75.
Müller, K. O. Über die biotypen von *Phytophthora infestans* und ihre geographische verbreitung in Deutschland, no.11, p.91-92, illus. Literatur, p.92.
- Natural history (New York), v.33, no.6, Nov.-Dec.1933.
Lutz, F. E. "Invisible" colors of flowers and butterflies, p.565-576, illus.
- New Zealand journal of agriculture (Wellington), v.47, no.3, Sept. 20, 1933.
Cunningham, G. H. Orchard sprays in New Zealand. VI. The nicotine series, p.154-160. Literature cited, p.159-160.
Muggeridge, J. The white butterfly (*Pieris rapae*) and its parasites. A record of recent control work, p.135-142, illus. References, p.142.
Paynter, L. The orchard. Seasonal spraying, p.189-191.
- New Zealand journal of science and technology (Wellington), v.15, no.3, Nov.1933.
Clark, P. J. The determination of the distribution of particle sizes in lead-arsenate spray, p.183-187; The horntail borer [*Sirex noctilio*] and its fungal association, p.188-190.
- Novitates zoologicae (London), v.39, no.1, Oct.23, 1933.
Collenette, C. L. Notes on the genus *Lymantria* HBN. (Lymantridae), with descriptions of new species, p.21-33.
Möss, A. M. Some generalizations on *Adelpha*, a neotropical genus of nymphalid butterflies of the group *Limenitidi*, p.12-20. (Food plants, p.19-20).
Prout, L. B. On the geometrid genus *Phrygionis* Eb., p.1-9.
- Peking natural history bulletin (Peiping), v.8, pt.1, Sept.1933.
Liu, G. Annotations & synopsis of the genera of the first ten families of Chinese Coleoptera, p.12-38. Bibliography, p.38.
Tan, C. C. Notes on the biology of the lady-bird beetle, *Ptychanotis axyridis* Pall., p.9-18, illus. Bibliography, p.18.
- Phytopathology (Lancaster, Penn.), v.23, no.11, Nov. 1933.
Rosen, H. R. Influence of spray applications on air temperatures surrounding sprayed potato plants, p.912-916. Literature cited, p.916.

- Portici. Laboratorio di zoologia generale e agraria del R. Istituto superiore agrario. Bollettino, v.27, 1932-33.
- Barigozzi, C. L'unicità della specie "*Gryllotalpa gryllotalpa* L." e il suo ciclo biologico, p.145-155. Bibliografia, p.155.
- Candura, G. S. Contributo alla conoscenza morfologica e biologica dello Struggigiano (*Tenebroides mauritanicus* L.), p.1-56, illus. Bibliografia, p.49-56.
- Silvestri, F. Quarto contributo alla conoscenza dei Campodeidae (*Thysanura*) del Nord America, p.156-204, illus.; Primo contributo alla conoscenza dei Campodeidae dell'Africa Occidentale, p.205-218, illus.; Nuovo contributo alla conoscenza dei Tisamuri del Messico, p.127-144, illus.
- Villeneuve de Janti, J. Description de *Aplomyiopsis galerucellae* n. gen., n.sp. (Tachinidae), parasite de *Galerucella luteola* (F. Müll.) en Amérique du Nord, p.125-126.
- Psyche (Cambridge, Mass.), v.40, no.3, Sept.1933.
- Bequaert, J. Notes on Hippoboscidae. 7. A tentative key to the species of *Olfersia* Wiedemann (*Feronia* Leach; *Pseudolfersia* Coquillett), p.101-105.
- Puerto Rico. Department of agriculture. Journal, v.17, no.3, July 1933.
- Sein, F. *Anastrepha* (Trypetidae, Diptera) fruit flies in Puerto Rico, p.183-196, illus.
- Wolcott, G. N. The extent to which the practice of not burning cane trash has been adopted in Puerto Rico, p.197-198; A year's experience with the cottony cushion scale [*Icerya purchasi* Maskell] in Puerto Rico, p.199-221, illus. Bibliography, p.220-221; Recent experiments in the control of two Puerto Rican ants [*Solenopsis geminata* F. and *Myrmelachista ambigua* ramulorum Wheeler], p.223-239. Bibliography, p.238-239; The lima bean pod-borer caterpillars of Puerto Rico, p.241-255, illus.; The larval period of *Diaprepes abbreviatus* L., p.257-264, illus.; The changed status of some insect pests in Puerto Rico, p.265-270.
- Queensland agricultural journal (Brisbane), v.40, 1933; pt.4, Oct.1; pt.5, Nov.1.
- Atherton, D. O. The tomato "green fly" association, pt.4, p.291-297. [*Cryptopeltis tenuis* Reut., and *Empoasca* sp.].
- Jarvis, E. Cane pest combat and control, pt.4, p.280-281; pt.5, p.374-375, illus.; Fruit fly control in the Stanthorpe District, pt.4, p.282-283.
- Smith, J. H. The tobacco beetle [*Lasioderma serricornis* F.] pt.4, p.288-290, illus.
- Strong, T. H. The brown cutworm [*Euxoa radians* Guen.] as a cotton pest, pt.5, p.398-400.
- Summerville, W. A. T. Two insect enemies of nut grass, pt.4, p.284-287. (*Antonina australis* Green and an unnamed species of mealy bug); Maori mite control, pt.5, p.379-381.
- Records of the Indian museum (Calcutta), v.35, 1933; pt.1, March; pt.2, June.
- Fraser, F. C. A revision of the genus *Orolestes* (order Odonata), pt.2, p.175-182, illus.
- Mehta, D. R. Comparative morphology of the male genitalia in Lepidoptera, pt.2, p.197-266, illus. Literature, p.262-266.
- Tonnoir, A. L. Descriptions of remarkable Indian Psychodidae and their early stages, with a theory of the evolution of the ventral suckers of dipterous larvae, pt. 1, p.53-75, illus. References, p.74-75.

- Revista de entomologia (Rio de Janeiro, Brasil), v.3, no.3, Sept.25,1933.
Costa Lima, A. da. Notas sobre trypetidas brasileiras (1), p.382-384, illus.
Kröber, O. Das subgenus *Neotabanus* der Tabanidengattung *Tabanus* s. lat.,
p.337-367.
Monte, O. *Hypsipyla grandella* Zeller, uma praga da silvicultura (Lep. Phycitidae), p.281-285.
Moulton, D. The Thysanoptera of South America (IV), p.385-419, illus. (To be continued)
Prado, A. Uma nova pulga do gambá [*Rhopalopsyllus agilis*, sp.n.] (Siphonaptera Pulicidae), p.322-325, illus.
- Revue de zoologie agricole et appliquée (Bordeaux), Année 52, 1933; no.5, May; no.6, June; no.7, July. (Rec. Nov. and Dec.1933).
Dufrenoy, J. Notes sur le traitement des arbres fruitiers aux Etats-Unis, no.5, p.77-89, illus.
Feytaud, J. La courtilière (*Gryllotalpa gryllotalpa* L.), no.6, p.99-108, illus.; no.7, p.109-122, illus. (a suivre).
- Revue Suisse de zoologie (Genève), v.40, fasc.4, (Nos.31-35) Dec. 1933.
Ferrière, C. Note sur les parasites de *Lyperosia exigua* de Meij., p.637-643, illus.
Handschin, E. Notizen über die biologie der von Dr. Ferrière bestimmten *Lyperosia*-parasiten, p.643-644.
- Rhodesia agricultural journal (Salisbury), v.30, no.10, Oct. 1933.
Jack, R. W. The locust invasion of Southern Rhodesia, 1932-33, p.844-859, map; Locust invasion, 1933. Southern Rhodesia. Monthly report no. 9, August, 1933, p.861-862.
Jack, R. W., and Mossop, M. C. Notes on the biology and control of the red locust in Southern Rhodesia, 1932-1933. Part I-II, p.791-837, illus.
- Royal Canadian institute (Toronto), Transactions no.41 (v.19, pt.1), May 1933.
James, H. G. Collembola of the Toronto region with notes on the biology of *Isotoma palustris* Mueller, p.77-116, illus.
Wallis, J. B. Revision of the North American species (North of Mexico) of the genus *Haliphus*, Latreille, p.1-76, illus.
- Scientific agriculture (Ottawa), v.14, no.1, Sept.1933.
Swaien, J. M. The relation of insect activities to forest development as exemplified in the forests of eastern North America, p.8-31. Literature cited, p.31.
- Società Veneziana di storia naturale. Bollettino (Venezia), v.1, no.2-3, Feb.25, 1933.
Soika, A. G. Studi sulle larve degli imenotteri (3a nota) *Eumenes pomiformis* (Rossi), p.21-26.
- Société de biologie (Paris). Comptes rendus, v.114, no.29, 1933.
Beaurepaire Aragao, H. de. Transmission de la fièvre jaune par les tiques, p.137-139.
- Société de pathologie exotique (Paris). Bulletins, v.26, 1933; no.7, July 12; no.8, Oct.11.
Colas-Belcour, J. Contribution à l'étude de la biologie de l'*Argas vespertilionis* Latr., no.7, p.937-940.
Marzinovsky, E. A propos de la moustiquaire, no.8, p.1018-1020.

- Société de pathologie exotique (Paris). Bulletins continued
Roubaud, E., and Colas-Belcour, J. Observations sur la biologie de
l'*Anopheles plumbeus*. II.-L'Asthénobiose cyclique hivernale, no.7,
p.965-972. Bibliographie, p.972.
Toumanoff, C. Recherches sur la fréquence saisonnière de diverses espèces
anophéliennes au Tonkin (Bassin du Fleuve-Rouge), 3^e note: A. (*Neocellia*)
maculatus (Théo.), no.8, p.1020-1022.
- Société entomologique de Belgique. Bulletin et annales (Bruxelles), v.73, no.6-7,
July 28, 1933.
Lestage, J. A. Notes trichoptérologiques. XIII.-Quelques remarques sur
l'écologie et la dispersion en Belgique de l'*Encicla pusilla* Burm.,
p.200-206.
Villemueve de Janti, J. Myodaires supérieurs asiatiques nouveaux, p.195-199.
- Société entomologique de France. (Paris). Annales, v.102, no.3, 1933.
Rondou, J. P. Catalogues des lépidoptères des Pyrénées (suite), p.337-316.
(A suivre).
- Société entomologique de France. (Paris). Bulletin, v.38, no.15-17, 1933.
Antoine, M. Corrélation entre le facteur altitude et la variation de
certains caractères somatiques chez la *Cicindela coquereli* Frm. [Col.
Cicindelidae], no.15, p.230-234.
Chen, S. H. Tableaux des espèces tonkinoises appartenant aux genres *Hyphasoma*
Jacoby et *Sebaetha* Baly [Col. Chrysomelidae], no.17, p.273-278.
Cousin, G. La diptrose chez *Lucilia bufonivora* Meig., no.16, p.261-264.
Bibliographie, p.264.
Goux, L. Notes sur les Coccides [Hem.] de la France (6^e note). Nouvelles
observations sur les Pseudococcines, no.15, p.234-236.
Hein de Balsac, H. Note sur le comportement de *Lucilia bufonivora* Moniez,
no.15, p.236-239. Bibliographie, p.239.
- Société Lépidoptérologique de Genève. Bulletin, v.7, no.2, Sept.1933.
Gallay, H. Appareil de microphotographie nouveau, p.67-70, illus.
Romieux, J. Notes biologiques sur une Lycénide et une Hespéride du Brésil,
p.71-80, illus.
- Victorian naturalist (Melbourne), v.50, no.6, Oct.1933.
French, C. New records of plants attacked by native insects. No.9.-The cherry
borer moth (*Moraga unipunctata* Don.), p.147. (As a fruit pest).
- Washington. Entomological society. Proceedings, v.35, no.7, Oct.1933.
Shannon, R. C. Anophelines of the Amazon Valley, p.117-143, illus. List
of references, p.140-143.
- Zeitschrift für wissenschaftliche biologie. Abt.A. Zeitschrift für morphologie und
ökologie der tiere (Berlin), v.27, no.3, Sept.22, 1933.
Pukowski, E. Ökologische untersuchungen an *Necrophorus* F., p.518-586, illus.
Literaturverzeichnis, p.585-586.
Schlüter, J. Die entwicklung der flügel bei der schlupfwespe *Habrobracon*
juglandis Ash. p.488-517, illus. Literaturverzeichnis, p.516-517.
Zarapkin, S. R. Über gerichtete variabilität bei Coccinelliden. IV. Variation
der fleckengrösse bei einigen *Erylachna*-populationen, p.476-487, illus.
Literaturverzeichnis, p.487.