

BULLETIN
OF
ENTOMOLOGICAL RESEARCH.

ISSUED BY THE IMPERIAL
INSTITUTE OF ENTOMOLOGY.

EDITOR : THE DIRECTOR.

VOL. XXIV.

LONDON :
THE IMPERIAL INSTITUTE OF ENTOMOLOGY,
41, QUEEN'S GATE, S.W.7.
1933.

(1)

IMPERIAL INSTITUTE OF ENTOMOLOGY.

Executive Council.

Sir CHARLES J. HOWELL THOMAS, K.C.B., K.C.M.G., *Chairman*, United Kingdom.

Colonel GEORGE P. VANIER, D.S.O., M.C., Canada.

F. L. McDOUGALL, C.M.G., Australia.

NEVILL L. WRIGHT, F.I.C., New Zealand.

G. W. KLERCK, South Africa.

J. M. ADAMS, F.R.C.Sc. (I), Irish Free State.

Sir BHUPENDRA NATH MITRA, K.C.S.I., K.C.I.E., C.B.E., India.

B. F. WRIGHT, Southern Rhodesia.

R. V. VERNON, C.B., Colonies, Protectorates and Mandated Territories.

Sir DAVID CHADWICK, C.S.I., C.I.E., *Secretary*.

Director.

Sir GUY A. K. MARSHALL, C.M.G., F.R.S.

Assistant Director.

Dr. S. A. NEAVE, O.B.E.

Assistant Director and Superintendent of Farnham House Laboratory.

Dr. W. R. THOMPSON, F.R.S.

Head Office—British Museum (Natural History), Cromwell Road, London, S.W.7.

Publication Office—41, Queen's Gate, London, S.W.7.

CONTENTS.

ORIGINAL ARTICLES.

	PAGE
ANDREWARTHA, H. G. The Bionomics of <i>Otiorrhynchus cribricollis</i> , Gyll. (<i>illustrated</i>) ...	373
BARNES, H. F. Gall Midges (Cecidomyiidae) as Enemies of Mites	215
CARMICHAEL, J. The Virus of Rinderpest and its Relation to <i>Glossina morsitans</i> , Westw.	337
CHORLEY, C. W. Traps for Tsetse-flies of the " Crinoline " and " Ventilator " Forms. With a Prefatory Note by C. F. M. Swynnerton (<i>illustrated</i>) ...	315
DAVIDSON, J. & SWAN, D. C. A Method for obtaining Samples of the Population of Collembola (Symphyleona) in Pastures (<i>illustrated</i>)	351
EVANS, A. C. Comparative Observations on the Morphology and Biology of some Hymenopterous Parasites of Carrion-infesting Diptera (<i>illus- trated</i>)	385
EVANS, J. W. A simple Method for collecting Thrips and other Insects from Blossom (<i>illustrated</i>)	349
GIBBINS, E. G. Eggs of some Ethiopian <i>Anopheles</i> Mosquitos (<i>illustrated</i>)	257
GOLOVYANKO, Z. S. Results obtained with Polychlorides and Paradichlorobenzene against the Larvae of <i>Polyphylla fullo</i> , L., and <i>Melolontha hippo- castani</i> , F. (<i>illustrated</i>)	531
HAMLIN-HARRIS, R. Some Ecological Factors involved in the Dispersal of Mosquitos in Queensland (<i>illustrated</i>)	229
HOLDAWAY, F. G. The Synonymy and Distribution of <i>Chrysomyia rufifacies</i> (Macq.), an Australian Sheep Blowfly (<i>illustrated</i>)	549
JACKSON, C. H. N. The Causes and Implications of Hunger in Tsetse-flies (<i>illustrated</i>)	443
JAMES, H. C. The Biology and Control of <i>Asterolecanium coffeae</i> , Newst., the Fringed Scale of Coffee, in Kenya Colony (<i>illustrated</i>)	421
Taxonomic Notes on the Coffee Mealybugs of Kenya Colony (<i>illus- trated</i>)	429
KERR, J. A. Studies on the Abundance, Distribution and Feeding Habits of some West African Mosquitos	493
KUMM, H. W. Mosquitos breeding in Bromeliads at Bahia, Brazil (<i>illustrated</i>) ...	561
LE PELLEY, R. H. Field Spraying with undiluted Paraffin Extracts of Pyrethrum against <i>Anesthia</i> and <i>Lygus</i> on Coffee in Kenya (<i>illustrated</i>) ...	1
LEVER, R. J. A. W. Status of Economic Entomology in the British Solomon Islands ...	253
LEWIS, D. J. Observations on <i>Aedes aegypti</i> , L. (Dipt. Culic.) under controlled Atmospheric Conditions (<i>illustrated</i>)	363

CONTENTS.

	PAGE
LEWIS, E. A.	
Observations on some Diptera and Myiasis in Kenya Colony ...	263
LLOYD, LI., LESTER, H. M. O., TAYLOR, A. W. & THORNEWILL, A. S.	
Experiments in the Control of Tsetse-fly.—Part II (<i>illustrated</i>) ...	233
MACKERRAS, M. J.	
Observations on the Life-histories, Nutritional Requirements and Fecundity of Blowflies	353
MELLANBY, K.	
The Influence of Temperature and Humidity on the Pupation of <i>Xenopsylla cheopis</i> (<i>illustrated</i>)	197
MOREAU, R. E.	
The Food of the Red-billed Oxpecker, <i>Buphagus erythrorhynchus</i> (Stanley)	325
NASH, T. A. M.	
The Ecology of <i>Glossina morsitans</i> , Westw., and two possible Methods for its Destruction.—Parts I & II (<i>illustrated</i>) ...	107, 163
NEWTON, H. C. F.	
On the Biology of some Species of <i>Longitarsus</i> (Col., Chrysom.) living on Ragwort (<i>illustrated</i>)	511
PARKIN, E. A.	
The Larvae of some Wood-boring Anobiidae (Coleoptera) (<i>illustrated</i>)	33
PHILIP, C. B.	
Mosquito Species breeding in "Test" Water Containers in West Africa	483
POTTS, W. H.	
Observations on <i>Glossina morsitans</i> , Westw., in East Africa ...	293
SALITERNIK, Z.	
The Breeding of <i>Anopheles mauritanus</i> in Palestine	343
SIMMONDS, H. W.	
The Biological Control of the Weed, <i>Clidemia hirta</i> , D. Don., in Fiji	345
SWYNNERTON, C. F. M.	
Some Traps for Tsetse-flies (<i>illustrated</i>)	69
THEODOR, O.	
Some African Sandflies (<i>illustrated</i>)	537
THORPE, W. H.	
Notes on the Natural Control of <i>Coleophora laricella</i> , the Larch Case-bearer. With an Appendix by C. Ferrière (<i>illustrated</i>)	271
TRÄGÅRDH, I.	
Methods of Automatic Collecting for Studying the Fauna of the Soil (<i>illustrated</i>)	203
UVAROV, B. P.	
Ecology of the Moroccan Locust in Iraq and Syria and the Prevention of its Outbreaks (<i>illustrated</i>)	407
Preliminary Experiments on the Annual Cycle of the Red Locust (<i>Nomadacris septemfasciata</i> , Serv.)	419
WHITFIELD, F. G. S.	
The Bionomics and Control of <i>Dysdercus</i> (Hemiptera) in the Sudan (<i>illustrated</i>)	301
WOOD, A. H.	
Notes on some Dipterous Parasites of <i>Schistocerca</i> and <i>Locusta</i> in the Sudan (<i>illustrated</i>)	521

MISCELLANEOUS.

Collections received	159, 321, 439, 575
-----------------------------------	--------------------

ERRATA.

- Page 68, line 4, for " Part 41 " read " Part 48 "
- „ 77, line 13, for " 13·68 " read " 16·46 " and for " 4·28 " read " 4·53 "
- „ 77, 9 lines from end, for " fourth " read " both species "
- „ 90, 6 lines from end, for " upward " read " up-wind "
- „ 218, line 23, for " *Gymnocladius* " read " *Gymnocladus* "
- „ 219, 6 lines from end and p. 226, line 24, for " *Aphanogamus* " read " *Aphanogmus* "
- „ 256, line 1, for " *Stachtarpheta* " read " *Stachytarpheta* "
- „ 257, 11 lines from end, for " T. W. Chorley " read " C. W. Chorley "
- „ 277, line 5, for " *Onix* " read " *Ornix* "
- „ 296, line 25, for " 296 mg." read " 29·6 mg." and " 132 mg." read " 13·2 mg."
- „ 296, line 29, for " some " read " one "
- „ 344, line 2, for " 2° " read " 21° "
- „ 346, 14 lines from end, for " *haptachalca* " read " *heptachalca* "
- „ 361, lines 37, 39, 42, 44, 48, for " cl " read " ci "
- „ 435, line 38, for " *guyava* " read " *guayava* "
- „ 511, 4 lines from end and page 515, 12 lines from end, for " *Helianthemum* " read " *Helianthus* "
- „ 531, line 10, for " 15,935 " read " 19,535 "

DATES OF PUBLICATION IN PARTS.

Part I	pp. 1-162	...	6 April 1933.
Part II	pp. 163-323	...	7 July, 1933.
Part III	pp. 325-441	...	29 September, 1933.
Part IV	pp. 443-577	...	15 December 1933.