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.

Andrewartha, H. G. The Bionomics of Otiorrhynchus cribricollis, Gyll. (illustrated)	PAGE 373
	3/3
Barnes, H. F. Gall Midges (Cecidomyidae) as Enemies of Mites	215
CARMICHAEL, J CARMICHAEL, J.	213
The Virus of Rinderpest and its Relation to Glossina morsitans,	
^	337
Westw	337
CHORLEY, C. W. Traps for Tsetse-flies of the "Crinoline" and "Ventilator" Forms.	
With a Prefatory Note by C. F. M. Swynnerton (illustrated)	315
	313
DAVIDSON, J. & SWAN, D. C. A Method for obtaining Samples of the Population of Collembola	
	351
(Symphypleona) in Pastures (illustrated)	331
Evans, A. C.	
Comparative Observations on the Morphology and Biology of some	
Hymenopterous Parasites of Carrion-infesting Diptera (illus-	385
trated)	300
Evans, J. W.	
A simple Method for collecting Thrips and other Insects from	349
Blossom (illustrated)	343
GIBBINS, E. G.	257
Eggs of some Ethiopian Anopheles Mosquitos (illustrated)	257
GOLOVYANKO, Z. S. Populse obtained with Delumblerides and Demodishlershappene	
Results obtained with Polychlorides and Paradichlorobenzene	
against the Larvae of Polyphylla fullo, L., and Melolontha hippo-	501
castani, F. (illustrated)	531
HAMLYN-HARRIS, R.	
Some Ecological Factors involved in the Dispersal of Mosquitos in	229
Queensland (illustrated)	229
Holdaway, F. G.	
The Synonymy and Distribution of Chrysomyia rufifacies (Macq.), an	549
Australian Sheep Blowfly (illustrated)	549
JACKSON, C. H. N. The Course and Invalinations of Human in Testas flies (illustrated)	449
The Causes and Implications of Hunger in Tsetse-flies (illustrated)	443
JAMES, H. C. The Biology and Control of Asterolecanium coffeae, Newst., the	
	421
Fringed Scale of Coffee, in Kenya Colony (illustrated)	421
Taxonomic Notes on the Coffee Mealybugs of Kenya Colony (illus-	429
trated)	429
Studies on the Abundance, Distribution and Feeding Habits of	
	493
some West African Mosquitos Kumm, H. W.	453
Mosquitos breeding in Bromeliads at Bahia, Brazil (illustrated)	561
	361
LE Pelley, R. H. Field Spraying with undiluted Paraffin Extracts of Pyrethrum	
	1
against Antestia and Lygus on Coffee in Kenya (illustrated)	1
Lever, R. J. A. W. Status of Economic Entomology in the British Solomon Islands	050
	253
LEWIS, D. J. Observations on Aidas aggraphic I (Dipt. Culia) under controlled.	
Observations on Aëdes aegypti, L. (Dipt. Culic.) under controlled	0.00
Atmospheric Conditions (illustrated)	363

CONTENTS.

Lewis, E. A.	PAGE
Observations on some Diptera and Myiasis in Kenya Colony	263
LLOYD, Ll., LESTER, H. M. O., TAYLOR, A. W. & THORNEWILL, A. S.	
Experiments in the Control of Tsetse-fly.—Part II (illustrated)	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	
Xenopsylla cheopis (illustrated)	197
Moreau, R. E.	
The Food of the Red-billed Oxpecker, Buphagus erythrorhynchus	
(Stanley)	325
Nash, T. A. M.	
The Ecology of Glossina morsitans, Westw., and two possible	
Methods for its Destruction.—Parts I & II (illustrated) 107	. 163
Newton, H. C. F.	,
On the Biology of some Species of Longitarsus (Col., Chrysom.)	
living on Ragwort (illustrated)	511
PARKIN, E. A.	
The Larvae of some Wood-boring Anobiidae (Coleoptera) (illus-	
trated)	33
PHILIP, C. B.	00
Mosquito Species breeding in "Test" Water Containers in West	
A r •	483
Potts, W. H.	100
Observations on Glossina morsitans, Westw., in East Africa	293
SALITERNIK, Z.	200
The Breeding of Anopheles mauritianus in Palestine	343
Simmonds, H. W.	040
The Biological Control of the Weed, Clidemia hirta, D. Don., in Fiji	345
Swynnerton, C. F. M.	040
Some Traps for Tsetse-flies (illustrated)	69
THEODOR, O THEODOR, O.	0.5
Some African Sandflies (illustrated)	537
THORPE, W. H.	507
Notes on the Natural Control of <i>Coleophora laricella</i> , the Larch Case-	
1 1111 A 11 1 C TO 13 (17)	271
	2/1
TRÄGÅRDH, I. Methods of Automatic Collecting for Studying the Fauna of the Soil	
	203
(illustrated)	200
Uvarov, B. P. Toology of the Managem Legistic Iron and Source and the Provention	
Ecology of the Moroccan Locust in Iraq and Syria and the Prevention	407
of its Outbreaks (illustrated) Preliminary Experiments on the Annual Cycle of the Red Locust	407
	410
(Nomadacris septemfasciata, Serv.)	419
WHITFIELD, F. G. S.	
The Bionomics and Control of <i>Dysdercus</i> (Hemiptera) in the Sudan	201
(illustrated)	301
Wood, A. H.	
Notes on some Dipterous Parasites of Schistocerca and Locusta in	501
the Sudan (illustrated)	521
MICOPALATRONIC	
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.