

BULLETIN
OF
ENTOMOLOGICAL RESEARCH.

ISSUED BY THE COMMONWEALTH
INSTITUTE OF ENTOMOLOGY.

EDITOR : THE DIRECTOR.

VOL. 39.

LONDON :
COMMONWEALTH INSTITUTE OF ENTOMOLOGY,
41, QUEEN'S GATE, S.W.7.
1949.

Commonwealth Agricultural Bureaux.

Executive Council.

Sir PATRICK R. LAIRD, C.B., F.R.S.E., *Chairman*, United Kingdom.
A. V. HUBBARD, *Vice-Chairman*, Southern Rhodesia.
Lieutenant-Colonel J. G. ROBERTSON, Canada.
J. E. CUMMINS, Australia.
E. MARSDEN, C.M.G., C.B.E., M.C., D.Sc., F.R.S., New Zealand.
A. P. VAN DER POST, Union of South Africa.
J. W. DULANTY, C.B., C.B.E., High Commissioner, Eire.
A. K. CHANDA, O.B.E., Officiating Deputy High Commissioner, India.
The High Commissioner for Pakistan.
Sir OLIVER GOONETILLEKE, K.C.M.G., K.B.E., High Commissioner, Ceylon.
Colonel W. F. RENDELL, C.B.E., Newfoundland.
J. G. HIBBERT, M.C., Colonies, Protectorates and Mandated Territories.
Sir HERBERT HOWARD (*Secretary*), 2, Queen Anne's Gate Buildings, London, S.W.1.

COMMONWEALTH INSTITUTE OF ENTOMOLOGY.

Director and Editor.

W. J. HALL, M.C., D.Sc.

Assistant Director.

T. H. C. TAYLOR, D.Sc.

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

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

CONTENTS.

	PAGE
ARTHUR, D. R.	
Some Aspects of the Ecology of the Tick, <i>Ixodes ricinus</i> , L., in Wales (<i>illustrated</i>)	321
BEAMENT, J. W. L.	
The Penetration of the Insect Egg-shells. I.—Penetration of the Chorion of <i>Rhodnius prolixus</i> Stål (<i>illustrated</i>)	359
BEAMENT, J. W. L.	
The Penetration of Insect Egg-shells. II.—The Properties and Permeability of Sub-chorial Membranes during Development of <i>Rhodnius prolixus</i> Stål (<i>illustrated</i>)	467
BORKHSENIUS, N. S.	
Notes on <i>Pseudococcus comstocki</i> (Kuw.) and some allied Species (Homoptera : Coccoidea), with Descriptions of three new Species	417
CALLAN, E. McC.	
Effect of Defoliation on Reproduction of <i>Cordia macrostachya</i> ...	213
COCKINGS, K. L.	
Successful Methods of trapping <i>Trombicula</i> (Acarina) with Notes on rearing <i>T. deliensis</i> , Walch (<i>illustrated</i>)	281
DAKSHINAMURTY, S.	
The common House-fly, <i>Musca domestica</i> , L., and its Behaviour to Temperature and Humidity (<i>illustrated</i>)	339
EVANS, J. W.	
A new Species of <i>Erythroneura</i> from Fiji (Homoptera, Jassidae) (<i>illustrated</i>)	131
GARNHAM, P. C. C.	
Acrodendrophilic Mosquitos of the Langata Forest, Kenya... ..	489
HADDOW, A. J.	
The Mosquitoes of Bwamba County, Uganda. VI.—Mosquito breeding in Plant Axils (<i>illustrated</i>)	185
HADJINIKOLAU, J. & BUSVINE, J. R.	
Toxicity of Limewash containing DDT or "Gammexane" to Mosquitos (<i>Aedes aegypti</i> , L.) (<i>illustrated</i>)	179
HAFEZ, M.	
A simple Method for breeding the House-fly, <i>Musca domestica</i> , L., in the Laboratory	385

CONTENTS.

	PAGE
HINTON, H. E.	
A Synopsis of the Genus <i>Tribolium</i> Macleay, with some Remarks on the Evolution of its Species-groups (Coleoptera, Tenebrionidae) (<i>illustrated</i>)	13
HOCKING, K. S. & MACINNES, D. G.	
Notes on the Bionomics of <i>Anopheles gambiae</i> and <i>A. funestus</i> in East Africa (<i>illustrated</i>)	453
JACKSON, C. H. N.	
Some further isolated Generations of Tsetse Flies	441
JEPSON, W. F.	
An annotated List of Insects associated with Ground-nuts in East Africa	231
KAPUR, A. P.	
On the Old World Species of the Genus <i>Stethorus</i> Weise (Coleoptera, Coccinellidae) (<i>illustrated</i>)	297
KAPUR, A. P.	
On the Indian Species of <i>Rodolia</i> Mulsant (Coleoptera—Coccinellidae) (<i>illustrated</i>)	531
LAWS, S. G.	
A biological Test for assessing the acaricidal Properties of DDT and "Gammexane" Preparations (<i>illustrated</i>)	277
LEESON, H. S. & THEODOR, O.	
Mosquitos of Socotra (<i>illustrated</i>)	221
LEWIS, D. J.	
The Mosquitos of the Jebel Auliya Reservoir on the White Nile (<i>illustrated</i>)	133
LEWIS, D. J.	
<i>Glossina tachinoides</i> in North-east Africa	529
MACAN, T. T.	
Mosquitos and Malaria in the Kabaw and Kale Valleys, Burma (<i>illustrated</i>)	237
MORRIS, K. R. S. & MORRIS, M. G.	
The use of Traps against Tsetse in West Africa (<i>illustrated</i>)	491
NOTLEY, F. B.	
The <i>Leucoptera</i> Leaf Miners of Coffee on Kilimanjaro. I.— <i>Leucoptera coffeella</i> , Guér. (<i>illustrated</i>)	399
PARKER, A. H.	
Stimuli involved in the Attraction of <i>Aedes aegypti</i> , L., to Man (<i>illustrated</i>)	387

ERRATA.

Vol. 38, 1947.

Page 437, 3 lines from end, for " feeds less frequently than the latter under moist conditions, but more " read " feeds more frequently than the latter under moist conditions but less "

Page 575, Table I.

Column 4 should read	Column 5 should read
500	50*
300	75*
—	—
—	—
—	—
4-7·5	3-7·5
0·4-1·2	—
0·6-0·7	—
	—

Page 576, Table II.

Column 3 should read	Column 4 should read
12-75	5-30
< 50 - < 75	0·4-7·5
0·35-2	30 (approx.)
0·2-10	—

Vol. 39, 1948. ✓

Page 11, 4 lines from end, for " wind " read " wing "

Page 55, 7 lines from end, for " Bull. U.S. Dep." read " Tech. Bull. U.S. Dep."

Page 84, 6 lines from end, for " spg," read " sp." and line 5, for " Berücksichtigun " read " Berücksichtigung "

Page 85, line 5 of Contents, for " species " read " subgenera "

Page 143, for " *Culex (Culicomylia)* " read " *Culex (Culiciomyia)* "

Page 155, 4 lines from end, for " Trewevas " read " Trewavas "

Page 297, line 14, for " twenty " read " twenty-one "

Page 298, line 8, for " *S. malayensis* " read " *S. truncatus* "

Page 335, 9 lines from end, for " form " read " former "

Page 337, 8 lines from end, for " Vet. J." read " Vet. Rec."

Page 356, line 21, for " of low humidity " read " and low humidity "

Page 397, line 3, for " human surface body " read " human body surface "

Page 406, 22 lines from end, for " *Teleopterus leucopterae* " read " *Teleopterus violaceus* "

Page 437, the last equation should read

$$P = \frac{bp}{bp + a} \frac{100}{(100 - p)} + 100$$

Page 438, line 4 should read

$$\therefore 795p + 63760 = 1500p$$

Page 465, line 1 of References, for " OLLINGER " read " OLINGER "

DATES OF PUBLICATION IN PARTS.

Part I . pp. 1-183	...	23 May 1948
Part II pp. 185-320	...	20 September 1948
Part III pp. 321-465	...	10 December 1948
Part IV pp. 467-575	...	9 March 1949