

BULLETIN
OF
ENTOMOLOGICAL RESEARCH.

ISSUED BY THE IMPERIAL
INSTITUTE OF ENTOMOLOGY.

EDITOR: THE DIRECTOR.

VOL. 35.

LONDON :
THE IMPERIAL INSTITUTE OF ENTOMOLOGY,
41, QUEEN'S GATE, S.W.7.
1945.

IMPERIAL INSTITUTE OF ENTOMOLOGY.

EXECUTIVE COUNCIL.

G. H. CREASY, C.M.G., O.B.E., *Chairman*, Colonies, Protectorates and Mandated Territories.

Lieutenant-Colonel J. G. ROBERTSON, *Vice-Chairman*, Canada.

Sir DONALD FERGUSSON, K.C.B., United Kingdom.

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

A. L. POOLE, New Zealand.

A. P. VAN DER POST, Union of South Africa.

J. W. DULANTY, C.B., C.B.E., High Commissioner, Eire.

D. JAMES DAVIES, C.B.E., Newfoundland.

Sir DAVID B. MEEK, C.I.E., O.B.E., India.

B. O. BINNS, O.B.E., Burma.

W. C. ROBERTSON, Southern Rhodesia.

Sir DAVID CHADWICK, K.C.M.G., C.S.I., C.I.E., *Secretary*.

Director and Editor.

S. A. NEAVE, C.M.G., O.B.E., D.Sc.

Assistant Director.

W. J. HALL, M.C., 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.

Director, Imperial Parasite Service.

W. R. THOMPSON, D.Sc., F.R.S.

228, Dundas Street, Belleville, Ontario, Canada.

CONTENTS.

	PAGE
ANDREWARTHA, H. G.	
Air Temperature Records as a Guide to the Date of Hatching of the Nymphs of <i>Austroicetes cruciata</i> , Sauss. (Orthoptera) (illustrated)	31
ANDREWARTHA, H. G.	
Some Differences in the Physiology and Ecology of Locusts and Grass-hoppers	379
ARTHUR, D. R.	
<i>Aphidius granarius</i> , Marsh., in Relation to its Control of <i>Myzus haltenbachii</i> , Schout. (illustrated)	257
BARNES, H. F.	
Two new Gall Midges from Mauritius	211
BIRCH, L. C. & ANDREWARTHA, H. G.	
The Influence of Drought on the Survival of Eggs of <i>Austroicetes cruciata</i> , Sauss. (Orthoptera) in South Australia (illustrated)	243
BRYANT, G. E.	
Two injurious Species of Phytophaga (Halticinae) from the Ivory Coast (illustrated)	141
BUSVINE, J. R.	
Destruction of Lice in Clothing by hot and cold Air (illustrated)	115
CHINA, W. E.	
New and little known West African Miridae (Capsidae) (Hemiptera Heteroptera) (illustrated)	171
DAVID, W. A. L.	
Fumigation as a Method of controlling the Body Louse, <i>Pediculus humanus corporis</i> , De Geer. Parts I and II (illustrated)	79
DAVID, W. A. L.	
Fumigation as a Method of controlling the Body Louse, <i>Pediculus humanus corporis</i> , De Geer. Part III (illustrated)	101
DAVID, W. A. L., BRACEY, P. & HARVEY, A.	
Equipment and Method employed in breeding <i>Aedes aegypti</i> , L., for the biological Assay of Insecticides	227
EDNEY, E. B.	
Laboratory Studies on the Bionomics of the Rat Fleas, <i>Xenopsylla brasiliensis</i> , Baker, and <i>X. cheopis</i> , Roths. I. Certain Effects of Light, Temperature and Humidity on the Rate of Development and on adult Longevity (illustrated)	399
VAN EMDEN, F. I.	
A new Sub-species of <i>Glossina</i> from Uganda (Diptera) (illustrated)	193
FELDMAN-MUHSAM, B.	
Studies on the Ecology of the Levant House Fly (<i>Musca domestica vicina</i> , Macq.) (illustrated)	53
FRAENKEL, G. & BLEWETT, M.	
The Utilisation of metabolic Water in Insects	127
GILLETT, J. D.	
The Larva and Pupa of <i>Taeniorhynchus (Coquillettidea) maculipennis</i> , Theobald (illustrated)	395
HINTON, H. E.	
The Histeridae associated with Stored Products (illustrated)	309
HOWE, R. W. & OXLEY, T. A.	
The Use of Carbon Dioxide Production as a Measure of Infestation of Grain by Insects (illustrated)	11
KEVAN, D. K. McE.	
The Bionomics of the Neotropical Cornstalk Borer, <i>Diatraea lineolata</i> , Wlk. (Lep., Pyral.) in Trinidad, B.W.I.	23

CONTENTS.

	PAGE
LAING, F.	
A new injurious Mealy-bug from the Gold Coast (<i>illustrated</i>)	91
LEVER, R. J. A. W.	
Insect Pests of some economic Crops in Fiji	367
LUMSDEN, W. H. R.	
<i>Anopheles hispaniola</i> , Theobald, 1903 (Dipt., Culicid.) from the Emirate of Transjordan	3
MACFIE, J. W. S.	
Ceratopogonidae collected in Trinidad from Cacao Flowers (<i>illustrated</i>)	297
MACGILL, E. I.	
On the Biology of <i>Dysdercus howardi</i> , Ballou. III. The Effect of Temperature and Humidity on the Life-cycle (<i>illustrated</i>)	301
MANTON, S. M.	
The Larvae of the Ptinidae associated with Stored Products (<i>illustrated</i>)	341
MARSHALL, SIR G. A. K.	
New injurious Curculionidae from Africa (Col.) (<i>illustrated</i>)	43
MOUTIA, L. A.	
The Sugar-cane Scale, <i>Aulacaspis tegalensis</i> , Zehnt. (<i>illustrated</i>) ..	69
NASH, T. A. M.	
The Control of Sleeping Sickness in the Raphia Pole Trade	49
NASH, T. A. M.	
A low Density of Tsetse Flies associated with a high Incidence of Sleeping Sickness	51
RAHMAN, K. A. & LATIF, M. A.	
Description, Bionomics and Control of the Giant Mealybug, <i>Drosicha stebbingi</i> , Green (Homoptera : Coccidae) (<i>illustrated</i>)	197
RIBBANDS, C. R.	
The Influence of Rainfall, Tides and periodic Fluctuations on a Population of <i>Anopheles melas</i> , Theo. (<i>illustrated</i>)	271
RIVNAY, E.	
Physiological and ecological Studies on the Species of <i>Capnodis</i> in Palestine (Col., Buprestidae) (<i>illustrated</i>)	235
ROBERTSON, F. W.	
The Removal of insect Pests from stored Products by Means of behaviour Stimuli	215
ROBERTSON, P. L.	
A Technique for biological Studies of Cheese Mites (<i>illustrated</i>) ..	251
ROBINSON, G. G.	
The Stability of Rotenone in a Phenol-oil Solution	1
ROBINSON, G. G.	
Testing Insecticides on the Argasid Tick, <i>Ornithodoros moubata</i> , Murray	95
ROONWAL, M. L.	
New Hypotheses for the Prediction of the Swarming of the Desert Locust	391
ROY, D. N. & GHOSH, S. M.	
The Mechanism of Action of a Contact Insecticide (<i>illustrated</i>)	161
ROY, D. N. & GHOSH, S. M.	
Control of head and pubic Lice	231
SIMMONDS, F. J.	
The Propagation of insect Parasites on unnatural Hosts	219
VAN SOMEREN, G. R. C.	
Some Records of Simuliidae in Abyssinia and British Somaliland ..	113
WRIGHT, D. W.	
Mercury as a Control for Stored Grain Pests (<i>illustrated</i>)	143