

BULLETIN
OF
ENTOMOLOGICAL RESEARCH.

ISSUED BY THE IMPERIAL
INSTITUTE OF ENTOMOLOGY.

EDITOR : THE DIRECTOR.

VOL. 31.

LONDON :
THE IMPERIAL INSTITUTE OF ENTOMOLOGY,
41, QUEEN'S GATE, S.W.7.
1941.

IMPERIAL INSTITUTE OF ENTOMOLOGY.

Executive Council.

Dr. WILLIAM ALLEN, *Chairman*, Canada.

SHAMALDHARI LALL, C.I.E., *Vice-Chairman*, India and Burma.

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

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

F. J. DU TOIT, Union of South Africa.

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

J. M. ADAMS, F.R.C.Sc.(I), Eire.

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

B. F. WRIGHT, Southern Rhodesia.

J. A. CALDER, C.M.G., Colonies, Protectorates and Mandated Territories.

Sir DAVID CHADWICK, K.C.M.G., 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.

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
BARNES, H. F.	
Two new Pests of Apple and Black Currant (<i>illustrated</i>)	85
BARNES, H. F.	
The Gall Midges attacking the Seed-heads of Cocksfoot, <i>Dactylis glomerata</i> , L. (<i>illustrated</i>)	111
CALLAN, E. McC.	
Hymenopterous Parasites of Willow Insects (<i>illustrated</i>)	35
COMPÈRE, H.	
The African Species of <i>Metaphycus</i> , Mercet (<i>illustrated</i>)	7
DE MEILLON, B. & LEESON, H. S.	
Notes on Ethiopian Anophelini (<i>illustrated</i>)	61
DICKER, G. H. L. & PEARCE, S. C.	
A Study of the Variation of Size within two Species of Aphides (<i>illustrated</i>)	45
FERRIÈRE, CH.	
On some Parasites and Hyperparasites of <i>Artona catoxantha</i> , Hamps. (<i>illustrated</i>)	131
FERRIÈRE, CH.	
Note on two Egg-parasites of <i>Antestia lineaticollis</i> , Stål (<i>illustrated</i>)	145
GOLDING, F. D.	
Further Notes on the Food-plants of Nigerian Insects. V ...	127
HANSON, S.	
The Prevention of Outbreaks of the Pine Beetles under Wartime Conditions	247
HINTON, H. E.	
The Ptinidae of Economic Importance (<i>illustrated</i>)	331
JACK, R. W.	
Notes on the Behaviour of <i>Glossina pallidipes</i> and <i>G. brevipalpis</i> , and some Comparisons with <i>G. morsitans</i> (<i>illustrated</i>)	407
LEESON, H. S.	
On the Wing Forms of <i>Anopheles funestus</i> , Giles	57

CONTENTS.

	PAGE
MARSHALL, Sir G. A. K.	
The Indian Species of <i>Calandra</i> , F. (Col. Curcul.) (<i>illustrated</i>) ...	123
MARSHALL, Sir G. A. K.	
New injurious Curculionidae (Col.)	403
MOUTIA, L. A.	
The Search for Parasites of White Grubs (Melolonthids) in Zanzibar, Algeria, Morocco and France (<i>illustrated</i>)	193
NASH, T. A. M.	
The Effect upon <i>Glossina</i> of changing the Climate in the true Habitat by partial Clearing of Vegetation (<i>illustrated</i>) ...	69
NIXON, G. E. J.	
A new African Diapriid (Hym., Proctotrupoidea) (<i>illustrated</i>) ...	59
PARSONS, F. S.	
Investigations on the Cotton Bollworm, <i>Heliothis armigera</i> , Hübn. (<i>obsoleta</i> , Fabr.). Part II. The Incidence of Parasites in Quantitative Relation to Bollworm Populations in South Africa (<i>illustrated</i>)	89
PARSONS, F. S.	
Investigations on the Cotton Bollworm, <i>Heliothis armigera</i> , Hübn. Part III. Relationships between Oviposition and the Flowering Curves of Food-plants (<i>illustrated</i>)	147
PHILLIPS, J. S.	
Immature Nutfall of Coconuts in the Solomon Islands (<i>illustrated</i>)	295
RAHMAN, K. A. & NATH, R.	
Bionomics and Control of the Indian Sugar-cane Leaf-hopper, <i>Pyrilla perpusilla</i> , Wlk. (Rhynchota, Fulg.) in the Punjab (<i>illustrated</i>)	179
SQUIRE, F. S.	
On the Nature and Origin of the Diapause in <i>Platyedra gossypiella</i> , Saund. (<i>illustrated</i>)	1
THOMAS, J. G.	
The Relative Size of the Eye as a Phase Character in the African Migratory Locust (<i>illustrated</i>)	431
TRÄGÅRDH, I.	
Second Survey of the Wood-destroying Insects in Public Buildings in Sweden (<i>illustrated</i>)	287
VESEY-FITZGERALD, D.	
Notes on some Coccinellidae (Col.) from Islands in the Indian Ocean	191

CONTENTS.

	PAGE
VESEY-FITZGERALD, D.	
The Control of Coccidae on Coconuts in Seychelles	253
VESEY-FITZGERALD, D.	
<i>Melittomma insulare</i> , Fairm. (Col. Lymexylonidae), a serious Pest of Coconut in the Seychelles (<i>illustrated</i>)	383
WALOFF, Z. V.	
The Distribution and Migrations of <i>Locusta</i> in Europe (<i>illustrated</i>)	211
WATSON, G. I.	
A Physiological Study of Mosquito Larvae which were treated with Anti-malarial Oils 	319
WILKINSON, D. S.	
On the Identity of <i>Apanteles praepotens</i> , Haliday (Hym. Bracon.) (<i>illustrated</i>) 	141

MISCELLANEOUS.

Collections Received	121, 209, 317, 435
----------------------------------	--------------------

ERRATA.

- Page 20, line 32, for "Le Pulley" read "Le Pelley"
,, 128, line 9, for "*typhoides*" read "*typhoideum*"
,, 130, 13 lines from end, for "*gerstaeckkeri*" read "*gerstaeckeri*"
,, 134, 7 lines from end, for "**bicarinatus**" read "**bicarinatus**"
,, 295, 12 lines from end, for "R. A. J. Lever" read "R. J. A. Lever"
,, 296, line 1, for "R. A. J. W. Lever" read "R. J. A. W. Lever"

DATES OF PUBLICATION IN PARTS.

- Part I pp. 1-122 ... 15 April 1940
Part II pp. 123-210 ... 3 July 1940
Part III pp. 211-318 ... 25 November 1940
Part IV pp. 319-436 ... 31 January 1941