

BULLETIN
OF
ENTOMOLOGICAL RESEARCH.

ISSUED BY THE COMMONWEALTH
INSTITUTE OF ENTOMOLOGY.

EDITOR : THE DIRECTOR.

VOL. 42.

LONDON :
COMMONWEALTH INSTITUTE OF ENTOMOLOGY,
41, QUEEN'S GATE, S.W.7.
1952.

Commonwealth Agricultural Bureaux.

Executive Council.

- J. E. CUMMINS, *Chairman*, Australia.
G. R. BATES, *Vice-Chairman*, Southern Rhodesia.
D. A. E. HARKNESS, C.B.E., United Kingdom.
Lieutenant-Colonel J. G. ROBERTSON, Canada.
E. MARSDEN, C.M.G., C.B.E., M.C., F.R.S., New Zealand.
H. R. P. A. KOTZENBERG, Union of South Africa.
H. E. The High Commissioner for India, India.
SELIMUS ZAMAN, Pakistan.
H. E. The High Commissioner for Ceylon, Ceylon.
J. G. HIBBERT, C.M.G., M.C., Colonial Territories.
SIR HERBERT HOWARD, *Secretary*, Farnham House, Farnham Royal,
nr. Slough, Bucks.
-

COMMONWEALTH INSTITUTE OF ENTOMOLOGY.

Director and Editor.

W. J. HALL, C.M.G., 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
BARLOW, F. & HADAWAY, A. B. Studies on Aqueous Suspensions of Insecticides. Part II. Quantitative Determinations of Weights of DDT picked up and retained (<i>illustrated</i>)	769
BARNES, H. F. A new Gall Midge (Dipt., Cecidomyidae) predaceous on the Flour Mite, <i>Tyroglyphus farinae</i> (Deg.)	565
BARNES, H. F. The Gall Midges of St. John's Wort (<i>Hypericum</i> spp.), with Descriptions of two new Species (<i>illustrated</i>)	697
BOX, H. E. New Species and Records of <i>Diatraea</i> Guild. from Northern Venezuela (Lepid., Pyral.) (<i>illustrated</i>)	379
BROWN, A. W. A. Studies of the Responses of the Female <i>Aedes</i> Mosquito. Part IV. Field Experiments on Canadian Species (<i>illustrated</i>)	575
BROWN, A. W. A., SARKARIA, D. S. & THOMPSON, R. P. Studies on the Responses of the Female <i>Aedes</i> Mosquito. Part I.—The Search for Attractant Vapours (<i>illustrated</i>)	105
BURNETT, G. F. Observations on the Life-history of the Red Locust, <i>Nomadacris septemfasciata</i> (Serv.) in the solitary Phase (<i>illustrated</i>)	473
BUSVINE, J. R. & WILSON, N. F. Experiments on the Use of DDT for preventing Bed-bug Infestation of new Houses (<i>illustrated</i>)	185
CAMPBELL, R. W. H. A preliminary statistical Study of <i>Anopheles gambiae</i> Giles, based on Maxillary Indices (<i>illustrated</i>)	647
CHINA, W. E. & CARVALHO, J. C. M. Four new Species representing two new Genera of Bryocorinae associated with Cacao in New Britain (Hemiptera, Miridae) (<i>illustrated</i>)	465
CLEMENTS, A. N. A Revision of <i>Diparopsis</i> Hmps. (Agrotidae, Lepidoptera) (<i>illustrated</i>)	491
COLLYER, E. The Separation of <i>Conwentzia pineticola</i> End. from <i>Conwentzia psociformis</i> (Curt.), and Notes on their Biology (<i>illustrated</i>)	555
DARLING, H. S. Pink Bollworm, <i>Platyedra gossypiella</i> (Saund.), as a Pest of Cotton at Zeidab, Northern Sudan (<i>illustrated</i>)	157

CONTENTS.

	PAGE
DIRSH, V. M.	
A new Grasshopper (Orth., Acrididae) damaging Groundnuts <i>(illustrated)</i>	41
GARSDALE, J. S. & DARLING, H. S.	
Death of Turkeys from Attack by <i>Simulium griseicolle</i> Becker in the Northern Sudan	583
GLASGOW, J. P. & DUFFY, B. J.	
Further Observations on the Extermination of <i>Glossina palpalis</i> <i>fuscipes</i> Newstead by Hand-catching <i>(illustrated)</i>	55
GOURLAY, E. S.	
Notes on Insects associated with <i>Pinus radiata</i> in New Zealand ...	21
GUNN, D. L.	
Field Tests of Dry Baiting against the Desert Locust, <i>Schistocerca</i> <i>gregaria</i> (Forsk.) <i>(illustrated)</i>	675
HADDOW, A. J.	
Further Observations on the Biting-habits of Tabanidae in Uganda <i>(illustrated)</i>	659
HADDOW, A. J., VAN SOMEREN, E. C. C., LUMSDEN, W. H. R., HARPER, J. O. & GILLET, J. D.	
The Mosquitoes of Bwamba County, Uganda. VIII.—Records of Occurrence, Behaviour and Habitat	207
HARRISON, C. M.	
DDT Resistance in an Italian Strain of <i>Musca domestica</i> L. <i>(illus-</i> <i>trated)</i>	761
HASKELL, G.	
Studies with Sweet Corn. The Frit Fly Problem <i>(illustrated)</i> ...	519
HEWLETT, P. S.	
Piperonyl Butoxide as a Constituent of Heavy-oil Sprays for the Control of Stored Product Insects. I.—Piperonyl Butoxide as a Synergist for Pyrethrum and its Effect on the Persistence of Pyrethrum Films <i>(illustrated)</i>	293
HOWE, R. W.	
The Movements of Grain Weevils through Grain <i>(illustrated)</i> ...	125
HOWE, R. W.	
Studies on Beetles of the Family Ptinidae. V.—The Oviposition Rate of <i>Ptinus tectus</i> Boield. under natural Conditions <i>(illustrated)</i>	445
HOWE, R. W. & BURGESS, H. D.	
Studies on Beetles of the Family Ptinidae. VI.—The Biology of <i>Ptinus fur</i> (L.) and <i>P. sexpunctatus</i> Panzer <i>(illustrated)</i>	499
JOYCE, R. J. V.	
Field Trials with various Dry Baits against the Desert Locust, <i>Schistocerca gregaria</i> (Forsk.)	691

CONTENTS.

	PAGE
KEMP, P. B.	
Field Observations on the Activity of <i>Pheidole</i> (illustrated)	201
KETTLE, D. S.	
The spatial Distribution of <i>Culicoides impunctatus</i> Goët. under woodland and moorland Conditions and its Flight Range through Woodland (illustrated)	239
KRIJGSMAN, B. J. & KRIJGSMAN-BERGER, N. E.	
Physiological Investigations into the Heart Function of Arthropods. The Heart of <i>Periplaneta americana</i>	143
KRIJGSMAN, B. J. & LINGBEEK, T.	
Contact Activity and Real Toxicity of some Iodo-Nitrobenzene Compounds	135
KUMM, H. W. & CERQUEIRA, N. L.	
The <i>Haemagogus</i> Mosquitos in Brazil (illustrated)	169
KUMM, H. W. & CERQUEIRA, N. L.	
The Rôle of <i>Aedes leucocelaenus</i> in the Epidemiology of Jungle Yellow Fever in Brazil (illustrated)	195
LATIF, A. & YUNUS, Ch.M.	
Food-plants of Citrus Leaf-miner (<i>Phyllocnistis citrella</i> Stn.) in the Punjab	311
LEESON, H. S.	
The recorded Distribution of the Tick, <i>Rhipicephalus sanguineus</i> (Latreille) (illustrated)	123
LLOYD, D. C.	
Biological Observations on some Thynnids of Western Patagonia (illustrated)	707
LUMSDEN, W. H. R.	
Probable Insect Vectors of Yellow Fever Virus, from Monkey to Man, in Bwamba County, Uganda (illustrated)	317
LUMSDEN, W. H. R.	
The crepuscular biting Activity of Insects in the Forest Canopy in Bwamba, Uganda. A Study in Relation to the Sylvan Epidemiology of Yellow Fever (illustrated)	721
MCMAHON, J. P.	
The Discovery of the early Stages of <i>Simulium neavei</i> in phoretic Association with Crabs and a Description of the Pupa and the Male (illustrated)	419
MILLER, N. C. E.	
A new Species of <i>Afrius</i> (Hem., Pentatomidae) predacious on <i>Schematiza cordiae</i> Barb. in Mauritius (illustrated)	183

CONTENTS.

	PAGE
MORRIS, K. R. S.	
The Ecology of epidemic Sleeping Sickness. I.—The Significance of Location (<i>illustrated</i>)	427
MUSPRATT, J.	
The Bionomics of an African <i>Megarhinus</i> (Dipt., Culicidae) and its possible use in Biological Control (<i>illustrated</i>)	355
PETERSON, D. G. & BROWN, A. W. A.	
Studies of the Responses of the Female <i>Aedes</i> Mosquito. Part III. The Response of <i>Aedes aegypti</i> (L.) to a Warm Body and its Radiation (<i>illustrated</i>)	535
PRADHAN, S. & BHATIA, S. C.	
Specific Susceptibility to HCN and the amount of HCN recovered from Fumigated Insects (<i>illustrated</i>)	399
PRINGLE, G.	
The Identification of the Larvae of <i>Anopheles stephensi</i> Liston and <i>Anopheles superpictus</i> Grassi in Iraq (<i>illustrated</i>)	779
RAW, F.	
The Ecology of the Garden Chafer, <i>Phyllopertha horticola</i> (L.) with preliminary Observations on Control Measures (<i>illustrated</i>)	605
RAWLE, S. G.	
The Effects of High Temperature on the common Clothes Moth, <i>Tineola bisselliella</i> (Humm.) (<i>illustrated</i>)	29
RIVNAY, E.	
Further Toxicological Studies on Species of <i>Capnodis</i> in Israel	567
SARKARIA, D. S. & BROWN, A. W. A.	
Studies on the Responses of the Female <i>Aedes</i> Mosquito. Part II.—The Action of Liquid Repellent Compounds (<i>illustrated</i>)	115
SMITH, A.	
The Effect of Relative Humidity on the Activity of the Tropical Rat Flea <i>Xenopsylla cheopis</i> (Roths.) (Siphonaptera) (<i>illustrated</i>)	585
SOLOMON, M. E.	
Control of Humidity with Potassium Hydroxide, Sulphuric Acid, or other Solutions (<i>illustrated</i>)	543
SQUIRE, F. A.	
Seasonal Variation in the Incidence of <i>Trypanosoma vivax</i> in <i>Glossina palpalis</i> (R.-D.) (<i>illustrated</i>)	371
SQUIRE, F. A.	
Observations on Mating Scars in <i>Glossina palpalis</i> (R.-D.) (<i>illustrated</i>)	601
STRICKLAND, A. H.	
The Entomology of Swollen Shoot of Cacao. II.—The Bionomics and Ecology of the Species involved (<i>illustrated</i>)	65

CONTENTS.

	PAGE
TALHOUK, A. S.	
The Effect of Parathion Dusts on <i>Eurygaster integriceps</i> Put. (Hem.)	375
TSENG SHENG & WU I.	
An Ecological Study of Mosquitos in Wuhan Area	527
WAY, M. J., SMITH, P. M. & HOPKINS, B.	
The Selection and Rearing of Leaf-eating Insects for Use as Test Subjects in the Study of Insecticides (<i>illustrated</i>)	331
WHARTON, R. H.	
The Behaviour and Mortality of <i>Anopheles maculatus</i> and <i>Culex</i> <i>fatigans</i> in experimental Huts treated with DDT and BHC (<i>illus-</i> <i>trated</i>)	1
WILKINSON, P. R.	
Distribution and Fate of <i>Anopheles gambiae</i> and <i>A. funestus</i> in two different Types of Huts treated with DDT and BHC in Uganda	45
WILLIAMS, C. B.	
Comparing the Efficiency of Insect Traps	513
WILLIAMS, J. R.	
The Control of the Black Sage in Mauritius by <i>Schematiza cordiae</i> Barb. (Col., Galerucid.)	455
WILLIAMS, J. R., MOUTIA, L. A. & HERMELIN, P. R.	

DATES OF PUBLICATION IN PARTS.

Part I	pp. 1-206	...	3 September 1951
Part II	pp. 207-490	...	5 September 1951
Part III	pp. 491-658	...	20 November 1951
Part IV	pp. 659-783	...	4 January 1952