

University of Glasgow
Expedition to Morocco
1970



GLASGOW UNIVERSITY

1970

MOROCCAN EXPEDITION

edited by

C. M. Allen

M. H. Hansell

A. J. K. Hood



PERSONNEL

Christine M. Allen	4th Year Honours Zoology	Medical
D. L. Cockroft	4th Year Honours Zoology	Photographic
Carolyn M. Copland	Research Student	Food
J. T. Flanagan	4th Year Honours Zoology	Camping Equipment
M. H. Hansell	Lecturer	Expedition Leader
D. J. Henderson	Research Student	Travel and Insurance
A. J. K. Hood	4th Year Honours Zoology	Vehicle maintenance
W. K. Stevenson	4th Year Honours Zoology	Scientific Equipment
B. J. Taylor	4th Year Honours Zoology	Vehicle maintenance

CONTENTS

	Page number
Personnel	2
Travel	3
Vehicles	4
Equipment	8
Food	9
Medical report	12
Photographic report	13
Acknowledgements	14
Accounts	15
Aims and origins of the project	16
Malaria eradication in Morocco	16
The Draa Valley	17
Ksars	18
Organisation of medical services in the Zagora zone	18
Identification of malaria cases	19
The malaria problem in Ouarzazate Province	20
Previous mosquito surveys	21
Techniques	21
Learning techniques in Rabat	25
Programme for Agdz	26
Programme for Tamgrout	26
Larval collections	27
Location of larvae	28
Distribution of larvae	29
Changes in larval population with time	30
Adult collection	31
Changes in adult population with time	35
Geographical distribution of adults	35
Biting cycle	35
Indoor catches	36
Night catches with human and animal bait	37
Conclusions from outside bait catches and inside fan catches	38
Rate of development of larvae	38
Female gonotrophic cycle	39
No transmission of malaria	40
What is the vector species?	40
When does transmission occur?	41
Future surveys	41
Eradication of malaria	42
Experiment on carbon dioxide as a host attractant to mosquitoes	43
Experiments on the escape response of <i>A. d'thali</i> larvae and observations on their possible predators	45
References	49
Abrégé des résultats	51