

Contents

1	Introduction <i>Dr B. Stonehouse and Dr C. M. Perrins</i>	1
	SECTION 1 POPULATION REGULATION AND THE FUNCTIONS OF TERRITORY	3
2	Society versus the individual in animal evolution <i>Professor V. C. Wynne-Edwards</i>	5
3	Population limitation and the adaptive value of territorial behaviour in Scottish Red grouse <i>Lagopus l. scoticus</i> <i>Dr A. Watson.</i>	19
4	Natural selection and the regulation of density in cyclic and non-cyclic populations <i>Professor D. Chitty</i>	27
5	Factors affecting population density in the wild rabbit <i>Oryctolagus cuniculus</i> (L), and their relevance to small mammals <i>Dr J. A. Gibb</i>	33
6	Song and territory in the Great tit <i>Parus major</i> <i>Dr J. R. Krebs</i>	47
	SECTION 2 FEEDING ADAPTATIONS AND ECOLOGICAL SEGREGATION	63
7	Comparative ecology of seabirds in the Galapagos Archipelago <i>Dr M. P. Harris</i>	65
8	Some relationships between food and breeding in the marine Pelecaniformes <i>Dr J. B. Nelson</i>	77
9	Coexistence and diversity in heteromyid rodents <i>Dr M. L. Rosenzweig</i>	89
10	Courtship-feeding and clutch size in Common terns <i>Sterna hirundo</i> <i>Dr I. C. T. Nisbet</i>	101
	SECTION 3 BREEDING ADAPTATIONS AND REPRODUCTIVE RATES	111
11	Timing and success of breeding in tundra-nesting geese <i>I. Newton</i>	113
12	The evolutionary significance of co-operative breeding in birds <i>Dr C. H. Fry</i>	127

13	Helpers at the nest in some Argentine blackbirds <i>Professor G. H. Orians, C. E. Orians and K. J. Orians</i>	137
14	The occurrence of time-saving mechanisms in the breeding biology of the Great tit <i>Parus major</i> <i>Dr H. N. Kluyver, Dr J. H. van Balen and Dr A. J. Cavé</i>	153
15	Latitudinal gradients in clutch size: an extension of David Lack's theory <i>Dr D. F. Owen</i>	171
16	The role of predation in the evolution of clutch size <i>Dr C. M. Perrins</i>	181
17	A note on the evolution of clutch size in altricial birds <i>Dr R. E. Ricklefs</i>	193
18	Clutch size in the Compositae <i>Professor D. A. Levin and Professor B. L. Turner</i>	215
	SECTION 4 BEHAVIOUR, ADAPTATION AND TAXONOMIC RELATIONSHIPS	223
19	Echolocation and the systematics of swiftlets <i>Lord Medway and Professor J. D. Pye</i>	225
20	Duetting and other synchronised displays of the blue-backed manakins, <i>Chiroxiphia</i> spp. <i>Dr D. W. Snow</i>	239
21	Reliability in communication systems and the evolution of altruism <i>Dr A. Zahavi</i>	253
22	The adaptive significance of variations in reproductive habit in the Agavaceae <i>Dr W. M. Schaffer and M. V. Schaffer</i>	261
	Publications by David Lack	277
	Author index	285
	Subject index	291