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sparrows (*Passer domesticus* and *P. montanus*) co-exist at Lammasinghi and it is desirable to study their ecology.

Alamanda (R.S.), Visakhapatnam Dist., Andhra Pradesh.

K. S. R. KRISHNA RAJU

FERNHILL COTTAGE, CAMBERLEY, ENGLAND, *April* 27, 1973.

TREVOR D. PRICE

7. FOOD AND FEEDING HABITS OF THE TOAD, BUFO MELANOSTICTUS SCHNEIDER (AMPHIBIA : BUFONIDAE)

In India practically no attempt has been made to study the feeding habits of the common toads, excepting for a stray record of Rai *et al.* (1969) of the adults of the white grub, *Holotrichia consanguinea* Blanch. being fed upon by the common Indian toad, *Bufo melanostictus*. Prasad (1961), while reviewing the natural enemies of the sugarcane white grubs, indicated the beneficial effect of introduction of the Surinam toad, *Bufo marinus*, into Puerto Rico and Hawaii in the control of scarabaeids.

The present study involed examination of the stomach contents of 362 individuals of the common Indian toad, *Bufo melanostictus* Schneider carried over a period of 14 months during 1968-1970. The toads were collected during the evenings almost every fortnight during the period in various agricultural fields and near lamp posts around Dharwar, Mysore State. The toads thus collected the previous evening were sexed and dissected, the stomachs were cut out and preserved separately in 10 per cent formaldehyde for future examination of the contents. The stomachs thus preserved were slit open, the contents were taken out and identified taking care to see that the number of individual insects and other animals was correctly recorded. The data are summarised groupwise in Table 1.

RESULTS AND DISCUSSION

Toads in general are well known to feed on different groups of animals of which insects constitute the major bulk. In the present study also insects were recovered from stomachs and constituted 99 per cent of the total number of various animals consumed. Two other

	Remarks		Remain	
THE STOMACH CONTENTS OF Bufø melanostictus	Per cent	26	46	
	No. of individuals	106 14 14 18 33 345 38 38 38 757	11 1293 19 3 1326	
	Per cent	78	41	
	No. of stomachs containing the animals	58 11 17 17 17 13 13 13 13 19 284 284	137 6 3 149	
ANALYSIS OF	Animal group	I. INSECTA I. Order Coleoptera Family Carabidae Chrysomelidae Curculionidae Curculionidae Coccinellidae Coccinellidae Tenebrionidae Tenebrionidae Others (including grubs and pupae)	2. Order Hymenoptera Family Apidae Formicidae Vespidae Others	

MISCELLANEOUS NOTES

TABLE 1

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TABLE 1—(Continued)	Per cent Remarks		207 maggots were re- covered from 12 stomachs.			3	43 of these were Perinlaneta americana.		3		2
	Per			11					20-16-2		
	No. of individuals	93 4	216	313	19 62	81	74	1	75	3 13 45	61
	Per cent			11		7			15		10
	No. of stomachs containing the animals	21	7	40	17	24	52	1	53	3 10 22	35
		::	Pup				:	:		:::	
	Animal group	 3. Order Diptera Family Syrphidae ,, Muscidae Others (including maggots, and eggs) 			4. Order Lepidoptera Hairy caterpillars Other caterpillars		5. Order Dictyoptera Family Blattidae	", Mantidae	And a start and a second	6. Order OrthopteraFamily Acrididae,, Gryllidae,, Gryllotalpidae	

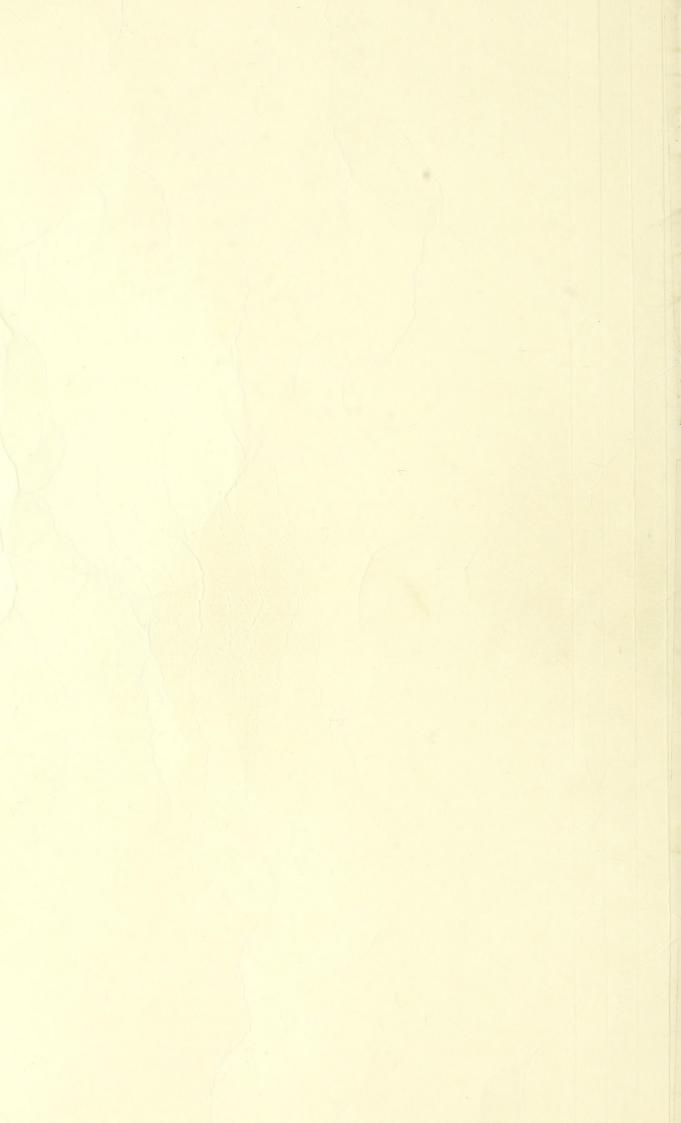
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MISCELLANEOUS NOTES

Mostly Streptogonopus jerdoni (Pocock). Mostly Nezara viridula Less than 1 Less than 1 Less than 1 Less than 1 4 4 105 113 14 15 55 33 33 2 6-10 5 111 13 12 04 46 9 9 5 5-02 Nm 2000 42 2 : • • • : • • • • • • • Order Scolopendromorpha (Centipedes) Order Polydesmida (Millipedes) Order Araneae (Spiders) Order (Scorpionida (Scorpions) -14. Order Euthyneura (Snails) -do- (Slugs) Family Lygaeidae ,, Pentatomidae ,, Reduviidae Family Cicadellidae Order Dermaptera Order Heteroptera Order Homoptera Others GASTROPODA ARACHNIDA MYRIAPODA 10. 12. 7. 6 ŝ II. III. IV.

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No. of No. of stomachs Remarks Animal group individuals Per cent containing Per cent the animals 3. Order Diptera Family Syrphidae 21 93 4 ... Others (including maggots, Pupae and eggs) 207 maggots were re-covered from 12 stomachs. 216 16 11 40 11 313 4. Order Lepidoptera Hairy caterpillars Other caterpillars 7 19 ~ 10 17 62 • • 24 7 81 3 5. Order Dictyoptera Family Blattidae 52 74 43 of these were • • Periplaneta americana. " Mantidae 1 1 . . 53 3 15 75 6. Order Orthoptera Family Acrididae ,, Gryllidae ,, Gryllotalpidae 3 3 • • 10 13 • • 22 . . 45 35 10 2 61

TABLE 1-(Continued)

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105 4 13 7. Order Dermaptera 46 ... 8. Order Heteroptera 55 8 Family Lygaeidae . . 46 Mostly Nezara viridula Pentatomidae 26 3 5 ... 22 37 Reduviidae • • ... Others . . 12 111 4 42 9. Order Homoptera 1 Family Cicadellidae 1 . . " Membracidae 1 1 . . 2 Less than 1 2 II. ARACHNIDA 5 9 10. Order Araneae (Spiders) . . 1 1 11. Order (Scorpionida (Scorpions) ... Less than 1 10 6 . III. MYRIAPODA 24 3 11 12. Order Scolopendromorpha (Centipedes) fostly Streptogonopus jerdoni (Pocock). Mostly 13. Order Polydesmida (Millipedes) . . 14 Less than 1 6 IV. GASTROPODA 10 5 14. Order Euthyneura (Snails) -do- (Slugs) 23 • • . . 5 15 Less than 1

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MISCELLANEOUS NOTES

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Rangaswamy, H R and Channabasavanna, G. P. 1973. "Food and Feeding Habits of the Toad, Bufo Melanostictus (Amphibia: Bufonidae)." *The journal of the Bombay Natural History Society* 70, 558–563.

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