test the null hypothesis of no difference between means of observed day and night capture rates. The results of this test indicate that *R. pumilio* was significantly (p < 0.02) more active during the day than at night in each month. A χ² test of the distribution of three-day mean hourly values for the hours between dawn and dark showed no significant daytime peaks of activity in either month (p < 0.90).

Thus, under prevailing conditions *R. pumilio* showed no tendency toward nocturnality or crepuscularity, but displayed continuous activity throughout the day. No apparent correlation was noted between rate of capture and ambient temperature. In this study, *R. pumilio* appeared to become active at daybreak and to cease activity at dark. These results may have been influenced by the abundance of overhead cover on the study area. Coetzee (personal communication) has suggested that, whereas *R. pumilio* might be active under the cover of large bushes throughout the day, they may forage outside of this cover only in early morning and late afternoon. Thus, an activity pattern different from that observed in this study might be found in areas where cover is not so dense or widespread.

**ACKNOWLEDGEMENTS**

The author wishes to thank Mr and Mrs M. M. Louw of Aandster for their cooperation. Associates at the Michigan State University Museum and C. G. Coetzee, State Museum, Windhoek, offered suggestions on this manuscript. This research was supported by a grant from the Jens Touborg Fund to The Museum, Michigan State University.

**REFERENCES**


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**ANALYSIS OF FELIS LIBYCA AND GENETTA GENETTA SCATS FROM THE CENTRAL NAMIB DESERT, SOUTH WEST AFRICA.**

**C. T. STUART**

*Desert Ecological Research Unit, Gobabeb, South West Africa*

Accepted: July 1976

**INTRODUCTION**

Two collections of *Felis libyca* scats and two of *Genetta genetta* were made in the vicinity of the Namib Desert Research Station, Gobabeb, which is situated on the northern bank of the Kuiseb River in the Namib Desert Park, South West Africa. It is approximately 110 km from Walvis Bay.

*Present address: Nature Conservation Station, Private Bag 614, Robertson.*
The riverine vegetation in the area where the collections were made consists chiefly of Acacia albida and A. erioloba, Tamarix usneoides, Salvadora persica and Euclea pseudoebenus.

The four collections were made on the northern bank of the Kuiseb River. The Felis libyca scats were collected on top of a large granite boulder and those of Genetta genetta were taken from a rock overhang just above the river-bed. Both species are common in the vicinity of the Kuiseb River (Stuart 1975) and are rarely found far away from it, as to the south lies the almost vegetationless 'dune-sea' and to the north, bare open gravel plains.

In a study of the diet of Canis mesomelas (Stuart 1976) in the same area, it was found that this species relied heavily on plant food, this being in contrast with the present findings on the diet of F. libyca and G. genetta.

**Table 1**

<table>
<thead>
<tr>
<th>Item</th>
<th>January</th>
<th>July</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mammal</td>
<td>90.0</td>
<td>96.6</td>
</tr>
<tr>
<td>Bird</td>
<td>14.0</td>
<td>10.7</td>
</tr>
<tr>
<td>Reptile</td>
<td>—</td>
<td>0.7</td>
</tr>
<tr>
<td>Insect</td>
<td>72.0</td>
<td>75.0</td>
</tr>
<tr>
<td>Arachnid</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Plant material</td>
<td>18.0</td>
<td>12.2</td>
</tr>
</tbody>
</table>

**Table 2**

<table>
<thead>
<tr>
<th>Item</th>
<th>March</th>
<th>December</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mammal</td>
<td>98.0</td>
<td>96.0</td>
</tr>
<tr>
<td>Bird</td>
<td>—</td>
<td>5.3</td>
</tr>
<tr>
<td>Reptile</td>
<td>—</td>
<td>1.3</td>
</tr>
<tr>
<td>Insect</td>
<td>72.0</td>
<td>53.0</td>
</tr>
<tr>
<td>Arachnid</td>
<td>2.0</td>
<td>1.3</td>
</tr>
<tr>
<td>Plant material</td>
<td>6.0</td>
<td>10.7</td>
</tr>
</tbody>
</table>

**Method**

In the case of F. libyca one scat collection was made in January (50 scats) and a second in July (149 scats) while the G. genetta material comprised one collection in March (50 scats) and one in December (75 scats). Each scat was macerated in water and sieved to remove sand. Scat contents were then grouped and undigested portions were identified by macro-analysis. Many of the food items could not be identified to species level, particularly in the case of the G. genetta scats. Small mammal prey items could only be identified when mandibles were present. Percentage occurrence of food items in Tables 1 and 2 indicates what percentage of the various groups (e.g. bird) occurred in the scats, for example in January (Table 1) mammal remains were present in 90 per cent of all scats and insect remains in 72 per cent of all scats.

**Results**

Felis libyca. In both the collections small mammal material was predominant and occurred in 90 per cent of the scats in January and 96.6 per cent of scats in July. Gerbillurus sp, Thallomys paeduculus, Desmodillus auricularis and Crocidura cyanæae remains were identified. In five scats (two in January and three in July) steenbok Raphicerus campestris faecal pellets were found. It is possible that
they were accidentally swallowed during feeding. Of the bird material only *Francolinus adspersus* could be identified, from one scat. Reptile remains (a piece of snake skin) were only found in one scat collected in July. Scorpions (Arachnidae) were found in a number of scats from both collections. The incidence of insect material was high in both the January and July collections, Orthoptera and Coleoptera were predominant. *Acanthophorus capensis* was the only species identified. The occurrence of plant food was not high, 18 per cent in January and 12.2 per cent in July. *Euclea pseudobenus* fruits and leaves (the latter almost certainly accidentally taken), one *Acacia albida* seed, *Salvadora persica* seeds and grass were identified. The percentage occurrences are summarized in Table 1.

Genetta genetta. As in the case of *F. libyca*, small mammals (mainly rodents) dominated both scat collections (March 98 per cent and December 96 per cent); however as material was finely particled it was difficult and often impossible to identify many of the items. Only *Thallomys paederus* was identified with any certainty. An aluminium bird-ring found in one scat made possible the identification of the bird prey item, *Zosterops pallidus*. Reptile material (lizard skin) was only found in one scat; however, as was discussed by Stuart (1976) some food items could be completely broken down and would show no trace in the scat. This could apply to any small reptiles taken by *Genetta genetta*.

Insect material was abundant in both collections, Orthoptera and Coleoptera being predominant. The arachnid material was made up entirely of scorpion particles. The quantity of plant items was low, 6 per cent in March and 10.7 per cent in July and only *Euclea pseudobenus* (seeds and leaves) and *Salvadora persica* (seeds) were identified. Table 2 summarizes the scat contents.

**Discussion**

In the present study it was found that Muridae constituted the most common food of both *Fels libyca* and *Genetta genetta*. Smithers (1971) found that Muridae were the most common food of these two small carnivores in Botswana. Insects (Orthoptera and Coleoptera) were found to be important in Namib samples for both species. In Botswana (Smithers 1971) insects were also of importance as food items but *Fels libyca* apparently showed a slight preference for arachnids, whereas in the present study insects were by far the most important invertebrate food items. The incidence of plant food in both the Namib and Botswana (Smithers 1971) is very low.

**Acknowledgements**

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**References**

