

# **Impact of linear infrastructure on South Africa's primate fauna: The need for mitigation**

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**Supplementary material**

**Table S1.** Total number of mortalities (electrocution and roadkill) per species per data set (Eskom and EWT National Databases and personal published and unpublished data = pers.).

| Species          | Electrocutions |       |       | Roadkills |       |       |
|------------------|----------------|-------|-------|-----------|-------|-------|
|                  | Eskom          | Pers. | Total | EWT       | Pers. | Total |
| Vervet monkey    | 107            | –     | 107   | 164       | 12    | 176   |
| Baboon           | 66             | 1     | 67    | 29        | 0     | 29    |
| Samango monkey   | 4              | -     | 4     | 1         | 24*   | 25    |
| Greater bushbaby | 3              | 3     | 6     | 18        | 2     | 20    |
| Lesser bushbaby  | –              | –     | –     | 4         | –     | 4     |
| Unknown monkey   | –              | –     | –     | 41        | –     | 41    |
| Unknown          | –              |       |       |           |       |       |
| Bushbaby         |                | –     | –     | 4         | –     | 4     |
| Subtotal         | 180            | 4     | 184   | 261       | 38    | 299   |
| Total            |                |       |       |           |       | 483   |

\* 20 roadkill records from Linden *et al.* (20200).

**Table S2.** Details of primate roadkills and electrocutions including the number of records (no. rec.) compared to the actual number of mortalities per data source (Eskom National Database, EWT National Database with patrol (pa) and public (pu) data, personal data = pers.) and linear infrastructure type (power lines, roads).

| Species          | Electrocutions |                    |                |                    | Roadkills               |                             |                |                    |
|------------------|----------------|--------------------|----------------|--------------------|-------------------------|-----------------------------|----------------|--------------------|
|                  | Eskom          |                    | Pers.          |                    | EWT                     |                             | Pers.          |                    |
|                  | No.<br>records | No.<br>mortalities | No.<br>records | No.<br>mortalities | No.<br>records<br>pa/pu | No.<br>mortalities<br>pa/pu | No.<br>records | No.<br>mortalities |
| Vervet monkeys   | 88             | 107                | —              | —                  | 51/108                  | 54/110                      | 9              | 12                 |
| Baboon           | 51             | 66                 | 1              | 1                  | 6/22                    | 6/23                        | —              | —                  |
| Greater bushbaby | 3              | 3                  | 3              | 3                  | 8/9                     | 8/10                        | 2              | 2                  |
| Lesser bushbaby  | —              | —                  | —              | —                  | 0/4                     | 0/4                         | —              | —                  |
| Samango monkey   | 3              | 4                  | —              | —                  | 0/1                     | 0/1                         | 20             | 24                 |
| Unknown monkey   | —              | —                  | —              | —                  | 21/20                   | 21/20                       | —              | —                  |
| Unknown bushbaby | —              | —                  | —              | —                  | 1/3                     | 1/3                         | —              | —                  |
| Total            | 145            | 180                | 4              | 4                  | 87/167                  | 89/172                      | 31             | 38                 |

**Table S3.** Number of roadkill and electrocution records with GPS coordinates collected inside and outside protected areas for all five primate species. Percentages included in brackets.

| Species          | Roadkill |          | Electrocution |          |
|------------------|----------|----------|---------------|----------|
|                  | Inside   | Outside  | Inside        | Outside  |
|                  | (%)      | (%)      | (%)           | (%)      |
| Vervet monkey    | 9 (8)    | 103 (92) | 0             | 55 (100) |
| Greater bushbaby | 0        | 8 (100)  | 3 (60)        | 2 (40)   |
| Lesser bushbaby  | 0        | 4 (100)  | —             | —        |
| Samango monkey   | 0        | 20 (100) | 0             | 1 (100)  |
| Baboon           | 2 (15)   | 11 (85)  | 2 (6)         | 33 (94)  |
| Unknown monkey   | 1 (8)    | 12 (92)  | —             | —        |
| Unknown bushbaby | 0        | 3 (100)  | —             | —        |
| Total            | 12 (7)   | 161 (93) | 5 (6)         | 91 (94)  |



**Figure S1.** Power line mitigation measures showing anti-climbing wires to prevent primates and other animals from climbing up poles (photo supplied by Eskom).



**Figure S2.** Power line mitigation measures showing insulation sleeves on jumpers to prevent electrocutions (photo supplied by Eskom).