|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Cattle dung survey** | | | | | | | |
| Species | National Park | | Riverside | | Park + Riverside | | Village + Riverside | |
|  | IndVal | *P* | IndVal | *P* | IndVal | *P* | IndVal | *P* |
| *Onthophagus fallax* | - | - | 0.683 | 0.075 | - | - | - | - |
| *Pedaria sp. (Kalahari)* | 0.66 | 0.14 | - | - | - | - | - | - |
| *Onthophagus aeruginosus* | 0.65 | 0.34 | - | - | - | - | - | - |
| *Chalconotus convexus* | 0.58 | 0.29 | - | - | - | - | - | - |
| *Copris cornifrons* | - | - | - | - | 0.63 | 0.69 | - | - |
| *Escarabeaus remii* | - | - | - | - | - | - | 0.68 | 0.44 |
|  | Diurnal | | Nocturnal/crepuscular | |  |  |  |  |
|  | IndVal | *P* | IndVal | *P* |  |  |  |  |
| *Gymnopleurus ignitus* | 1 | 0.001\*\* | - | - |  |  |  |  |
| *Kurtops quadraticeps* | 0.94 | 0.004\* | - | - |  |  |  |  |
| *Euoniticellus intermedius* | 0.88 | 0.005\* | - | - |  |  |  |  |
| *Gymnopleurus aenescens* | 0.82 | 0.02\* | - | - |  |  |  |  |
| *Neosisyphus calcaratus* | 0.67 | 0.095 | - | - |  |  |  |  |
| *Onthophagus rasipennis* | 0.67 | 0.076 | - | - |  |  |  |  |
| *Onthophagus aeruginosus* | 0.64 | 0.233 | *-* | *-* |  |  |  |  |
| *Onthophagus pullus* | 0.58 | 0.209 | - | - |  |  |  |  |
| *Scarabeaus zambezianus* | - | - | 1 | 0.001\*\* |  |  |  |  |
| *Scarabeaus goryi* | - | - | 1 | 0.001\*\* |  |  |  |  |
| *Metacatharsius troglodytes* | - | - | 1 | 0.001\*\* |  |  |  |  |
| *Digitonthophagus gazella* | - | - | 1 | 0.001\*\* |  |  |  |  |
| *Onthophagus vinctus* | - | - | 1 | 0.001\*\* |  |  |  |  |
| *Onthiohagus stellio* | - | - | 0.99 | 0.001\*\* |  |  |  |  |
| *Caccobius cavatus* | - | - | 0.99 | 0.001\*\* |  |  |  |  |
| *Onthophagus fimetarius* | - | - | 0.99 | 0.001\*\* |  |  |  |  |
| *Onthophagus granulatus* | - | - | 0.98 | 0.001\*\* |  |  |  |  |
| *Copris elephenor* | - | - | 0.94 | 0.003\* |  |  |  |  |
| *Metacatharsius opacus* | - | - | 0.94 | 0.003\* |  |  |  |  |
| *Caccobius ferrugineus* | - | - | 0.94 | 0.002\* |  |  |  |  |
| *Onthophagus sp. nr sugillatus* | - | - | 0.92 | 0.015\* |  |  |  |  |
| *Copris cornifrons* | - | - | 0.88 | 0.008\* |  |  |  |  |
| *Caccobius nigritulus* | - | - | 0.87 | 0.012\* |  |  |  |  |
| *Kepher prodigiosus* | - | - | 0.82 | 0.018\* |  |  |  |  |
| *Catharsius calaharicus* | - | - | 0.82 | 0.018\* |  |  |  |  |
| *Escarabeaus remii* | - | - | 0.78 | 0.045\* |  |  |  |  |
| *Pedaria sp. (Kalahari)* | - | - | 0.67 | 0.098 |  |  |  |  |
| *Onthophagus fallax* | - | - | 0.67 | 0.078 |  |  |  |  |