**Table S6**. Repeated measures ANOVA results on the effects of historic grazing intensity (‘light’ and ‘heavy’) and recent cattle removal (‘+ cattle’ and ‘- cattle’) in the Simpson Desert, central Australia, on average abundances of a) Agamidae and Scincidae and b) *Ctenophorus* *isolepis,* *C.* *nuchalis, Lerista labialis* and *Ctenotus pantherinus*. Degrees of freedom for between factor tests were 1, 4 and for within factors 4, 16, if not stated otherwise. Significant results (*P* < 0.05) are shown in bold.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **a) Families** | **Agamidae** | | **Scincidae** | |
| Source | *F* | *P* | *F* | *P* |
| Between |  |  |  |  |
| Grazing intensity | 0.306 | 0.609 | 6.457 | 0.064 |
| Treatment | 0.618 | 0.476 | 5.520 | 0.079 |
| Grazing intensity x Treatment | 0.103 | 0.765 | 3.497 | 0.135 |
| Within |  |  |  |  |
| Trips | 12.711 | **0.007a** | 21.050 | **<0.001** |
| Trip x Grazing intensity | 0.514 | 0.581a | 6.354 | **0.001** |
| Trip x Treatment | 1.423 | 0.299a | 6.689 | **0.002** |
| Trip x Treatment x Grazing intensity | 0.091 | 0.875a | 0.950 | 0.461 |

a Greenhouse-Geisser adjusted (d.f. = 2, 6)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **b) Species** | **Agamidae** | | | | **Scincidae** | | | |
|  | ***C. nuchalis*** | | ***C. isolepis*** | | ***L. labialis*** | | ***C. pantherinus*** | |
| Source | *F* | *P* | *F* | *P* | *F* | *P* | *F* | *P* |
| Between |  |  |  |  |  |  |  |  |
| Grazing intensity | 2.065 | 0.224 | 0.011 | 0.921 | 7.254 | 0.054 | 0.818 | 0.417 |
| Treatment | 1.023 | 0.369 | 0.177 | 0.696 | 2.305 | 0.204 | 26.27 | **0.007** |
| Grazing intensity x Treatment | 0.003 | 0.960 | 0.276 | 0.627 | 0.540 | 0.503 | 2.273 | 0.206 |
| Within |  |  |  |  |  |  |  |  |
| Trips | 7.787 | **<0.01** | 14.95 | **<0.01** | 17.29 | **<0.01** | 6.292 | **0.003** |
| Trip x Grazing intensity | 2.194 | 0.116 | 0.482 | 0.749 | 7.728 | **0.001** | 4.903 | **0.009** |
| Trip x Treatment | 0.555 | 0.699 | 2.804 | 0.061 | 5.322 | **0.006** | 4.069 | **0.018** |
| Trip x Treatment x Grazing intensity | 0.555 | 0.699 | 0.804 | 0.541 | 3.058 | **0.048** | 2.847 | 0.059 |