Supp. Fig. 1: Observational periods covering litter age over sub-adult analysis periods. Litter forms part of the Ngamo pride (N), litter forms part of the Dambwa pride (D).

Supp. Tab. 1: Weighted betweenness of adult lionesses before and after cubs. \* denotes mother within a pride, number signifies order of birth.

|  |  |  |  |
| --- | --- | --- | --- |
| Pride | ID | Pre-cubs | Post-cubs |
| D | KE | 0 | 0 |
| D | KW | 0 | 2 |
| D | LE\*2 | 0 | 2 |
| D | LO | 0 | 1 |
| D | RS\*1 | 4 | 1 |
| D | TE | 0 | - |
| N | AS\*2 | 0 | 4 |
| N | KE\*1 | 0 | 0 |
| N | KW | 0 | 0 |
| N | NL | 0 | 0 |
| N | NR | 0 | 0 |
| N | PH | 2 | 0 |
|  |  |  |  |

Supp. Tab. 2: Weighted betweenness values over sub-adult phases: Bold numbers denote the highest within pride value for that phase. \* indicates mothers of sub-adults.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Phase |  |  |  |  |  |  |  |  |  |  |
| Pride | ID | 15-18 m | 18-21 m | 21-24 m | 24-27 m | 27-30 m | 30-33 m | 33-36 m | 36-39 m | 39-42 m | 42-45 m | 45-48 m |
| D | KE | 16.5 | 21.3 | 2 | 2.5 | 4 | 1.67 | 3 | - | - | - | - |
| D | KW | 0 | 2 | 0 | 2 | 10 | 0 | 0 | - | - | - | - |
| D | LE\* | 12 | 20 | 11.3 | 5.5 | 0 | 0.25 | **12** | - | - | - | - |
| D | LO | 10 | 10 | 0 | 10.5 | 4 | 8.5 | 4 | - | - | - | - |
| D | RS\* | 17 | **36** | **15.8** | **11** | 7.5 | 2.75 | 7 | - | - | - | - |
| D | ZU | 3 | 0 | 6 | 0 | **26** | **22.7** | 5 | - | - | - | - |
| D | RS1 | 10.5 | 0.83 | 0 | 0 | 6 | 4 | 0 | - | - | - | - |
| D | RS2 | 0 | 2 | 4 | 1 | 13.5 | 3.33 | 1 | - | - | - | - |
| D | RS3 | 3 | 2 | 3 | 1 | 2 | 5.17 | 0 | - | - | - | - |
| D | LE1 | **23** | 6 | 2.33 | 7 | 4 | 12.9 | 3 | - | - | - | - |
| D | LE2 | 0 | 7.83 | 0 | 1.5 | 2 | 0 | 5 | - | - | - | - |
| D | LE3 | 11 | 9 | 4 | 0 | 2 | 3.25 | 4 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| N | AS\* | **33** | **9** | 9 | 4 | **9** | 4 | 4 | 3 | 3 | **14** | **8** |
| N | KE\* | 3 | 8 | 3 | 1 | 1 | 2 | 6 | 4 | 1 | 5 | 2 |
| N | KW | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| N | NL | 6 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| N | PH | 0 | 4 | 7 | 8 | 1 | 2 | **6** | **6** | 1 | 2 | 1 |
| N | MI | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| N | AT1 | 0 | 4 | **14** | 1 | 5.5 | 2 | 1 | 0 | 3 | 1 | 3 |
| N | KE3 | 0 | 0 | 1 | 1 | 6.5 | 1 | 1 | 3 | 0 | 1 | 1 |
| N | KE4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N | AS4 | 0 | 0 | 1 | **9** | 0 | 1 | 3 | 0 | 0 | 0 | 4 |
| N | AS5 | 10 | 0 | 0 | 0 | 0 | **7** | 3 | 4 | **4** | 8 | 4 |