**Appendix S5.** The weighted averages of ejaculate characteristics of captive and wild puma, cheetah, Iberian lynx, jaguars and lions. Values calculated from data in Appendix S3. Sperm motility index (SMI) = (% motile sperm + (20\* progressive motility))/2. Abbreviation: no data (ND).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Species | Lifestyle | n | Volume  (ml) | Concentration (x 106/ml) | SMI  (%) | Morphologically abnormal (%) |
| Puma | Captive | 40 | 2.9 | 23.9 | 61.2 | 82.5 |
|  | Wild | 47 | 2.7 | 12.8 | 56.5 | 80.9 |
| Cheetah | Captive | 831 | 1.5 | 30.3 | 51.1 | 74.0 |
|  | Wild | 62 | ND | 26.7 | 68.2 | 80.3 |
| Iberian lynx | Captive | 20 | 0.4 | 15.4 | 70.2 | 73.0 |
|  | Wild | 4 | 0.5 | 10.1 | 55.8 | 74.1 |
| Jaguar | Captive | 178 | 6.6 | 9.7 | 58.3 | 52.0 |
|  | Wild | 7 | 4.1 | 35.0 | 72.0 | 26.5 |
| Lion | Captive | 32 | 2.3 | 14.7 | 61.0 | 56.6 |
|  | Wild | 33 | 7.0 | 21.2 | 82.4 | 40.4 |
| Totals | Captive | 1110 | 2.4 | 26.0 | 53.4 | 70.0 |
|  | Wild | 156 | 2.6 | 11.8 | 67.3 | 69.5 |