|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Family** | **Hibernation season duration (day)** | **Body mass (g)** | | **Longevity (year)** | **Arboreality** | **Wild or Captivity** |
| Burramys parvus | Burramyidae | 210 1,2 | | 45 3 | 12 3 | Yes 4 | Wild |
| Cheirogaleus major | Cheirogaleidae | 150 5–7 | | 395 3 | 13.4 3 | Yes 8,9 | Captivity |
| Cheirogaleus medius | Cheirogaleidae | 210 10 | | 380 3 | 29 3 | Yes 4,8,11 | Captivity |
| Microcebus murinus | Cheirogaleidae | 186 12 | | 64.8 3 | 18.2 3 | Yes 4,13 | Captivity |
| Cricetus cricetus | Cricetidae | 180 14 | | 506.7 3 | 3.6 3 | No 15 | Captivity |
| Napaeozapus insignis | Dipodidae | 210 16 \* | | 22.25 17 | 4 17 | No 18 | Wild |
| Sicista betulina | Dipodidae | 210 19 \* | | 8.92 17 | 3.5 20 | No 9 | Wild |
| Zapus hudsonius | Dipodidae | 265 21 | | 18 3 | 5.6 3 | No 22 | Captivity |
| Zapus princeps | Dipodidae | 296 23 | | 27.2 17 | 6 24 | No 25 | Wild |
| Atelerix algirus | Erinaceidae | 120 26 | | 958 17 | 7 17 | No 27 | Captivity |
| Erinaceus concolor | Erinaceidae | 210 28 | | 719 3 | 7 3 | No 9 | Captivity |
| Erinaceus europaeus | Erinaceidae | 225 29 | | 750 3 | 11.7 3 | No 4 | Captivity |
| Hemiechinus auritus | Erinaceidae | 150 30 | | 342 3 | 7.6 3 | No 9 | Captivity |
| Dryomys nitedula | Gliridae | 240 31 | | 26 3 | 8 31 | Yes 9,32 | Wild |
| Eliomys quercinus | Gliridae | 210 33 | | 82.5 3 | 5.5 3 | Yes 9,34 | Captivity |
| Glirulus japonicus | Gliridae | 195 35 | | 27 3 | 7 3 | Yes 9,36 | Captivity |
| Glis glis | Gliridae | 282 37 | | 125 3 | 13 38 | Yes 9,39 | Wild |
| Muscardinus avellanarius | Gliridae | 210 40 | | 27.3 3 | 6 40,41 | Yes 9,42 | Wild |
| Chaetodipus formosus | Heteromyidae | 105 43 | | 19 3 | 7.1 3 | No 9 | Captivity |
| Microdipodops megacephalus | Heteromyidae | 150 44 | | 12.3 17 | 5.42 17 | No 45 | Captivity |
| Perognathus longimembris | Heteromyidae | 195 43 | | 8 3 | 8.3 3 | No 9 | Captivity |
| Perognathus parvus | Heteromyidae | 120 46 | | 20.1 3 | 5.8 3 | No 47 | Captivity |
| Miniopterus schreibersii | Miniopteridae | 150 48 \* | | 13 3 | 22 3 | No 4 | Wild |
| Meles meles | Mustelidae | 180 49 \* | | 13000 3 | 18.6 3 | No 4 | Captivity |
| Rhinolophus euryale | Rhinolophidae | 150 50–52 | | 8.2 3 | 21 53 | No 9 | Wild |
| Rhinolophus ferrumequinum | Rhinolophidae | 225 54 | | 22.875 3 | 30.5 3 | No 4 | Wild |
| Rhinolophus hipposideros | Rhinolophidae | 210 55 | | 4.6 3 | 29.4 3 | No 4 | Wild |
| Callospermophilus lateralis | Sciuridae | 274 56 | | 157.6 3 | 10.4 3 | No 57 | Captivity |
| Ictidomys tridecemlineatus | Sciuridae | 225 58 | | 172.7 3 | 7.9 3 | No 59 | Captivity |
| Marmota bobak | Sciuridae | 240 60 \* | | 7300 17 | 15 17 | No 9 | Wild |
| Marmota caligata | Sciuridae | 240 61 \* | | 4300 3 | 12.1 3 | No 61 | Captivity |
| Marmota flaviventris | Sciuridae | 240 62 | | 3500 3 | 21.2 3 | No 63 | Captivity |
| Marmota marmota | Sciuridae | 195 64 | | 3500 3 | 17.4 3 | No 4 | Captivity |
| Marmota monax | Sciuridae | 166.9 65 | | 4000 3 | 14 3 | No 4 | Captivity |
| Marmota vancouverensis | Sciuridae | 210 66 | | 4750 3 | 12.1 3 | No 4 | Captivity |
| Otospermophilus beecheyi | Sciuridae | 210 67 | | 508.5 68 | 5 53 | No 69 | Wild |
| Otospermophilus variegatus | Sciuridae | 210 70 \* | | 663 3 | 9.8 3 | Yes 71–74 | Captivity |
| Poliocitellus franklinii | Sciuridae | 255 75 | | 459 3 | 7.2 3 | No 76 | Captivity |
| Spermophilus citellus | Sciuridae | 225 77 | | 217 3 | 6.7 3 | No 4 | Captivity |
| Spermophius dauricus | Sciuridae | 210 78 \* | | 223.8 68 | 7 78 | No 9 | Wild |
| Spermophilus pygmaeus | Sciuridae | 240 79 | | 136 3 | 7.1 3 | No 9 | Captivity |
| Tamias amoenus | Sciuridae | 150 80 | | 50.63 17 | 5.17 81 | Yes 9,82–84 | Wild |
| Tamias sibiricus | Sciuridae | 210 85 | | 85 3 | 9.6 3 | Yes 9,84–86 | Captivity |
| Tamias striatus | Sciuridae | 210 87 | | 96 3 | 9.5 3 | Yes 9,84,88–90 | Captivity |
| Tamias townsendii | Sciuridae | 135 91 | | 75 3 | 9.3 3 | Yes 9,84,92–94 | Captivity |
| Urocitellus armatus | Sciuridae | 289 95 | | 306.48 17 | 7 96 | No 97 | Wild |
| Urocitellus beldingi | Sciuridae | 270 98 | | 265.2 68 | 12 99 | No 100 | Wild |
| Urocitellus brunneus | Sciuridae | 240 101 | | 300 17 | 8 101 | No 102 | Wild |
| Urocitellus columbianus | Sciuridae | 285 103 | | 470.9417 | 11 104 | No 105 | Wild |
| Urocitellus parryii | Sciuridae | 240 106 | | 524.3 68 | 10 107 | No 108 | Wild |
| Urocitellus richardsonii | Sciuridae | 258 109 | | 325.1 17 | 6 110 | No 111 | Wild |
| Xerospermophilus mohavensis | Sciuridae | 210 112 \* | | 150 3 | 7.8 3 | No 113 | Captivity |
| Xerospermophilus tereticaudus | Sciuridae | 240 114 | | 163.3 3 | 8.9 3 | No 112 | Captivity |
| Tachyglossus aculeatus | Tachyglossidae | 180 115 | | 3500 3 | 49.5 3 | No 4 | Captivity |
| Setifer setosus | Tenrecidae | 210 116 | | 225 3 | 14.1 3 | Yes 4,117,118 | Captivity |
| Tenrec ecaudatus | Tenrecidae | 270 119 | | 900 3 | 8.7 3 | No 120 | Captivity |
| Ursus americanus | Ursidae | 210 121 \* | | 154250 3 | 34 3 | No 4 | Captivity |
| Ursus arctos | Ursidae | 215 122 | | 277500 3 | 40 3 | No 4 | Captivity |
| Ursus thibetanus | Ursidae | 150 123 | | 103750 3 | 39.2 3 | Yes 4,124,125 | Captivity |
| Barbastella barbastellus | Vespertilionidae | 225 126 | | 10.25 3 | 23 3 | No 4 | Wild |
| Corynorhinus rafinesquii | Vespertilionidae | 135 127 | | 9.15 17 | 10.1 17 | No 128 | Wild |
| Eptesicus fuscus | Vespertilionidae | 180 129 | | 23 3 | 19 3 | No 4 | Wild |
| Eptesicus nilssonii | Vespertilionidae | 180 130 \* | | 13 3 | 20 3 | No 4 | Wild |
| Eptesicus serotinus | Vespertilionidae | 210 131 | | 18.2 3 | 21 3 | No 4 | Wild |
| Lasiurus cinereus | Vespertilionidae | 180 132 | | 24 3 | 14 3 | No 4 | Wild |
| Myotis austroriparius | Vespertilionidae | 210 133,134 \* | | 7.35 17 | 6 17 | No 133 | Wild |
| Myotis brandtii | Vespertilionidae | 255 135 \* | | 7 3 | 41 3 | No 4 | Wild |
| Myotis dasycneme | Vespertilionidae | 195 136 \* | | 15.16 17 | 19.5 17 | No 4 | Wild |
| Myotis daubentonii | Vespertilionidae | 240 137 | | 8.5 3 | 28 3 | No 4 | Wild |
| Myotis grisescens | Vespertilionidae | 120 138 \* | | 9.25 3 | 16.5 3 | No 4 | Wild |
| Myotis keenii | Vespertilionidae | 180 139 | | 7.4 3 | 19 3 | No 4 | Wild |
| Myotis lucifugus | Vespertilionidae | 241 140 | | 10 3 | 34 3 | No 4 | Wild |
| Myotis myotis | Vespertilionidae | 150 141 | | 28.55 3 | 37.1 3 | No 4 | Wild |
| Myotis septentrionalis | Vespertilionidae | 180 142 | | 7 143 | 19 144 | No 145 | Wild |
| Myotis sodalis | Vespertilionidae | 210 146 | | 7.7 3 | 20 3 | No 4 | Wild |
| Myotis velifer | Vespertilionidae | 180 147 | | 10.1 3 | 11.3 3 | No 4 | Wild |
| Nyctalus noctula | Vespertilionidae | 150 52,148 | | 27.75 3 | 12 3 | No 4 | Wild |
| Pipistrellus kuhlii | Vespertilionidae | 150 149\* | | 6 3 | 8 3 | No 4 | Wild |
| Pipistrellus pipistrellus | Vespertilionidae | 150 52,150 | | 5 3 | 16.6 3 | No 4 | Wild |
| Pipistrellus subflavus | Vespertilionidae | 180 151 | | 7.5 3 | 14.8 3 | No 4 | Wild |
| Plecotus auritus | Vespertilionidae | 150 152 | | 7.8 3 | 30 3 | No 4 | Wild |
| Plecotus austriacus | Vespertilionidae | 180 152 | | 12 3 | 25.5 3 | No 4 | Wild |

Table S2: Data on hibernation season duration, body mass, longevity and arboreality lifestyle of all mammals studied in the different models. Hibernation season duration with (\*) corresponds to publications for which the methodology used to determine this duration could not be verified. The “Wild or Captivity” parameter refers to the source of longevity data. The “arboreality” parameter distinguishes between species considered arboreal and semi-arboreal (Yes) and non-arboreal (No). Brown bear (*Ursus arctos*) and American black bear (*Ursus americanus*) have been defined as non-arboreal, as in Healy et al, 2014, as the majority of adults are losing this lifestyle 153 contrary to Asian black bear (*Ursus thibetanus*) 124. Bats were considered to be non-arboreal even though it nests in trees as nesting in a protected area is a common characteristic of all bats and therefore already taken into account in the “bat (yes/no)” factor.

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