**Supplementary information:**

**TABLE S1** List of large and medium mammals recorded at CSMCD and PNSD and Threatening status according to international and national mechanisms, plus trophic guild.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Species name** | **Common name** | **Regional name** | **IUCN** | **DS 004** | **CCSMCD** | **PNSD** | **TG** |
| **ORDER DIDELPHIMORPHIA** |  |  |  |  |  |  |  |
| **Family Didelphidae** |  |  |  |  |  |  |  |
| *Didelphis marsupialis* | Common Opossum | Zorro | LC |  | x | x | Om |
| **ORDER CINGULATA** |  |  |  |  |  |  |  |
| **Family Chlamyphoridae** |  |  |  |  |  |  |  |
| ***Priodontes maximus*** | **Giant Armadillo** | **Carachupa gigante** | **VU** | **VU** |  | **x** | In |
| **Family Dasypodidae** |  |  |  |  |  |  |  |
| *Dasypus novemcinctus* | Nine-banded armadillo | Carachupa | LC |  | x | x | In, Fr, Gr, Li |
| **ORDER PILOSA** |  |  |  |  |  |  |  |
| **Familia Myrmecophagidae** |  |  |  |  |  |  |  |
| ***Myrmecophaga tridactyla*** | **Giant Anteater** | **Oso bandera u Oso hormiguero gigante** | **VU** | **VU** | **x** | **x** | **In** |
| *Tamandua tetradactyla* | Southern Tamandua | Oso hormiguero | LC |  | x |  | In |
| **ORDER PRIMATES** |  |  |  |  |  |  |  |
| **Family Cebidae** |  |  |  |  |  |  |  |
| *Cebus albifrons* | Humboldt's White-fronted Capuchin | Machin blanco | LC |  |  | x | Fr, Fo, In |
| *Saimiri boliviensis boliviensis* | Bolivian Squirrel Monkey | Huasa | LC |  | x | x | Fr, In |
| **ORDER RODENTIA** |  |  |  |  |  |  |  |
| **Family Sciuridae** |  |  |  |  |  |  |  |
| *Sciurus spadiceus* | Southern Amazon Red Squirrel | Ardilla rojiza | LC |  | x | x | Gr, Fr |
| **Family Dasyproctidae** |  |  |  |  |  |  |  |
| *Dasyprocta fuliginosa* | Black Agouti | Añuje | LC |  | x | x | Fr, Fo |
| *Myoprocta pratti* | Green Acouchi | Punchana | LC |  | x | x | Fr, Gr |
| **Family Cuniculidae** |  |  |  |  |  |  |  |
| *Cuniculus paca* | Spotted Paca | Majaz | LC |  | x | x | Fr, Gr |
| **ORDER CARNIVORA** |  |  |  |  |  |  |  |
| **Family Canidae** |  |  |  |  |  |  |  |
| ***Atelocynus microtis*** | **Short-eared Dog** | **Perro de orejas cortas** | **NT** | **VU** |  | **x** | Ca, Om |
| **Family Felidae** |  |  |  |  |  |  |  |
| *Herpailurus yagouaroundi* | Jaguarundi | Yaguarundi | LC |  | x | x | Ca |
| *Leopardus pardalis* | Ocelot | Tigrillo | LC |  | x | x | Ca |
| ***Leopardus wiedii*** | **Margay** | **Huamburushu** | **NT** | **DD** |  | **x** | Ca |
| ***Panthera onca*** | **Jaguar** | **Tigre u Otorongo** | **NT** | **NT** | x | **x** | **Ca** |
| *Puma concolor* | Puma | Tigre colorado o Puma | LC | NT | x | x | Ca |
| **Family Mustelidae** |  |  |  |  |  |  |  |
| *Eira barbara* | Tayra | Manco | LC |  | x | x | Om |
| ***Pteronura brasiliensis*** | **Giant Otter** | **Lobo de río** | **EN** | **EN** |  | **x** | Ca |
| **Family Procyonidae** |  |  |  |  |  |  |  |
| *Nasua nasua* | South American Coati | Achuni | LC |  | x | x | Om |
| *Procyon cancrivorus* | Crab-eating Raccoon | Mapache | LC |  | x |  | Om |
| **ORDER PERISSODACTYLA** |  |  |  |  |  |  |  |
| **Family Tapiridae** |  |  |  |  |  |  |  |
| ***Tapirus terrestris*** | **Lowland tapir** | **Sachavaca o tapir** | **VU** | **NT** | **x** | **x** | **Fo, Fr** |
| **ORDER CETARTIODACTYLA** |  |  |  |  |  |  |  |
| **Family Tayassuidae** |  |  |  |  |  |  |  |
| *Dicotyles tajacu* | Collared Peccary | Sajino | LC |  | x | x | Om |
| ***Tayassu pecari*** | **White-lipped Peccary** | **Huangana** | **VU** | **NT** | **x** | **x** | **Om** |
| **Family Cervidae** |  |  |  |  |  |  |  |
| *Mazama americana* | Red Brocket | Venado colorado | DD | DD | x | x | Fo, Fr, Gr, Li |
| *Mazama nemorivaga* | Amazonian Brown Brocket | Venado gris | LC |  | x | x | Fo, Fr, Gr, Li |

Species names in bold highlight their conservation status. IUCN= International Union for Conservation Nature Red List, DS 004= DS N°004-2014-MINAGRI Peru, CSMCD= Concesión Santos Mario Castillo Domínguez, PNSD= Parque Nacional Sierra del Divisor. LC= Least concern, NT= Near Threatened, DD= Data deficient, VU=Vulnerable. TG= Trophic Guild, Ca= carnivorous, Om= Omnivorous, Fo= Folivore, Fr= Frugivore, In= Insectivore, Gr= Granivore, Li= Lignivore. Trophic Guild source: IUCN species assessment

**TABLE S2** Relative Abundance Indices of large and medium mammals found in the study. Order from predators to prey and larger to smaller.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **CSMCD** | | | | | **PNSD** | | | | |
| **Species** | **n** | **RAI** | **SD** | **Min** | **Max** | **n** | **RAI** | **SD** | **Min** | **Max** |
| *P. onca* | 4 | 0.209 | 0.102 | 0.051 | 0.413 | 2 | 0.076 | 0.072 | 0.000 | 0.231 |
| *P. concolor* | 6 | 0.305 | 0.135 | 0.101 | 0.606 | 5 | 0.190 | 0.157 | 0.000 | 0.528 |
| *P. brasiliensis* | - | - | - | - | - | 3 | 0.101 | 0.074 | 0.000 | 0.269 |
| *L. pardalis* | 16 | 1.119 | 0.363 | 0.507 | 1.894 | 4 | 0.144 | 0.144 | 0.000 | 0.447 |
| *A. microtis* | - | - | - | - | - | 8 | 0.930 | 0.571 | 0.150 | 2.284 |
| *H. yagouaroundi* | 1 | 0.046 | 0.046 | 0.000 | 0.139 | 1 | 0.037 | 0.036 | 0.000 | 0.108 |
| *E. barbara* | 13 | 0.652 | 0.420 | 0.053 | 1.671 | 19 | 0.715 | 0.276 | 0.256 | 1.314 |
| *N. nasua* | 5 | 0.277 | 0.145 | 0.049 | 0.592 | 8 | 0.319 | 0.114 | 0.107 | 0.569 |
| *P. cancrivorus* | 1 | 0.053 | 0.052 | 0.000 | 0.160 | - | - | - | - | - |
| *L. wiedii* | - | - | - | - | - | 10 | 0.393 | 0.151 | 0.132 | 0.716 |
| *T. terrestris* | 145 | 7.566 | 3.256 | 2.687 | 14.798 | 23 | 1.200 | 0.377 | 0.540 | 1.965 |
| *M. tridactyla* | 2 | 0.107 | 0.072 | 0.000 | 0.253 | 8 | 0.296 | 0.129 | 0.075 | 0.587 |
| *P. maximus* | - | - | - | - | - | 1 | 0.036 | 0.036 | 0.000 | 0.108 |
| *T. pecari* | 20 | 0.993 | 0.626 | 0.046 | 2.388 | 27 | 1.777 | 0.599 | 0.808 | 3.091 |
| *M. americana* | 45 | 2.661 | 0.772 | 1.322 | 4.342 | 113 | 5.083 | 1.198 | 2.910 | 7.570 |
| *M. nemorivaga* | 4 | 0.196 | 0.138 | 0.000 | 0.512 | 31 | 2.289 | 1.181 | 0.552 | 5.002 |
| *D. tajacu* | 21 | 1.138 | 0.430 | 0.472 | 2.101 | 88 | 4.201 | 0.896 | 2.571 | 5.977 |
| *C. paca* | 127 | 7.381 | 2.007 | 3.682 | 11.681 | 237 | 9.438 | 2.714 | 4.972 | 15.533 |
| *T. tetradactyla* | 2 | 0.105 | 0.073 | 0.000 | 0.261 | - | - | - | - | - |
| *D. novemcinctus* | 22 | 1.448 | 0.417 | 0.703 | 2.322 | 66 | 2.811 | 0.654 | 1.657 | 4.168 |
| *D. fuliginosa* | 165 | 8.694 | 2.827 | 4.221 | 14.892 | 229 | 9.987 | 1.648 | 6.864 | 13.419 |
| *D. marsupialis* | 36 | 5.028 | 2.792 | 1.148 | 11.350 | 63 | 5.020 | 2.358 | 1.807 | 10.450 |
| *M. pratti* | 1 | 0.045 | 0.046 | 0.000 | 0.146 | 7 | 0.970 | 0.620 | 0.036 | 2.348 |

n= Number of independent records, RAI=Relative Abundance Index, SD=Standard Deviation, Min & Max confidence intervals of 95%