**Supplementary Material**

**Supplementary Tables**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table A.1.** Ninety useful palm species found in the 197 transects in northwestern South America, showing total number of adult-subadult individuals found, number of transects where a species was found, in which of the 15 localities a species was found, density in eight different habitats, classification of growth-form, total number of uses and total number of informants reporting uses. Abbreviations used for growth forms (cf. Balslev et al. 2011): A- L= Acaulescent large; A-S = Acaulescent small; C = Climbing; L = Large tall-stemmed; L-M = Large-leaved Medium-short stemmed; M = Medium; S = Small. | | | | | | | | | | | | | | |
|  |  |  |  | Individuals (adult-subadult) per habitat | | | | | | | |  |  |  |
| Species name | No. Adult-subadult Individuals | No. transects | Locality | Amazon non-inundated | Amazon floodplain | Amazon pre-montane hills | Chocó non-inundated | Chocó floodplain | Chocó pre-montane hills | Lower montane | Upper montane | Growth-form | Palm uses | Informants |
| *Aiphanes deltoidea* | 2 | 1 | 1 | 2 |  |  |  |  |  |  |  | S | 2 | 1 |
| *Aiphanes horrida* | 140 | 14 | 7, 14 | 14 |  |  |  |  |  | 126 |  | S | 8 | 203 |
| *Aiphanes ulei* | 11 | 6 | 3 | 11 |  |  |  |  |  |  |  | S | 5 | 50 |
| *Ammandra decasperma* | 32 | 2 | 12 |  |  |  | 32 |  |  |  |  | L-M | 6 | 19 |
| *Asterogyne martiana* | 83 | 12 | 12 |  |  |  | 34 | 49 |  |  |  | S | 7 | 50 |
| *Astrocaryum chambira* | 125 | 18 | 1, 2, 3, 5 | 125 |  |  |  |  |  |  |  | L | 48 | 517 |
| *Astrocaryum ciliatum* | 82 | 10 | 1 | 67 | 15 |  |  |  |  |  |  | A-L | 21 | 55 |
| *Astrocaryum ferrugineum* | 424 | 10 | 2 | 424 |  |  |  |  |  |  |  | L-M | 6 | 88 |
| *Astrocaryum gratum* | 12 | 5 | 11 | 3 | 9 |  |  |  |  |  |  | L-M | 22 | 130 |
| *Astrocaryum jauari* | 17 | 5 | 1, 4, 5 | 9 | 8 |  |  |  |  |  |  | L | 24 | 370 |
| *Astrocaryum standleyanum* | 2 | 2 | 13 |  |  |  | 2 |  |  |  |  | L | 17 | 106 |
| *Astrocaryum urostachys* | 22 | 6 | 3 | 22 |  |  |  |  |  |  |  | L-M | 8 | 65 |
| *Attalea allenii* | 84 | 15 | 12 |  |  |  | 71 | 13 |  |  |  | A-L | 14 | 86 |
| *Attalea butyracea* | 113 | 16 | 2, 3, 5, 6, 11 | 59 | 54 |  |  |  |  |  |  | L | 40 | 608 |
| *Attalea colenda* | 1 | 1 | 13 |  |  |  | 1 |  |  |  |  | L | 16 | 84 |
| *Attalea insignis* | 2 | 2 | 1 | 2 |  |  |  |  |  |  |  | A-L | 26 | 254 |
| *Attalea maripa* | 4 | 2 | 1, 10 | 4 |  |  |  |  |  |  |  | L | 62 | 503 |
| *Attalea microcarpa* | 106 | 11 | 1, 5 | 97 | 9 |  |  |  |  |  |  | A-L | 24 | 113 |
| *Attalea phalerata* | 197 | 40 | 4, 5, 7, 8, 9, 11, 14 | 81 | 100 | 3 |  |  |  | 13 |  | L | 48 | 837 |
| *Attalea plowmanii* | 7 | 2 | 1 | 7 |  |  |  |  |  |  |  | A-L | 12 | 79 |
| *Bactris acanthocarpa* | 5 | 4 | 1 | 5 |  |  |  |  |  |  |  | S | 14 | 25 |
| *Bactris bidentula* | 5 | 1 | 4 |  | 5 |  |  |  |  |  |  | S | 6 | 59 |
| *Bactris bifida* | 16 | 4 | 5 | 16 |  |  |  |  |  |  |  | S | 8 | 199 |
| *Bactris brongniartii* | 911 | 19 | 4, 5 | 438 | 473 |  |  |  |  |  |  | S | 8 | 187 |
| *Bactris chaveziae* | 1 | 1 | 6 |  | 1 |  |  |  |  |  |  | S | 1 | 63 |
| *Bactris coloniata* | 86 | 12 | 12 |  |  |  | 84 | 2 |  |  |  | S | 10 | 83 |
| *Bactris concinna* | 2182 | 40 | 4, 5, 7, 8, 9, 11 | 705 | 1475 | 2 |  |  |  |  |  | S | 15 | 492 |
| *Bactris corossilla* | 117 | 10 | 1, 3 | 117 |  |  |  |  |  |  |  | S | 20 | 151 |
| *Bactris fissifrons* | 69 | 5 | 1 | 62 | 7 |  |  |  |  |  |  | S | 4 | 3 |
| *Bactris gasipaes var. chichagui* | 52 | 10 | 7, 11, 13 | 3 | 1 |  | 24 |  | 24 |  |  | M | 23 | 148 |
| *Bactris hirta* | 116 | 22 | 1, 2, 5 | 106 | 10 |  |  |  |  |  |  | S | 6 | 48 |
| *Bactris hondurensis* | 101 | 13 | 12 |  |  |  | 89 | 12 |  |  |  | S | 6 | 5 |
| *Bactris killipii* | 5 | 2 | 1 | 5 |  |  |  |  |  |  |  | S | 6 | 15 |
| *Bactris macroacantha* | 42 | 7 | 1 | 42 |  |  |  |  |  |  |  | S | 7 | 4 |
| *Bactris major* | 51 | 2 | 6 |  | 51 |  |  |  |  |  |  | S | 9 | 221 |
| *Bactris maraja* | 601 | 53 | 1, 2, 4, 5, 8, 11, 12 | 314 | 107 |  | 60 | 119 | 1 |  |  | S | 20 | 255 |
| *Bactris martiana* | 314 | 2 | 1 | 1 | 313 |  |  |  |  |  |  | S | 5 | 18 |
| *Bactris riparia* | 6 | 1 | 1 | 6 |  |  |  |  |  |  |  | S | 12 | 156 |
| *Bactris simplicifrons* | 89 | 12 | 1 | 84 | 5 |  |  |  |  |  |  | S | 5 | 10 |
| *Ceroxylon parvum* | 21 | 3 | 14 |  |  |  |  |  |  | 21 |  | M | 3 | 97 |
| *Ceroxylon ventricosum* | 1 | 1 | 15 |  |  |  |  |  |  |  | 1 | L | 15 | 59 |
| *Ceroxylon vogelianum* | 69 | 4 | 15 |  |  |  |  |  |  |  | 69 | M | 24 | 166 |
| *Chamaedorea angustisecta* | 16 | 10 | 7, 8, 10, 11 | 10 | 6 |  |  |  |  |  |  | S | 13 | 243 |
| *Chamaedorea pauciflora* | 16 | 7 | 1, 3 | 16 |  |  |  |  |  |  |  | S | 13 | 141 |
| *Chamaedorea pinnatifrons* | 133 | 19 | 6, 8, 14 | 8 | 16 | 12 |  |  |  | 97 |  | S | 9 | 134 |
| *Chelyocarpus dianeurus* | 20 | 8 | 12 |  |  |  | 18 | 2 |  |  |  | S | 4 | 18 |
| *Chelyocarpus ulei* | 15 | 4 | 5, 10, 11 | 15 |  |  |  |  |  |  |  | S | 11 | 136 |
| *Desmoncus cirrhifer* | 12 | 7 | 12 |  |  |  | 12 |  |  |  |  | C | 7 | 71 |
| *Desmoncus giganteus* | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  | C | 8 | 150 |
| *Desmoncus mitis* | 105 | 10 | 1, 4 | 5 | 100 |  |  |  |  |  |  | C | 9 | 108 |
| *Desmoncus orthacanthos* | 5 | 2 | 4 |  | 5 |  |  |  |  |  |  | C | 1 | 5 |
| *Desmoncus polyacanthos* | 147 | 26 | 1, 3, 4, 5, 11 | 54 | 93 |  |  |  |  |  |  | C | 13 | 227 |
| *Dictyocaryum lamarckianum* | 198 | 10 | 14 |  |  |  |  |  |  | 198 |  | L | 11 | 37 |
| *Elaeis oleifera* | 18 | 2 | 3 | 18 |  |  |  |  |  |  |  | L-M | 5 | 41 |
| *Euterpe oleracea* | 28 | 2 | 12 |  |  |  |  | 28 |  |  |  | L | 26 | 216 |
| *Euterpe precatoria* | 580 | 125 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 | 348 | 108 | 48 | 15 | 1 |  | 60 |  | L | 62 | 1019 |
| *Geonoma brongniartii* | 301 | 9 | 6 |  | 301 |  |  |  |  |  |  | S | 3 | 46 |
| *Geonoma cuneata* | 266 | 18 | 12, 13 |  |  |  | 244 | 17 | 5 |  |  | S | 7 | 19 |
| *Geonoma deversa* | 6112 | 61 | 1, 2, 6, 7, 8, 9, 10, 11, 14 | 4111 | 1063 | 922 |  |  |  | 16 |  | S | 12 | 609 |
| *Geonoma longepedunculata* | 73 | 2 | 3 | 73 |  |  |  |  |  |  |  | S | 1 | 47 |
| *Geonoma macrostachys* | 1963 | 55 | 1, 3, 5, 6, 11 | 1661 | 302 |  |  |  |  |  |  | A-S | 6 | 261 |
| *Geonoma maxima* | 38 | 11 | 1, 2, 11 | 36 | 2 |  |  |  |  |  |  | S | 8 | 53 |
| *Geonoma poeppigiana* | 318 | 15 | 5 | 316 | 2 |  |  |  |  |  |  | S | 1 | 59 |
| *Geonoma stricta* | 473 | 21 | 1, 3 | 465 | 8 |  |  |  |  |  |  | S | 8 | 32 |
| *Geonoma undata* | 649 | 16 | 14, 15 |  |  |  |  |  |  | 589 | 60 | S | 8 | 98 |
| *Hyospathe elegans* | 1055 | 36 | 1, 2, 3, 6, 9 | 449 | 278 | 328 |  |  |  |  |  | S | 14 | 203 |
| *Iriartea deltoidea* | 1022 | 96 | 2, 3, 5, 6, 7, 8, 9, 10, 11, 13, 14 | 491 | 183 | 150 | 143 |  | 4 | 51 |  | L | 57 | 1189 |
| *Iriartella setigera* | 42 | 11 | 1 | 36 | 6 |  |  |  |  |  |  | S | 20 | 158 |
| *Iriartella stenocarpa* | 249 | 15 | 3, 5 | 234 | 15 |  |  |  |  |  |  | S | 4 | 83 |
| *Lepidocaryum tenue* | 1407 | 15 | 1, 5 | 1289 | 118 |  |  |  |  |  |  | S | 15 | 451 |
| *Maniaria martiana* | 2 | 1 | 1 | 2 |  |  |  |  |  |  |  | L-M | 12 | 57 |
| *Manicaria saccifera* | 55 | 12 | 12 |  |  |  | 35 | 20 |  |  |  | L-M | 30 | 157 |
| *Mauritiella armata* | 1 | 1 | 4 |  | 1 |  |  |  |  |  |  | M | 19 | 373 |
| *Mauritia flexuosa* | 51 | 16 | 1, 2, 3, 4, 5, 6, 8, 10 | 38 | 13 |  |  |  |  |  |  | L | 52 | 849 |
| *Mauritiella macroclada* | 53 | 3 | 12 |  |  |  | 2 | 51 |  |  |  | S | 7 | 73 |
| *Oenocarpus bacaba* | 5 | 1 | 1 | 5 |  |  |  |  |  |  |  | L | 24 | 106 |
| *Oenocarpus balickii* | 6 | 4 | 1 | 6 |  |  |  |  |  |  |  | M | 10 | 51 |
| *Oenocarpus bataua* | 318 | 76 | 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 | 142 | 30 | 23 | 50 | 6 | 2 | 65 |  | L | 84 | 1231 |
| *Oenocarpus mapora* | 375 | 66 | 1, 3, 4, 5, 8, 9, 10, 11, 12 | 181 | 80 | 24 | 80 | 10 |  |  |  | M | 34 | 807 |
| *Phytelephas aequatorialis* | 7 | 4 | 13 |  |  |  | 4 |  | 3 |  |  | L-M | 13 | 52 |
| *Phytelephas macrocarpa* | 582 | 22 | 2, 4, 5, 7, 8, 11 | 575 | 7 |  |  |  |  |  |  | L-M | 24 | 658 |
| *Phytelephas tenuicaulis* | 96 | 5 | 3 | 96 |  |  |  |  |  |  |  | L-M | 5 | 65 |
| *Prestoea acuminata* | 16 | 4 | 15 |  |  |  |  |  |  |  | 16 | M | 20 | 163 |
| *Socratea exorrhiza* | 539 | 113 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 | 197 | 100 | 46 | 32 | 8 | 15 | 141 |  | L | 48 | 1111 |
| *Synechanthus warscewiczianus* | 207 | 8 | 13 |  |  |  | 206 |  | 1 |  |  | S | 4 | 34 |
| *Welfia regia* | 76 | 14 | 12, 13 |  |  |  | 75 | 1 |  |  |  | M | 7 | 93 |
| *Wettinia augusta* | 75 | 8 | 9, 10 | 66 |  | 9 |  |  |  |  |  | S | 9 | 34 |
| *Wettinia maynensis* | 9 | 3 | 3 | 9 |  |  |  |  |  |  |  | M | 7 | 59 |
| *Wettinia quinaria* | 121 | 14 | 12, 13 |  |  |  | 104 | 17 |  |  |  | M | 17 | 195 |
| *Wettinia radiata* | 11 | 6 | 12 |  |  |  | 10 | 1 |  |  |  | S | 6 | 25 |

**Table A.2.** Spearman correlation between palm species use values and maximum stem height, maximum fruit diameter, maximum midleaf length and abundance.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sub-region/Locality | Max. Stem height | Max. Fruit diameter | Max. Midleaf length | Abundance |
| **Northwest Amazon** | **0.55\*\*\*** | **0.53\*\*\*** | **0.51\*\*\*** | **-0.03** |
| 1 – La Pedrera | 0.56\*\*\* | 0.51\*\*\* | 0.60\*\*\* | -0.13 |
| 2 – Amacayacu | 0.53\*\* | 0.47 | 0.35 | 0.35 |
| 3 – Kapawi | 0.63\*\*\* | 0.72\*\*\* | 0.59\*\*\* | 0.008 |
| 4 – Río Samiria | 0.35 | 0.39 | 0.54\* | -0.26 |
| 5 – Río Tahuayo | 0.47\*\*\* | 0.5\*\*\* | 0.47\*\*\* | -0.05 |
| **Southwest Amazon** | **0.59\*\*\*** | **0.6\*\*\*** | **0.63\*\*\*** | **-0.01** |
| 6 – Chapare | 0.42\* | 0.54 | 0.36 | 0.3 |
| 7 – Tahuamanu | 0.59\*\*\* | 0.56 | 0.53\*\* | -0.08 |
| 8 – Madidi | 0.53\* | 0.48 | 0.5\* | 0.13 |
| 9 – Madre de Dios 1 | 0.63\*\*\* | 0.65\*\* | 0.77\*\*\* | -0.26 |
| 10 – Madre de Dios 2 | 0.75\*\*\* | 0.55\*\* | 0.72\*\*\* | 0.04 |
| 11 – Palma Real | 0.64\*\* | 0.81\* | 0.81\*\*\* | -0.19 |
| **Chocó** | **0.45\*\*\*** | **0.61\*** | **0.53\*\*\*** | **0.38** |
| 12 – Puerto Pervel | 0.38\*\* | 0.58 | 0.47\*\*\* | 0.55 |
| 13 – Santo Domingo | 0.66\*\* | 0.72 | 0.65\* | -0.04 |
| **Andes** | **0.43** | **0.28\*\*\*** | **0.58\*\*\*** | **0.49** |
| 14 – Franz Tamayo | 0.42 | 0.38\*\* | 0.52\*\* | 0.63 |
| 15 – Sibundoy | 0.41 | 0.22 | 0.74 | 0.36 |
| \*\*\**P* < 0.001, \*\**P* < 0.01, \**P* < 0.05 assessed using a permutation test with 10,000 runs. | | | | |

**Table A.3.** Local-scale usefulness based on pairwise comparisons of summed use value between transects.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Locality | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1 – La Pedrera | - | \*\*\* | \*\* | \*\*\* | \* | \*\*\* | |  |  |  | \*\*\* | \*\* |  | \* |  |
| 2 – Amacayacu |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 – Kapawi |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 – Río Samiria |  |  |  | - |  |  |  |  |  |  |  |  |  |  |  |
| 5 – Río Tahuayo |  |  |  |  | - |  |  |  |  |  |  |  |  |  |  |
| 6 – Chapare |  |  |  |  |  | - |  |  |  |  |  |  |  |  |  |
| 7 – Tahuamanu |  | \*\*\* | \*\*\* | \*\*\* | | \*\*\* | - |  |  |  | \*\*\* | \* |  |  |  |
| 8 – Madidi |  |  |  |  |  |  |  | - |  |  |  |  |  |  |  |
| 9 – Madre de Dios 1 |  | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | | \* | - |  | \*\*\* | \*\*\* | | \*\* |  |
| 10 – Madre de Dios 2 |  |  |  |  |  |  |  |  |  | - |  |  |  |  |  |
| 11 – Palma Real |  |  |  |  |  |  |  |  |  |  | - |  |  |  |  |
| 12 – Puerto Pervel |  | \*\* |  |  |  | \*\* |  |  |  |  |  | - |  |  |  |
| 13 – Santo Domingo |  |  |  |  |  |  |  |  |  |  |  |  | - |  |  |
| 14 – Franz Tamayo |  | \* |  |  |  |  |  |  |  |  |  |  |  | - |  |
| 15 – Sibundoy |  | \*\* | \* | \*\* |  | \*\* |  |  |  |  | \*\* |  |  |  | - |
| The vertical column represents the most useful forest type in each pairwise comparison. Only locality numbers are shown in columns. \*\*\* *P* < 0.001, \*\* *P* < 0.01, \* *P* < 0.05. | | | | | | | | | | | | | | | |

**Table A.4.** Mean density (palms ha-1) of the 12 most important species in each locality grouped by their respective growth forms. Zeros indicate highly useful species absent from transects.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sub-region | Northwest Amazon | | | | | Southwest Amazon | | | | | | Chocó | | Andes | |
| Locality | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Large tall-stemmed** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Astrocaryum chambira* Burret | 2 | 54 | 1.8 | 0 | 0.8 |  |  |  |  |  |  |  |  |  |  |
| *Astrocaryum jauari* Mart. |  |  |  | 1.1 |  |  |  |  |  |  |  |  |  |  |  |
| *Astrocaryum standleyanum* L.H.Bailey |  |  |  |  |  |  |  |  |  |  |  |  | 0.9 |  |  |
| *Attalea butyracea* (Mutis ex L.f.) Wess.Boer |  | 25.5 | 2.5 | 0 | 0.2 | 14 | 0 |  |  |  | 1 |  |  |  |  |
| *Attalea colenda* (O.F.Cook) Balslev & A.J.Hend. |  |  |  |  |  |  |  |  |  |  |  |  | 0.4 |  |  |
| *Attalea maripa* (Aubl.) Mart. | 0.5 | 0 | 0 |  | 0 |  |  |  | 0 |  | 0 |  |  |  |  |
| *Attalea phalerata* Mart. ex Spreng. |  |  | 0 | 27 | 2.3 | 0 | 18 | 0.8 | 3.8 | 0 | 4 |  |  | 3.5 |  |
| *Ceroxylon ventricosum* Burret |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.5 |
| *Dictyocaryum lamarckianum* (Mart.) H.Wendl. |  |  |  |  |  |  |  |  |  |  |  |  |  | 53 |  |
| *Euterpe oleracea* Mart. |  | 0 |  |  |  |  |  |  |  |  |  | 7.5 |  |  |  |
| *Euterpe precatoria* Mart. | 13.5 | 12 | 2.2 | 18 | 6.9 |  | 15 | 26 | 9.7 | 24 | 21 |  |  | 16 |  |
| *Iriartea deltoidea* Ruiz & Pav. | 0 | 0.5 | 24 | 0 | 0.8 | 49 | 8 | 64 | 30 | 28.8 | 13 |  | 65 | 14 |  |
| *Mauritia flexuosa* L.f. | 0.5 | 0.5 | 0.4 | 0.6 | 4 |  | 0 | 1.6 | 0 | 7.2 | 0 |  |  |  |  |
| *Oenocarpus bacaba* Mart. | 1.25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Oenocarpus bataua* Mart. | 0 | 1.5 | 9.5 | 0 | 7.7 | 19 | 1 | 6.6 | 0.3 | 5.6 | 3 | 15 | 0.9 | 17 |  |
| *Socratea exorrhiza* (Mart.) H.Wendl. | 8 | 15 |  | 8 | 3.1 | 30 | 0 | 14 | 5.9 |  | 2 | 5.6 | 15 | 38 |  |
| **Large-leaved Medium-short stemmed** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Aphandra natalia* (Balslev & A.J.Hend.) Barfod |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| *Astrocaryum ferrugineum* F.Kahn & B.Millán |  | 212 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Astrocaryum gratum* F.Kahn & B.Millán |  |  |  |  |  |  |  |  | 0 |  | 4 |  |  |  |  |
| *Astrocaryum murumuru* Mart. |  |  |  |  |  | 0 | 0 | 0 |  |  |  |  |  | 0 |  |
| *Astrocaryum urostachys* Burret |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| *Manicaria saccifera* Gaertn. |  |  |  |  |  |  |  |  |  |  |  | 15 |  |  |  |
| *Phytelephas aequatorialis* Spruce |  |  |  |  |  |  |  |  |  |  |  |  | 3.1 |  |  |
| *Phytelephas macrocarpa* Ruiz & Pav. |  | 154 |  | 0.3 | 23 |  | 32 | 7.2 | 0 |  | 8 |  | 0 |  |  |
| *Phytelephas tenuicaulis* (Barfod) A.J.Hend. |  |  | 35 |  |  |  |  |  |  |  |  |  |  |  |  |
| **Medium** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Bactris gasipaes var. chichagui* (H.Karst.) A.J.Hend. |  |  |  |  |  |  | 0 |  |  |  | 7 |  | 21 |  |  |
| *Ceroxylon parvum* Galeano |  |  |  |  |  |  |  |  |  |  |  |  |  | 5.6 |  |
| *Ceroxylon vogelianum* (Engel) H.Wendl. |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 34.5 |
| *Oenocarpus mapora* H.Karst. | 4 | 0 | 1.5 | 17 | 1.7 |  |  | 18 | 4.5 | 11.2 | 21 | 24 |  |  |  |
| *Prestoea acuminata* (Willd.) H.E.Moore |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |
| *Welfia regia* H.Wendl. |  |  |  |  |  |  |  |  |  |  |  | 10 |  |  |  |
| *Wettinia quinaria* (O.F.Cook & Doyle) Burret |  |  |  |  |  |  |  |  |  |  |  | 32 | 0.9 |  |  |
| **Small** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Aiphanes horrida* (Jacq.) Burret |  |  |  |  |  | 0 |  |  |  |  |  |  |  | 34 |  |
| *Asterogyne martiana* (H.Wendl.) H.Wendl. ex. Drude |  |  |  |  |  |  |  |  |  |  |  | 22 |  |  |  |
| *Astrocaryum huaimi* Mart. |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |
| *Bactris chaveziae* A.J.Hend. |  |  |  |  |  | 0.3 |  |  |  |  |  |  |  |  |  |
| *Bactris coloniata* L.H.Bailey |  |  |  |  |  |  |  |  |  |  |  | 23 |  |  |  |
| *Bactris major* Jacq. |  |  |  |  |  | 15 |  |  | 0 |  |  |  |  |  |  |
| *Bactris concinna* Mart. |  |  |  |  |  |  | 27 | 25 |  |  |  |  |  |  |  |
| *Bactris setulosa* H.Karst. |  |  |  |  |  |  |  |  |  |  |  |  | 0 |  |  |
| *Chamaedorea angustisecta* Burret |  |  |  |  |  |  |  | 0.3 |  |  |  |  |  | 0 |  |
| *Geonoma brongniartii* Mart. |  |  |  |  |  | 86 |  |  |  |  |  |  |  |  |  |
| *Geonoma deversa* (Poit.) Kunth |  |  |  |  |  | 378 | 53 | 352 | 1.7 | 636.8 |  |  |  |  |  |
| Geonoma undata |  |  |  |  |  |  |  |  |  |  |  |  |  | 157 |  |
| *Hyospathe elegans* Mart. |  |  |  |  |  | 190 |  |  |  |  |  |  |  |  |  |
| *Iriartella setigera* (Mart.) H.Wendl. | 10.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Lepidocaryum tenue* Mart. | 2.25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Mauritiella macroclada* (Burret) Burret |  |  |  |  |  |  |  |  |  |  |  | 0 |  |  |  |
| *Wettinia aequalis* (O.F.Cook & Doyle) R.Bernal |  |  |  |  |  |  |  |  |  |  |  |  | 0 |  |  |
| **Acaulescent large** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Attalea allenii* H.E.Moore |  |  |  |  |  |  |  |  |  |  |  | 22 |  |  |  |
| *Attalea insignis* (Mart.) Drude |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
| *Attalea microcarpa* Mart. | 3.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Climbing** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Desmoncus cirrhiferus* A.H.Gentry & Zardini |  |  |  |  |  |  |  |  |  |  |  | 3.2 |  |  |  |

**Table A.5.** Results of each pairwise between-transect statistical comparison of overall usefulness.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Habitat | Amazon floodplain | Amazon non-inundated | Amazon pre-montane hills | Chocó floodplain | Chocó non-inundated | Chocó pre-montane hills | | Lower montane | |
| Amazon non-inundated | \* | - |  |  |  | |  | |  | |
| Amazon pre-montane hills | \*\* |  | - |  |  | |  | |  | |
| Chocó floodplain |  |  |  | - |  | |  | |  | |
| Chocó non-inundated | \*\* |  |  |  | - | |  | |  | |
| Chocó pre-montane hills |  |  |  |  |  | | - | |  | |
| Lower montane |  |  |  |  |  | |  | | - | |
| Upper montane | \*\*\* |  |  |  |  | |  | |  | |
| The vertical column represents the most useful habitat type in each pairwise comparison. \*\*\* *P* < 0.001, \*\* *P* < 0.01, \* *P* < 0.05. | | | | | | | | | | | |

**Table A.6.** Percentage of summed use values for forests according to nine different use categories in four sub-regions and 15 localities of northwestern South America.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sub-region (mean ± SD) / Locality** | **Animal food** | **Construction** | **Cultural** | **Environmental** | **Fuel** | **Human food** | **Medicinal and veterinary** | **Utensils and tools** | **Other** |
| **Northwest Amazon** | **1.1 ± 1.8** | **37.6 ± 17.9** | **9.9 ± 15.7** | **1.4 ± 2.9** | **0.2 ± 0.2** | **29.8 ± 14.0** | **2.4 ± 1.9** | **10.5 ± 8.0** | **7.2 ± 5.9** |
| 1 – La Pedrera | 4.1 | 29.3 | 5.3 | 0.1 | 0.4 | 29.4 | 5.8 | 23.8 | 1.8 |
| 2 – Amacayacu | 0 | 24.9 | 38 | 0.2 | 0 | 15.6 | 1.9 | 8.6 | 10.9 |
| 3 – Kapawi | 0 | 50.3 | 3.1 | 0 | 0 | 20.7 | 1.3 | 9.2 | 15.3 |
| 4 – Río Samiria | 0 | 20.9 | 2.6 | 6.5 | 0.4 | 52.2 | 2.1 | 8.9 | 6.4 |
| 5 – Río Tahuayo | 1.2 | 62.5 | 0.9 | 0 | 0 | 31.2 | 0.9 | 1.9 | 1.4 |
| **Southwest Amazon** | **0** | **64.2 ± 16.7** | **2.8 ± 2.5** | **0.03 ± 0.05** | **0.02 ± 0.04** | **19.6 ± 11.0** | **2.8 ± 1.6** | **7.9 ± 12.0** | **2.7 ± 2.6** |
| 6 – Chapare | 0 | 46.2 | 4.4 | 0 | 0.1 | 14.7 | 0.8 | 32.1 | 1.6 |
| 7 – Tahuamanu | 0 | 48.3 | 2.9 | 0 | 0 | 39.8 | 4.5 | 3.6 | 0.9 |
| 8 – Madidi | 0 | 80.7 | 0.4 | 0 | 0 | 14.7 | 2.3 | 1.6 | 0.3 |
| 9 – Madre de Dios 1 | 0 | 59.6 | 1.9 | 0.1 | 0 | 21.2 | 5 | 4.6 | 7.6 |
| 10 – Madre de Dios 2 | 0 | 87.1 | 0.3 | 0.1 | 0 | 7.4 | 2.3 | 0 | 2.8 |
| 11 – Palma Real | 0 | 63.1 | 6.9 | 0 | 0 | 19.5 | 2 | 5.7 | 2.8 |
| **Chocó** | **0** | **37.7 ± 11.0** | **11.8 ± 3.5** | **2.7 ± 1.3** | **0.7 ± 0.9** | **21.1 ± 16.3** | **1.6 ± 1.3** | **18.6 ± 4.8** | **5.9 ± 8.1** |
| 12 – Puerto Pervel | 0 | 29.9 | 9.3 | 3.5 | 0 | 32.6 | 2.5 | 22 | 0.2 |
| 13 – Santo Domingo | 0 | 45.5 | 14.2 | 1.9 | 1.3 | 9.6 | 0.6 | 15.2 | 11.6 |
| **Andes** | **0** | **34.1 ± 16.1** | **24.7 ± 28.4** | **0.3 ± 0.4** | **0.6 ± 0.6** | **13.3 ± 12.9** | **1.9 ± 2.5** | **22.5 ± 6.0** | **2.8 ± 3.9** |
| 14 – Franz Tamayo | 0 | 45.4 | 4.6 | 0 | 0.2 | 22.4 | 3.7 | 18.2 | 5.6 |
| 15 – Sibundoy | 0 | 22.7 | 44.7 | 0.6 | 1 | 4.2 | 0.1 | 26.7 | 0 |
| **TOTAL (mean ± SD)** | **0.4 ± 1.1** | **47.8 ± 20.3** | **9.3 ± 13.6** | **0.9 ± 1.8** | **0.2 ± 0.4** | **22.3 ± 12.9** | **2.4 ± 1.7** | **12.1 ± 10.2** | **4.6 ± 4.8** |

**Supplementary Figures**

**Figure A.1.** Accumulation curves for each of the localities sampled according to the number of (A) species per transect, (B) useful palm species reported by informants, and (C) palm uses reported by informants.

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