**Supplementary table 1.** List of the studied species, family, type of fruit, number of seeds per fruit, fruit size (length and width), fresh mass, fruiting period and ability to float in water for fruits of ten tree species of Amazonian floodplain forests. Means followed by standard deviation, n = 30-50 fruits depending on the species.

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| **Species**  | **Family** | **Type of fruit**  | **Number of seeds/fruit** | **Length (cm)** | **Width (cm)** | **Fresh mass****(g)** | **fructification (months)** | **Floats**  |
| *Campsiandra laurifolia* | Fabaceae | legume (dehiscent) | 2 - 9 | 27.0 ± 5.1 | 5.6 ± 0.5 | 100.4 ± 26.2 | Nov - Jul | No |
| *Cassia leiandra* | Fabaceae | legume (indehiscent) | 32 - 73 | 52.0 ± 0.7 | 2.5 ± 0.4 | N/A | Dec - Jun | Yes |
| *Crataeva tapia* | Capparaceae  | berry  | 31 - 132 | 8.0 ± 0.8 | 7.5 ± 0.8 | 278.3 ± 80.6 | Oct - Jul | Yes |
| *Ilex inundata*  | Aquifoliaceae  | drupe | 3 - 5 | 0.7 ± 0.1 | 0.8 ± 0.1 | 0.3 ± 0.0 | Dec - Jul | Yes |
| *Macrolobium acaciifolium* | Fabaceae  | legume (indehiscent) | 1 | 5.2 ± 0.4 | 4.8 ± 0.3 | 10.5 ± 2.1 | Sep - Jul | Yes |
| *Nectandra amazonum* | Lauraceae  | berry | 1 | 3.6 ± 0.2 | 2.1 ± 0.1 | 5.3 ± 0.4 | Feb - Aug | N/A |
| *Pouteria glomerata* | Sapotaceae  | berry | 1 - 4 | 4.4 ± 0.7 | 5.3 ± 1.2 | 74.6 ± 46.5 | Feb - Aug | Yes |
| *Psidium acutangulum* | Myrtaceae | berry | 13-78 | 3.5 ± 0.3 | 4.1 ± 0.5 | 38.8 ± 14.8 | Nov - Jun | Yes |
| *Sorocea duckei* | Moraceae  | drupe | 1 | 1.3 ± 0.1 | 1.4 ± 0.1 | 1.4 ± 0.2 | May - Jul | Yes |
| *Vitex cymosa* | Lamiaceae  | drupe | 1 - 2 | 1.4 ± 0.2 | 1.5 ± 0.1 | 1.6 ± 0.3 | Nov - Aug | Yes |

N/A: not available.

**Supplementary table 2.** Morphological characteristics (shape, color, texture, length, width), and ability to float in water for seeds of 10 tree species from the Amazonian floodplain forests. Means followed by standard deviation, n = 50 seeds.

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| --- | --- | --- | --- | --- |
| **Species** | **Characteristics** | **Length (mm)** | **Width (mm)** | **Floats** |
| *Campsiandra laurifolia* | Large seeds, orbicular, discoid (laterally flattened), greenish-brown color | 56.5 ± 0.21 | 48.8 ± 0.94 | Yes |
| *Cassia leiandra* | Discoid, brown color. | 7.5 ± 0.02 | 6.9 ± 0.03 | No |
| *Crataeva tapia* | Small hard seeds with extensions sharp-pointed rigids, curved or cochleariform, dark brown color. | 9.13 ± 0.97 | 4.63 ± 0.62 | No |
| *Ilex inundata* | Oval small seed, dark brown color.  | 5.4 ± 0.73 | 2.4 ± 0.25 | No |
| *Macrolobium acaciifolium* | Large seed, oblong to elliptical, laterally flattened, reddish-brown color. | 41.6 ± 0.32 | 37.7 ± 0.43 | No |
| *Nectandra amazonum* | Seed ellipsoid, glossy, brown in color. | 26.89 ± 1.74 | 15.48 ± 1.12 | No |
| *Pouteria glomerata* | Seed ovoid to ellipsoid with smooth surface, brown color | 23.9 ± 0.35 | 18.1 ± 0.35 | No |
| *Psidium acutangulum* | Small seed orbicular, more or less C-shaped but often irregular in shape. Pale yellow color. | 7.1 ± 0.67 | 4.5 ± 0.42 | No |
| *Sorocea duckei* | Rounded seed, green. The cotyledons are unequal, one large and curved enclosing the other small. | 10.7 ± 0.04 | 10.6 ± 0.03 | No |
| *Vitex cymosa* | Pyrene oval, hard, fibrous mesocarp. Multilocular, with 1 to 3 embryos. Brown color. | 9.5 ± 0.03 | 7.0 ± 0.04 | Yes |