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| **Supplementary information 1**. Values of Horn-Morisita similarity index by paired tanager species.  |
| Species pair | Fruit diet | Frugivory behaviour | Prey substrate | Predation behaviour |
| *Dacnis cayana-Stephanophorus diadematus* | 0.022 | 0.756 | 0.681 | 0.431 |
| *Dacnis cayana-Schistochlamys ruficapillus* | 0.206 | 0.874 | 0.327 | 0.433 |
| *Dacnis cayana-Stilpnia cayana* | 0.186 | 0.628 | 0.553 | 0.570 |
| *Dacnis cayana-Tangara desmaresti* | 0.174 | 0.852 | 0.758 | 0.583 |
| *Dacnis cayana-Thraupis sayaca* | 0.015 | 0.584 | 0.278 | 0.499 |
| *Stephanophorus diadematus-Schistochlamys ruficapillus* | 0.274 | 0.935 | 0.658 | 0.915 |
| *Stephanophorus diadematus-Stilpnia cayana* | 0.139 | 0.716 | 0.806 | 0.812 |
| *Stephanophorus diadematus-Tangara desmaresti* | 0.422 | 0.928 | 0.676 | 0.528 |
| *Stephanophorus diadematus-Thraupis sayaca* | 0.025 | 0.322 | 0.411 | 0.589 |
| *Schistochlamys ruficapillus-Stilpnia cayana* | 0.501 | 0.778 | 0.867 | 0.884 |
| *Schistochlamys ruficapillus-Tangara desmaresti* | 0.163 | 0.973 | 0.637 | 0.721 |
| *Schistochlamys ruficapillus-Thraupis sayaca* | 0.272 | 0.480 | 0.541 | 0.819 |
| *Stilpnia cayana-Tangara desmaresti* | 0.138 | 0.811 | 0.845 | 0.821 |
| *Stilpnia cayana-Thraupis sayaca* | 0.830 | 0.711 | 0.582 | 0.785 |
| *Tangara desmaresti-Thraupis sayaca* | 0.048 | 0.477 | 0.674 | 0.849 |

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| **Supplementary information 2.** Frequency of interactions between tanagers and plant species in the Ibitipoca State Park. |
| Plant species (as Manhães 2003a. Some scientific names may be outdated) | *Schistochlamys ruficapillus* | *Tangara desmaresti* | *Stilpnia cayana* | *Stephanophorus diadematus* | *Thraupis sayaca* | *Dacnis cayana* | Total |
| *Cecropia glaziovii* | 22 | 4 | 62 | 0 | 51 | 0 | 139 |
| *Myrcia venulosa* | 44 | 1 | 11 | 0 | 3 | 0 | 59 |
| *Myrcia rostrata* | 20 | 18 | 1 | 19 | 0 | 0 | 58 |
| *Myrsine umbellata* | 25 | 1 | 19 | 0 | 1 | 5 | 51 |
| *Vismia brasiliensis* | 7 | 0 | 25 | 8 | 5 | 0 | 45 |
| *Miconia chartaceae* | 2 | 38 | 2 | 2 | 0 | 0 | 44 |
| *Miconia ligustroides* | 0 | 26 | 5 | 3 | 0 | 0 | 34 |
| *Calyptranthes concinna* | 19 | 1 | 6 | 0 | 2 | 0 | 28 |
| *Miconia theaezans* | 0 | 21 | 2 | 3 | 0 | 1 | 27 |
| *Byrsonima variabilis* | 24 | 0 | 0 | 0 | 0 | 0 | 24 |
| *Miconia sellowiana* | 0 | 17 | 4 | 0 | 0 | 2 | 23 |
| *Maytenus* sp*.* | 14 | 0 | 4 | 0 | 0 | 0 | 18 |
| *Miconia albicans* | 5 | 11 | 0 | 0 | 0 | 1 | 17 |
| *Hyeronima alchorneoides* | 0 | 6 | 5 | 0 | 1 | 3 | 15 |
| *Gaylussacia pulchra* | 0 | 10 | 1 | 3 | 0 | 0 | 14 |
| *Miconia* sp*.* | 0 | 12 | 0 | 0 | 0 | 0 | 12 |
| *Leandra aurea* | 2 | 8 | 0 | 0 | 0 | 0 | 10 |
| *Myrcia laruotteana* | 0 | 6 | 1 | 2 | 0 | 0 | 9 |
| *Psychotria vellosiana* | 0 | 7 | 1 | 1 | 0 | 0 | 9 |
| *Alibertia elliptica* | 5 | 0 | 1 | 1 | 1 | 0 | 8 |
| *Erythroxylum gonocladum* | 8 | 0 | 0 | 0 | 0 | 0 | 8 |
| *Clusia organensis* | 0 | 1 | 0 | 0 | 0 | 6 | 7 |
| *Gaylussacia brasiliensis* | 5 | 1 | 0 | 1 | 0 | 0 | 7 |
| *Myrsine glazioviana* | 3 | 1 | 0 | 1 | 0 | 2 | 7 |
| *Myrcia rufula* | 6 | 1 | 0 | 0 | 0 | 0 | 7 |
| *Phoradendron undulatum* | 0 | 6 | 0 | 0 | 0 | 1 | 7 |
| *Drimys brasiliensis* | 0 | 1 | 0 | 5 | 0 | 0 | 6 |
| *Matayba* sp*.* | 5 | 0 | 1 | 0 | 0 | 0 | 6 |
| *Guapira noxia* | 0 | 1 | 0 | 4 | 0 | 0 | 5 |
| *Gomidesia sellowiana* | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| *Rudgea recurva* | 0 | 0 | 0 | 5 | 0 | 0 | 5 |
| *Senna bicapsularis* | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| *Ilex affinis* | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| *Lantana fucata* | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| *Smilax elastica* | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| *Gaylussacia* sp*.* | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| *Hedyosmum brasiliense* | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Undet. Loranthaceae | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| *Pera glabrata* | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| *Psittacanthus* sp*.* | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| *Alchornea glandulosa* | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| *Calyptranthes* sp*.* | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| *Coussapoa microcarpa* | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| *Ficus mexiae* | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| *Gonioanthela hilariana* | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| *Myrcia fallax* | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| *Myrsine lancifolia* | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| *Styrax ferrugineus* | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| *Solanum inaequale* | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| *Solanum nigrum* | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 224 | 207 | 152 | 74 | 71 | 21 | 749 |