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|  |  | **C plots** |  |  | **N plots** |  |  | **NP plots** |  |  | **P plots** |  |
| **Total phenol** | C SL | C YL | C ML | + N SL | +N YL | +N ML | +NP SL | +NP YL | +NP ML | +P SL | +P YL | +P ML |
| *C. brasiliense* | 21.6 (2.5) **a** | 26.6 (3.1) **b** | 18.6 (2.7) **a** | 23.1 (4.8) | 23.5 (5.3) | 16.4 (4.5) | 19.5 (8.2) | 20.5 (2.5) | 17.3 (3.9) | 21.7 (3.1) | 25.4 (1.5) | 21.4 (3.9) |
| *B. salicifolius* | 17.4 (0.4) | 17.2 (3.6) | 18.6 (3.0) | 17.8 (4.0) | 17.0 (2.2) | 19.0 (4.0) | 23.3 (1.2) **a** | 20.9 (1.7) **ab** | 18.8 (3.7) **b** | 22.2 (2.0) | 19.0 (1.7) | 22.1 (3.7) |
| *D. miscolobium* | 18.1 (3.1) | 15.2 (0.2) | 17.1 (4.7) | 15.2 (1.1) | 14.4 (0.7) | 16.1 (2.3) | 13.0 (1.6) | 12.6 (1.4) | 13.8 (1.5) | 11.9 (2.6) | 11.6 (1.6) | 11.0 (1.5) |
| *O. hexasperma* | 13.2 (5.5) | 9.6 (1.6) | 10.2 (2.2) | 13.1 (3.6) | 11.4 (3.5) | 9.6 (2.4) | 14.2 (2.7) | 11.8 (0.9) | 4.2 (1.2) | 3.5 (1.1) | 3.3 (0.3) | 5.6 (1.2) |
| *R. montana* | 3.5 (2.1) | 5.3 (2.7) | 6.3 (2.0) | 5.5 (3.0) | 6.2 (2.1) | 7.1 (1.1) | 3.0 (0.9) | 4.3 (2.) | 8.1 (2.1) | 6.7 (1.6) **a** | 8.7 (0.8) **a** | 8.8 (2.1) **b** |
| *S. ferrugineus* | 7.3 (2.2) | 8.7 (1.8) | 9.0 (1.0) | 6.0 (2.3) **a** | 9.7 (0.2) **b** | 10.0 (0.4) **b** | 5.2 (1.4) **a** | 8.8 (1.8) **b** | 11.4 (2.9) **ab** | 12.6 (0.8) | 12.6 (1.0) | 11.6 (2.9) |
| **Tannin** |  |  |  |  |  |  |  |  |  |  |  |  |
| *C. brasiliense* | 10.5 (0.9) | 9.8 (2.0) | 9.6 (1.2) | 11.0 (2.9) | 8.0 (2.2) **a** | 9.1 (2.5) | 7.8 (3.0) | 10.1 (2.3) | 9.5 (1.3) | 10.3 (1.9) **a** | 6.8 (1.4) **b** | 8.5 (1.5) **ab** |
| *B. salicifolius* | 5.4 (0.4) | 6.2 (1.6) | 5.9 (1.9) | 5.8 (1.0) **ab** | 6.2 (1.1) **a** | 4.5 (2.0) **b** | 6.9 (1.1) **ab** | 8.9 (1.4) **a** | 6.6 (1.1**) b** | 7.9 (2.7) **ab** | 8.9 (1.5) **a** | 7.5 (1.3) **b** |
| *D. miscolobium* | 2.7 (0.8) | 2.1 (1.2) | 2.6 (0.8) | 2.7 (0.5) | 2.5 (0.6) | 2.8 (0.8) | 2.2 (0.6) | 2.1 (0.6) | 2.6 (0.6) | 2.3 (0.5) | 1.9 (0.3) | 2.4 (0.4) |
| *O. hexasperma* | 9.1 (1.3) **ab** | 8.9 (0.8) **a** | 6.7 (0.5) **b** | 9.1 (1.1) **a** | 8.5 (1.2) **ab** | 6.7 (0.5) **b** | 9.1 (1.1) | 8.7 (0.9) | 7.0 (0.8) | 8.7 (2.0) **ab** | 9.3 (0.4) **a** | 6.8 (0.7) **b** |
| *R. montana* | 1.8 (1.3) | 2.1 (1.1) | 2.1 (1.0) | 2.6 (1.7) | 3.6 (1.7) | 1.9 (0.6) | 1.5 (0.6) | 2.5 (1.6) | 1.6 (0.5) | 1.8 (0.8) | 1.2 (0.3) | 2.0 (0.7) |
| *S. ferrugineus* | 3.4 (0.7) **a** | 3.3 (1.0) **a** | 2.0 (0.5) **b** | 2.7 (0.8) **ab** | 3.3 (0.3) **a** | 2.0 (0.4) **b** | 2.6 (0.7) **a** | 3.2 (0.3) **ab** | 2.4 (0.5) **b** | 3.2 (0.5) **a** | 3.3 (0.4) **a** | 2.0 (0.2) **b** |

**Supplementary table 2.** Total phenols and tannin mean concentration (% dry leaf mass ±SD) in newly sprouted leaves (SL), young leaves (YL), and mature leaves (ML) of savanna woodland species in control plots (C) and fertilized plots (+N, nitrogen; +P, phosphorus; and +NP, nitrogen plus phosphorus) in Central Brazil. Different letters indicate differences between leaf growth stages (Bonferroni, P < 0.05).

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