

*Erratum*

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## **Water and element input into native, agri- and silvicultural ecosystems of the Brazilian savanna**

JULIANE LILIENFEIN & WOLFGANG WILCKE\*

*Institute of Soil Science and Soil Geography, University of Bayreuth, D-95440 Bayreuth, Germany (\*Present address of the corresponding author: Department of Soil Science, Institute of Ecology, Berlin University of Technology, D-10587 Berlin, Germany; phone: +49/30-31473538; fax: +49/30-31473548; e-mail: wolfgang.wilcke@tu-berlin.de)*

**Key words:** canopy leaching, Cerrado, continuous cropping, dry deposition, element input, pasture, *Pinus caribaea*, plant nutrients, rainfall, throughfall

Due to an unfortunate conversion error, the third table in this article was incorrectly displayed. Following is the corrected Table 3.

*Table 3.* Volume-weighted mean element concentrations in rainfall, throughfall, and stemflow in Cerrado (CE), *Pinus* (PI), degraded (DP) and productive pasture (PP), and continuous cropping (CC) during two rainy (RS) and one dry seasons (DS). Different letters indicate significant differences among the ecosystems according to Tukey's HSD test ( $p < 0.05$ ).

|                                         | Al    |     |      | TOC   |        |       | Ca       |      |      | Cl <sup>-</sup> |       |       | Cu    |     |     | H <sup>+</sup> |        |        | K         |      |       | Mg      |     |      |
|-----------------------------------------|-------|-----|------|-------|--------|-------|----------|------|------|-----------------|-------|-------|-------|-----|-----|----------------|--------|--------|-----------|------|-------|---------|-----|------|
|                                         | RS1   | DS2 | RS2  | RS1   | DS2    | RS2   | RS1      | DS2  | RS2  | RS1             | DS2   | RS2   | RS1   | DS2 | RS2 | RS1            | DS2    | RS2    | RS1       | DS2  | RS2   | RS1     | DS2 | RS2  |
| Rainfall ( $\mu\text{g l}^{-1}$ )       |       |     |      |       |        |       |          |      |      |                 |       |       |       |     |     |                |        |        |           |      |       |         |     |      |
| Rainfall                                | 1.9b  | 1.0 | 1.9b | 2804b | 5850b  | 2804b | 119      | 552  | 119b | 272b            | 1897b | 272b  | 1.2b  | 1.1 | 1.2 | 4.9b           | 0.3    | 4.9abc | 161b      | 1685 | 161b  | 49      | 283 | 49b  |
| Sanhueza et al. (1992) <sup>a</sup>     |       | –   |      | –     |        |       | –        |      |      | –               |       |       | –     |     |     | –              |        |        | –         |      |       | –       |     |      |
| Galy-Lacaux & Modi (1998) <sup>b</sup>  |       | –   |      | –     |        |       | 184–1790 |      |      | 249–1118        |       |       | –     |     |     | 2.1–7.6        |        |        | 98–657    |      |       | 35–183  |     |      |
| Forti & Neal (1992) <sup>c</sup>        |       | –   |      | –     |        |       | <50–1500 |      |      | 140–4500        |       |       | –     |     |     | 2.0–100        |        |        | 20–1330   |      |       | <20–250 |     |      |
| Throughfall ( $\mu\text{g l}^{-1}$ )    |       |     |      |       |        |       |          |      |      |                 |       |       |       |     |     |                |        |        |           |      |       |         |     |      |
| CE                                      | 7.7ab | 9.3 | 17a  | 4028b | 8079ab | 3793b | 301      | 706  | 251b | 770ab           | 2401  | 553ab | 2.4a  | 3.0 | 2.0 | 6.0b           | 1.0abc | 8.0ab  | 285b      | 1339 | 372b  | 109     | 304 | 114b |
| PI                                      | 24a   | 13  | 17a  | 6495a | 15244a | 6661a | 402      | 658  | 194b | 965a            | 2144  | 434ab | 2.9a  | 3.2 | 1.9 | 16a            | 2.0ab  | 21a    | 570b      | 2591 | 493b  | 217     | 333 | 79b  |
| DP                                      | 8.8ab | 9.9 | 6.0b | 2825b | 6435b  | 3187b | 467      | 1669 | 224b | 587ab           | 4633  | 513ab | 2.0ab | 2.2 | 1.5 | 3.7b           | 2.3a   | 7.8ab  | 418b      | 1186 | 383b  | 196     | 373 | 86b  |
| PP                                      | 7.9ab | 1.2 | 4.9b | 3634b | 6906b  | 3192b | 491      | 1283 | 208b | 679ab           | 5267  | 523ab | 2.2ab | 2.3 | 1.5 | 2.1b           | 1.0abc | 3.6b   | 564b      | 937  | 401b  | 170     | 336 | 84b  |
| CC                                      | 8.8ab | 0.0 | 7.1b | 3966b | 5720b  | 3650b | 555      | 1129 | 636a | 1002a           | 2264  | 1129a | 2.6a  | 1.2 | 1.9 | 1.3b           | 0.6bc  | 1.4b   | 1596a     | 1488 | 1798a | 211     | 285 | 219a |
| Forti & Neal (1992) <sup>a</sup>        |       | –   |      | –     |        |       | 60–5600  |      |      | 370–2880        |       |       | –     |     |     | –              |        |        | 260–12500 |      |       | 80–8300 |     |      |
| Lilienfein & Wilcke (2001) <sup>b</sup> |       | –   |      | –     |        |       | 581      |      |      | 826             |       |       | 2.4   |     |     | –              |        |        | 2110      |      |       | 199     |     |      |
| Stemflow ( $\mu\text{g l}^{-1}$ )       |       |     |      |       |        |       |          |      |      |                 |       |       |       |     |     |                |        |        |           |      |       |         |     |      |
| CE                                      | 97    | 448 | 113  | 10895 | 16017  | 10570 | 469      | 525  | 275  | 653             | 2602  | 514   | 5.1   | 6.0 | 3.0 | 11             | 12     | 9.4    | 900       | 3372 | 767   | 280     | 570 | 169  |
| PI                                      | 63    | 152 | 88   | 17825 | 21134  | 23201 | 539      | 288  | 371  | 437             | 2982  | 580   | 17    | 6.1 | 15  | 58             | 60     | 85     | 762       | 2708 | 812   | 160     | 202 | 140  |

|                                         | Mn                                |      |      | NH <sub>4</sub> -N |      |       | NO <sub>3</sub> -N |     |       | TN      |      |       | Na        |        |       | S                     |     |     | Zn  |     |      |  |
|-----------------------------------------|-----------------------------------|------|------|--------------------|------|-------|--------------------|-----|-------|---------|------|-------|-----------|--------|-------|-----------------------|-----|-----|-----|-----|------|--|
|                                         | RS1                               | DS   | RS2  | RS1                | DS   | RS2   | RS1                | DS  | RS2   | RS1     | DS   | RS2   | RS1       | DS     | RS2   | RS1                   | DS  | RS2 | RS1 | DS  | RS2  |  |
|                                         | Rainfall (μg l <sup>-1</sup> )    |      |      |                    |      |       |                    |     |       |         |      |       |           |        |       |                       |     |     |     |     |      |  |
| Rainfall                                | 0.53b                             | 0.54 | 0.53 | 125                | 649  | 125b  | 108b               | 417 | 108b  | 266c    | 1305 | 266b  | 260b      | 532c   | 260c  | 85                    | 0.0 | 85  | 6.9 | 9.5 | 6.9  |  |
| Sanhueza et al. (1992) <sup>a</sup>     | –                                 |      |      | 42–98              |      |       | 28–70              |     |       | –       |      |       | –         |        |       | 64–192 <sup>e</sup>   |     |     | –   |     |      |  |
| Galy-Lacaux & Modi (1998) <sup>b</sup>  | –                                 |      |      | 181–267            |      |       | 125–172            |     |       | –       |      |       | 152–1162  |        |       | 234–480 <sup>e</sup>  |     |     | –   |     |      |  |
| Forti & Neal (1992) <sup>c</sup>        | –                                 |      |      | 50–860             |      |       | 5.0                |     |       | 170–850 |      |       | 210–1810  |        |       | 370–1240 <sup>e</sup> |     |     | –   |     |      |  |
|                                         | Throughfall (μg l <sup>-1</sup> ) |      |      |                    |      |       |                    |     |       |         |      |       |           |        |       |                       |     |     |     |     |      |  |
| CE                                      | 2.6b                              | 4.6  | 5.7  | 96                 | 621  | 175ab | 174b               | 473 | 232b  | 515bc   | 1821 | 573b  | 475ab     | 993ab  | 367bc | 84                    | 510 | 104 | 56  | 40  | 14   |  |
| PI                                      | 6.1a                              | 5.5  | 4.3  | 263                | 727  | 200ab | 319ab              | 928 | 352ab | 1189a   | 2125 | 929ab | 738ab     | 1166a  | 539a  | 164                   | 176 | 157 | 64  | 53  | 10.2 |  |
| DP                                      | 1.1b                              | 11   | 1.9  | 168                | 1246 | 194ab | 290b               | 986 | 242b  | 717abc  | 2540 | 833b  | 872a      | 823abc | 329bc | 203                   | 207 | 108 | 14  | 137 | 11   |  |
| PP                                      | 1.8b                              | 8.5  | 1.6  | 437                | 623  | 162ab | 309b               | 983 | 310b  | 997ab   | 1915 | 522b  | 695ab     | 614b   | 335bc | 237                   | 71  | 109 | 18  | 26  | 9.2  |  |
| CC                                      | 2.8ab                             | 0.0  | 1.7  | 242                | 626  | 298a  | 638a               | 703 | 674a  | 1348a   | 1744 | 1734a | 506ab     | 572b   | 417b  | 272                   | 0   | 345 | 14  | 9.2 | 9.8  |  |
| Forti & Neal (1992) <sup>c</sup>        | –                                 |      |      | 62–2240            |      |       | –                  |     |       | –       |      |       | 240–18300 |        |       | 150–830               |     |     | –   |     |      |  |
| Lilienfein & Wilcke (2001) <sup>d</sup> | 1.3                               |      |      | –                  |      |       | –                  |     |       | 1550    |      |       | 493       |        |       | 376                   |     |     | 9.3 |     |      |  |
|                                         | Stemflow (μg l <sup>-1</sup> )    |      |      |                    |      |       |                    |     |       |         |      |       |           |        |       |                       |     |     |     |     |      |  |
| CE                                      | 9.1                               | 47   | 7.7  | 129                | 343  | 135   | 93                 | 187 | 161   | 591     | 1595 | 657   | 638       | 266    | 499   | 100                   | 109 | 102 | 9.7 | 8.1 | 6.9  |  |
| PI                                      | 5.5                               | 27   | 7.4  | 134                | 496  | 251   | 172                | 267 | 190   | 1350    | 2350 | 1460  | 801       | 388    | 596   | 167                   | 127 | 173 | 11  | 9.7 | 6.7  |  |

<sup>a</sup> Range of Venezuelan savanna sites.

<sup>b</sup> Range of African savanna sites.

<sup>c</sup> Range of tropical rain forests.

<sup>d</sup> Volume-weighted mean concentration in throughfall under corn canopy during the rainy season in the Brazilian Cerrado.

<sup>e</sup> Data refer to SO<sub>4</sub>-S.