**Supporting Information**

**Paper 13, Volume 58(2), 2017**: An experimental study of the utility of adventitious roots for determining the hydroperiod in isolated wetlands

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**Table S1.** Adventitious root growth after 2 weeks inundation: Please see Figure 1 for details of groups A-D. Abbreviations: PR (Primary Root), SR (Secondary Root), TR (Tertiary Root) and QR (Quaternary Root). All units are centimeters.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Group A | | | | Group C | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 1.0 | 0.1 | NA | NA | 0.9 | 0.1 | NA | NA |
| Median | 2.5 | 0.1 | NA | NA | 3.0 | 0.1 | NA | NA |
| Maximum | 5.5 | 0.2 | NA | NA | 7.2 | 0.1 | NA | NA |
| Standard Deviation | 1.5 | 0.0 | NA | NA | 1.9 | 0.0 | NA | NA |
| Outliers (%) | 0.0 | 12.5 | NA | NA | 0.0 | 0.0 | NA | NA |
| 2.0 Weeks of Inundation | Group B | | | | Group D | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 0.9 | N/A | N/A | N/A | 1.8 | 0.2 | N/A | N/A |
| Median | 1.6 | N/A | N/A | N/A | 3.1 | 0.2 | N/A | N/A |
| Maximum | 3.1 | N/A | N/A | N/A | 8.0 | 0.2 | N/A | N/A |
| Standard Deviation | 0.8 | N/A | N/A | N/A | 2.2 | N/A | N/A | N/A |
| Outliers (%) | 0.0 | N/A | N/A | N/A | 0.0 | N/A | N/A | N/A |

**Table S2.** Adventitious root growth after 4 weeks inundation.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Group A | | | | Group C | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 0.9 | 0.1 | N/A | N/A | 1.4 | 0.2 | 0.1 | N/A |
| Median | 2.5 | 0.2 | N/A | N/A | 4.6 | 0.8 | 0.2 | N/A |
| Maximum | 9.3 | 1.0 | N/A | N/A | 10.2 | 5.0 | 0.2 | N/A |
| Standard Deviation | 2.0 | 0.3 | N/A | N/A | 2.0 | 1.3 | 0.1 | N/A |
| Outliers (%) | 6.9 | 0.0 | N/A | N/A | 3.8 | 5.0 | 0.0 | N/A |
|  | Group B | | | | Group D | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 1.0 | 0.1 | 0.2 | N/A | 2.1 | 0.1 | N/A | N/A |
| Median | 4.2 | 0.2 | 0.2 | N/A | 4.4 | 1.0 | N/A | N/A |
| Maximum | 7.5 | 3.5 | 0.2 | N/A | 11.1 | 1.0 | N/A | N/A |
| Standard Deviation | 1.6 | 0.8 | N/A | N/A | 2.3 | 0.4 | N/A | N/A |
| Outliers (%) | 5.7 | 4.0 | N/A | N/A | 6.9 | 0.0 | N/A | N/A |

**Table S3.** Adventitious root growth after inundation for a) 6 weeks; b) 8 weeks; c) 10 weeks; and d) 12 weeks.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a | Group C | | | | Group D | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 0.7 | 0.1 | 0.1 | N/A | 2.4 | 0.3 | 0.1 | N/A |
| Median | 4.9 | 1.3 | 0.2 | N/A | 8.7 | 1.8 | 0.6 | N/A |
| Maximum | 12.2 | 4.2 | 1.1 | N/A | 17.1 | 7.1 | 1.0 | N/A |
| Standard Deviation | 2.8 | 1.0 | 0.4 | N/A | 3.5 | 1.6 | 0.3 | N/A |
| Outliers (%) | 2.9 | 3.1 | 0.0 | N/A | 2.9 | 6.9 | 0.0 | N/A |
| b | Group C | | | | Group D | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 1.1 | 0.1 | 0.1 | N/A | 3.1 | 0.4 | 0.0 | N/A |
| Median | 5.9 | 1.4 | 0.2 | N/A | 8.2 | 1.9 | 0.4 | N/A |
| Maximum | 11.2 | 5.9 | 1.1 | N/A | 15.0 | 6.3 | 1.0 | N/A |
| Standard Deviation | 2.3 | 1.4 | 0.4 | N/A | 3.2 | 1.4 | 0.3 | N/A |
| Outliers (%) | 8.3 | 6.1 | 0.0 | N/A | 5.1 | 7.9 | 6.7 | N/A |
| c | Group B | | | | Group D | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 1.1 | 0.1 | N/A | N/A | 0.8 | 0.1 | 0.1 | 0.1 |
| Median | 5.6 | 0.9 | N/A | N/A | 8.4 | 2.2 | 0.4 | 0.2 |
| Maximum | 9.6 | 1.9 | N/A | N/A | 14.9 | 8.4 | 2.8 | 0.2 |
| Standard Deviation | 2.5 | 0.6 | N/A | N/A | 3.3 | 1.8 | 0.5 | 0.1 |
| Outliers (%) | 0.0 | 0.0 | N/A | N/A | 0.0 | 4.1 | 2.7 | 0.0 |
| d | Group B | | | | Group D | | | |
| PR | SR | TR | QR | PR | SR | TR | QR |
| Minimum | 2.1 | 0.1 | 0.1 | N/A | 1.7 | 0.2 | 0.1 | 0.1 |
| Median | 4.4 | 0.9 | 0.2 | N/A | 8.9 | 1.7 | 0.3 | 0.1 |
| Maximum | 10.2 | 5.2 | 0.5 | N/A | 15.0 | 8.5 | 1.3 | 1.3 |
| Standard Deviation | 2.4 | 1.3 | 0.2 | N/A | 3.2 | 1.8 | 0.4 | 0.5 |
| Outliers (%) | 5.6 | 6.3 | 0.0 | N/A | 2.2 | 4.3 | 2.7 | 0.0 |