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| **Supplementary Table S3** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  Nutrient concentrations in the bark, root, stem and leaves of plants grown under sufficient and low P. |  |  |  |  |
| Grey cells indicate significant differences (Scott-Knott test, P < 0.05) between the low and sufficient P treatments in each species and for each treatment. |
| Arrows indicate the variation in the low P treatment in relation to the sufficient treatment. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **BARK** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **N** | **STE** |  | **K** | **STE** |  | **Ca** | **STE** |  | **Mg** | **STE** |  | **S** | STE |
| C. maculata | Low P | 2.3 | 0.2 |  | 8.1 | 1.1 | **↓** | 27.2 | 1.8 |  | 2.5 | 0.4 |  | 0.4 | 0.1 |
|  | Suf P | 2.5 | 0.2 |  | 9.9 | 0.6 |  | 22.5 | 1.9 |  | 1.7 | 0.2 |  | 0.4 | 0.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. acmenoides | Low P | 2.6 | 0.2 |  | 6.3 | 1.3 |  | 26.3 | 0.3 | **↓** | 2.5 | 0.1 |  | 0.5 | 0.0 |
|  | Suf P | 2.8 | 0.4 |  | 4.3 | 0.8 |  | 32.2 | 0.9 |  | 2.2 | 0.2 |  | 0.4 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. globulus | Low P | 2.7 | 0.3 |  | 3.3 | 0.6 |  | 30.3 | 1.8 | **↓** | 2.1 | 0.1 | **↓** | 0.5 | 0.1 |
|  | Suf P | 2.0 | 0.2 |  | 2.4 | 0.3 |  | 58.3 | 4.9 |  | 3.6 | 0.2 |  | 0.4 | 0.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. grandis | Low P | 2.3 | 0.2 |  | 3.3 | 0.6 |  | 45.1 | 2.2 | **↑** | 2.8 | 0.1 | **↑** | 0.4 | 0.0 |
|  | Suf P | 2.6 | 0.2 |  | 4.4 | 0.9 |  | 32.0 | 3.1 |  | 2.0 | 0.1 |  | 0.3 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. tereticornis | Low P | 2.0 | 0.1 | **↑** | 7.3 | 1.3 |  | 38.0 | 5.2 |  | 2.4 | 0.4 |  | 0.4 | 0.1 |
|  | Suf P | 1.7 | 0.1 |  | 9.5 | 1.5 |  | 33.5 | 1.3 |  | 2.7 | 0.6 |  | 0.5 | 0.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  |  | **ROOT** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **N** | **STE** |  | **K** | **STE** |  | **Ca** | **STE** |  | **Mg** | **STE** |  | **S** | STE |
| C. maculata | Low P | 3.1 | 0.3 |  | 5.4 | 0.7 |  | 12.2 | 1.2 |  | 1.5 | 0.2 |  | 0.5 | 0.2 |
|  | Suf P | 3.3 | 0.6 |  | 3.9 | 0.6 |  | 10.0 | 1.3 |  | 1.2 | 0.1 |  | 0.4 | 0.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. acmenoides | Low P | 3.1 | 0.2 |  | 2.4 | 0.4 |  | 10.2 | 0.2 |  | 1.4 | 0.1 |  | 0.5 | 0.0 |
|  | Suf P | 3.2 | 0.2 |  | 2.0 | 0.4 |  | 10.5 | 0.8 |  | 1.3 | 0.2 |  | 0.6 | 0.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. globulus | Low P | 3.2 | 0.1 |  | 3.0 | 0.1 |  | 9.3 | 0.3 |  | 2.0 | 0.1 |  | 0.8 | 0.0 |
|  | Suf P | 3.2 | 0.3 |  | 2.6 | 0.4 |  | 12.0 | 1.6 |  | 1.7 | 0.1 |  | 0.8 | 0.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. grandis | Low P | 3.2 | 0.2 |  | 2.8 | 0.3 |  | 10.5 | 1.3 |  | 1.9 | 0.3 |  | 0.6 | 0.1 |
|  | Suf P | 2.7 | 0.1 |  | 3.5 | 0.5 |  | 10.6 | 0.6 |  | 1.9 | 0.2 |  | 0.7 | 0.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. tereticornis | Low P | 2.5 | 0.1 |  | 2.9 | 0.1 | **↓** | 15.5 | 1.3 |  | 1.5 | 0.2 |  | 0.6 | 0.1 |
|  | Suf P | 2.7 | 0.4 |  | 4.2 | 0.6 |  | 14.0 | 1.5 |  | 1.4 | 0.2 |  | 0.6 | 0.1 |

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|  |  | **STEM** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **N** | **STE** |  | **K** | **STE** |  | **Ca** | **STE** |  | **Mg** | **STE** |  | **S** | STE |
| C. maculata | Low P | 1.3 | 0.1 |  | 1.8 | 0.4 |  | 5.4 | 0.6 |  | 0.4 | 0.0 |  | 0.3 | 0.0 |
|  | Suf P | 1.0 | 0.1 |  | 1.8 | 0.2 |  | 5.4 | 2.2 |  | 0.3 | 0.1 |  | 0.4 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. acmenoides | Low P | 1.7 | 0.1 | **↑** | 1.6 | 0.2 |  | 1.5 | 0.1 |  | 0.7 | 0.1 |  | 0.4 | 0.0 |
|  | Suf P | 1.0 | 0.1 |  | 1.0 | 0.2 |  | 1.5 | 0.2 |  | 0.6 | 0.1 |  | 0.4 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. globulus | Low P | 2.2 | 0.6 | **↑** | 1.8 | 0.3 |  | 1.4 | 0.1 |  | 0.5 | 0.0 |  | 0.4 | 0.0 |
|  | Suf P | 1.3 | 0.2 |  | 1.6 | 0.1 |  | 2.1 | 0.2 |  | 0.6 | 0.1 |  | 0.3 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. grandis | Low P | 1.1 | 0.1 |  | 1.9 | 0.3 |  | 1.6 | 0.2 |  | 0.4 | 0.1 |  | 0.4 | 0.1 |
|  | Suf P | 1.0 | 0.1 |  | 2.0 | 0.3 |  | 1.9 | 0.1 |  | 0.4 | 0.0 |  | 0.4 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. tereticornis | Low P | 1.1 | 0.1 |  | 2.3 | 0.1 | **↓** | 1.3 | 0.1 |  | 0.6 | 0.1 |  | 0.4 | 0.0 |
|  | Suf P | 1.2 | 0.1 |  | 3.2 | 0.2 |  | 1.7 | 0.2 |  | 0.4 | 0.0 |  | 0.5 | 0.1 |

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|  |  | **LEAVES** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **N** | **STE** |  | **K** | **STE** |  | **Ca** | **STE** |  | **Mg** | **STE** |  | **S** | **STE** |  |
| C. maculata | Low P | 9.9 | 1.7 |  | 15.5 | 1.0 |  | 9.6 | 1.3 |  | 2.7 | 0.2 |  | 0.8 | 0.1 |  |
|  | Suf P | 8.4 | 0.8 |  | 13.4 | 2.5 |  | 11.4 | 3.1 |  | 2.4 | 0.3 |  | 0.9 | 0.0 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. acmenoides | Low P | 8.2 | 0.4 |  | 9.1 | 1.4 | **↑** | 16.6 | 1.5 |  | 3.5 | 0.3 |  | 0.9 | 0.0 |  |
|  | Suf P | 7.1 | 0.6 |  | 5.1 | 1.0 |  | 18.5 | 1.8 |  | 3.9 | 0.1 |  | 0.9 | 0.0 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. globulus | Low P | 8.3 | 1.6 |  | 6.1 | 1.5 |  | 13.9 | 1.2 |  | 2.4 | 0.2 | **↓** | 0.7 | 0.1 | **↓** |
|  | Suf P | 8.5 | 1.8 |  | 4.4 | 0.6 |  | 12.7 | 1.1 |  | 4.2 | 0.1 |  | 1.1 | 0.1 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. grandis | Low P | 10.3 | 2.6 |  | 5.2 | 0.5 | **↓** | 17.0 | 1.8 |  | 4.3 | 0.6 |  | 1.0 | 0.2 |  |
|  | Suf P | 9.2 | 1.8 |  | 7.4 | 1.1 |  | 17.9 | 2.6 |  | 3.3 | 0.1 |  | 0.8 | 0.0 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E. tereticornis | Low P | 9.5 | 1.2 |  | 12.4 | 2.5 |  | 15.2 | 0.8 |  | 3.5 | 0.6 |  | 1.3 | 0.2 |  |
|  | Suf P | 7.8 | 0.4 |  | 14.7 | 1.8 |  | 17.6 | 3.0 |  | 4.0 | 0.1 |  | 1.0 | 0.1 |  |