|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Control** | | **Recovery** | | **Significant**  **effect** | **Post-hoc** |
|  | *e*CO2 | *a*CO2 | *e*CO2 | *a*CO2 |  |  |
| ***Acacia floribunda*** |  |  |  |  |  |  |
| Photosynthetic rate (*A*, μmol CO2 m⁻² s⁻¹) | 13.41 (7.58) | 19.25 (7.47) | 17.15 (1.17) | 25.11 (6.3) | C |  |
| Stomatal conductance (*Gs*, mmol m⁻² s⁻¹) | 0.41 (0.11) | 0.41 (0.07) | 0.27 (0.04) | 0.49 (0.12) | C |  |
| Water use efficiency (*A/Gs*) | 1 (0.43) | 1.22 (0.62) | 2.02 (0.35) | 1.53 (0.44) | W |  |
| Dry root biomass (g) | 5.64 (2.35) | 6.02 (2.51) | 3.74 (0.76) | 4.64 (0.94) | W |  |
| Dry fine root biomass (g) | 2.12 (1.5) | 2.27 (1.07) | 1.01 (0.39) | 1.21 (0.35) | W |  |
| Dry shoot biomass (g) | 8.9 (4.17) | 10.93 (3.67) | 9.29 (1.65) | 10.27 (3.13) | NS |  |
| Root mass fraction | 0.4 (0.14) | 0.35 (0.07) | 0.29 (0.03) | 0.32 (0.03) | W |  |
| Fine root DMC (%) | 0.13 (0.03) | 0.16 (0.04) | 0.13 (0.01) | 0.12 (0.02) | W (marginal), C \* W (marginal) | E:control-A:control (marginal), E:recovery-E:control |
| SLA (cm² g⁻¹) | 27.54 (2.12) | 28.26 (2.33) | 29.91 (2.91) | 27.84 (1.4) | NS |  |
| Stem density (cm² g⁻¹) | 0.46 (0.07) | 0.48 (0.05) | 0.5 (0.02) | 0.47 (0.12) | NS |  |
| ***Casuarina cunninghamiana*** |  |  |  |  |  |  |
| Photosynthetic rate (*A*, μmol CO2 m⁻² s⁻¹) | 25.3 (6.32) | 38.11 (7.8) | 27.41 (1.81) | 35.38 (7.6) | C |  |
| Stomatal conductance (*Gs*, mmol m⁻² s⁻¹) | 0.53 (0.14) | 0.66 (0.15) | 0.57 (0.07) | 0.61 (0.14) | NS |  |
| Water use efficiency (*A/Gs*) | 1.5 (0.2) | 1.69 (0.08) | 1.65 (0.18) | 1.65 (0.07) | NS |  |
| Dry root biomass (g) | 5.79 (3.1) | 10.88 (3.67) | 6.31 (2.07) | 7.05 (2.75) | C, C \* W | c |
| Dry fine root biomass (g) | 1.66 (1.23) | 4.11 (1.96) | 1.95 (0.73) | 2.61 (1.31) | C, C \* W (marginal) | c |
| Dry shoot biomass (g) | 10.44 (3.75) | 17.19 (5.66) | 11.97 (3.28) | 10.55 (3) | C \* W | E:control-A:control, E:recovery-E:control |
| Root mass fraction | 0.34 (0.06) | 0.39 (0.04) | 0.34 (0.03) | 0.39 (0.04) | C |  |
| Fine root DMC (%) | 0.18 (0.08) | 0.25 (0.07) | 0.15 (0.02) | 0.19 (0.03) | C, W |  |
| SLA (cm² g⁻¹) | 20.82 (2.39) | 18.84 (1.76) | 20.3 (2.19) | 21.61 (1.47) | C \* W | E:recovery-E:control (marginal) |
| Stem density (cm² g⁻¹) | 0.4 (0.03) | 0.44 (0.02) | 0.41 (0.02) | 0.41 (0.04) | C (marginal) |  |
| ***Eucalyptus camaldulensis*** |  |  |  |  |  |  |
| Photosynthetic rate (*A*, μmol CO2 m⁻² s⁻¹) | 9.94 (5.88) | 15.46 (1.49) | 17.99 (3.87) | 21.09 (2.95) | C |  |
| Stomatal conductance (*Gs*, mmol m⁻² s⁻¹) | 0.14 (0.08) | 0.17 (0.10) | 0.52 (0.17) | 0.35 (0.08) | W, C \* W (marginal) |  |
| Water use efficiency (*A/Gs*) | 2.1 (0.4) | 3.26 (1) | 1.93 (0.21) | 2.48 (0.47) | C |  |
| Dry root biomass (g) | 14.85 (3.5) | 14.32 (2.58) | 14.09 (5.73) | 13.42 (6.51) | NS |  |
| Dry fine root biomass (g) | 2.64 (1.84) | 1.73 (0.93) | 3.69 (2.73) | 3.82 (2.22) | NS |  |
| Dry shoot biomass (g) | 22.93 (5.31) | 22.63 (6.13) | 26.49 (10.35) | 23.23 (8.49) | NS |  |
| Root mass fraction | 0.39 (0.05) | 0.39 (0.05) | 0.35 (0.11) | 0.36 (0.05) | NS |  |
| Fine root DMC (%) | 0.25 (0.06) | 0.26 (0.07) | 0.18 (0.07) | 0.22 (0.06) | W |  |
| SLA (cm² g⁻¹) | 31.7 (8.24) | 28.11 (1.74) | 28.59 (1.59) | 28.08 (0.74) | NS |  |
| Stem density (cm² g⁻¹) | 0.39 (0.02) | 0.41 (0.02) | 0.39 (0.04) | 0.39 (0.06) | NS |  |