

**Table S1.** Effect of AMF and extract types on shoot fresh (SFW) and shoot dry (SDW) weights of *A. gerrardii* seedlings

| Extract type | Inoculant | Concentration | SFW (g)       | SDW (g)       | RFW (g)       | RDW (g)       |
|--------------|-----------|---------------|---------------|---------------|---------------|---------------|
| Leaf         | AMF+      | 0             | 8.88 ± 0.3782 | 4.81 ± 0.2641 | 5.55 ± 0.6410 | 3.52 ± 0.3428 |
|              |           | 20            | 11.5 ± 0.7581 | 6.02 ± 0.4090 | 5.50 ± 0.6364 | 3.06 ± 0.3006 |
|              |           | 60            | 9.41 ± 1.0723 | 4.52 ± 0.5517 | 4.67 ± 0.2898 | 2.31 ± 0.4087 |
|              |           | 100           | 7.67 ± 0.5254 | 3.97 ± 0.1762 | 4.35 ± 0.5041 | 2.20 ± 0.1806 |
|              | AMF-      | 0             | 5.10 ± 0.4026 | 3.07 ± 0.1527 | 3.70 ± 0.4882 | 2.02 ± 0.2394 |
|              |           | 20            | 5.58 ± 0.3138 | 3.16 ± 0.2183 | 3.85 ± 0.5560 | 2.10 ± 0.2160 |
|              |           | 60            | 6.10 ± 0.4392 | 3.33 ± 0.2657 | 3.82 ± 0.2175 | 2.02 ± 0.0854 |
|              |           | 100           | 4.83 ± 0.2794 | 2.88 ± 0.1796 | 3.65 ± 0.2598 | 2.01 ± 0.1109 |
| Flower       | AMF+      | 0             | 8.70 ± 0.5661 | 5.08 ± 0.3178 | 5.77 ± 0.6316 | 2.96 ± 0.3738 |
|              |           | 20            | 9.70 ± 0.9076 | 4.57 ± 0.3843 | 5.62 ± 0.6223 | 2.72 ± 0.2165 |
|              |           | 60            | 8.77 ± 0.4612 | 4.23 ± 0.1919 | 4.27 ± 0.4423 | 2.21 ± 0.1671 |
|              |           | 100           | 6.15 ± 0.3021 | 3.50 ± 0.2806 | 4.55 ± 0.3969 | 2.20 ± 0.1438 |
|              | AMF-      | 0             | 5.65 ± 0.2282 | 3.28 ± 0.2340 | 3.85 ± 0.2754 | 2.15 ± 0.2062 |
|              |           | 20            | 6.01 ± 0.3608 | 3.43 ± 0.1161 | 4.22 ± 0.0854 | 2.17 ± 0.0479 |
|              |           | 60            | 5.46 ± 0.7720 | 2.85 ± 0.4067 | 4.00 ± 0.6178 | 2.17 ± 0.3683 |
|              |           | 100           | 5.48 ± 0.6756 | 2.68 ± 0.4018 | 3.50 ± 0.4243 | 1.95 ± 0.1555 |

**Table S2.** Effect of AMF and extract types on root volume distribution per root diameter class (mm) in *A. gerrardii* seedlings

| Extract type | Concentration | Inoculant | Root volume within root diameter classes |            |            |            |           |
|--------------|---------------|-----------|------------------------------------------|------------|------------|------------|-----------|
|              |               |           | 0-1                                      | 1-2        | 2-3        | 3-4        | 4-5       |
| Leaf         | 0             | -AMF      | 0.509±0.119                              | 1.37±0.328 | 1.07±0.167 | 0.77±0.071 | 8.92±3.53 |
|              |               | +AMF      | 0.585±0.031                              | 1.70±0.065 | 1.35±0.165 | 1.03±0.219 | 24.1±12.0 |
|              | 20            | -AMF      | 0.485±0.019                              | 1.04±0.273 | 1.11±0.220 | 1.06±0.165 | 18.5±3.82 |
|              |               | +AMF      | 0.744±0.129                              | 1.78±0.335 | 1.30±0.307 | 1.05±0.289 | 19.6±3.82 |
|              | 60            | -AMF      | 0.599±0.084                              | 1.44±0.023 | 1.42±0.271 | 0.87±0.210 | 8.26±1.50 |
|              |               | +AMF      |                                          |            |            |            |           |

|        |     |      |             |            |            |            |           |
|--------|-----|------|-------------|------------|------------|------------|-----------|
| Flower | 100 | +AMF | 0.787±0.107 | 1.72±0.068 | 1.58±0.283 | 1.32±0.274 | 31.8±4.81 |
|        |     | -AMF | 0.482±0.122 | 1.28±0.132 | 0.78±0.156 | 0.45±0.140 | 5.30±2.23 |
|        | 0   | +AMF | 0.606±0.130 | 1.79±0.248 | 1.29±0.333 | 0.90±0.165 | 16.1±2.17 |
|        |     | -AMF | 0.557±0.063 | 1.27±0.178 | 1.01±0.185 | 0.88±0.210 | 7.54±0.83 |
|        | 20  | +AMF | 0.829±0.079 | 1.93±0.069 | 1.60±0.330 | 0.91±0.118 | 22.0±9.05 |
|        |     | -AMF | 0.599±0.036 | 1.38±0.226 | 0.91±0.085 | 0.73±0.048 | 10.9±0.61 |
|        | 60  | +AMF | 0.679±0.085 | 1.62±0.082 | 1.50±0.193 | 1.10±0.303 | 28.7±10.0 |
|        |     | -AMF | 0.580±0.050 | 1.40±0.222 | 1.10±0.109 | 0.75±0.097 | 8.54±0.89 |
|        | 100 | +AMF | 0.592±0.020 | 1.55±0.235 | 1.15±0.055 | 1.18±0.145 | 19.4±6.58 |
|        |     | -AMF | 0.539±0.018 | 1.17±0.022 | 1.29±0.257 | 0.97±0.021 | 8.61±0.21 |
|        |     | +AMF | 0.543±0.040 | 1.43±0.170 | 1.39±0.287 | 1.30±0.156 | 9.53±2.97 |