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| **Appendix-C:** Morphological indicators of 5 tolerant varieties (lines) and 5 moisture-sensitive varieties (lines) under drought stress  (mean ± SD). | | | | | | | | | | | |
| **Drought**  **tolerant variety (line)** | No. | Variety (line) | Treat  ment | Seedling height (cm) | Whole  seedling  Fresh   weight  (g) | Whole seedling  dry  Weight  (g) | Total root length (cm) | Total root surface area (cm2) | Total root volume (cm3) | Average root diameter (mm) |
| 1 | Yun0401 | Drought stress | 11.89±  0.62de | 0.240±  0.005c | 0.099±  0.010f | 145.62±  19.44f | 16.31±  0.86e | 0.145±  0.001e | 0.289±  0.025c |
| Drought control | 19.09±  1.39abc | 0.649±  0.038b | 0.161±  0.017c | 179.65±  15.59bdef | 21.04±  0.93cd | 0.209±  0.004d | 0.304±  0.018c |
| 2 | Yun0421 | Drought stress | 16.60±  0.21cd | 0.296±  0.051c | 0.130±  0.002e | 190.57±  14.58de | 24.48±  3.29c | 0.304±  0.001c | 0.315±  0.032c |
| Drought control | 22.22±  2.86ab | 0.727±  0.017b | 0.170±  0.007b | 233.81±  19.46bc | 29.13±  1.33ab | 0.377±  0.026b | 0.331±  0.009c |
| 3 | Yun0624 | Drought stress | 15.76±  2.00cde | 0.273±  0.089c | 0.101±  0.004ef | 170.94±  13.31ef | 15.38±  0.17e | 0.148±  0.002e | 0.306±  0.010c |
| Drought control | 19.16±  0.59abc | 0.920±  0.237b | 0.145±  0.007bcd | 213.11±  12.68cde | 19.02±  0.660de | 0.214±  0.020d | 0.354±  0.002c |
| 4 | Dianmai6 | Drought stress | 11.50±  3.01e | 0.301±  0.012c | 0.096±  0.001f | 220.50±  18.34bcd | 21.67±  0.65cb | 0.209±  0.004d | 0.335±  0.024c |
| Drought control | 18.22±  0.11bc | 0.894±  0.183b | 0.139±  0.003cd | 259.23±  14.01b | 25.30±  0.82bc | 0.356±  0.001b | 0.431±  0.016a |
| 5 | Jingmai  12 | Drought stress | 17.57±  0.78bc | 0.270±  0.076c | 0.147±  0.005bcd | 219.06±  4.69bcd | 19.60±  0.22de | 0.214±  0.005d | 0.357±  0.032bc |
| Drought control | 23.91±  1.82a | 1.639±  0.008a | 0.239±  0.024a | 411.96±  5.017a | 33.30±  0.75a | 0.635±  0.030a | 0.430±  0.012ab |
| **Moisture**  **sensitive variety (line)** | No. | Variety (line) | Treat  ment | Seedling  height (cm) | Whole  seedling  fresh  weight  (g) | Whole seedling   dry  weight  (g) | Total root length  (cm) | Total root surface area (cm2) | Total root volume (cm3) | Average root diameter (mm) |
| 1 | Yun0058 | Drought stress | 10.79±  0.83bc | 0.153±  0.009b | 0.071±  0.001c | 107.52±  8.94de | 8.30±  1.17ef | 0.080±  0.001cd | 0.104±  0.001cd |
| Drought control | 15.14±  3.57ab | 0.572±  0.166a | 0.104±  0.003a | 173.71±  20.71b | 12.61±  0.79cd | 0.170±  0.002b | 0.259±  0.001a |
| 2 | Yun0059 | Drought stress | 9.20±  0.81bc | 0.099±  0.002b | 0.045±  0.001d | 87.04±  14.12e | 7.82±  0.40ef | 0.064±  0.005d | 0.176±  0.005abc |
| Drought control | 16.26±  0.86ab | 0.480±  0.010a | 0.101±  0.004a | 244.40±  6.97a | 17.55±  1.91b | 0.129±  0.013bc | 0.247±  0.006ab |
| 3 | Yun0064 | Drought stress | 9.43±  1.18bc | 0.166±  0.007b | 0.084±  0.001bc | 115.85±  21.49cde | 8.56±  1.33def | 0.063±  0.001d | 0.122±  0.004cd |
| Drought control | 14.88±  2.92ab | 0.601±  0.009a | 0.094±  0.003ab | 254.11±  4.30a | 22.66±  1.81a | 0.286±  0.054a | 0.207±  0.008abc |
| 4 | Yun0073 | Drought stress | 7.37±  1.40c | 0.093±  0.006b | 0.044±  0.013d | 84.60±  1.24e | 6.26±  0.20f | 0.046±  0.003d | 0.010±  0.001d |
| Drought control | 16.14±  4.10ab | 0.448±  0.008a | 0.068±  0.002c | 138.73±  5.20bcd | 12.83±  3.22c | 0.142±  0.014b | 0.124±  0.006cd |
| 5 | Yun0101 | Drought stress | 11.81±  0.96abc | 0.169±  0.006b | 0.079±  0.009bc | 148.38±  6.81bc | 10.56±  0.43cde | 0.051±  0.006d | 0.133±  0.027bc |
| Drought control | 18.70±  4.60a | 0.581±  0.005a | 0.11±  0.007a | 254.93±  22.64a | 25.38±  0.61a | 0.118±  0.002bc | 0.284±  0.130a |

Data presented are mean ± SD. Values with matching letters are not significantly different from each other (P > 0.05).