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| --- | --- |
|  | **Supplementary Table 1. phenotypic correlation between traits measured under control and drought conditions** |
|  | **DS** |
|  |  | **GL** | **RL** | **GFW** | **GDW** | **RFW** | **RDW** | **GP** | **GR** | **GI** | **RSA** | **RSR** | **RLS** | **RLWC** | **PHS** | **GFWS** | **UFWS** | **GDWS** | **UDWS** |
| **CK** | **GL** |  | 0.613\*\* | 0.637\*\* | 0.275\*\* | 0.631\*\* | 0.484\*\* | 0.405\*\* | 0.316\*\* | 0.355\*\* | -0.001 | -0.112 | 0.068 | -0.116 | 0.212\*\* | 0.091 | 0.085 | 0.112 | -0.02 |
| **RL** | 0.701\*\* |  | 0.649\*\* | 0.350\*\* | 0.734\*\* | 0.655\*\* | 0.570\*\* | 0.483\*\* | 0.505\*\* | -0.018 | -0.06 | 0.169\* | -0.051 | 0.132 | -0.037 | -0.103 | 0.097 | 0.057 |
| **GFW** | 0.624\*\* | 0.689\*\* |  | 0.609\*\* | 0.833\*\* | 0.676\*\* | 0.601\*\* | 0.475\*\* | 0.515\*\* | -0.06 | -0.12 | 0.055 | -0.056 | 0.094 | 0.061 | 0.016 | 0.151 | 0.085 |
| **GDW** | 0.023 | 0.121 | 0.539\*\* |  | 0.478\*\* | 0.447\*\* | 0.473\*\* | 0.361\*\* | 0.370\*\* | -0.056 | -0.057 | 0.083 | -0.113 | -0.071 | -0.008 | -0.002 | 0.067 | 0.016 |
| **RFW** | 0.489\*\* | 0.739\*\* | 0.769\*\* | 0.279\*\* |  | 0.746\*\* | 0.499\*\* | 0.393\*\* | 0.428\*\* | -0.036 | -0.086 | 0.134 | -0.076 | 0.109 | -0.006 | -0.056 | 0.097 | 0.051 |
| **RDW** | 0.360\*\* | 0.632\*\* | 0.661\*\* | 0.403\*\* | 0.730\*\* |  | 0.466\*\* | 0.346\*\* | 0.342\*\* | -0.066 | -0.12 | 0.064 | -0.006 | 0.073 | 0.059 | -0.113 | 0.135 | 0.008 |
| **GP** | 0.431\*\* | 0.421\*\* | 0.438\*\* | 0.223\*\* | 0.361\*\* | 0.361\*\* |  | 0.919\*\* | 0.921\*\* | -0.106 | -0.109 | 0.007 | -0.205\* | 0.111 | 0.045 | 0.036 | 0.043 | -0.028 |
| **GR** | 0.403\*\* | 0.375\*\* | 0.359\*\* | 0.192\* | 0.289\*\* | 0.300\*\* | 0.977\*\* |  | 0.956\*\* | -0.079 | -0.045 | 0.011 | -0.196\* | 0.049 | 0.041 | 0.046 | 0.002 | -0.011 |
| **GI** | 0.376\*\* | 0.360\*\* | 0.321\*\* | 0.174\* | 0.253\*\* | 0.265\*\* | 0.927\*\* | 0.950\*\* |  | -0.099 | -0.063 | 0.001 | -0.195\* | 0.029 | 0.03 | 0.045 | -0.017 | -0.025 |
| **RSA** | 0.012 | 0.028 | 0.062 | 0.014 | 0.049 | 0.102 | 0.067 | 0.067 | 0.085 |  | 0.323\*\* | 0.682\*\* | 0.176\* | 0.115 | -0.127 | -0.026 | 0.154 | 0.231\*\* |
| **RSR** | -0.04 | 0.095 | 0.018 | -0.053 | 0.109 | 0.064 | -0.06 | -0.062 | -0.07 | 0.042 |  | 0.144 | 0.002 | -0.252\*\* | -0.220\*\* | 0.056 | -0.346\*\* | 0.467\*\* |
| **RLS** | 0.048 | 0.106 | 0.026 | -0.063 | 0.034 | 0.116 | 0.069 | 0.068 | 0.051 | 0.552\*\* | 0.103 |  | 0.039 | 0.112 | -0.032 | 0.026 | 0.279\*\* | 0.204\* |
| **RLWC** | 0.159 | 0.139 | 0.119 | 0.025 | 0.095 | 0.158 | 0.025 | 0.02 | 0.032 | 0.055 | -0.044 | -0.159 |  | 0.078 | -0.037 | -0.038 | -0.015 | -0.071 |
| **PHS** | 0.187\* | 0.002 | 0.087 | -0.065 | 0.016 | -0.055 | 0.187\* | 0.168\* | 0.121 | 0.06 | -0.027 | 0.102 | -0.108 |  | 0.337\*\* | 0.03 | 0.443\*\* | 0.145 |
| **GFWS** | 0.029 | 0.059 | 0.125 | 0.14 | 0.078 | 0.126 | -0.007 | -0.007 | -0.015 | 0.276\*\* | -0.103 | 0.055 | 0.098 | 0.163\* |  | 0.420\*\* | 0.317\*\* | 0.141 |
| **UFWS** | 0.214\*\* | 0.402\*\* | 0.474\*\* | 0.281\*\* | 0.617\*\* | 0.471\*\* | 0.088 | 0.055 | 0.02 | 0.347\*\* | 0.216\*\* | 0.207\* | 0.003 | 0.091 | 0.231\*\* |  | -0.109 | 0.018 |
| **GDWS** | 0.123 | 0.025 | 0.109 | 0.036 | 0.081 | 0.092 | 0.029 | 0.021 | 0.034 | 0.151 | -0.358\*\* | -0.002 | -0.055 | 0.241\*\* | 0.382\*\* | 0.134 |  | 0.496\*\* |
| **UDWS** | 0.029 | 0.168\* | 0.229\*\* | 0.097 | 0.287\*\* | 0.383\*\* | -0.044 | -0.063 | -0.084 | 0.04 | 0.523\*\* | 0.132 | -0.112 | 0.101 | 0.107 | 0.381\*\* | 0.251\*\* |  |