Supplementary Table 1. Non-parametric correlations between total biomass and plant architectural traits at the three developmental stages. Entries are Spearman rho values. Significance levels are denoted by asterisks, \* P < 0.05, \*\* P < 0.01, \*\* P < 0.001.

|  |  |  |
| --- | --- | --- |
| Trait | Total Biomass Greenhouse | Total Biomass Field |
| Vegetative height | ns | + 0.31 \*\*\* |
| Vegetative tiller number | ns | ns |
| Flowering height | + 0.58 \*\*\* | + 0.74 \*\*\* |
| Flowering tiller number | + 0.19 \*  | ns |
| Flowering aerial branch number | ns | ns |
| Days to flowering | + 0.66 \*\*\* | ns |
| Harvest height | + 0.52 \*\*\* | + 0.79 \*\*\* |
| Harvest tallest tiller height | + 0.51 \*\*\* | + 0.73 \*\*\* |
| Harvest node number | + 0.60 \*\*\* | + 0.48 \*\*\* |
| Harvest tiller number | – 0.39 \*\*\* | ns |
| Harvest aerial branch number | – 0.42 \*\*\* | ns |
| Days to harvest | ns | ns |