

Supplementary File

Table 1. Pearson correlation matrix showing the relationship among plant height (PH), leaf area (LA), leaf weight (LW), stem weight (SW), root weight (RW), total weight (TW), canopy temperature (CT), chlorophyll content (SPAD), Cumulative root length (RCL), root surface area (RSA), root diameter (RAD), root volume (RV), number of root tips (RT), number of forks (RF), number of crossings (RC), and root/shoot ratio (R/S) of 64 soybean cultivars.

Parameters	PH	NN	LA	LW	SW	RW	TW	CT	SPAD	CRL	RSA	RAD	RV	RT	RF	RC	R/S
PH	1	0.90 ***	0.87 ***	0.77 ***	0.86 ***	0.73 ***	0.81 ***	0.72 ***	0.75 ***	0.84 ***	0.82 ***	-0.68 ***	0.78 ***	0.78 ***	0.83 ***	0.83 ***	-0.42 ***
NN		1	0.90 ***	0.82 ***	0.89 ***	0.82 ***	0.86 ***	0.83 ***	0.86 ***	0.85 ***	0.84 ***	-0.67 ***	0.79 ***	0.79 ***	0.85 ***	0.85 ***	-0.41 ***
LA			1	0.88 ***	0.93 ***	0.86 ***	0.92 ***	0.73 ***	0.80 ***	0.90 ***	0.89 ***	-0.65 ***	0.85 ***	0.78 ***	0.89 ***	0.89 ***	-0.41 ***
LW				1	0.91 ***	0.88 ***	0.99 ***	0.62 ***	0.72 ***	0.83 ***	0.83 ***	-0.56 ***	0.80 ***	0.71 ***	0.82 ***	0.82 ***	-0.45 ***
SW					1	0.88 ***	0.96 ***	0.69 ***	0.76 ***	0.86 ***	0.86 ***	-0.61 ***	0.83 ***	0.73 ***	0.86 ***	0.85 ***	-0.43 ***
RW						1	0.93 ***	0.67 ***	0.73 ***	0.85 ***	0.85 ***	-0.51 ***	0.85 ***	0.67 ***	0.81 ***	0.82 ***	-0.24 ***
TW							1	0.66 ***	0.76 ***	0.87 ***	0.87 ***	-0.58 ***	0.84 ***	0.73 ***	0.85 ***	0.85 ***	-0.42 ***
CT								1	0.83 ***	0.67 ***	0.64 ***	-0.58 ***	0.61 ***	0.64 ***	0.70 ***	0.69 ***	-0.30 ***
SPAD									1	0.76 ***	0.73 ***	-0.59 ***	0.70 ***	0.71 ***	0.77 ***	0.76 ***	-0.35 ***
RL										1	0.97 ***	-0.63 ***	0.94 ***	0.79 ***	0.95 ***	0.95 ***	-0.37 ***
RSA											1	-0.57 ***	0.96 ***	0.76 ***	0.94 ***	0.93 ***	-0.36 ***
RAD												1	-0.48 ***	-0.65 ***	-0.62 ***	-0.64 ***	0.39 ***
RV													1	0.71 ***	0.91 ***	0.90 ***	-0.31 ***
RT														1	0.79 ***	0.77 ***	-0.39 ***
RF															1	0.98 ***	-0.38 ***
RC																1	-0.37 ***
R/S																	1