Supplementary Material

Table S1. Correlation matrix – relationships between yield of onion bulbs and parameters describing dynamics of plant growth and N and S accumulation (n = 9)

Parameters	Yield	C_m	R_m	R_L	T_b	TDW_{Tb}	NC_m	NR_m	NR_L	NT_b	TNU_{Tb}	SC_m	SR_m
C_m	0,45												
R_m	-0,68*	-0,73*											
R_L	0,58	0,82**	-0,98***										
T_b	0,52	0,96***	-0,88**	0,94***									
TDW_{Tb}	0,43	0,99***	-0,72*	0,81**	0,96***								
NC_m	0,60	0,95***	-0,75*	0,80*	0,92***	0,95***							
NR_m	-0,17	-0,51	0,53	-0,52	-0,55	-0,52	-0,58						
NR_L	0,25	0,87**	-0,58	0,65	0,82**	0,88**	0,88**	-0,76*					
NT_b	0,29	0,88**	-0,61	0,68*	0,83**	0,89**	0,89**	-0,79*	0,99***				
TNU_{Tb}	0,51	0,95***	-0,73*	0,78*	0,92***	0,95***	0,97***	-0,71*	0,93***	0,96***			
SC_m	0,88**	0,69*	-0,78*	0,72*	0,73*	0,68*	0,82**	-0,44	0,54	0,57	0,75*		
SR_m	0,28	0,21	-0,03	0,00	0,15	0,21	0,20	0,31	0,09	0,04	0,11	0,31	
TSU_{T2}	0,87**	0,48	-0,54	0,44	0,49	0,48	0,64	-0,20	0,36	0,37	0,55	0,89**	0,51

* , ** , *** at $p < 0.05$; 0.01; 0.001; respectively.

Key: C_m – maximum absolute crop growth rate in the linear phase; R_m – maximum relative growth rate in the exponential phase; R_L - relative growth rate in the linear phase; T_b – time when the canopy changes from exponential to linear growth; TDW_{Tb} - predicted total plant dry matter at T_b; NC_m – maximum absolute N accumulation rate in the linear phase; NR_m – maximum relative N accumulation rate in the exponential phase; NR_L - relative N accumulation rate in the linear phase; NT_b – time when N accumulation changes from exponential to linear growth; TNU_{Tb} – predicted total N accumulation at T_b; SC_m – maximum absolute S accumulation rate computed at time T_2 = 90 days after emergence; SR_m – maximum of relative S uptake rate computed at T = 20 days after emergence; TSU_{T2} – predicted total S accumulation at 90 days after emergence.