

**Table S1.** Correlation coefficient between maturity and phenotypes.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
(1) Maturity	1																		
(2) R1 (High, 5 cm)	-0.010	1																	
(3) R6 (High, 5 cm)	-0.421	0.286	1																
(4) Pod (High, 5 cm)	0.235	0.012	-0.362	1															
(5) R1 (high, 10 cm)	0.004	0.696	0.162	-0.086	1														
(6) R6 (high, 10 cm)	-0.188	0.227	0.308	-0.396	0.548	1													
(7) Pod (high, 10 cm)	0.066	0.058	-0.170	0.617	-0.098	-0.579	1												
(8) R1 (Low, 5 cm)	-0.020	0.416	0.378	-0.420	0.414	0.493	-0.294	1											
(9) R6 (Low, 5 cm)	-0.384	0.295	0.714	-0.480	0.307	0.412	-0.381	0.471	1										
(10) Pod (Low, 5 cm)	-0.028	-0.236	-0.341	0.645	-0.137	-0.442	0.570	-0.410	-0.415	1									
(11) R1 (Low, 10 cm)	-0.079	0.720	0.126	-0.005	0.703	0.263	0.022	0.436	0.259	-0.081	1								
(12) R6 (Low, 10 cm)	-0.474	0.161	0.530	-0.260	0.413	0.653	-0.348	0.214	0.642	-0.224	0.328	1							
(13) Pod (Low, 10 cm)	-0.158	-0.217	-0.354	0.494	-0.308	-0.614	0.692	-0.463	-0.425	0.656	-0.190	-0.293	1						
(14) R1 (So, 5 cm)	-0.023	0.169	-0.176	0.002	0.537	0.217	-0.111	0.147	-0.017	0.339	0.262	0.143	-0.040	1					
(15) R6 (So, 5 cm)	0.194	0.133	0.019	-0.179	0.379	0.168	-0.145	0.043	0.194	0.064	0.103	0.221	-0.224	0.573	1				
(16) Pod (So, 5 cm)	-0.203	-0.240	-0.168	0.000	-0.222	-0.336	0.219	-0.139	-0.304	0.401	-0.086	-0.186	0.387	0.111	-0.278	1			
(17) R1 (So, 10 cm)	0.183	0.218	-0.305	0.114	0.458	-0.082	0.143	0.004	-0.062	0.535	0.396	0.063	0.113	0.744	0.572	0.073	1		
(18) R6 (So, 10 cm)	0.124	0.359	-0.160	-0.130	0.513	-0.024	0.097	0.272	0.013	0.097	0.167	-0.097	0.039	0.651	0.538	0.011	0.626	1	
(19) Pod (So, 10 cm)	0.225	-0.124	-0.254	0.273	-0.444	-0.515	0.416	-0.197	-0.453	0.361	-0.256	-0.469	0.433	-0.111	-0.308	0.465	0.014	-0.208	1

\*R1;Average days to R1, R6;Average days to R6, Pod;Number of pods plant<sup>-1</sup>, high;High PPFD, low;Low PPFD, so;Sodium lamp, 5 cm;5 cm x 5 cm of planting density, 10 cm; 10 cm x 10 cm planting density