

Table 7 Direct (diagonal) and indirect effects of component characters on grain yield in normal plant density (D₃: 45 cm × 20 cm)

Characters	PH	DFF	LAF	LI	DI	FWI	NR	LR	NSB	TCC	PC	r _g with grain yield
PH	0.191	0.101	0.142	-0.134	0.883	-0.228	0.161	-0.023	-0.504	-0.052	0.333	0.687
DFF	0.020	-0.932	0.200	0.208	-0.212	0.064	0.474	-0.239	0.143	0.292	-1.694	-0.383
LAF	-0.363	-0.249	0.748	-0.140	-0.179	-0.073	-0.132	-0.072	-0.051	-0.306	0.002	0.006
LI	-0.174	0.131	0.071	1.473	1.186	-0.205	0.234	0.081	-0.460	0.048	0.040	0.326
DI	-0.144	0.169	-0.114	-1.498	1.167	-0.176	-0.291	0.131	-0.307	0.055	0.008	0.198
FWI	-0.173	0.239	0.217	-1.201	0.816	1.970	-0.128	0.041	-0.621	-0.079	-0.013	0.783*
NR	0.017	0.251	0.056	0.195	0.193	-0.018	-1.761	0.083	0.177	-0.247	-0.007	0.375
LR	0.012	0.640	-0.155	-0.345	0.440	-0.029	-0.421	0.348	-0.134	0.055	0.038	0.009
NSB	-0.144	0.199	0.057	-1.013	0.536	-0.234	0.466	0.069	1.009	-0.053	-0.067	0.623
TCC	-0.120	0.341	0.288	0.090	0.090	-0.025	-0.549	-0.232	0.144	-0.793	-0.054	0.289
PC	-0.143	0.393	0.168	-0.748	0.012	-0.220	-0.836	0.029	-0.446	-0.267	-0.852	0.056

Note: *Significance at 5 per cent level; **Significance at 1 per cent level; Residual effect = 0.415; r_g = Genotypic correlation; PH: Plant height; DFF: Days to 50 per cent flowering; LAF: Leaf area at 50 per cent flowering; LI: Length of the primary inflorescence; DI: Diameter of the inflorescence; FWI: Fresh weight of the inflorescence; NR: Number of rachis per inflorescence; LR: Length of the rachis per inflorescence; NSB: Number of secondary branches per inflorescence; TCC: Total carbohydrates content; PC: Protein content