

Table 3 Genotypic and phenotypic path coefficient analysis of different quantitative traits on yield showing direct (bold) and indirect effects

		PH	NPB/P	NSB/P	SD	DFF	DFFr	HP	NFrI/P	NFrS/P	FL	FSL	FC	FW/Fr	F/P	Y/P
PH	G	-0.071	-0.287	0.368	0.058	-0.039	0.046	0.023	0.439	-0.096	-0.226	-0.202	0.137	-0.026	-0.135	-0.013
	P	-0.023	0.016	0.044	-0.097	0.000	-0.008	-0.005	0.118	-0.152	-0.039	0.014	0.055	-0.034	0.002	-0.109
NPB/P	G	-0.047	-0.438	0.657	0.059	-0.397	0.464	0.177	0.467	0.056	-0.164	-0.095	-0.057	0.064	-0.401	0.346
	P	-0.011	0.034	0.064	-0.071	0.040	0.037	-0.020	0.179	0.091	-0.023	0.007	-0.013	0.035	-0.122	0.227
NSB/P	G	-0.037	-0.402	0.715	0.038	-0.294	0.460	0.049	0.530	0.077	-0.116	-0.124	-0.037	0.121	-0.473	0.508
	P	-0.011	0.022	0.097	-0.058	0.039	0.046	-0.004	0.315	0.099	-0.020	0.013	-0.010	0.083	-0.191	0.420
SD	G	-0.050	-0.319	0.332	0.081	-0.212	0.189	0.122	-0.277	0.024	-0.064	-0.056	-0.142	0.224	0.141	-0.009
	P	-0.013	0.014	0.033	-0.170	0.019	0.013	-0.019	-0.184	0.003	-0.014	0.002	-0.038	0.207	0.087	-0.061
DFF	G	0.005	0.301	-0.364	-0.030	0.578	-0.795	-0.176	-0.514	-0.095	0.119	-0.100	0.248	-0.312	0.491	-0.644
	P	0.000	-0.017	-0.047	0.040	-0.080	-0.092	0.023	-0.312	-0.221	0.026	0.004	0.092	-0.269	0.237	-0.616
DFFr	G	0.004	0.254	-0.412	-0.019	0.575	-0.799	-0.134	-0.640	-0.083	0.155	-0.051	0.201	-0.317	0.553	-0.713
	P	-0.002	-0.012	-0.044	0.021	-0.072	-0.103	0.017	-0.430	-0.191	0.033	0.002	0.081	-0.289	0.282	-0.706
HP	G	0.005	0.258	-0.117	-0.033	0.340	-0.358	-0.299	0.443	-0.006	0.049	-0.032	0.281	-0.380	-0.279	-0.128
	P	0.002	-0.012	-0.008	0.060	-0.035	-0.032	0.053	0.303	-0.020	0.013	0.004	0.113	-0.401	-0.138	-0.097
NFrI/P	G	-0.017	-0.110	0.204	-0.012	-0.160	0.275	-0.071	1.861	-0.015	-0.200	-0.029	0.209	-0.264	-1.197	0.474
	P	-0.002	0.005	0.025	0.026	0.021	0.036	0.013	1.218	-0.085	-0.042	0.003	0.082	-0.263	-0.555	0.482
NFrS/P	G	0.034	-0.121	0.273	0.010	-0.271	0.328	0.009	-0.134	0.202	0.262	0.164	-0.244	0.118	-0.241	0.390
	P	0.007	0.006	0.018	-0.001	0.033	0.037	-0.002	-0.195	0.532	0.041	-0.011	-0.086	0.112	-0.114	0.377
FL	G	-0.041	-0.183	0.211	0.013	-0.175	0.317	0.037	0.949	-0.135	-0.392	-0.191	0.187	-0.009	-0.405	0.184
	P	-0.009	0.008	0.019	-0.023	0.020	0.033	-0.007	0.492	-0.213	-0.103	0.017	0.065	0.024	-0.154	0.170
FSL	G	-0.045	-0.129	0.276	0.014	0.179	-0.127	-0.030	0.167	-0.103	-0.232	-0.322	0.286	-0.180	0.058	-0.187
	P	-0.009	0.006	0.035	-0.007	-0.009	-0.005	0.006	0.112	-0.159	-0.048	0.036	0.095	-0.210	0.008	-0.149
FC	G	0.019	-0.050	0.053	0.023	-0.287	0.322	0.168	-0.778	0.099	0.147	0.185	-0.500	0.692	0.351	0.445
	P	0.006	0.002	0.005	-0.031	0.035	0.040	-0.029	-0.475	0.216	0.032	-0.016	-0.211	0.715	0.144	0.433
FW/Fr	G	0.002	-0.036	0.112	0.024	-0.233	0.328	0.147	-0.635	0.031	0.004	0.075	-0.447	0.774	0.367	0.514
	P	0.001	0.001	0.010	-0.042	0.026	0.036	-0.026	-0.385	0.071	-0.003	-0.009	-0.181	0.834	0.158	0.491
F/P	G	-0.008	-0.141	0.273	-0.009	-0.229	0.357	-0.067	1.796	0.039	-0.128	0.015	0.141	-0.229	-1.241	0.568
	P	0.000	0.007	0.031	0.025	0.032	0.049	0.012	1.142	0.103	-0.027	-0.001	0.052	-0.223	-0.591	0.612

Genotypic Residual Effect **R = 0.36375**, Phenotypic Residual Effect **R = 0.31839**.

PH = Plant height (cm), NPB/P = No. of primary branches/plant, NSB/P = No. of secondary branches/plant, SD = Stem diameter (cm), DFF = Days to first flowering, DFFr = Days to first fruiting, HP = Harvesting period, NFrI/P = No. of fruits in inflorescence/plant, NFrS/P = No. of fruits in solitary/plant, FL = Fruit length (cm), FSL = Fruit stalk length (cm), FC = Fruit circumference(cm), FW/Fr = Fresh weight/fruit (g), F/P = Fruits/plant, Y/P = Yield/plant (g) (G = Genotypic Path Coefficient P = Phenotypic Path Coefficient)