

Table 5 Path coefficient analysis of fruit yield per plant versus yield components in F₅ populations of single cross

Characters	Populations	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	Correlation with yield
X1	SCH	-0.643	0.068	0.184	-0.019	0.078	-0.249	0.070	-0.003	-0.011	0.039	-0.408	-0.894**
	DCH	-0.799	0.033	-0.154	0.454	0.077	-0.072	-0.399	-0.307	0.188	0.276	0.031	-0.672**
X2	SCH	-0.210	0.207	-0.061	-0.003	0.013	-0.009	0.016	-0.001	0.004	-0.001	-0.142	-0.187
	DCH	-0.257	0.103	-0.045	0.269	-0.019	-0.003	-0.255	0.010	-0.057	0.113	0.007	-0.134
X3	SCH	-0.284	0.044	0.280	0.022	-0.084	0.416	-0.071	0.003	0.005	-0.046	0.538	0.823**
	DCH	0.639	-0.016	0.290	-0.316	-0.089	0.085	0.212	-0.158	-0.011	0.120	0.025	0.781**
X4	SCH	0.363	-0.018	-0.182	0.034	-0.073	0.302	-0.080	0.001	-0.014	-0.042	0.450	0.741**
	DCH	0.650	-0.025	0.082	-0.551	-0.033	0.121	-0.554	-0.025	0.236	0.600	-0.028	0.473**
X5	SCH	-0.402	0.021	0.191	-0.020	-0.240	-0.125	0.060	-0.002	-0.010	0.043	-0.544	-0.783**
	DCH	-0.602	-0.013	0.153	0.243	-0.168	-0.058	-0.201	0.106	-0.130	0.134	0.025	-0.511**
X6	SCH	0.367	-0.004	-0.182	0.024	-0.070	0.437	-0.080	0.001	-0.010	-0.039	0.367	0.811**
	DCH	0.497	-0.001	0.106	-0.583	-0.038	0.231	-0.001	-0.134	0.161	0.419	0.015	0.672**
X7	SCH	0.349	-0.026	-0.156	0.021	-0.059	0.270	-0.129	0.001	0.012	-0.042	0.335	0.576**
	DCH	0.073	0.003	0.039	-0.626	0.030	0.137	0.303	-0.073	0.251	0.305	-0.011	0.431**
X8	SCH	0.249	-0.015	-0.131	0.007	-0.063	0.149	-0.041	0.004	0.004	-0.026	0.315	0.452**
	DCH	-0.256	0.004	-0.157	0.094	0.056	-0.106	-0.253	0.291	-0.172	-0.125	0.012	-0.612**
X9	SCH	0.054	0.007	-0.011	-0.004	-0.010	-0.032	-0.010	0.001	0.128	-0.012	0.082	0.193
	DCH	-0.318	-0.006	-0.004	-0.277	-0.021	0.277	0.473	-0.053	0.236	-0.054	-0.024	0.229
X10	SCH	0.380	0.003	-0.197	0.022	-0.080	0.258	-0.081	0.002	0.022	-0.066	0.464	0.727**
	DCH	-0.370	0.109	0.029	-0.562	0.217	0.378	0.298	-0.031	-0.043	0.297	-0.012	0.310
X11	SCH	0.367	-0.041	-0.214	0.022	-0.095	0.223	-0.060	0.002	0.015	-0.043	0.715	0.891**
	DCH	-0.049	-0.015	-0.152	-0.403	-0.080	-0.068	0.235	-0.070	0.235	0.281	1.007	0.921**

Note: Residual for SCH =0.0509, Residual for DCH = 0.0461; * Significant @ 5%; **Significant @ 1%; X1: Days to first flowering; X2: Days to 50 per cent flowering; X3: Plant height; X4: Number of branches per plant; X5: Internodal length; X6: Fruit weight; X7: Fruit length; X8: Fruit diameter; X9: Number of seeds per fruit; X10: 100 seed weight; X11: Number of fruits per plant